

# ภาคผนวก ค

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ใบรายงานผลวิเคราะห์



## Analysis Report CH2400009



TESTING  
No.0009

Client : Dcondo Campus Resort Juristic Person Condominium  
222 Moo 1, Suthep Rd., Tambon Suthep, Amphoe Mueang Chiang Mai, Chiang  
Mai, Thailand, 50200  
P/O : ----  
Project : ----  
Project Location: Dcondo Campus Resort Juristic Person Condominium

Work Order : CH2400009  
Report Number : CH2400009-AA  
Date Received : Jan 10, 2024  
Date Reported : Jan 19, 2024  
Date Analysis Commenced : Jan 10, 2024  
No. of samples received : 1  
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

Nanthawadee Somboon  
Specialist 1

## Terms and Conditions

### GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

### PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

### FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

### LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited to ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

### CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

### INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
  - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
  - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

### TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

### MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

### DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any patent to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



# Analysis Report CH2400009

Report Number : CH2400009-AA



TESTING  
No.0009

## Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2400009-001	น้ำทิ้ง	----	----	1x Plastic bottle - Preserved with H <sub>2</sub> SO <sub>4</sub> , 2x 1L Plastic Bottle, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x 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



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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
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- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



# Analysis Report CH2400009

Report Number : CH2400009-AA



TESTING  
No.0009

Sub-Matrix: WASTEWATER

Client Sample ID

(Matrix: WATER)

Sub-Matrix: WASTEWATER (Matrix: WATER)							Client Sample ID		น้ำทิ้ง	----	----
							Sampling Date		Jan 09, 2024 10:00 AM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2400009-001	-----	-----	
						MNRE 2548 Type A	----	Result	----	----	
Chemical Parameters											
EN0045	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	12 *	----	----	
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	4	----	----	
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5-9	----	7.8	----	----	
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	<0.5 *	----	----	
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	20.0	----	----	
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	----	448	----	----	
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	13	----	----	

Guideline: MNRE 2548 Type A: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type A (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 -----

## Terms and Conditions

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
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- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
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## Analysis Report CH2400009



Accreditation No.1031/47

Client : Dcondo Campus Resort Juristic Person Condominium  
222 Moo 1, Suthep Rd., Tambon Suthep, Amphoe Mueang Chiang Mai, Chiang  
Mai, Thailand, 50200  
P/O : ----  
Project : ----  
Project Location: Dcondo Campus Resort Juristic Person Condominium

Work Order : CH2400009  
Report Number : CH2400009-AB  
Date Received : Jan 10, 2024  
Date Reported : Jan 19, 2024  
Date Analysis Commenced : Jan 11, 2024  
No. of samples received : 1  
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

Nanthawadee Somboon  
Specialist 1

## Terms and Conditions

### GENERAL

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- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

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### LIMITATION OF LIABILITY

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
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# Analysis Report CH2400009

Report Number : CH2400009-AB



Accreditation No.1031/47

## Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2400009-002	น้ำประปา	----	----	1x 500mL Plastic Bottle, 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
EN0100	Bangkok	In-house method : STM 04-011 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C

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# Analysis Report CH2400009

Report Number : CH2400009-AB



Accreditation No.1031/47

Sub-Matrix: PROCESS WATER						Client Sample ID		น้ำประปา	---	---
(Matrix: WATER)						Sampling Date		Jan 09, 2024 10:00 AM	---	---
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2400009-002	-----	-----
						----	----	Result	----	----
Physical and Aggregate Properties										
EN0100	Bangkok	Total Dissolved Solids at 180°C	----	5	mg/L	----	----	140	----	----

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 -----



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### LIMITATION OF LIABILITY

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
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  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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## Analysis Report CH2400009



TESTING  
No.0009

Client : Dcondo Campus Resort Juristic Person Condominium  
222 Moo 1, Suthep Rd., Tambon Suthep, Amphoe Mueang Chiang Mai, Chiang  
Mai, Thailand, 50200  
P/O : ----  
Project : ----  
Project Location: Dcondo Campus Resort Juristic Person Condominium

Work Order : CH2400009  
Report Number : CH2400009-AC  
Date Received : Jan 10, 2024  
Date Reported : Jan 19, 2024  
Date Analysis Commenced : Jan 10, 2024  
No. of samples received : 1  
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

Kittitee Jamjumroon  
Scientist (3)

## Terms and Conditions

### GENERAL

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# Analysis Report CH2400009

Report Number : CH2400009-AC



TESTING  
No.0009

## Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2400009-003	น้ำสระว่ายน้ำ	----	----	1x 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
MC6020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, Part 9221 B, E

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# Analysis Report CH2400009

Report Number : CH2400009-AC



TESTING  
No.0009

Sub-Matrix: PROCESS WATER							Client Sample ID		น้ำสระว่ายน้ำ		---		---	
(Matrix: WATER)							Sampling Date		Jan 09, 2024 10:10 AM		---		---	
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2400009-003		---		---		
						MOPH 1/2550	----	Result		---		---		
Microbiological Parameters														
MC6009	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1		----		----		
MC6020	Bangkok	Fecal Coliforms	----	----	in 100mL	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 -----

## Terms and Conditions

### GENERAL

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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  - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
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- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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## Analysis Report CH2400009



Accreditation No.1031/47

Client : Dcondo Campus Resort Juristic Person Condominium  
222 Moo 1, Suthep Rd., Tambon Suthep, Amphoe Mueang Chiang Mai, Chiang  
Mai, Thailand, 50200  
P/O : ----  
Project : ----  
Project Location: Dcondo Campus Resort Juristic Person Condominium

Work Order : CH2400009  
Report Number : CH2400009-AD  
Date Received : Jan 10, 2024  
Date Reported : Jan 19, 2024  
Date Analysis Commenced : Jan 10, 2024  
No. of samples received : 3  
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

Kittitee Jamjumroon  
Scientist (3)



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# Analysis Report CH2400009

Report Number : CH2400009-AD



Accreditation No.1031/47

## Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2400009-004	อาคาร A : น้ำดี 1	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
CH2400009-005	อาคาร B : น้ำดี 2	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
CH2400009-006	อาคาร C : น้ำดี 3	----	----	1x 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

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- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

### MISCELLANEOUS

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- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any patent to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



# Analysis Report CH2400009

Report Number : CH2400009-AD



Accreditation No.1031/47

Sub-Matrix: PROCESS WATER							Client Sample ID		อาคาร A : น้ำดี 1		อาคาร B : น้ำดี 2		อาคาร C : น้ำดี 3	
(Matrix: WATER)														
							Sampling Date		Jan 09, 2024 10:15 AM		Jan 09, 2024 10:20 AM		Jan 09, 2024 10:25 AM	
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2400009-004		CH2400009-005		CH2400009-006		
						----	----	Result		Result		Result		
Microbiological Parameters														
MC6012	Bangkok	Escherichia coli	----	----	in 100mL	----	----	Not Detected		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 -----

## Terms and Conditions

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### PROVISION OF SERVICES

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- b) The Client acknowledges that it is the Client's sole responsibility to make its own assessment of the suitability for any purpose of the Services, detection limits and confidence intervals inherent in ALS's standard testing methodology, the ALS Report and its contents. All data and ALS Reports relate to the sample tested only.
- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

### FEES AND PAYMENT

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- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

### LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited to ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

### CLIENTS OBLIGATIONS

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- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

### INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
  - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
  - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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## Analysis Report CH2400023



TESTING  
No.0009

Client : Dcondo Campus Resort Juristic Person Condominium  
222 Moo 1, Suthep Rd., Tambon Suthep, Amphoe Mueang Chiang Mai, Chiang  
Mai, Thailand, 50200  
P/O : ----  
Project : ----  
Project Location: Dcondo Campus Resort Juristic Person Condominium

Work Order : CH2400023  
Report Number : CH2400023-AA  
Date Received : Feb 06, 2024  
Date Reported : Feb 12, 2024  
Date Analysis Commenced : Feb 06, 2024  
No. of samples received : 2  
Temperature : 4.0 °C  
Sampled by : Tanakron Insuta

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.

### Signatories

Kittitee Jamjumroon  
Scientist (3)

## Terms and Conditions

### GENERAL

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# Analysis Report CH2400023

Report Number : CH2400023-AA



TESTING  
No.0009

## Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2400023-001	น้ำทิ้ง	----	----	1x Plastic bottle - Preserved with H <sub>2</sub> SO <sub>4</sub> , 1x Plastic Bottle, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
CH2400023-002	น้ำสระว่ายน้ำ	----	----	1x 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 - S <sub>2</sub> (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
MC6009	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B
MC6020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, Part 9221 B, E



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- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

### LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited to ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
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  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
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# Analysis Report CH2400023

Report Number : CH2400023-AA



TESTING  
No.0009

Sub-Matrix: WASTEWATER

Client Sample ID

น้ำทิ้ง

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(Matrix: WATER)

Sampling Date

Feb 05, 2024 11:00 AM

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Method

Testing Lab

Analytes

LOD

LOQ

Unit

Guideline

CH2400023-001

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MNRE 2548  
Type A

MOPH  
1/2550

Result

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## Chemical Parameters

EN0045	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	17 *	----	----
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	----	0.8 *	----	----
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	21.7	----	----

## 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	----	440	----	----
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	25	----	----

## Terms and Conditions

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# Analysis Report CH2400023

Report Number : CH2400023-AA



TESTING  
No.0009

Sub-Matrix: PROCESS WATER						Client Sample ID		น้ำสระว่ายน้ำ	---	---
(Matrix: WATER)						Sampling Date		Feb 05, 2024 11:05 AM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2400023-002	-----	-----
						MNRE 2548 Type A	MOPH 1/2550	Result	----	----
Microbiological Parameters										
MC6009	Bangkok	Total Coliforms	----	----	MPN/100mL	----	<10	<1.1	----	----
MC6020	Bangkok	Fecal Coliforms	----	----	in 100mL	----	Not Detected	Not Detected	----	----

Guideline: MNRE 2548 Type A: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type A (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 -----

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## Analysis Report CH2400033



TESTING  
No.0009

Client : Dcondo Campus Resort Juristic Person Condominium  
222 Moo 1, Suthep Rd., Tambon Suthep, Amphoe Mueang Chiang Mai, Chiang  
Mai, Thailand, 50200  
P/O : ----  
Project : ----  
Project Location: Dcondo Campus Resort Juristic Person Condominium

Work Order : CH2400033  
Report Number : CH2400033-AA  
Date Received : Mar 05, 2024  
Date Reported : Mar 11, 2024  
Date Analysis Commenced : Mar 05, 2024  
No. of samples received : 2  
Temperature : 2.1 °C  
Sampled by : Phanudeth Petchaut

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.

### Signatories

*Siriluk P.*

Siriluk Bunnak  
Section Head

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand T +662 760 3000

## Terms and Conditions

### GENERAL

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### LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited to ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

### INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

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- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
  - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
  - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
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### MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
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# Analysis Report CH2400033

Report Number : CH2400033-AA



TESTING  
No.0009

## Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2400033-001	น้ำทิ้ง	----	----	1x Plastic bottle - Preserved with H <sub>2</sub> SO <sub>4</sub> , 1x Plastic Bottle, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
CH2400033-002	น้ำสระว่ายน้ำ	----	----	1x 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 - S <sub>2</sub> (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)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B and part 4500 - O (G)
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
MC6020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, Part 9221 B, E



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# Analysis Report CH2400033

Report Number : CH2400033-AA



TESTING  
No.0009

Sub-Matrix: WASTEWATER

Client Sample ID

น้ำทิ้ง

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(Matrix: WATER)

Sampling Date

Mar 04, 2024 10:05 AM

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---

Method

Testing Lab

Analytes

LOD

LOQ

Unit

Guideline

CH2400033-001

---

---

MNRE 2548  
Type A

MOPH  
1/2550

Result

---

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## Chemical Parameters

EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	13.2	----	----
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	<3	----	----
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5-9	----	7.8	----	----
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	<0.5 *	----	----
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	16.5	----	----

## 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	----	388	----	----
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	14	----	----

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### LIMITATION OF LIABILITY

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

### CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

### INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

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- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
  - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
  - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

### TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

### MISCELLANEOUS

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### DEFINITIONS

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- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any patent to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



# Analysis Report CH2400033

Report Number : CH2400033-AA



TESTING  
No.0009

Sub-Matrix: PROCESS WATER							Client Sample ID		น้ำสระว่ายน้ำ		----		----	
(Matrix: WATER)							Sampling Date		Mar 04, 2024 10:00 AM		----		----	
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2400033-002		-----		-----		
						MNRE 2548 Type A	MOPH 1/2550	Result		----		----		
Microbiological Parameters														
MC6009	Bangkok	Total Coliforms	----	----	MPN/100mL	----	<10	>23	----	----	----	----		
MC6020	Bangkok	Fecal Coliforms	----	----	in 100mL	----	Not Detected	Detected	----	----	----	----		

Guideline: MNRE 2548 Type A: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type A (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 -----

## Terms and Conditions

### GENERAL

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- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

### PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
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- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

### FEES AND PAYMENT

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- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

### LIMITATION OF LIABILITY

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  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
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## Analysis Report CH2400034



TESTING  
No.0009

Client : Dcondo Campus Resort Juristic Person Condominium  
222 Moo 1, Suthep Rd., Tambon Suthep, Amphoe Mueang Chiang Mai, Chiang  
Mai, Thailand, 50200  
P/O : ----  
Project : ----  
Project Location: Dcondo Campus Resort Juristic Person Condominium

Work Order : CH2400034  
Report Number : CH2400034-AA  
Date Received : Apr 03, 2024  
Date Reported : Apr 12, 2024  
Date Analysis Commenced : Apr 03, 2024  
No. of samples received : 2  
Temperature : 2.6 °C  
Sampled by : Sitthichok Taseeda

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.

### Signatories

Siriluk Bunnak  
Section Head

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand T +662 760 3000

## Terms and Conditions

### GENERAL

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- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



# Analysis Report CH2400034

Report Number : CH2400034-AA



TESTING  
No.0009

## Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2400034-001	น้ำทิ้ง	----	----	1x Plastic bottle - Preserved with H <sub>2</sub> SO <sub>4</sub> , 1x Plastic Bottle, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
CH2400034-002	น้ำสระว่ายน้ำ	----	----	1x 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	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)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B and part 4500 - O (G)
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
MC6020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, Part 9221 B, E



## Terms and Conditions

### GENERAL

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### PROVISION OF SERVICES

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- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

### FEES AND PAYMENT

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- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

### LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited to ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

### CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

### INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
  - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
  - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

### TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

### MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

### DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
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# Analysis Report CH2400034

Report Number : CH2400034-AA



TESTING  
No.0009

Sub-Matrix: WASTEWATER

Client Sample ID

น้ำทิ้ง

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(Matrix: WATER)

Sampling Date

Apr 02, 2024 10:25 AM

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Method

Testing Lab

Analytes

LOD

LOQ

Unit

Guideline

CH2400034-001

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MNRE 2548  
Type A

MOPH  
1/2550

Result

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## Chemical Parameters

EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	<2.0	----	----
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	<3	----	----
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5-9	----	7.8	----	----
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	<0.5 *	----	----
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	1.7	----	----

## 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	----	636	----	----
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	<5	----	----

## Terms and Conditions

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
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# Analysis Report CH2400034

Report Number : CH2400034-AA



TESTING  
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

น้ำสระว่ายน้ำ

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(Matrix: WATER)

Sampling Date

Apr 02, 2024 10:00 AM

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Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2400034-002	-----	-----
						MNRE 2548 Type A	MOPH 1/2550	Result	---	---
Microbiological Parameters										
MC6009	Bangkok	Total Coliforms	----	----	MPN/100mL	----	<10	<1.1	----	----
MC6020	Bangkok	Fecal Coliforms	----	----	in 100mL	----	Not Detected	Not Detected	----	----

Guideline: MNRE 2548 Type A: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type A (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 -----

## Terms and Conditions

### GENERAL

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### LIMITATION OF LIABILITY

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
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  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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## Analysis Report CH2400034



Accreditation No.1031/47

Client : Dcondo Campus Resort Juristic Person Condominium  
222 Moo 1, Suthep Rd., Tambon Suthep, Amphoe Mueang Chiang Mai, Chiang  
Mai, Thailand, 50200  
P/O : ----  
Project : ----  
Project Location: Dcondo Campus Resort Juristic Person Condominium

Work Order : CH2400034  
Report Number : CH2400034-AB  
Date Received : Apr 03, 2024  
Date Reported : Apr 12, 2024  
Date Analysis Commenced : Apr 03, 2024  
No. of samples received : 3  
Temperature : 2.6 °C  
Sampled by : Sitthichok Taseeda

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.

### Signatories

Kittitee Jamjumroon  
Scientist (3)

## Terms and Conditions

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# Analysis Report CH2400034

Report Number : CH2400034-AB



Accreditation No.1031/47

## Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2400034-003	อาคาร A : น้ำดี 1	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
CH2400034-004	อาคาร B : น้ำดี 2	----	----	1x Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
CH2400034-005	อาคาร C : น้ำดี 3	----	----	1x 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



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Report Number : CH2400034-AB



Accreditation No.1031/47

Sub-Matrix: PROCESS WATER							Client Sample ID		อาคาร A : น้ำดี 1		อาคาร B : น้ำดี 2		อาคาร C : น้ำดี 3	
(Matrix: WATER)														
							Sampling Date		Apr 02, 2024 10:10 AM		Apr 02, 2024 10:20 AM		Apr 02, 2024 10:15 AM	
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2400034-003		CH2400034-004		CH2400034-005		
						----	----	Result		Result		Result		
Microbiological Parameters														
MC6012	Bangkok	Escherichia coli	----	----	in 100mL	----	----	Not Detected		Detected		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 -----

## Terms and Conditions

### GENERAL

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
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- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
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## Analysis Report CH2400035



TESTING  
No.0009

Client : Dcondo Campus Resort Juristic Person Condominium  
222 Moo 1, Suthep Rd., Tambon Suthep, Amphoe Mueang Chiang Mai, Chiang  
Mai, Thailand, 50200  
P/O : ----  
Project : ----  
Project Location: Dcondo Campus Resort Juristic Person Condominium

Work Order : CH2400035  
Report Number : CH2400035-AA  
Date Received : May 07, 2024  
Date Reported : May 13, 2024  
Date Analysis Commenced : May 07, 2024  
No. of samples received : 2  
Temperature : 4.0 °C  
Sampled by : Sitthichok Taseeda

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.

### Signatories

*Siriluk P.*

Siriluk Bunnak  
Section Head

ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Life Sciences

104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand T +662 760 3000

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# Analysis Report CH2400035

Report Number : CH2400035-AA



TESTING  
No.0009

## Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2400035-001	น้ำทิ้ง	----	----	1x Plastic bottle - Preserved with H <sub>2</sub> SO <sub>4</sub> , 2x Plastic Bottle, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
CH2400035-002	น้ำสระว่ายน้ำ	----	----	1x 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	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)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B and part 4500 - O (G)
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
MC6020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, Part 9221 B, E

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- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
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  - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
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# Analysis Report CH2400035

Report Number : CH2400035-AA



TESTING  
No.0009

Sub-Matrix: WASTEWATER

Client Sample ID

น้ำทิ้ง

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(Matrix: WATER)

Sampling Date

May 06, 2024 09:50 AM

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Method

Testing Lab

Analytes

LOD

LOQ

Unit

Guideline

CH2400035-001

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MNRE 2548  
Type A

MOPH  
1/2550

Result

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## Chemical Parameters

EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	13.2	----	----
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	<3	----	----
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5-9	----	7.9	----	----
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	<0.5 *	----	----
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	22.5	----	----

## 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	----	472	----	----
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	7	----	----



## Terms and Conditions

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- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

### LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited to ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

### CLIENTS OBLIGATIONS

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- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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# Analysis Report CH2400035

Report Number : CH2400035-AA



TESTING  
No.0009

Sub-Matrix: PROCESS WATER						Client Sample ID		น้ำสระว่ายน้ำ		----		----	
(Matrix: WATER)						Sampling Date		May 06, 2024 10:00 AM		----		----	
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2400035-002		-----		-----	
						MNRE 2548 Type A	MOPH 1/2550	Result		----		----	
Microbiological Parameters													
MC6009	Bangkok	Total Coliforms	----	----	MPN/100mL	----	<10	<1.1	----	----		----	
MC6020	Bangkok	Fecal Coliforms	----	----	in 100mL	----	Not Detected	Not Detected	----	----		----	

Guideline: MNRE 2548 Type A: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type A (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 -----

## Terms and Conditions

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## Analysis Report CH2400036



TESTING  
No.0009

Client : Dcondo Campus Resort Juristic Person Condominium  
222 Moo 1, Suthep Rd., Tambon Suthep, Amphoe Mueang Chiang Mai, Chiang  
Mai, Thailand, 50200  
P/O : ----  
Project : ----  
Project Location: Dcondo Campus Resort Juristic Person Condominium

Work Order : CH2400036  
Report Number : CH2400036-AA  
Date Received : Jun 04, 2024  
Date Reported : Jun 11, 2024  
Date Analysis Commenced : Jun 04, 2024  
No. of samples received : 2  
Temperature : 3.2 °C  
Sampled by : Sitthichok Taseeda

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.

### Signatories

Kittitee Jamjumroon  
Scientist (3)

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### LIMITATION OF LIABILITY

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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
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# Analysis Report CH2400036

Report Number : CH2400036-AA



TESTING  
No.0009

## Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2400036-001	น้ำทิ้ง	----	----	1x Plastic bottle - Preserved with H <sub>2</sub> SO <sub>4</sub> , 1x Plastic Bottle, 1x Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x Oil & Grease, refrigerated
CH2400036-002	น้ำสระว่ายน้ำ	----	----	1x 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 - S <sub>2</sub> (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)
EN0044	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B and part 4500 - O (G)
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
MC6020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, Part 9221 B, E

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# Analysis Report CH2400036

Report Number : CH2400036-AA



TESTING  
No.0009

Sub-Matrix: WASTEWATER

Client Sample ID

น้ำทิ้ง

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(Matrix: WATER)

Sampling Date

Jun 03, 2024 10:40 AM

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Method

Testing Lab

Analytes

LOD

LOQ

Unit

Guideline

CH2400036-001

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MNRE 2548  
Type A

MOPH  
1/2550

Result

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## Chemical Parameters

EN0044	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤20	----	17.9	----	----
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	<3	----	----
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5-9	----	7.9	----	----
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	<0.5 *	----	----
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	16.4	----	----

## 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	----	296	----	----
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤30	----	16	----	----



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  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

### TERMINATION

- a) ALS may suspend or terminate its obligations under this Agreement if (a) monies payable to ALS by the client are outstanding 60 days or more (unless otherwise agreed) after the date of invoice, (b) other substantial breach by the Client of their obligations under the Agreement, which breach is not remedied within 30 days of written notice the breach to be remedied, or (c) by giving the Client 60 days written notice of ALS's intention to terminate.
- b) The Client may terminate its obligations under this Agreement in the event of a substantial breach by ALS of its obligations under the Agreement, which breach has not been remedied within 30 days of written notice to ALS.
- c) If ALS, acting reasonably, suspects that the Client is insolvent or is having difficulties paying its debts as and when they become due, or the Client is insolvent, ALS may give written notice to the Client of ALS's intention to immediately suspend or terminate its obligations under this Agreement.
- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

### MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
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- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



# Analysis Report CH2400036

Report Number : CH2400036-AA



TESTING  
No.0009

Sub-Matrix: PROCESS WATER						Client Sample ID		น้ำสระว่ายน้ำ	---	---
(Matrix: WATER)						Sampling Date		Jun 03, 2024 10:30 AM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2400036-002	-----	-----
						MNRE 2548 Type A	MOPH 1/2550	Result	----	----
Microbiological Parameters										
MC6009	Bangkok	Total Coliforms	----	----	MPN/100mL	----	<10	<1.1	----	----
MC6020	Bangkok	Fecal Coliforms	----	----	in 100mL	----	Not Detected	Not Detected	----	----

Guideline: MNRE 2548 Type A: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type A (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 -----

## Terms and Conditions

### GENERAL

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- b) This Agreement will be binding on the Client from the date the Agreement is accepted by the Client in writing, through the placement of an order for, or receipt of samples for analysis based upon this Agreement.

### PROVISION OF SERVICES

- a) ALS will provide the Services by exercising the same degree of skill, care and diligence that would be exercised by professional service providers in similar circumstances.
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- c) If the Client requires the Services to be performed by specific test method, or requires detection limits and/or confidence intervals different to those inherent in ALS's standard testing methodology, then the Client must advise ALS of such needs prior to submission of samples.
- d) The client must inform ALS prior to submitting samples should they require samples to be reported with Measurement of Uncertainty to meet with a certain regulatory compliance. ALS will not hold any obligation if this information is not communicated or disclosed to ALS prior to submission of samples.
- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
- f) ALS reserves the right to develop methods internally and automatically insource any subcontracted analytical services listed in this Agreement upon achieving equivalent LORs, NATA accreditation and service levels.

### FEES AND PAYMENT

- a) For Clients with an approved credit account, payment terms are 30 days from the date of invoice. For all other Clients, payment is due on receipt of samples by ALS, unless negotiated otherwise. Any such variance from the standard payment terms must be stipulated separately in writing in the Agreement.
- b) All prices quoted by ALS are exclusive of VAT unless stated otherwise. The Client must pay the amount of VAT specified in an invoice issued pursuant to A New Tax System (Value Added Tax) Act 2001.

### LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited to ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

### CLIENTS OBLIGATIONS

- a) The Client will ensure that all personnel, information, samples, access to site facilities, assistance, records, documentation and facilities needed by ALS to perform the Services, are available when reasonably required by ALS.
- b) The Client will give written notice to ALS of all known safety or health hazards and special procedures applicable to the performance of the Services, and the safe handling, testing, storage, transport and disposal of samples submitted to ALS (including whether or not the disposal of samples may cause contamination) or the Client's facilities or infrastructure in which ALS is partly or wholly performing the Services. ALS may in its absolute discretion, refuse to provide part or all of the Services where it determines that the provision of part or all of the Services may pose a health or safety hazard.
- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

### INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION

- a) All ALS IP will remain the property of ALS. ALS grants to the Client a world-wide, non-exclusive, royalty free license to use ALS IP for the purpose agreed to between the Client and ALS to the extent that it is needed for the enjoyment and benefit of the Services.

- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
  - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
  - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

### TERMINATION

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## Analysis Report CH2400037



TESTING  
No.0009

Client : Dcondo Campus Resort Juristic Person Condominium  
222 Moo 1, Suthep Rd., Tambon Suthep, Amphoe Mueang Chiang Mai, Chiang  
Mai, Thailand, 50200  
P/O : ----  
Project : ----  
Project Location: Dcondo Campus Resort Juristic Person Condominium

Work Order : CH2400037  
Report Number : CH2400037-AA  
Date Received : Jun 04, 2024  
Date Reported : Jun 13, 2024  
Date Analysis Commenced : Jun 04, 2024  
No. of samples received : 1  
Temperature : 3.2 °C  
Sampled by : Sitthichok Taseeda

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.

### Signatories

Kittitee Jamjumroon  
Scientist (3)

## Terms and Conditions

### GENERAL

- a) ALS will provide the Services described in the accompanying tender, quotation, or email to the Client, which together with these terms and conditions will hereafter be called the 'Agreement'.
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- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
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- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
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# Analysis Report CH2400037

Report Number : CH2400037-AA



TESTING  
No.0009

## Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2400037-001	น้ำระเหยน้ำ	----	----	1x Plastic Bottle, 1x 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
EN0002	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B
EN0007	Bangkok	Colorimetric Method
EN0017	Bangkok	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - NH3 (F)
EN0021	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)
EN0026	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - Cl (F)
EN0028	Bangkok	Calculation
EN0039	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500 - Ca (B)
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
MC6020	Bangkok	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, Part 9221 B, E
MC6035	Bangkok	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, Part 9213 F
MC6037	Bangkok	In-house method : STM 01-054 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, Part 9213 B

## Terms and Conditions

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- e) ALS may subcontract all or part of the Services and the Client consents to ALS disclosing all information (including Confidential Information) of the Client to that subcontractor necessary for the performance of the Service.
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### LIMITATION OF LIABILITY

- a) To the full extent permitted by law, ALS excludes all warranties, terms, conditions or undertakings (Terms), whether expressed or implied, in relation to the Services, the ALS Report, or its contents. Where any legislation implies any Terms in this Agreement that cannot be modified or excluded then, such Terms shall deem to be included. However, to the full extent permitted by law, ALS's liability to the Client for any breach of any Terms that cannot be excluded by law is limited to ALS's option to the re-performance of the Services or the refund of the fee for the Services.
- b) The Client hereby releases and indemnifies and shall continue to release and indemnify ALS, its officers, employees and agents from and against all actions, claims (actual or threatened), proceedings (including proceedings where ALS is joined pursuant to any proportionate liability regime, whether under common law or any federal, state, or territory legislation) or demands (including any costs and expenses in defending or servicing same) which may be brought against it or them, in respect of any loss (including Consequential Loss), death, injury, illness or damage to persons or property, and whether direct or indirect and in respect of any breach of any industrial or intellectual property rights, howsoever arising out of the use of, reliance on, or benefit of, the Services or any ALS Report, except to the extent that the loss, death, injury, illness or damage to persons or property was directly caused by the negligence, willful acts or omissions of ALS or its employees.
- c) Notwithstanding any other provision of the Agreement, and except to the extent that liability cannot be limited or excluded by law:
  - i) ALS will not be liable to the Client or any other person for any special, indirect or consequential loss, loss of profits, or economic loss, arising from the Client's use of, reliance on, or benefit of, the Services or any ALS Report;
  - ii) ALS's cumulative liability to the Client for any loss or damage whatsoever which arises under or in connection with this Agreement or the provision of Services (excluding loss or damage to real or personal property, or personal injury to persons), and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to the value of the Services provided; and
  - iii) ALS's cumulative liability to the Client for any loss or damage to real or personal property whatsoever which arises under or in connection with this Agreement or the provision of Services, and whether by way of an indemnity or statute, in tort (for negligence or otherwise), or on any other basis in law or equity, is limited to \$5 million in aggregate.

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- c) The Client must take all necessary steps to remove or remedy any known safety or health hazards, or any obstacles to or anything that is likely to interrupt the performance of the Services by ALS.

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- b) Neither ALS nor the Client will disclose Confidential Information of the other party to any third party without the prior written consent of the other party, unless required by law or the rules of a relevant stock exchange. ALS and the Client will only use Confidential Information of the other party for the purpose of the supply of the Services.
- c) Any report, findings, results, statement, certification issued by ALS (**ALS Report**) is issued on the basis of testing of samples or materials, information, or documents provided by, or on behalf of, the Client. The Client will indemnify and hold harmless ALS, its officers, employees, agents and subcontractors for any claim whatsoever in relation to any ALS Report arising from unclear, erroneous, incomplete, misleading or false information provided to ALS; or arising from any incorrect or defective materials or samples provided to ALS.
- d) Each ALS Report is:
  - i) issued using detection limits and confidence intervals inherent in ALS's testing methodology;
  - ii) contains ALS's results and opinions (if provided) on those samples or specific materials only;
  - iii) solely for the benefit of the Client, its officers and employees; and
  - iv) prepared at the request of the Client for the purpose agreed between the Client and ALS, and the Client may disclose the report to a third party for that purpose only, but ALS does not accept any responsibility or liability (including, without limitation, liability for negligence) to that third party.
- e) The Client indemnifies ALS, its directors, employees, agents, consultants, contractors, successors in title and assigns against any claim made against any or all of them by third parties arising out of either the disclosure of any ALS Report, directly or indirectly by the Client, to a third party; or any reproduction or publication of an extract of any ALS Report.
- f) The Client acknowledges and agrees that any action, inaction, or decision of the Client in response to the ALS Report will be determined by the Client. Neither ALS nor any of its officers, employees, agents, or subcontractors will be liable to the Client or any third party for any action or inaction of the Client in response to any ALS Report.

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- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

### DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any patent to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.



# Analysis Report CH2400037

Report Number : CH2400037-AA



TESTING  
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

(Matrix: WATER)

Sub-Matrix: PROCESS WATER							Client Sample ID		น้ำสระว่ายน้ำ		----	----	
(Matrix: WATER)													
								Sampling Date		Jun 03, 2024 10:30 AM		----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2400037-001		-----	-----		
						MOPH 1/2550	----	Result		----	----		
Chemical Parameters													
EN0017	Bangkok	Ammonia Nitrogen	0.02	0.05	mg/L	≤20	----	Not Detected *		----	----		
EN0039	Bangkok	Calcium Hardness as CaCO3	----	1	mg/L	250-600	----	75 *		----	----		
EN0002	Bangkok	Chloride as Cl	0.06	0.2	mg/L	≤600	----	96.2 *		----	----		
EN0028	Bangkok	Combined Chlorine	----	0.1	mg/L	0.5-1	----	0.790 *		----	----		
EN0007	Bangkok	Cyanuric Acid	2	7	mg/L	30-60	----	24 *		----	----		
EN0002	Bangkok	Nitrate as NO3	0.3	0.8	mg/L	≤50	----	7.7 *		----	----		
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	7.2-8.4	----	7.6 *		----	----		
EN0026	Bangkok	Residual Free Chlorine	----	0.1	mg/L	0.6-1	----	0.96 *		----	----		
Microbiological Parameters													
MC6009	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1		----	----		
MC6012	Bangkok	Escherichia coli	----	----	in 100mL	Not Detected	----	Not Detected		----	----		
MC6020	Bangkok	Fecal Coliforms	----	----	in 100mL	Not Detected	----	Not Detected		----	----		
MC6035	Bangkok	Pseudomonas aeruginosa	----	----	in 100mL	Not Detected	----	Not Detected *		----	----		
MC6037	Bangkok	Staphylococcus aureus	----	----	in 100mL	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)
  - ° Result(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.



## Terms and Conditions

### GENERAL

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## Analysis Report CH2400037

Report Number : CH2400037-AA



TESTING  
No.0009

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

## Terms and Conditions

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- d) In the event of termination, ALS is entitled to be paid for all work performed before the date of termination and for any unavoidable commitments entered into by ALS before the date of termination.

### MISCELLANEOUS

- a) Any provision of this Agreement that is illegal, invalid or unenforceable will be severed to the extent that it is illegal, invalid or unenforceable, with the remainder of the Agreement continuing in full force.
- b) This Agreement is governed by the law of the state or territory in which the Services are provided, and each party irrevocably and unconditionally submits to the non-exclusive jurisdiction of the courts of that place.

### DEFINITIONS

- a) **ALS** means ALS Laboratory Group (Thailand) Co., Ltd. Registration No. 0105540004859, and each of its related bodies corporate (as defined in the Civil and Commercial Code).
- b) **ALS IP** means all intellectual property and proprietary rights (whether registered or unregistered) owned by ALS prior to performance of the Services, developed by ALS in performance of the Services, or developed by ALS outside of, or after, performance of the Services, and without limitation includes business names, trade or service marks, any patent to have information (including confidential information) kept confidential, patents, patent applications, drawings, discoveries, inventions, improvements, trade secrets, technical data, formulae, databases, know-how, logos, designs, design rights, copyright and similar industrial or intellectual property rights.
- c) **Client** means the entity to which the accompanying tender, quotation, letter, fax or email is addressed.
- d) **Confidential Information** means all information in relation to a disclosing party, its business, operations, products, processes, customers, suppliers or contractors which is or might reasonably be considered by the disclosing party to be confidential, including all technical data, formulae, specifications, diagrams, plans, drawings, sketches, designs, business plans and reports, business methods and systems, business records, production information, unpublished financial accounts and reports, discount and supply agreements, subcontractor lists, customer lists, except to the extent that such information is lawfully in the public domain.
- e) **Services** means the services described in the accompanying tender, quotation, letter, fax or email.
- f) **Consequential Loss** means loss or damage from a breach of contract, tort (including negligence), under statute or any other basis in law or equity including, but without limitation loss of profits, loss of revenue, loss of production, loss or denial of opportunity, loss of access to markets, loss of goodwill, loss of business reputation, future reputation or publicity, damage to credit rating, loss of use, and indirect, remote, abnormal or unforeseeable loss, or any similar loss whether or not in the reasonable contemplation of the parties at the time of this Agreement.

# ภาคผนวก ง

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กฎหมายที่เกี่ยวข้อง

## ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม

เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้ง

จากอาคารบางประเภทและบางขนาด

โดยที่ได้มีการปฏิรูประบบราชการโดยให้มีการจัดตั้งกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อมขึ้นมา และให้โอนภารกิจของกระทรวงวิทยาศาสตร์ เทคโนโลยีและสิ่งแวดล้อม ในส่วนที่เกี่ยวข้องกับพระราชบัญญัติส่งเสริมและรักษาคุณภาพสิ่งแวดล้อมแห่งชาติ พ.ศ. ๒๕๓๕ ไปเป็นของกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม ประกอบกับเป็นการสมควรให้คณะกรรมการควบคุมมลพิษ เป็นผู้พิจารณาเห็นชอบกับวิธีการตรวจหาค่ามาตรฐานการระบายน้ำทิ้ง นอกเหนือจากวิธีการที่กำหนดไว้ แทนกรมควบคุมมลพิษ จึงสมควรแก้ไขปรับปรุงประกาศกระทรวงวิทยาศาสตร์ เทคโนโลยีและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด

อาศัยอำนาจตามความในมาตรา ๕๕ แห่งพระราชบัญญัติส่งเสริมและรักษาคุณภาพสิ่งแวดล้อมแห่งชาติ พ.ศ. ๒๕๓๕ แก้ไขโดยมาตรา ๑๑๔ แห่งพระราชกฤษฎีกาแก้ไขบทบัญญัติให้สอดคล้องกับการโอนอำนาจหน้าที่ของส่วนราชการ ให้เป็นไปตามพระราชบัญญัติปรับปรุงกระทรวง ทบวง กรม พ.ศ. ๒๕๔๕ พ.ศ. ๒๕๔๕ อันเป็นพระราชบัญญัติที่มีบทบัญญัติบางประการเกี่ยวกับการจำกัดสิทธิและเสรีภาพของบุคคล ซึ่งมาตรา ๒๕ ประกอบกับมาตรา ๓๕ มาตรา ๔๘ มาตรา ๕๐ และมาตรา ๕๑ ของรัฐธรรมนูญแห่งราชอาณาจักรไทยบัญญัติให้กระทำได้ โดยอาศัยอำนาจตามบทบัญญัติแห่งกฎหมาย รัฐมนตรีว่าการกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม โดยคำแนะนำของคณะกรรมการควบคุมมลพิษ และโดยความเห็นชอบของคณะกรรมการสิ่งแวดล้อมแห่งชาติ จึงออกประกาศไว้ ดังต่อไปนี้

ข้อ ๑ ให้ยกเลิกประกาศกระทรวงวิทยาศาสตร์ เทคโนโลยีและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคารบางประเภทและบางขนาด ลงวันที่ ๑๐ มกราคม พ.ศ. ๒๕๓๗

ข้อ ๒ ในประกาศนี้

“อาคาร” หมายความว่า อาคารที่ก่อสร้างขึ้น ไม่ว่าจะมิลักษณะเป็นอาคารหลังเดียว หรือเป็นกลุ่มของอาคารซึ่งตั้งอยู่ภายในพื้นที่ซึ่งเป็นบริเวณเดียวกัน และไม่ว่าจะมีท่อระบายน้ำท่อเดียว หรือมีหลายท่อที่เชื่อมติดต่อกันระหว่างอาคารหรือไม่ก็ตาม ซึ่งได้แก่

(๑) อาคารชุด ตามกฎหมายว่าด้วยอาคารชุด

(๒) โรงแรม ตามกฎหมายว่าด้วยโรงแรม

- (๓) หอพัก ตามกฎหมายว่าด้วยหอพัก
- (๔) สถานบริการประเภทสถานอาบน้ำ นวดหรืออบตัว ซึ่งมีผู้ให้บริการแก่ลูกค้า ตามกฎหมายว่าด้วยสถานบริการ
- (๕) โรงพยาบาลของทางราชการหรือสถานพยาบาล ตามกฎหมายว่าด้วยสถานพยาบาล
- (๖) อาคารโรงเรียนเอกชน ตามกฎหมายว่าด้วยโรงเรียนเอกชน โรงเรียนของทางราชการ อาคารสถาบันอุดมศึกษาของเอกชน ตามกฎหมายว่าด้วยสถาบันอุดมศึกษาของเอกชนและสถาบันอุดมศึกษาของทางราชการ
- (๗) อาคารที่ทำการของทางราชการ รัฐวิสาหกิจ หรือองค์การระหว่างประเทศและของเอกชน
- (๘) อาคารของศูนย์การค้าหรือห้างสรรพสินค้า
- (๙) ตลาด ตามกฎหมายว่าด้วยการสาธารณสุข แต่ไม่รวมถึง ท่าเทียบเรือประมง สะพานปลา หรือกิจการแพปลา
- (๑๐) กัฏดาการหรือร้านอาหาร
- “น้ำทิ้ง” หมายความว่า น้ำเสียที่ผ่านระบบบำบัดน้ำเสียแล้วจนเป็นไปตามมาตรฐานควบคุมการระบายน้ำทิ้งตามที่กำหนดไว้ในประกาศนี้
- ข้อ ๓ ให้แบ่งประเภทของอาคารตามข้อ ๒ ออกเป็น ๕ ประเภท คือ
- (๑) อาคารประเภท ก.
- (๒) อาคารประเภท ข.
- (๓) อาคารประเภท ค.
- (๔) อาคารประเภท ง.
- (๕) อาคารประเภท จ.
- ข้อ ๔ อาคารประเภท ก. หมายความว่า อาคารดังต่อไปนี้
- (๑) อาคารชุดที่มีจำนวนห้องสำหรับใช้เป็นที่อยู่อาศัยรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคาร ตั้งแต่ ๕๐๐ ห้องนอนขึ้นไป
- (๒) โรงแรมที่มีจำนวนห้องสำหรับใช้เป็นห้องพักรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคาร ตั้งแต่ ๒๐๐ ห้องขึ้นไป
- (๓) โรงพยาบาลของทางราชการ รัฐวิสาหกิจหรือสถานพยาบาล ตามกฎหมายว่าด้วยสถานพยาบาล ที่มีเตียงสำหรับผู้ป่วยไว้ค้างคืนรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๓๐ เตียงขึ้นไป

(๔) อาคารโรงเรียนเอกชน โรงเรียนของทางราชการ สถาบันอุดมศึกษาของเอกชน หรือสถาบันอุดมศึกษาของทางราชการที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๒๕,๐๐๐ ตารางเมตรขึ้นไป

(๕) อาคารที่ทำการของทางราชการ รัฐวิสาหกิจ องค์การระหว่างประเทศ หรือของเอกชน ที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๕๕,๐๐๐ ตารางเมตรขึ้นไป

(๖) อาคารของศูนย์การค้าหรือห้างสรรพสินค้าที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๒๕,๐๐๐ ตารางเมตรขึ้นไป

(๗) ตลาดที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๒,๕๐๐ ตารางเมตรขึ้นไป

(๘) กภัตตาคารหรือร้านอาหารที่มีพื้นที่ให้บริการรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๒,๕๐๐ ตารางเมตรขึ้นไป

ข้อ ๕ อาคารประเภท ข. หมายความว่า อาคารดังต่อไปนี้

(๑) อาคารชุดที่มีจำนวนห้องสำหรับใช้เป็นที่อยู่อาศัยรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคารตั้งแต่ ๑๐๐ ห้องนอน แต่ไม่ถึง ๕๐๐ ห้องนอน

(๒) โรงแรมที่มีจำนวนห้องสำหรับใช้เป็นห้องพักรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคารตั้งแต่ ๖๐ ห้อง แต่ไม่ถึง ๒๐๐ ห้อง

(๓) หอพักที่มีจำนวนห้องสำหรับใช้เป็นที่อยู่อาศัยรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคารตั้งแต่ ๒๕๐ ห้องขึ้นไป

(๔) สถานบริการที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคารตั้งแต่ ๕,๐๐๐ ตารางเมตรขึ้นไป

(๕) โรงพยาบาลของทางราชการ รัฐวิสาหกิจ หรือสถานพยาบาล ตามกฎหมายว่าด้วยสถานพยาบาล ที่มีเตียงสำหรับผู้ป่วยไว้ค้างคืนรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๑๐ เตียง แต่ไม่ถึง ๓๐ เตียง

(๖) อาคารโรงเรียนเอกชน โรงเรียนของทางราชการ สถาบันอุดมศึกษาของเอกชน หรือสถาบันอุดมศึกษาของทางราชการที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๕,๐๐๐ ตารางเมตร แต่ไม่ถึง ๒๕,๐๐๐ ตารางเมตร

(๓) อาคารที่ทำการของทางราชการ รัฐวิสาหกิจ องค์การระหว่างประเทศ หรือของเอกชน ที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๑๐,๐๐๐ ตารางเมตร แต่ไม่ถึง ๕๕,๐๐๐ ตารางเมตร

(๔) อาคารของศูนย์การค้าหรือห้างสรรพสินค้าที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๕,๐๐๐ ตารางเมตร แต่ไม่ถึง ๒๕,๐๐๐ ตารางเมตร

(๕) ตลาดที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๑,๕๐๐ ตารางเมตร แต่ไม่ถึง ๒,๕๐๐ ตารางเมตร

(๑๐) กิตติาคารหรือร้านอาหารที่มีพื้นที่ให้บริการรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคาร ตั้งแต่ ๕๐๐ ตารางเมตร แต่ไม่ถึง ๒,๕๐๐ ตารางเมตร

ข้อ ๖ อาคารประเภท ก. หมายความว่า อาคารดังต่อไปนี้

(๑) อาคารชุดที่มีจำนวนห้องสำหรับใช้เป็นที่อยู่อาศัยรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคาร ไม่ถึง ๑๐๐ ห้องนอน

(๒) โรงแรมที่มีจำนวนห้องสำหรับใช้เป็นที่อยู่อาศัยรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคาร ไม่ถึง ๖๐ ห้อง

(๓) หอพักที่มีจำนวนห้องสำหรับใช้เป็นที่อยู่อาศัยรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคาร ตั้งแต่ ๕๐ ห้อง แต่ไม่ถึง ๒๕๐ ห้อง

(๔) สถานบริการที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคารตั้งแต่ ๑,๐๐๐ ตารางเมตร แต่ไม่ถึง ๕,๐๐๐ ตารางเมตร

(๕) อาคารที่ทำการของทางราชการ รัฐวิสาหกิจ องค์การระหว่างประเทศ หรือของเอกชน ที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๕,๐๐๐ ตารางเมตร แต่ไม่ถึง ๑๐,๐๐๐ ตารางเมตร

(๖) ตลาดที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคารหรือกลุ่มของอาคารตั้งแต่ ๑,๐๐๐ ตารางเมตร แต่ไม่ถึง ๑,๕๐๐ ตารางเมตร

(๗) กิตติาคารหรือร้านอาหารที่มีพื้นที่ให้บริการรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคาร ตั้งแต่ ๒๕๐ ตารางเมตร แต่ไม่ถึง ๕๐๐ ตารางเมตร

ข้อ ๗ อาคารประเภท ง. หมายความว่า อาคารดังต่อไปนี้



(๑) หอพักที่มีจำนวนห้องสำหรับใช้เป็นที่อยู่อาศัยรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคาร ตั้งแต่ ๑๐ ห้อง แต่ไม่ถึง ๕๐ ห้อง

(๒) ตลาดที่มีพื้นที่ใช้สอยรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคารตั้งแต่ ๕๐๐ ตารางเมตร แต่ไม่ถึง ๑,๐๐๐ ตารางเมตร

(๓) กัฏาคารหรือร้านอาหารที่มีพื้นที่ให้บริการรวมกันทุกชั้นของอาคาร หรือกลุ่มของอาคาร ตั้งแต่ ๑๐๐ ตารางเมตร แต่ไม่ถึง ๒๕๐ ตารางเมตร

ข้อ ๘ อาคารประเภท จ. หมายความว่า กัฏาคารหรือร้านอาหารที่มีพื้นที่ให้บริการรวมกันทุกชั้นไม่ถึง ๑๐๐ ตารางเมตร

ข้อ ๙ มาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร ประเภท ก. ต้องมีค่าดังต่อไปนี้

(๑) ความเป็นกรดและด่าง (PH) ต้องมีค่าระหว่าง ๕-๙

(๒) บีโอดี (BOD) ต้องมีค่าไม่เกิน ๒๐ มิลลิกรัมต่อลิตร

(๓) สารแขวนลอย (Suspended Solids) ต้องมีค่าไม่เกิน ๓๐ มิลลิกรัมต่อลิตร

(๔) ซัลไฟด์ (Sulfide) ต้องมีค่าไม่เกิน ๑.๐ มิลลิกรัมต่อลิตร

(๕) สารที่ละลายได้ทั้งหมด (Total Dissolved Solids) ต้องมีค่าเพิ่มขึ้นจากปริมาณสารละลายในน้ำใช้ตามปกติไม่เกิน ๕๐๐ มิลลิกรัมต่อลิตร

(๖) ตะกอนหนัก (Settleable Solids) ต้องมีค่าไม่เกิน ๐.๕ มิลลิกรัมต่อลิตร

(๗) น้ำมันและไขมัน (Fat Oil and Grease) ต้องมีค่าไม่เกิน ๒๐ มิลลิกรัมต่อลิตร

(๘) ทีเคเอ็น (TKN) ต้องมีค่าไม่เกิน ๓๕ มิลลิกรัมต่อลิตร

ข้อ ๑๐ มาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร ประเภท ข. ต้องเป็นไปตามข้อ ๙ เว้นแต่

(๑) บีโอดี ต้องมีค่าไม่เกิน ๓๐ มิลลิกรัมต่อลิตร

(๒) สารแขวนลอย ต้องมีค่าไม่เกิน ๔๐ มิลลิกรัมต่อลิตร

ข้อ ๑๑ มาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร ประเภท ค. ต้องเป็นไปตามข้อ ๙ เว้นแต่

(๑) บีโอดี ต้องมีค่าไม่เกิน ๔๐ มิลลิกรัมต่อลิตร

(๒) สารแขวนลอย ต้องมีค่าไม่เกิน ๕๐ มิลลิกรัมต่อลิตร

(๓) ซัลไฟด์ ต้องมีค่าไม่เกิน ๓.๐ มิลลิกรัมต่อลิตร

(๔) ค่าทีเคเอ็น ต้องมีค่าไม่เกิน ๔๐ มิลลิกรัมต่อลิตร

ข้อ ๑๒ มาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร ประเภท ง. ต้องเป็นไปตามข้อ ๘  
เว้นแต่

(๑) บีโอดี ต้องมีค่าไม่เกิน ๕๐ มิลลิกรัมต่อลิตร

(๒) สารแขวนลอย ต้องมีค่าไม่เกิน ๕๐ มิลลิกรัมต่อลิตร

(๓) ซัลไฟด์ ต้องมีค่าไม่เกิน ๔.๐ มิลลิกรัมต่อลิตร

(๔) ค่าทีเคเอ็น ต้องมีค่าไม่เกิน ๔๐ มิลลิกรัมต่อลิตร

ข้อ ๑๓ มาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร ประเภท จ. ต้องมีค่าดังต่อไปนี้

(๑) ความเป็นกรดและด่างต้องมีค่าระหว่าง ๕-๙

(๒) บีโอดี ต้องมีค่าไม่เกิน ๒๐๐ มิลลิกรัมต่อลิตร

(๓) สารแขวนลอย ต้องมีค่าไม่เกิน ๖๐ มิลลิกรัมต่อลิตร

(๔) น้ำมันและไขมัน ต้องมีค่าไม่เกิน ๑๐๐ มิลลิกรัมต่อลิตร

ข้อ ๑๔ การตรวจสอบมาตรฐานการระบายน้ำทิ้งจากอาคาร ให้ใช้วิธีการดังต่อไปนี้

(๑) การตรวจสอบค่าความเป็นกรดและด่างให้กระทำโดยใช้เครื่องวัดความเป็นกรดและด่าง  
ของน้ำ (PH Meter)

(๒) การตรวจสอบค่าบีโอดีให้กระทำโดยใช้วิธีการอะไซด์โมดิฟิเคชัน (Azide Modification)  
ที่อุณหภูมิ ๒๐ องศาเซลเซียส เป็นเวลา ๕ วัน ติดต่อกันหรือวิธีการอื่นที่คณะกรรมการควบคุมมลพิษ  
ให้ความเห็นชอบ

(๓) การตรวจสอบค่าสารแขวนลอยให้กระทำโดยใช้วิธีการกรองผ่านกระดาษกรองใยแก้ว  
(Glass Fibre Filter Disc)

(๔) การตรวจสอบค่าซัลไฟด์ให้กระทำโดยใช้วิธีการไตเตรท (Titrate)

(๕) การตรวจสอบค่าสารที่ละลายได้ทั้งหมดให้กระทำโดยใช้วิธีการระเหยแห้งระหว่างอุณหภูมิ  
๑๐๓ องศาเซลเซียส ถึงอุณหภูมิ ๑๐๕ องศาเซลเซียส ในเวลา ๑ ชั่วโมง

(๖) การตรวจสอบค่าตะกอนหนักให้กระทำโดยใช้วิธีการกรวยอิมฮอฟฟ์ (Imhoff cone)  
ขนาดบรรจุ ๑,๐๐๐ ลูกบาศก์เซนติเมตร ในเวลา ๑ ชั่วโมง

(๓) การตรวจสอบค่าน้ำมันและไขมันให้กระทำโดยใช้วิธีการสกัดด้วยตัวทำละลาย แล้วแยกหาน้ำหนักของน้ำมันและไขมัน

(๔) การตรวจสอบค่าที่เคเอ็นให้กระทำโดยใช้วิธีการเจลดาคัล (Kjeldahl)

ข้อ ๑๕ การคิดคำนวณพื้นที่ใช้สอย จำนวนอาคารและจำนวนห้องของอาคาร หรือกลุ่มของอาคาร ให้เป็นไปตามวิธีการที่คณะกรรมการควบคุมมลพิษกำหนด โดยประกาศในราชกิจจานุเบกษา

ข้อ ๑๖ วิธีการเก็บตัวอย่างน้ำ ความถี่ และระยะเวลาในการเก็บตัวอย่างน้ำ ให้เป็นไปตามที่คณะกรรมการควบคุมมลพิษกำหนด โดยประกาศในราชกิจจานุเบกษา

ข้อ ๑๗ ประกาศนี้ให้ใช้บังคับตั้งแต่วันถัดจากวันประกาศในราชกิจจานุเบกษาเป็นต้นไป

ประกาศ ณ วันที่ ๗ พฤศจิกายน พ.ศ. ๒๕๔๘

ยงยุทธ ดิยะไพรัช

รัฐมนตรีว่าการกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม

## คำแนะนำของคณะกรรมการสาธารณสุข

ฉบับที่ 1 / 2550

### เรื่อง การควบคุมการประกอบกิจการสระว่ายน้ำ หรือกิจการอื่นๆ ในทำนองเดียวกัน

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การประกอบกิจการสระว่ายน้ำ หรือกิจการอื่นๆ ในทำนองเดียวกัน เป็นกิจการที่ถูกควบคุมในลักษณะที่เป็นกิจการที่เป็นอันตรายต่อสุขภาพ ตามมาตรา 31 แห่งพระราชบัญญัติการสาธารณสุข พ.ศ. 2535 ซึ่งการประกอบกิจการนี้เป็นแหล่งที่ผู้ใช้บริการเข้ามาชุมนุมอยู่ร่วมกันในสระว่ายน้ำ สวนน้ำ สวนสนุกที่มีลักษณะเช่นเดียวกับสระว่ายน้ำ อันอาจก่อให้เกิดผลกระทบต่อสุขภาพของประชาชน เนื่องจากการก่อสร้างสระว่ายน้ำ หรือกิจการอื่นๆ ในทำนองเดียวกันเพิ่มมากขึ้น ทั้งสโมสร สนามกีฬา สวนสนุก และชุมชนในท้องถิ่นทั่วไป ซึ่งถ้าสระว่ายน้ำ เหล่านี้ขาดการดูแลและบำรุงรักษาตามหลักสุขาภิบาล การอนามัยสิ่งแวดล้อม การดูแลคุณภาพน้ำ รวมทั้งมาตรการด้านความปลอดภัยอย่างถูกต้อง สระว่ายน้ำอาจกลายเป็นแหล่งแพร่เชื้อโรคต่างๆ ได้ เช่น โรคเยื่อตาอักเสบ หูอักเสบ โรคผิวหนัง โรคระบบทางเดินหายใจ โรคระบบทางเดินอาหาร รวมทั้งโรคไม่ติดเชื้อต่างๆ อันมีผลมาจากการใช้สารเคมี เช่น อาการผิวหนังเนื่องจากแพ้สารเคมี อาการเจ็บคอ ไอ แน่นหน้าอก อาการคลื่นไส้อาเจียน เนื่องจากแพ้สารเคมี นอกจากนั้นยังรวมถึงอุบัติเหตุต่างๆ ด้วย

อาศัยอำนาจตามความในมาตรา 10(3) แห่งพระราชบัญญัติการสาธารณสุข พ.ศ. 2535 คณะกรรมการสาธารณสุขจึงได้มีมติในคราวการประชุมครั้งที่ 43-3/2549 เมื่อวันที่ 27 มิถุนายน 2549 เห็นชอบให้ออกคำแนะนำแก่ราชการส่วนท้องถิ่นในการออกข้อกำหนดท้องถิ่นเกี่ยวกับหลักเกณฑ์ในการควบคุมกำกับดูแลการประกอบกิจการสระว่ายน้ำหรือกิจการอื่นๆ ในทำนองเดียวกัน ดังต่อไปนี้

ข้อ 1 กรณีที่ในเขตราชการส่วนท้องถิ่นใด มีการประกอบกิจการสระว่ายน้ำและกิจการอื่นๆ ในทำนองเดียวกัน ราชการส่วนท้องถิ่นนั้นอาจออกข้อกำหนดของท้องถิ่นกำหนดให้กิจการดังกล่าว เป็นกิจการที่ต้องควบคุมในท้องถิ่นนั้นได้ ตามมาตรา 32 (1) แห่งพระราชบัญญัติการสาธารณสุข พ.ศ. 2535



ข้อ 2 เพื่อประโยชน์ในการควบคุมหรือกำกับดูแลสถานประกอบการสระว่ายน้ำหรือกิจการอื่นๆ ในทำนองเดียวกัน ราชการส่วนท้องถิ่นอาจพิจารณาออกข้อกำหนดของท้องถิ่น กำหนดหลักเกณฑ์ และเงื่อนไขทั่วไป ให้ผู้ดำเนินการปฏิบัติเกี่ยวกับสภาพหรือสุขลักษณะของสถานที่ที่ใช้ในการประกอบการ และมาตรการป้องกันอันตรายต่อสุขภาพ ตามมาตรา 32(2) แห่งพระราชบัญญัติการสาธารณสุข พ.ศ. 2535 ตามหลักเกณฑ์ด้านสุขลักษณะในการควบคุมการประกอบการสระว่ายน้ำหรือกิจการอื่นๆ ในทำนองเดียวกันที่แนบมาพร้อมนี้

ข้อ 3 กรณีที่ราชการส่วนท้องถิ่นได้ออกข้อกำหนดของท้องถิ่นว่าด้วยการประกอบการสระว่ายน้ำหรือกิจการอื่นๆ ในทำนองเดียวกัน ควรจัดให้มีการประชาสัมพันธ์ และประชุมชี้แจงข้อกำหนดของท้องถิ่นดังกล่าวเพื่อให้ผู้ประกอบการได้ทราบโดยทั่วกันด้วย ทั้งนี้เพื่อประโยชน์ในการบังคับใช้ต่อไป

ให้ไว้ ณ วันที่ 20 มกราคม 2550



(นายปราชญ์ บุญวงศ์โรจน์)

ปลัดกระทรวงสาธารณสุข



## หลักเกณฑ์ด้านสุขลักษณะ ในการควบคุมการประกอบกิจการสระว่ายน้ำ หรือกิจการอื่นๆในทำนองเดียวกัน

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คำแนะนำนี้ให้ใช้กับกิจการสระว่ายน้ำที่เป็นบริการสาธารณะ(Public swimming pool) เช่น กิจการสระว่ายน้ำที่ให้บริการแก่ประชาชนโดยทั่วไป ซึ่งรวมถึงสระว่ายน้ำที่เป็นสวนน้ำ สวนสนุก ที่มีลักษณะเช่นเดียวกับสระว่ายน้ำที่ให้บริการในลักษณะเพื่อการค้า และสระว่ายน้ำที่เปิดให้บริการสาธารณะที่มีใช้การค้าแต่เพื่อสวัสดิการ เช่น สระว่ายน้ำที่ราชการส่วนท้องถิ่นจัดไว้เพื่อสาธารณะประโยชน์ รวมทั้ง สระว่ายน้ำที่เป็นของสโมสรของโรงงานที่บริการเฉพาะพนักงาน หรือหน่วยงานองค์กรที่บริการในกลุ่มเฉพาะ ยกเว้นสระว่ายน้ำส่วนบุคคลหรือที่มีได้ให้บริการแก่สาธารณะ

### 1. สถานที่ตั้ง

1.1 สถานที่ตั้ง ควรห่างจากแหล่งซึ่งอาจทำให้เกิดการปนเปื้อนน้ำในสระว่ายน้ำ เช่น สถานที่เลี้ยงสัตว์ สถานที่ทิ้งหรือรวบรวมมูลฝอย เป็นต้น

1.2 ควรมีรั้วหรือกำแพงเพื่อสุขอนามัยและความปลอดภัยของผู้ใช้บริการ และเพื่อป้องกันไม่ให้บุคคลภายนอกที่ไม่ได้รับอนุญาตไปใช้สระว่ายน้ำ ในช่วงที่ไม่เปิดให้บริการ รวมทั้งป้องกันสัตว์เข้ามาในบริเวณสระว่ายน้ำ

1.3 สถานที่ตั้งและบริเวณของสระว่ายน้ำ รวมทั้งระบบสาธารณูปโภคต้องอยู่ในที่น้ำท่วมไม่ถึง พื้นดินแข็งแรงไม่ทรุดง่าย อยู่ในบริเวณที่มีไฟฟ้า และน้ำประปาเพียงพอ มีทางเข้าออกสะดวก

### 2. สระว่ายน้ำและอาคารประกอบ

2.1 โครงสร้างสระว่ายน้ำ ควรสร้างด้วยคอนกรีตเสริมเหล็ก หรือวัสดุที่มีความมั่นคงแข็งแรง น้ำซึมไม่ได้ ผนังเรียบ อยู่ในสภาพดี และทำความสะอาดง่าย

2.2 ต้องมีรางระบายน้ำล้นมีฝาปิดรอบสระว่ายน้ำ มีความกว้าง 30-40 เซนติเมตร ไม่เป็นสนิม แข็งแรง ทำความสะอาดง่าย อยู่ในสภาพดี และไม่มีน้ำล้นออกจากราง

2.3 ต้องมีอุปกรณ์ เครื่องมือสำหรับใช้ทำความสะอาดสระว่ายน้ำ ได้แก่ เครื่องดูดตะกอน แปรงขัดสระชนิดลวดทองเหลืองและพลาสติก รวมทั้งตะแกรงข้อนวัสดุแขวนลอย

2.4 ต้องมีที่ว่างสำหรับใช้เป็นทางเดินรอบสระว่ายน้ำ มีความกว้างไม่น้อยกว่า 1.20 เมตร ไม่ลื่น ไม่มีน้ำขัง ทำความสะอาดง่าย

2.5 กรณีที่สระว่ายน้ำใดมีการใช้ระบบการไหลเวียนน้ำเป็นแบบระบบสกินเมอร์ ควรต้องมีข้อกำหนดเกี่ยวกับการป้องกันอันตรายจากระบบนี้ด้วย



2.6 ความลึกของน้ำ มีป้ายบอกความลึกหรือเลขบอกระดับความลึกที่สามารถมองเห็นได้ชัดเจน ในกรณีที่สระว่ายน้ำนั้นมีความลึกตั้งแต่ 1.5 เมตรขึ้นไป โดยมีตัวเลขแสดงความลึกเป็นระยะๆ อย่างน้อย 3 ระยะ

2.7 ต้องจัดให้มีแสงสว่างเพียงพอทั่วบริเวณสระว่ายน้ำ เพื่อให้มองเห็นได้ชัดเจน ในกรณีที่มีการเปิดใช้สระในเวลากลางคืน

2.8 อาคารประกอบทำด้วยวัสดุมั่นคงแข็งแรง พื้นเรียบ ไม่ลื่น ไม่ดูดซับน้ำ ทำความสะอาดง่าย พื้นลาดเอียงเล็กน้อยเพื่อการระบายน้ำที่ดี

2.9 พื้น ควรทำด้วยวัสดุแข็งแรง เรียบ ไม่ดูดซับน้ำ ทำความสะอาดง่าย ไม่ลื่น อยู่ในสภาพดี

2.10 จัดให้มีห้องเปลี่ยนเสื้อผ้า ตู้เก็บสิ่งของ ที่วางหรือเก็บรองเท้า สำหรับผู้ให้บริการ ในบริเวณทางเข้าสระว่ายน้ำ และมีจำนวนเพียงพอ

2.11 จัดให้มีอ่างล้างมือ บริเวณล้างตัวก่อนลงสระ และที่ล้างเท้า ทางเข้าบริเวณสระว่ายน้ำ และเติมคลอรีนลงในที่ล้างเท้าเพื่อป้องกันการติดเชื้อ

2.12 มีการรักษาความสะอาดรอบอาคารประกอบและพื้นที่โดยรอบอย่างสม่ำเสมอ

2.13 คู่มือให้มีการนำสัตว์ทุกชนิดเข้าไปในบริเวณสระว่ายน้ำ หรืออาคารประกอบ

### 3. ข้อปฏิบัติสำหรับผู้ประกอบกิจการ

3.1 จัดให้มีผู้ควบคุมดูแล ซึ่งผ่านการฝึกอบรมการดูแลคุณภาพน้ำในสระว่ายน้ำตามหลักสุขาภิบาลสิ่งแวดล้อม เพื่อให้มีความรู้เกี่ยวกับการควบคุมคุณภาพน้ำ และการดูแลรักษาสระว่ายน้ำ

3.2 ต้องมีเจ้าหน้าที่ความปลอดภัยประจำสระ (Life guard) อย่างน้อย 1 คน ต่อผู้ให้บริการไม่เกิน 100 คน กรณีที่เกิน 100 คน เศษของ 100 คน ให้คิดเป็น 100 คน และต้องเป็นผู้ที่มีความชำนาญในการว่ายน้ำและผ่านการอบรมการช่วยชีวิตคนจมน้ำ สามารถให้การปฐมพยาบาลได้ โดยต้องอยู่ประจำสระว่ายน้ำตลอดเวลาที่เปิดบริการ

3.3 ต้องมีการจัดการและควบคุมคุณภาพน้ำให้อยู่ในเกณฑ์มาตรฐาน ดังนี้

3.3.1 ค่าความเป็นกรด-ด่าง (pH)	7.2 – 8.4
3.3.2 คลอรีนอิสระ (Free chlorine)	0.6– 1.0 ส่วนในล้านส่วน
3.3.3 คลอรีนที่รวมกับสารอื่น (Combined chlorine)	0.5 -1.0 ส่วนในล้านส่วน
3.3.4 ค่าความเป็นด่าง (Alkalinity)	80 – 100 ส่วนในล้านส่วน
3.3.5 ความกระด้าง (Calcium hardness)	250 -600 ส่วนในล้านส่วน
3.3.6 กรดไซยานูริก (Cyanuric acid)	30-60 ส่วนในล้านส่วน
3.3.7 คลอไรด์ (Chloride)	ไม่เกิน 600 ส่วนในล้านส่วน



- 3.3.8 แอมโมเนีย (Ammonia) ไม่เกิน 20 ส่วนในล้านส่วน
- 3.3.9 ไนเตรท (Nitrate) ไม่เกิน 50 ส่วนในล้านส่วน
- 3.3.10 โคลิฟอร์มทั้งหมด (Total Coliform Bacteria) น้อยกว่า 10 ต่อน้ำ 100 มิลลิลิตร โดยวิธีเอ็มพีเอ็น (Most Probable Numbers) ในอัตราส่วน 100 มิลลิลิตร
- 3.3.11 ตรวจไม่พบฟีคัลโคลิฟอร์ม (Fecal coliform)
- 3.3.12 ตรวจไม่พบจุลินทรีย์หรือตัวบ่งชี้จุลินทรีย์ที่ทำให้เกิดโรค

(ได้แก่ *Escherichia coli* *Staphylococcus aureus* *Pseudomonas aeruginosa*)

#### 3.4 จัดให้มีการเก็บตัวอย่างเพื่อตรวจวิเคราะห์คุณภาพน้ำ ตามเกณฑ์มาตรฐานดังนี้

3.4.1 การเก็บตัวอย่างต้องทำอย่างน้อย 2 จุด โดยเก็บจากส่วนลึกและส่วนตื้น ขณะที่ผู้ใช้สระว่ายน้ำมากที่สุด

3.4.2 ตรวจวิเคราะห์ปริมาณคลอรีนอิสระคงเหลือ และค่าความเป็นกรด-ด่าง อย่างน้อยวันละ 2 ครั้ง ก่อนเปิดและหลังปิดบริการ หากมีผู้ใช้บริการเป็นจำนวนมาก หรือเป็นวันที่มีแสงแดดจัดควรตรวจสอบปริมาณคลอรีน และค่าความเป็นกรด-ด่างในระหว่างวันด้วย กรณีใช้คลอรีนชนิดกรดไตรคลอโรไฮไดรอนิก ต้องตรวจหาค่ากรดไฮไดรอนิกด้วย

3.4.3 ตรวจวิเคราะห์ปริมาณโคลิฟอร์มทั้งหมด (Total Coliform Bacteria) และฟีคัลโคลิฟอร์ม (Fecal coliform) อย่างน้อยเดือนละ 1 ครั้ง

3.4.4 ตรวจวิเคราะห์คุณภาพน้ำทางเคมี และชีวภาพ ตามเกณฑ์มาตรฐานตามที่กำหนดในข้อ 3.3 ครบทุกข้อมูล อย่างน้อยปีละ 1 ครั้ง เพื่อประกอบการพิจารณาขอหรือต่อใบอนุญาต

3.5 จัดหาเครื่องมือสำหรับตรวจวิเคราะห์คุณภาพน้ำไว้ประจำ รวมทั้งบันทึกผลการตรวจวิเคราะห์ และข้อมูลอื่นที่จำเป็น ดังนี้

3.5.1 เครื่องมือที่ใช้ตรวจวิเคราะห์ปริมาณคลอรีน ต้องสามารถตรวจวิเคราะห์ได้ในช่วง 0.2 – 2 ส่วนในล้านส่วน

3.5.2 เครื่องมือที่ใช้ตรวจวิเคราะห์ค่าความเป็นกรด-ด่าง ต้องสามารถตรวจวัดได้ อย่างน้อยช่วง 3-9 และสามารถอ่านค่าได้ช่วงละ 1

3.5.3 มีการบันทึกข้อมูลจำนวนผู้ใช้สระว่ายน้ำในแต่ละวัน แยกเพศและอายุ ระยะเวลาที่ใช้สระว่ายน้ำ

3.6 ต้องจัดให้มีป้ายแสดงข้อปฏิบัติสำหรับผู้ใช้บริการติดไว้ในบริเวณสระว่ายน้ำ ให้มองเห็นชัดเจน และควรมีข้อความอย่างน้อยดังนี้

3.6.1 ต้องสวมชุดว่ายน้ำที่สะอาด

3.6.2 ต้องชำระล้างร่างกายก่อนลงสระทุกครั้ง



3.6.3 ผู้ที่เป็นโรคตาแดง โรคผิวหนัง เป็นหวัด หนาวน้ำหวก หรือโรคติดต่ออื่นๆ ห้ามลงเล่นในสระว่ายน้ำ

3.6.4 ห้ามนำสัตว์เลี้ยงเข้ามาในบริเวณสระว่ายน้ำ

3.6.5 ห้ามปัสสาวะ บ้วนน้ำลาย หรือส่งน้ำมูลลงในน้ำ

3.6.6 ห้ามทำสระว่ายน้ำสกปรก

3.6.7 จำนวนผู้ใช้บริการมากที่สุด ที่สระว่ายน้ำสามารถรองรับได้

3.6.8 วิธีการปฐมพยาบาลช่วยคนจมน้ำ

3.7 ต้องดูแลบำรุงรักษาเครื่องกรองน้ำตามระยะเวลาที่สมควรเพื่อให้ทำงานได้เต็มประสิทธิภาพ

#### 4. การจัดการเกี่ยวกับสารเคมี

4.1 สถานที่เก็บสารเคมี ต้องมีป้ายระบุว่า “สถานที่เก็บสารเคมีอันตราย” และ “ห้ามเข้า” มีการระบายอากาศดี และมีการป้องกันน้ำซึมเข้าภาชนะบรรจุสารเคมี และมีการจัดเก็บสารเคมีเป็นไปตามกฎหมายที่เกี่ยวข้อง

4.2 สารเคมีที่ใช้ต้องมีฉลากระบุชื่อสารเคมี ส่วนผสม หรือส่วนประกอบที่เป็นอันตราย วิธีการใช้และวิธีการปฐมพยาบาลในกรณีฉุกเฉิน หรือตามที่กฎหมายอื่นกำหนด

4.3 ในการใช้สารเคมีต้องปฏิบัติตามที่ระบุไว้ในฉลาก และไม่นำสารเคมีหมดอายุมาใช้ ในกรณีที่ไม่มีการเติมสารเคมีแบบอัตโนมัติให้เติมสารเคมีลงในสระว่ายน้ำในขณะที่ปิดบริการแล้ว

4.4 สถานที่ทำงานที่เกี่ยวข้องกับการใช้สารเคมี ต้องมีแสงสว่างเพียงพอ เพื่อป้องกันการเกิดอุบัติเหตุอันเนื่องจากพนักงานไม่สามารถมองเห็นสิ่งต่าง ๆ ได้อย่างชัดเจน ค่ามาตรฐานแสงสว่างในบริเวณต่างๆ ควรเป็นดังนี้

- ห้องสูบน้ำจ่ายสารเคมีไม่น้อยกว่า 100 ลักซ์
- ห้องเครื่องกรองน้ำไม่น้อยกว่า 50 ลักซ์
- ห้องหรือสถานที่เก็บสารเคมีไม่น้อยกว่า 50 ลักซ์

4.5 ต้องมีมาตรการในการป้องกันการสัมผัสสารเคมีของพนักงาน เช่น กำหนดขั้นตอนการทำงานที่ปลอดภัย จัดหาอุปกรณ์ป้องกันอันตรายส่วนบุคคลที่เหมาะสมให้พนักงาน รวมทั้งประเมินการสัมผัสสารเคมีอันตรายของพนักงานที่ทำหน้าที่เติมสารเคมี และมีผลไว้ให้เจ้าหน้าที่ตรวจสอบอย่างน้อยปีละหนึ่งครั้ง

4.6 ในขณะทำงานกับสารเคมี ให้ผู้ปฏิบัติงานสวมอุปกรณ์ป้องกันอันตรายส่วนบุคคลที่เหมาะสม เช่น สวมหน้ากาก และสวมถุงมือในขณะปฏิบัติเกี่ยวกับสารเคมี เป็นต้น



4.7 ห้ามสูบบุหรี่ ดื่มเครื่องดื่มหรือรับประทานอาหารในห้องจัดเก็บสารเคมี

4.8 ดูแลความสะอาดอย่างสม่ำเสมอ หากสารเคมีหกรั่วไหล ต้องทำความสะอาดทันที

## 5. การจัดการสิ่งปฏิกูล น้ำเสีย และมูลฝอย

5.1. จัดให้มีห้องน้ำ ห้องส้วม และการบำบัดสิ่งปฏิกูลดังนี้

5.1.1 มีห้องน้ำ ห้องส้วมแยกจากกัน โดยมีแบบและจำนวนตามที่กำหนดในกฎหมายว่าด้วยการควบคุมอาคารและกฎหมายอื่นที่เกี่ยวข้อง

5.1.2 ลักษณะของห้องส้วม การบำบัด และการกำจัดสิ่งปฏิกูลต้องถูกต้องตามหลักสุขาภิบาล

5.1.3 ต้องดูแลรักษาความสะอาดของห้องน้ำและห้องส้วมเป็นประจำทุกวันที่เปิดให้บริการ

5.1.4 ภายในห้องน้ำควรมีวัสดุอุปกรณ์ตามความจำเป็นและเหมาะสม

5.2 มีการบำบัดน้ำเสียให้มีคุณภาพได้มาตรฐานก่อนระบายสู่ท่อระบายน้ำสาธารณะ ซึ่งส่วนประกอบของระบบการจัดการน้ำเสีย ประกอบด้วย

5.2.1 ตะแกรงคัดมูลฝอย สำหรับคัดเศษมูลฝอยจากน้ำเสีย

5.2.2 ระบบรวบรวมน้ำเสีย น้ำจากส่วนต่างๆของอาคารไหลมารวมกันที่ถังรวบรวมน้ำเพื่อรอการบำบัด น้ำที่ล้นออกจากบ่อรวบรวมนี้จะไหลเข้าสู่บ่อบำบัด

5.2.4 ระบบบำบัดน้ำเสียต้องมีวิธีการบำบัดน้ำเสียที่เหมาะสม ไม่ก่อให้เกิดเหตุเดือดร้อนรำคาญและเป็นอันตรายต่อสุขภาพของชุมชน

5.2.5 รางระบายน้ำทิ้ง รางหรือท่อสำหรับระบายน้ำทิ้ง ควรมีตะแกรงวางปิดรางเพื่อกรองเศษผงต่างๆ และป้องกันหนู นอกจากนี้ทางเปิดของท่อระบายน้ำออกสู่ท่อสาธารณะควรมีตะแกรงปิดเพื่อป้องกันหนูด้วย

5.3 จัดให้มีการจัดการมูลฝอยดังนี้

5.3.1 ควรมีการคัดแยกมูลฝอยและมีภาชนะรองรับมูลฝอยแยกตามประเภท

5.3.2 มีภาชนะรองรับมูลฝอยที่เพียงพอตามหลักสุขาภิบาล

5.3.3 ล้างทำความสะอาดภาชนะรองรับมูลฝอยและบริเวณที่วางภาชนะอยู่เสมอ

5.3.4 รวบรวมมูลฝอยจากภาชนะรองรับมูลฝอยไปยังที่พักมูลฝอยรวม หรือนำไปกำจัดทุกวัน โดยเฉพาะมูลฝอยที่เน่าเสียได้ง่าย

5.3.5 กำจัดมูลฝอยด้วยวิธีที่ถูกต้องตามหลักสุขาภิบาล และเป็นไปตามข้อกำหนดท้องถิ่น

5.3.6 ดูแลมิให้เกิดการทิ้งมูลฝอยเกลื่อนกลาดภายในสถานประกอบกิจการและบริเวณโดยรอบ



## 6. การสุขาภิบาลอาหารและน้ำดื่ม

6.1 ในกรณีมีการจำหน่ายอาหาร ต้องปฏิบัติตามหลักสุขาภิบาลอาหาร และตามข้อกำหนดของท้องถิ่น

6.2 ต้องมีน้ำดื่มที่ได้คุณภาพตามมาตรฐานน้ำดื่มไว้บริการอย่างเพียงพอ

6.3 ลักษณะการนำน้ำมาดื่ม ต้องไม่ก่อให้เกิดความสกปรกหรือการปนเปื้อน เช่น ใช้ระบบน้ำกด ใช้แก้วส่วนตัว ใช้แก้วกระดาษที่ใช้ครั้งเดียวแล้วทิ้ง และใช้แก้วส่วนกลางที่ใช้ดื่มเพียงครั้งเดียว แล้วนำไปล้างทำความสะอาดก่อนนำมาใช้ใหม่ เป็นต้น ทั้งนี้ให้จัดทำป้ายหรือมีข้อความการปฏิบัติไว้ด้วย

## 7. การป้องกันควบคุมสัตว์และแมลงนำโรค

7.1 ภายในสถานประกอบกิจการไม่ควรมีหนู แมลงวัน และแมลงสาบ

7.2 ต้องมีการป้องกัน ควบคุม กำจัดสัตว์และแมลงนำโรคโดยเฉพาะหนู แมลงวัน และแมลงสาบอย่างถูกต้องตามหลักสุขาภิบาล

## 8. การดูแลสุขภาพและความปลอดภัย

8.1 ต้องกำหนดให้มีผู้ดูแลด้วย กรณีที่นำเด็กอายุต่ำกว่า 10 ปี ที่ยังว่ายน้ำไม่เป็นและผู้สูงอายุที่ไม่สามารถดูแลตัวเองได้มาใช้บริการสระว่ายน้ำ

8.2 จัดให้มีอุปกรณ์ช่วยชีวิต ดังนี้

8.2.1 โฟมช่วยชีวิต อย่างน้อย 2 อัน

8.2.2 ห่วงชูชีพ ขนาดเส้นผ่าศูนย์กลางภายใน 15 นิ้ว หรือทุ่นลอย ผูกไว้กับเชือกยาวไม่น้อยกว่าความกว้างของสระว่ายน้ำ อย่างน้อย 2 อัน

8.2.3 ไม้ช่วยชีวิต หรือวัตถุอื่นใด มีความยาวไม่น้อยกว่า 3.5 เมตร น้ำหนักเบา อย่างน้อย 1 อัน และต้องวางไว้ที่ปลายคู่อวนลึกของสระว่ายน้ำ

8.2.4 เครื่องช่วยหายใจ สำหรับผู้ใหญ่ และสำหรับเด็ก อย่างละ 1 ชุด

8.2.5 ห้องปฐมพยาบาลพร้อมชุดปฐมพยาบาลที่พร้อมใช้งานได้ตลอดเวลาไว้ประจำสระว่ายน้ำและอยู่ในบริเวณที่ใกล้ที่สุด

8.3 มีอุปกรณ์สื่อสารที่สามารถติดต่อบุคคลหรือสถานที่สำคัญๆ เช่น โรงพยาบาล และสถานีตำรวจ เพื่อขอความช่วยเหลือเมื่อเกิดเหตุฉุกเฉินต่างๆ เช่น เพลิงไหม้ หรือมีคนจมน้ำ และต้องปิดประกาศหมายเลขโทรศัพท์ของสถานที่ดังกล่าวไว้ในที่เห็นได้ชัดเจนและเป็นข้อมูลปัจจุบันอยู่เสมอ

## 9. เหตุรำคาญ

มีการควบคุมมิให้เกิดเหตุรำคาญ ซึ่งมาจากกิจกรรมการดำเนินการต่างๆ

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# ภาคผนวก จ

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ใบรับรองการสอบเทียบเครื่องมือ



right solutions.  
right partner.

รายการเครื่องมือที่ใช้ในการวิเคราะห์ / ทดสอบ

Sample Name	Parameter	Equipment Name	ID No.	Calibrated Date	Next Cal	Freq. Calibrate (Months)
Water Lab	pH at 25 °C	pH meter	BKK_EN0342	27-Oct-23	27-Oct-24	12
Water Lab	Settleable Solids	Chamber (Cooling Room)	BKK_EN0167	6-Dec-23	6-Jun-25	18
Water Lab	Sulfide	Burette	BKK_EN0171	27-Feb-24	27-Aug-25	18
Water Lab	Sulfide	Chamber (Cooling Room)	BKK_EN0167	6-Dec-23	6-Jun-25	18
Water Lab	Oil & Grease	Electronic Top-Loading Balance	BKK_EN0003	9-Aug-23	9-Aug-24	12
Water Lab	Oil & Grease	Water Bath	BKK_EN0148	4-Jul-23	4-Jan-25	18
Water Lab	Total Kjeldahl Nitrogen	Digestion Unit	BKK_EN0223	24-May-24	24-May-25	12
Water Lab	Total Kjeldahl Nitrogen	Discrete analyzer	BKK_EN0037	12-Jul-23	12-Jul-24	12
Water Lab	Total Suspended Solids	Electronic Top-Loading Balance	BKK_EN0003	9-Aug-23	9-Aug-24	12
Water Lab	Total Suspended Solids	Oven	BKK_EN0425	6-Nov-23	6-Nov-24	12
Water Lab	Total Dissolved Solids 103-105°C	Electronic Top-Loading Balance	BKK_EN0003	9-Aug-23	9-Aug-24	12
Water Lab	Total Dissolved Solids 103-105°C	Oven	BKK_EN0425	6-Nov-23	6-Nov-24	12
Water Lab	BOD	DO Meter	BKK_EN0017	16-Nov-23	16-May-25	18
Water Lab	BOD	Incubator	BKK_EN0304	20-Mar-24	20-Mar-25	12
Water Lab	BOD	Burette	BKK_EN0171	27-Feb-24	27-Aug-25	18
Water Lab	Total Coliform	Autoclave	BKK_ML0037	17-Jul-23	17-Jan-25	18
Water Lab	Total Coliform	Incubator	BKK_ML0010	17-Jul-23	17-Jan-25	18
Water Lab	Total Coliform	Hot Air Oven	BKK_ML0013	23-Apr-24	23-Oct-25	18
Water Lab	Fecal Coliform	Autoclave	BKK_ML0037	17-Jul-23	17-Jan-25	18
Water Lab	Fecal Coliform	Incubator	BKK_ML0010	17-Jul-23	17-Jan-25	18
Water Lab	Fecal Coliform	Hot Air Oven	BKK_ML0013	23-Apr-24	23-Oct-25	18
Water Lab	Fecal Coliform	Water Bath	BKK_ML0056	1-Mar-24	1-Mar-25	12
Water Lab	Ammonia Nitrogen	Discrete analyzer	BKK_EN0037	12-Jul-23	12-Jul-24	12
Water Lab	Total Alkalinity	Burette	BKK_EN0171	27-Feb-24	27-Aug-25	18
Water Lab	Calcium Hardness	Burette	BKK_EN0171	27-Feb-24	27-Aug-25	18
Water Lab	Residual Free Chlorine	Chlorine Meter	CHM_FS0123	19-Oct-23	19-Oct-24	12
Water Lab	Nitrate	Ion Chromatography	BKK_EN0069	12-Jan-24	12-Jan-25	12
Water Lab	Chloride	Ion Chromatography	BKK_EN0069	12-Jan-24	12-Jan-25	12
Water Lab	<i>Staphylococcus aureus</i>	Autoclave	BKK_ML0037	17-Jul-23	17-Jan-25	18
Water Lab	<i>Staphylococcus aureus</i>	Incubator	BKK_ML0010	17-Jul-23	17-Jan-25	18
Water Lab	<i>Staphylococcus aureus</i>	Hot Air Oven	BKK_ML0013	23-Apr-24	23-Oct-25	18
Water Lab	<i>Pseudomonas aeruginosa</i>	Autoclave	BKK_ML0037	17-Jul-23	17-Jan-25	18
Water Lab	<i>Pseudomonas aeruginosa</i>	Incubator	BKK_ML0010	17-Jul-23	17-Jan-25	18
Water Lab	<i>Pseudomonas aeruginosa</i>	Hot Air Oven	BKK_ML0013	23-Apr-24	23-Oct-25	18
Water Lab	<i>Pseudomonas aeruginosa</i>	Water Bath	BKK_ML0054	10-Jan-24	10-Jan-25	12
Water Lab	<i>Escherichia coli</i>	Autoclave	BKK_ML0037	17-Jul-23	17-Jan-25	18
Water Lab	<i>Escherichia coli</i>	Incubator	BKK_ML0010	17-Jul-23	17-Jan-25	18
Water Lab	<i>Escherichia coli</i>	Hot Air Oven	BKK_ML0013	23-Apr-24	23-Oct-25	18
Water Lab	<i>Escherichia coli</i>	Water Bath	BKK_ML0056	1-Mar-24	1-Mar-25	12
Water Lab	Cyanuric acid	Spectrophotometer	SGK_CL0038	24-Jan-24	24-Jan-25	12





TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)  
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES  
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250  
TEL. 0-2717-3000-29 FAX. 0-2719-9484



Cert.No.: 23CH1369  
Page.: 1 of 3

## Certificate of Calibration

Equipment :	pH Meter
Manufacturer :	Hach
Model :	HQ411d
Serial No. :	200100031163
ID No. :	BKK_EN0342
Condition As-Received:	Used Item
Received Date :	26 October 2023
Calibration Date :	27 October 2023
Reference :	2310-0865DSC-3
Submitted by :	ALS Laboratory Group (Thailand) Co.,Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand
Ambient Temperature :	(25 ± 2.5) °C
Relative Humidity :	(50 ± 15) %
Calibration Procedure :	In - house method : - CP-CH5 by direct measurement with standard voltage calibrator and direct measurement with certified reference material (CRM) - CP-CH8 by comparison with standard thermometer
Calibrated by :	Warakorn Lerngagtrakul

REVIEW BY	Siriluk B.
APPROVED BY	Kd. A.
NEXT CAL. DATE	27/10/24

Approved by :

Saithip

Approved Signatory

- (☒) Saithip Meangmai  
( ) Warakorn Lerngagtrakul  
( ) Ponpan Paipim

Issue Date :

31 October 2023

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written  
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



**Cert.No.:** 23CH1369

**Page.:** 2 of 3

**Condition of this calibration result**

1. Reference Standard Instrument : -

<u>Instrument</u>	<u>Serial No.</u>	<u>ID No.</u>	<u>Cert. No.</u>	<u>Due Date</u>
1) Ref. Standard Thermometer	4982054	110RC044	23I908	26 Jul 2024

This certification is traceable to the International System of Unit maintained through:-

- Technology Promotion Association (Thailand-Japan)

2. Certified Reference Materials : The measurement results are traceable to SI through CPA chem Ltd.,  
ANSI-ASQ National Accreditation Board, Accredited No. AR-1835

<u>Buffer Solution</u>	<u>Manufacturer</u>	<u>Lot No.</u>	<u>Exp. date</u>
pH 4.008	CPA chem	913598	14 July 2025
pH 6.985	CPA chem	913599	14 July 2024
pH 9.997	CPA chem	931961	30 Sep 2024

3. This certificate is valid only to the item calibrated on date and place of calibration.

**Calibration Results**

**Function :** pH Measurement

**Performing three buffers standard curve by using buffer nominal pH (4,7,10)**

<u>Unit Under Calibration</u>	<u>Standard pH Buffer Solution</u>	<u>Actual pH Reading</u>	<u>Actual mV Reading ( mV )</u>	<u>Uncertainty of pH measurement (±)</u>	<u>Coverage factor k</u>
pH Electrode S/N.:230473042902	4.008	4.002	166.5	0.0044	2.00
	6.985	6.987	-10.4	0.0084	2.00
	9.997	10.005	-189.3	0.0071	2.00

**Remark** - Can not connect the BNC because the plug does not match with the socket.

*Saithip*





Cert.No.: 23CH1369

Page.: 3 of 3

### Calibration Results

#### Function : Temperature Measurement

##### ( \* ) Without adjustment

This equipment was connected with Temperature Probe;

- Model : PHC281  
- Serial No. : 230473042902

Dimension of probe;

- Length : 103 mm  
- Diameter : 12 mm  
- Immersion Depth : 90 mm

Calibration Point ( °C )	Standard Temperature ( °C )	UUC* Reading ( °C )	Error ( °C )	Uncertainty of measurement ( ± °C )	Coverage factor <i>k</i>
25.0	25.002	25.1	0.098	0.13	2.00

Remark : - UUC\* = Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k* , providing a level of confidence of approximately 95 %.

-o0o-

*Saithip*





# Metrology

SCI ECO Services Company Limited

33/2 Moo 3, T.Banpa, A.Kaengkhoi, Saraburi 18110, Thailand.

Saraburi Tel : +66 3627 3096 Fax : +66 3627 3100

Bangkok Tel : +668 9205 6851 , +669 8247 2360

Website : www.scieco.co.th E-Mail : calibrate@scg.com



Certificate No. T232160

Page 1 of 4

## Certificate of Calibration

Equipment : Chamber ( Cooling Room )

Manufacturer : KOLDTECH

Model : KM 320

Serial No. : TBN-1012061/05

Customer Code : BKK\_EN0167

ID No. : T2463A3

Customer : ALS Laboratory Group (Thailand) Co.,Ltd.

104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan,

Khet Suan Luang, Bangkok 10250

Customer Location : Laboratory

Date of Receipt : 29 November 2023

Calibrated By : Atiphong Rongrat ( Technician )

Approved By : Boonchai Suriyawong / Boonchai Suriyawong (Site Calibration Manager)

Date of Issue : 09 JAN 2024

REVIEW BY	<u>Kank Auk</u>
APPROVED BY	<u>Siriluk P.</u>
NEXT CAL. DATE	<u>06/06/25</u>

The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrology.

Certificate No. T232160

Page 2 of 4

## Calibration Report

**Equipment** : Chamber ( Cooling Room )  
**Date of Calibration** : 6 December 2023  
**Environment** : Temperature : 23.4-24.9 °C  
Line Voltage : 221.4-230.2 V  
Relative Humidity : 55 - 65 %RH

### Condition of this results of calibration :

1. This equipment was calibrated by insert 16 standard thermocouples type T into its chamber , the other one standard thermocouples type T use for ambient temperature measurement . The calibration was done in according to WI-T20 ( based on ASTM E145-94 ( Reapproved 2001) and AS2853-1986 ).  
All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .

2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
TC	TYPE T	TN161-TN170	T230773	10 April 2024
TC	TYPE T	TN171-TN180	T230773	10 April 2024
DATA LOGGER	34970A	T149	T230773	10 April 2024

3. This certificate is traceable to :

National Institute of Metrology ( Thailand ) through Metrological Center ( NSC-TISI-TIS 17025 CALIBRATION 0244.)

4. Condition of calibrated item : good

Equipment Description :

Time Constant 1 Hour 30 Minute At 3 °C  
Fresh Air Damper ☐ Open ☐ Min ☐ Medium ☐ Max  
☐ Close  
☒ Not Available

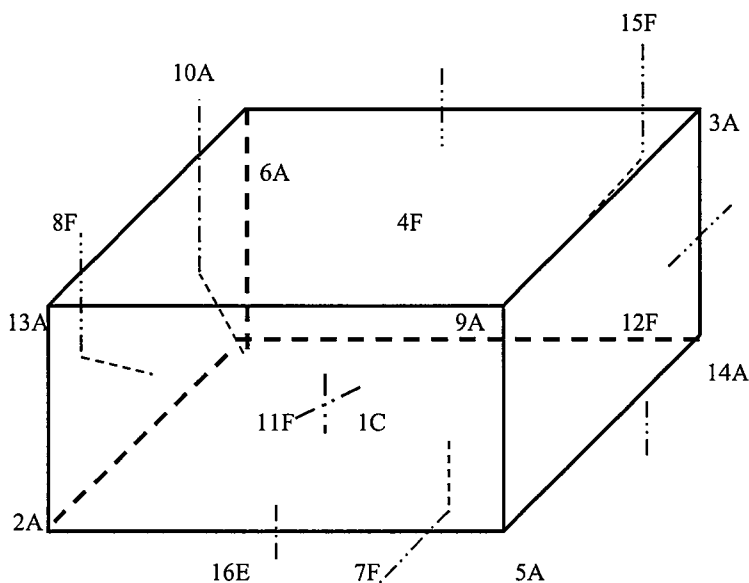
5. Adjustment :

( X ) without adjustment

( ) after adjustment

Approved By. 

## Calibration Report



C = Centre , F = Centre of Face , A = Corner , E = Centre of Edge

1C	=	TN161
2A	=	TN162
3A	=	TN163
4F	=	TN164
5A	=	TN165
6A	=	TN166
7F	=	TN167
8F	=	TN168
9A	=	TN169
10A	=	TN170
11F	=	TN171

12F	=	TN172
13A	=	TN173
14A	=	TN174
15F	=	TN175
16E	=	TN176

Approved By. 

Certificate No. T232160

Page 4 of 4

## Calibration Report

### Measurement Results

Calibration Point	Average Standard Reading at each position (°C)											
	TN161	TN162	TN163	TN164	TN165	TN166	TN167	TN168	TN169	TN170	TN171	TN172
3.0	2.83	3.34	2.95	3.46	3.45	3.76	3.25	3.46	3.39	3.50	3.58	3.42
	TN173	TN174	TN175	TN176								
	3.33	3.39	3.15	3.43								

Chamber ( Cooling Room )			Temperature Distribution				
Setting (°C)	Reading (°C)		Average (°C)	Stability (± °C)	Uniformity (°C)	Uncertainty (± °C)	Coverage Factor <i>k</i>
	Min , Max	Average					
3.0	2.8 , 4.1	3.5	3.36	1.10	2.00	1.90	2.09

The calibration result apply only the above calibrated item.

The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor *k* which for a t-distribution, providing a level of confidence of approximately 95 % .

Approved By. 



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)  
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TEL.0-2717-3000-29 FAX.0-2719-9484



## Certificate of Calibration

Cert.No.: 24CG952

Page.: 1 of 2

Equipment :	Burette
Capacity :	50 mL
Serial No. :	-
ID. No. :	BKK_EN0171
Manufacturer :	Witeg
Made in :	Germany
Submitted by :	ALS Laboratory Group (Thailand) Co.,Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand
Ambient Temperature :	(20 ± 2.5) °C
Relative Humidity :	(50 ± 10) %
Barometric Pressure :	760 mmHg
Calibration Procedure :	ASTM E 542 - 01
Calibrated by :	Natcha Chayingcheiw

Approved by :

Approved Signatory

- ( ) Unnophol Harachai  
(✓) Srisuda Khamtha  
( ) Sa-ngeunkam Wongsu

Issue Date :

27 February 2024

**The Uncertainties are for a confidence probability of approximately 95%**

This certificate may not be reproduced other than in full, except with the prior written Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.





**Equipment :** Burette  
**Received Date :** 23 February 2024  
**Condition As-Received :** New Item  
**Calibration Date :** 27 February 2024  
**Reference :** 2402-0757DSC-1

**Cert.No.:** 24CG952  
**Page.:** 2 of 2

**Condition of this result of calibration**

1. Reference Standard Instruments :

<u>Instruments</u>	<u>Model</u>	<u>Serial No.</u>	<u>ID. No.</u>	<u>Certificate No.</u>	<u>Traceability</u>	<u>Due date</u>
1) Balance	XP205DR	1126143764	140RC004	23MM538	TPA	15 Sep 2024
2) Thermo-Hygrograph	THDX-CE	00016540	140EC001	23H1275	TPA	09 June 2024
3) Thermometer	-	0834181	140EC005	23I948	TPA	10 Aug 2024

This certification is traceable to SI Unit

2. The certificate is valid only to the item calibrated on date and place of calibration.  
3. True value is converted to true volume at the standard temperature of 20 °C

**Calibration result :**

<b>Nominal capacity ( mL )</b>	<b>Reading ( mL )</b>	<b>Uncertainty ( ± mL )</b>	<b>k Factor</b>
50	50.0032	0.010	2.00

**Remark** mL = cm<sup>3</sup>

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor  $k$ , providing a level of confidence of approximately 95 %.

-o0o-

**Sartorius (Thailand) Co., Ltd.**

129 Rama 9 Road, Huaykwang, Huaykwang, Bangkok 10310

Tel: +66 2643 8361-6, e-mail: service.thailand@sartorius.com



NSC-TISI-TIS 17025

CALIBRATION 0426

**SARTORIUS**

# Certificate

## of Calibration

REVIEW BY	Siriluk P.
APPROVED BY	KLAL
NEXT CAL. DATE	09/08/24

Model Number : MSE224S-100-DU

Certificate No. : 23BCI0310

Description : Analytical Balance

Issued Date : Friday, August 11, 2023

Serial Number : 27405555

Reference No. : 216011

ID No.: BKK\_EN0003

Manufacturer : Sartorius

Page No. : 1 Of 2

Customer Name : ALS Laboratory Group (Thailand)Co., Ltd.

104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250.

Calibrated Place : Lab Room

Calibrated By : Mr.Chonchai Inthana

Calibration Date : Wednesday, August 09, 2023

Calibration

Procedure No. : This calibration was conducted by

Using in-house calibration procedure number (WI-003)

Based on UKAS LAB 14 : 2019

**Metrological data :**

Capacity : 220 g Readability : 0.0001 g

**Ambients Conditions:**

Temperature : 22.8 °C ± 5.0 °C

Humidity : 59.0 % RH ± 10.0 % RH

Pressure : ±

**Reasons for calibration**☐ New Installation ☐ Service / Repaired ☒ Re-calibration/ Maintenance**Equipment Condition:** ☒ Good Operate ☐ Fair**Measurement Method UKAS Publication Ref :Lab 14**

The measurement uncertainty stated is the expended uncertainty which is obtained from the standard uncertainty multiplied by the coverage factor (k=2) to provide a level of confidence of approximately 95%. It is determined in accordance with the Guide to Expression of Uncertainty in Measurement (GUM). The calibration certificate documents the traceability to National Standards, which realise the unit of measurement according to the International Standard System of Units (SI). Report of Tolerance came from list of Sartorius Metrological Specifications.

**Traceability:**

Model Number	Description	Traceability	Certificate No.	Due Date
YCS011-522-00	Sartorius weight set 1mg - 5000g E2, YCS011-522-00	SPC-RT	C02212565	14-Sep-2023
MHB-382SD	Humidity/Barometer/Temp Lutron MHB-382SD	DKSH	C19220444	5-Sep-2023

This certificate relate and apply this equipment only.

This certificate may not be reproduced other than in full except with the prior written approval of the Verification Operation Division  
Sartorius (Thailand) Co., Ltd.

Mr.chonchai Inthana(Technical Manager)

S  
T  
A  
M  
P



**Sartorius (Thailand) Co., Ltd.**

129 Rama 9 Road, Huaykwang, Huaykwang, Bangkok 10310

Tel: +66 2643 8361-6 Fax: +66 2643-8367, e-mail: service.thailand@sartorius.com

**SARTORIUS**

# Certificate of Calibration

Model Number : MSE224S-100-DUDescription : Analytical BalanceSerial Number : 27405555ID No. : BKK\_EN0003Manufacturer : SartoriusCertificate No. : 23BCI0310Issued Date : Friday, August 11, 2023Reference No. : 216011Page No. : 2 of 2

## Calibration Results : Without Adjustment

### Repeatability

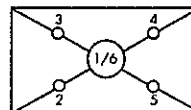
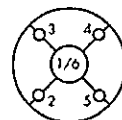
The reproducibility is the ability of a weighing instrument to display nearly identical readouts under constant test conditions when the same load within a measurement series is placed repeatedly on the weighing pan in the same manner. The standard deviation is used to express reproducibility quantitatively.

Nominal Value : (Low Load)	20.0000	200.0000
20 g	20.0000	200.0000
Tolerance	20.0000	200.0000
0.0001 g	20.0000	200.0001
	20.0000	200.0001
Nominal Value : (High Load)	19.9999	200.0001
200 g	20.0000	200.0000
Tolerance	20.0000	200.0001
0.0001 g	20.0000	200.0001
	20.0000	200.0000
Standard Deviation	0.00003	0.00005

### Eccentricity (Off-center loading error)

The off-center loading error is yielded by the difference between the readout of the load, i.e. 1/3 or 1/4 of maximum capacity, placed in the middle of the weighing pan and between each of four additional measurement points (positions defined according to OIML R76).

Nominal value : 100 g  
Tolerance 0.0004 g



#### Difference

1	—
2	0.0001
3	0.0000
4	0.0000
5	0.0001
6	-

### Linearity

The linearity, also called linearity error. Describes the deviation of the characteristic curve of a weighing instrument from the linear slope.

Tolerance 0.0002 g

Nominal Value (g)	Conventional Mass Value (g)	Displayed Value (g)	Deviation (g)	Uncertainty (g)
0.01	0.0100	0.0100	0.0000	0.00014
0.1	0.1000	0.1000	0.0000	0.00014
1	1.0000	1.0000	0.0000	0.00014
2	2.0000	2.0000	0.0000	0.00014
5	5.0000	5.0000	0.0000	0.00014
10	10.0000	10.0000	0.0000	0.00014
20	20.0000	20.0000	0.0000	0.00014
50	50.0000	50.0001	0.0001	0.00015
100	100.0000	100.0000	0.0000	0.00019
200	200.0000	200.0001	0.0001	0.00030

End of Report.





# Metrological Center

## SCI ECO Services Company Limited

33/2 Moo 3, T.Banpa, A.Kaengkhoi, Saraburi 18110, Thailand.

Saraburi Tel : +66 3627 3096 Fax : +66 3627 3100

Bangkok Tel : +668 9205 6851 , +669 8247 2360

Website : www.scieco.co.th E-Mail : calibrate@scg.com



Certificate No. T231303

Page 1 of 3

## Certificate of Calibration

Equipment : Liquid Bath ( Water )

Manufacturer : MEMMERT

Model : WNB29

Serial No. : L611.0135

Customer Code : BKK\_EN0148

ID No. : T6455A4

Customer : ALS Laboratory Group (Thailand) Co.,Ltd.

104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan,  
Khet Suan Luang, Bangkok 10250

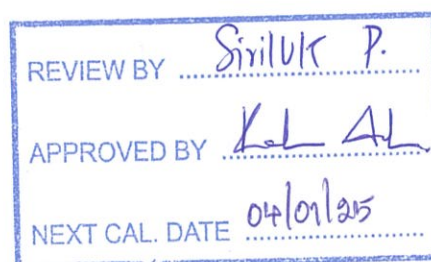
Customer Location : ORGANIC PREPARATION LAB

Date of Receipt : 27 June 2023

Calibrated By : Sujjar Naknakred ( Site Calibration Manager )

Approved By : Bm Loi / Boonchai Suriyawong (Site Calibration Manager)

Date of Issue : 11 JUL 2023



The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrological Center.

Certificate No. T231303

Page 2 of 3

## Calibration Report

**Equipment** : Liquid Bath ( Water )  
**Date of Calibration** : 4 July 2023  
**Environment** : Temperature : 22.2-22.5 °C  
Line Voltage : 221.6-224.8 V  
Relative Humidity : 55 - 65 %RH

### Condition of this results of calibration :

1. This equipment was calibrated by insert five resistance thermometer detectors into its water bath , the other one thermocouple type T use for ambient temperature measurement . The calibration was done in according to WI-T36 ( based on ASTM E715-80 ( Reapproved 2001 ) ).

All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .

2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
RTD	100 OHM	M18 (CH1,CH6-CH7,CH9-CH10)	T230545	10 April 2024
DATA LOGGER	34970A	T149	T230545	10 April 2024

3. This certificate is traceable to :

National Institute of Metrology ( Thailand ) through Metrological Center ( NSC-TISI-TIS 17025 CALIBRATION 0244.)

4. Condition of calibrated item : good

Equipment Description :

Time Constant 3 Hour 45 Minute At 60 °C

5. Adjustment :

( X ) without adjustment

( ) after adjustment

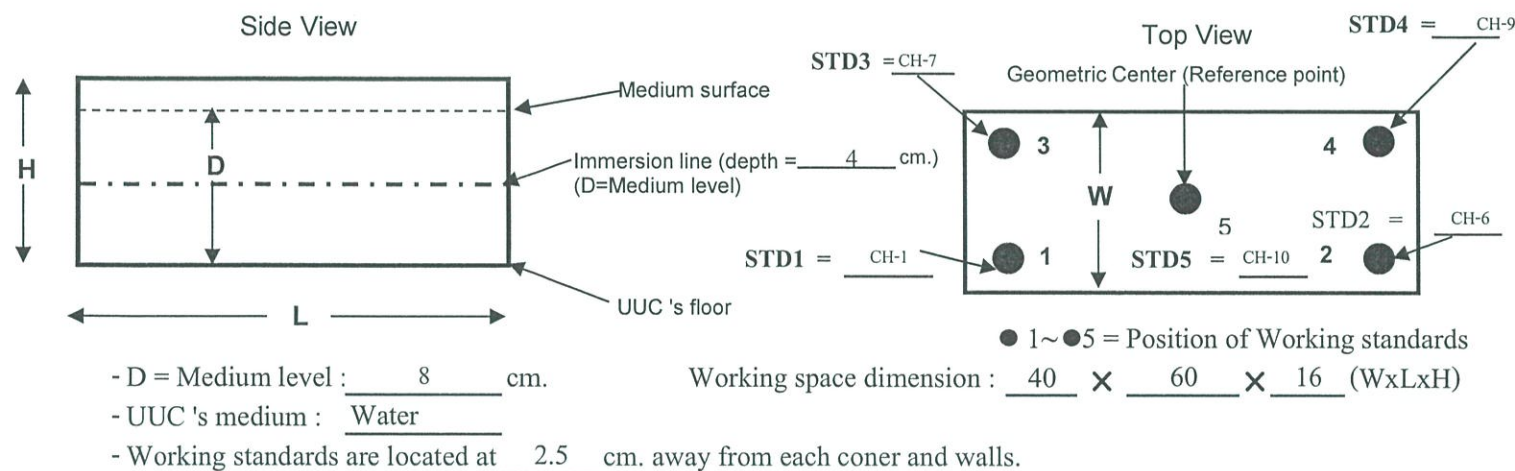
Approved By, \_\_\_\_\_



Certificate No. T231303

Page 3 of 3

## Calibration Report



### Measurement Results:

Calibration Point	Average Standard Reading at each position (°C)				
	CH-1	CH-6	CH-7	CH-9	CH-10
60	60.03	60.06	60.24	60.11	60.18
85	84.79	84.83	85.42	85.05	85.20
95	93.71	93.83	94.62	94.15	94.42


Liquid Bath ( Water )			Temperature Distribution				
Setting (°C)	Reading (°C)		Average (°C)	Stability (±°C)	Uniformity (±°C)	Uncertainty (±°C)	Coverage Factor <i>k</i>
	Min , Max	Average					
61.0	60.9 , 61.1	61.0	60.12	0.13	0.19	0.29	2.04
86.0	85.8 , 86.2	86.0	85.06	0.19	0.47	0.44	2.17
95.0	94.6 , 95	94.9	94.15	0.32	0.65	0.55	2.13

\* The quoted uncertainty exclude "uniformity"

The calibration result apply only the above calibrated item.

The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor *k* which for a t-distribution, providing a level of confidence of approximately 95 % .

Approved By. 





# Metrological Center

SCI ECO Services Company Limited

33/2 Moo 3, T.Banpa, A.Kaengkhoi, Saraburi 18110

Telephone : +66 2 586 5792-4 Fax : +66 2 586 5109

Website : www.scieco.co.th E-Mail : calibrate@scg.co.th

Certificate No. T240977

Page 1 of 5

## Certificate of Calibration

Equipment : DIGESTION UNIT

Manufacturer : Environmental Express

Model : TKN100

Serial No. : 2017TKNBC142

Customer Code : BKK\_EN0223

ID No. : T6773A4

Customer : ALS Laboratory Group (Thailand) Co.,Ltd.

104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan,

Khet Suan Luang, Bangkok 10250



Customer Location : Wet Chemistry Lab1

Date of Receipt : 15 May 2024

Calibrated By : Sujjar Naknakred ( Site Calibration Manager )

Approved By :  Preecha Phisassutthikul ( Temperature Calibration Manager )

Date of Issue : 28 MAY 2024

REVIEW BY	
APPROVED BY	
NEXT CAL. DATE	24/05/25

The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrological Center.



# Metrological Center

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Website : www.scieco.co.th

E-Mail : calibrate@scg.co.th

Certificate No. T240977

Page 2 of 5

## Calibration Report

Equipment : DIGESTION UNIT  
Date of Calibration : 24 May 2024  
Environment : Temperature : 28.7 - 30.0 °C  
Line Voltage : 222.8 - 225.9 V  
Relative Humidity : 55 - 65 %RH

### Condition of this results of calibration :

1. This equipment was calibrated by insert four standard thermocouples type S into its chamber , the other one thermocouple type T use for ambient temperature measurement . The calibration was done in according to WI-T10.

2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
TC	Type S	M20A1-(CH17-CH20)	T240714	23 April 2025
DATA LOGGER	34970A	T149	T240714	23 April 2025

3. This certificate is traceable to :

National Institute of Metrology ( Thailand ) through Metrological Center ( NSC-TISI-TIS 17025 CALIBRATION 0244.)

4. Condition of calibrated item : good

Equipment Description :

Time Constant 2 Hour 2 Minute At 380 °C  
Fresh Air Damper ☐ Open ☐ Min ☐ Médium ☐ Max  
☐ Close  
☒ Not Available

5. Adjustment :

( ) without adjustment

( X ) after adjustment

Approved By. \_\_\_\_\_



**SCG**  
CEMENT-BUILDING MATERIALS

# Metrological Center

SCI ECO Services Company Limited

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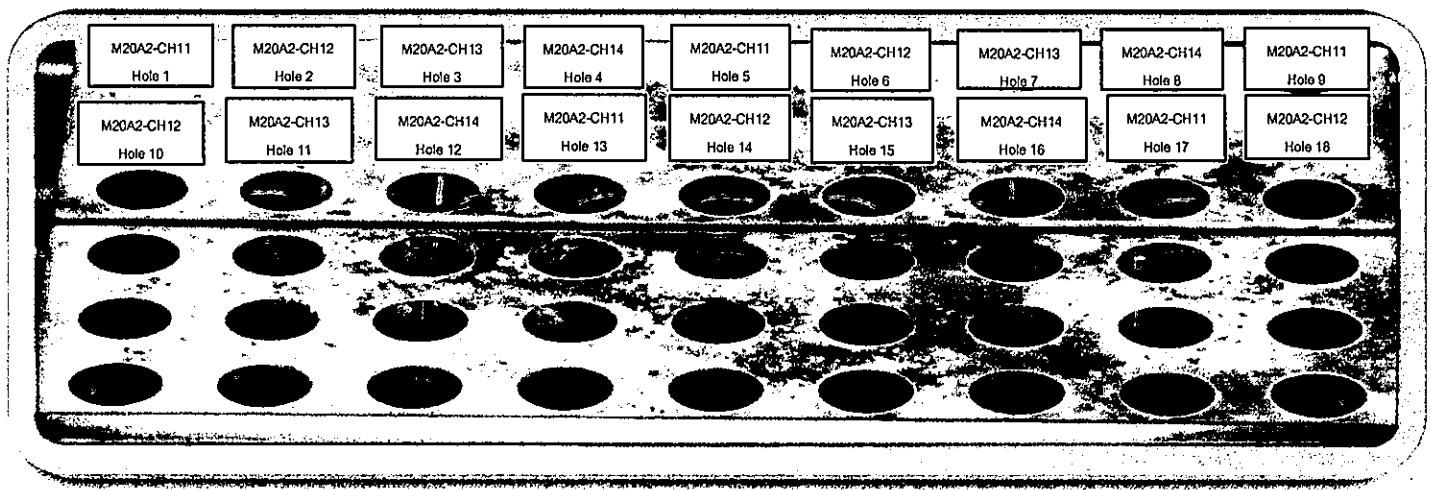
Website : www.scieco.co.th

E-Mail : calibrate@scg.co.th

Certificate No. T240977

Page 3 of 5

## Calibration Report



DISPLAY CONTROL (FRONT)

### Measurement Results

Cal. Point	Setting	Reading	STD.	Position of Standards at Block								
(°C)	(°C)	(°C)	Reading	M20A2-CH11 Hole 1	M20A2-CH12 Hole 2	M20A2-CH13 Hole 3	M20A2-CH14 Hole 4	M20A2-CH11 Hole 5	M20A2-CH12 Hole 6	M20A2-CH13 Hole 7	M20A2-CH14 Hole 8	M20A2-CH11 Hole 9
380.0	380.0	379.8 - 380.2	Average °C	377.34	380.04	380.62	383.20	380.97	379.00	381.21	378.62	379.36
			Stability ±°C	0.31	0.27	0.31	0.25	0.24	0.37	0.15	0.26	0.23

Cal. Point	Setting	Reading	STD.	Position of Standards at Block								
(°C)	(°C)	(°C)	Reading	M20A2-CH12 Hole 10	M20A2-CH13 Hole 11	M20A2-CH14 Hole 12	M20A2-CH11 Hole 13	M20A2-CH12 Hole 14	M20A2-CH13 Hole 15	M20A2-CH14 Hole 16	M20A2-CH11 Hole 17	M20A2-CH12 Hole 18
380.0	380.0	379.8 - 380.2	Average °C	376.66	381.17	380.28	383.11	383.26	382.04	380.37	381.00	381.61
			Stability ±°C	0.35	0.34	0.35	0.24	0.21	0.23	0.23	0.20	0.22

Approved By.



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CEMENT-BUILDING MATERIALS

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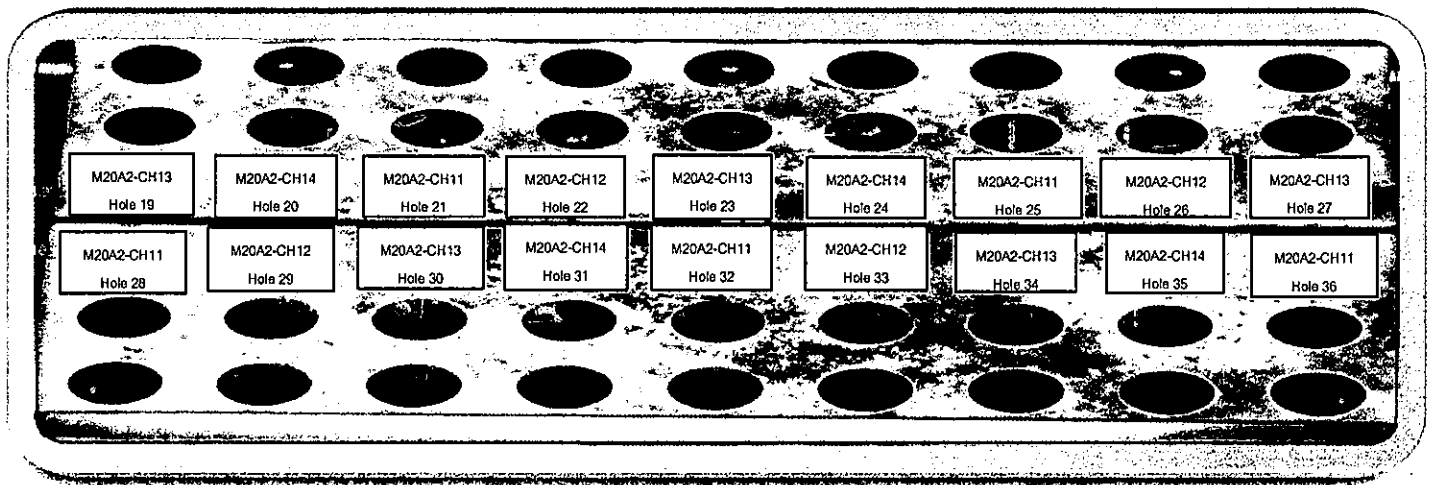
Website : [www.scieco.co.th](http://www.scieco.co.th)

E-Mail : [calibrate@scg.co.th](mailto:calibrate@scg.co.th)

Certificate No. T240977

Page 4 of 5

## Calibration Report




DISPLAY CONTROL (FRONT)

### Measurement Results

Cal. Point	Setting	Reading	STD.	Position of Standards at Block								
( °C )	( °C )	( °C )	Reading	M20A2-CH13 Hole 19	M20A2-CH14 Hole 20	M20A2-CH11 Hole 21	M20A2-CH12 Hole 22	M20A2-CH13 Hole 23	M20A2-CH14 Hole 24	M20A2-CH11 Hole 25	M20A2-CH12 Hole 26	M20A2-CH13 Hole 27
380.0	380.0	379.8 - 380.2	Average °C	376.97	383.29	383.26	381.86	380.47	381.36	382.07	379.37	381.87
			Stability ±°C	0.22	0.26	0.22 <sub>A</sub>	0.22	0.23	0.22	0.25	0.21	0.22

Cal. Point	Setting	Reading	STD.	Position of Standards at Block								
( °C)	( °C)	( °C)	Reading	M20A2-CH11 Hole 28	M20A2-CH12 Hole 29	M20A2-CH13 Hole 30	M20A2-CH14 Hole 31	M20A2-CH11 Hole 32	M20A2-CH12 Hole 33	M20A2-CH13 Hole 34	M20A2-CH14 Hole 35	M20A2-CH11 Hole 36
380.0	380.0	379.8 - 380.2	Average °C	377.29	381.19	381.69	380.72	381.02	380.42	378.65	380.63	376.92
			Stability ± °C	0.25	0.27	0.27	0.26	0.22	0.28	0.19	0.23	0.22

Approved By. 



**SCG**  
CEMENT-BUILDING MATERIALS

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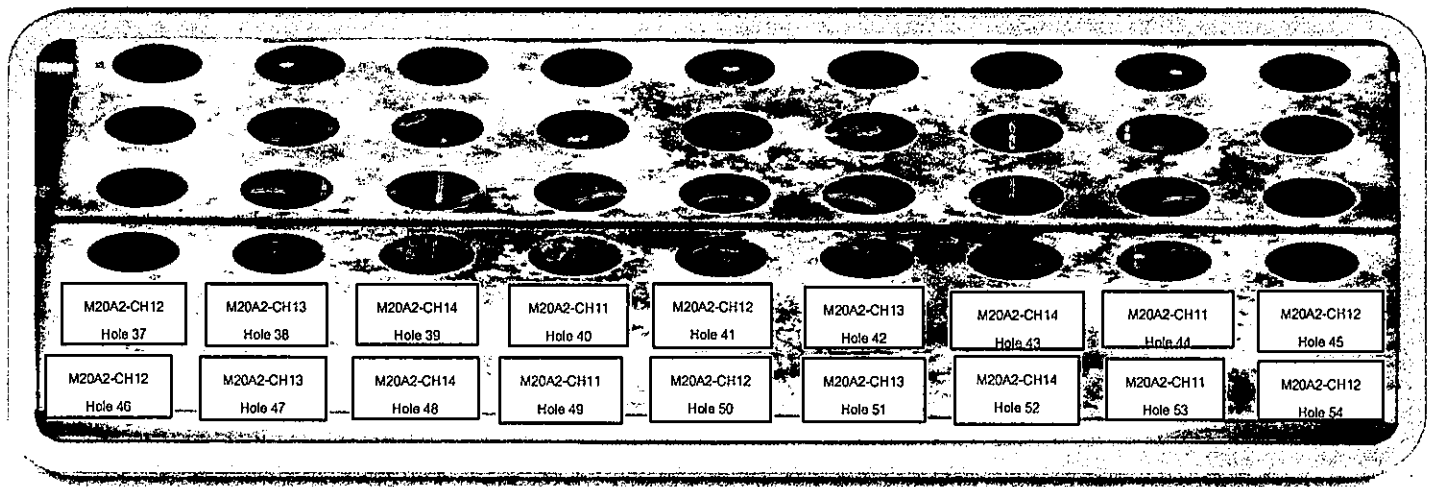
Website : www.scieco.co.th

E-Mail : calibrate@scg.co.th

Certificate No. T240977

Page 5 of 5

## Calibration Report



DISPLAY CONTROL (FRONT)

### Measurement Results

Cal. Point	Setting	Reading	STD.	Position of Standards at Block								
(°C)	(°C)	(°C)	Reading	M20A2-CH12 Hole 37	M20A2-CH13 Hole 38	M20A2-CH14 Hole 39	M20A2-CH11 Hole 40	M20A2-CH12 Hole 41	M20A2-CH13 Hole 42	M20A2-CH14 Hole 43	M20A2-CH11 Hole 44	M20A2-CH12 Hole 45
380.0	380.0	379.8 - 380.2	Average °C	380.39	378.84	380.87	381.85	379.87	382.97	383.29	379.42	378.50
			Stability ±°C	0.21	0.16	0.19	0.25	0.18	0.19	0.19	0.23	0.42

Cal. Point	Setting	Reading	STD.	Position of Standards at Block								
( °C )	( °C )	( °C )	Reading	M20A2-CH12 Hole 46	M20A2-CH13 Hole 47	M20A2-CH14 Hole 48	M20A2-CH11 Hole 49	M20A2-CH12 Hole 50	M20A2-CH13 Hole 51	M20A2-CH14 Hole 52	M20A2-CH11 Hole 53	M20A2-CH12 Hole 54
380.0	380.0	379.8 - 380.2	Average °C	377.89	381.24	380.93	379.91	380.08	380.61	381.63	383.34	383.04
			Stability ± °C	0.63	0.41	0.24	0.14	0.15	0.15	0.14	0.16	0.38

The expanded uncertainty of temperature measurement was  $\pm 1.65$  °C

The calibration result apply only the above calibrated item.

The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a level of confidence of approximately 95 %.

Approved By.

FM-L13 I08/30-05-57





บริษัท ดับเบิล เอส ไดแอกโนสติกส์ จำกัด  
DOUBLE S DIAGNOSTICS CO., LTD.

4 ซอยอุดมสุข 14 แขวงบางนา เขตบางนา กรุงเทพมหานคร 10260 โทรศัพท์: (02) 747-7009 โทรสาร: (02) 747-7008  
4 Soi Udomsuk 14, Bangna, Bangkok 10260 Tel. (02) 747-7009 Fax: (02) 747-7008

Maintenance Plan YEAR : 2023 .....

เดือน	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
รวม							12/7 ck					

**Periodical maintenance check list for Konelab**

	6M	12M	Note!
1.Diluent-wash tubing change	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
2.ISE tubing change	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	none .....
3.Syringe check/change		<input checked="" type="checkbox"/>	.....
4.Dispensing check/ change		<input checked="" type="checkbox"/>	.....
5.Waste tubing change when necessary		<input checked="" type="checkbox"/>	.....
6.Lamp check/change	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
7.Mixer paddle/paddle change(not Konelab20)		<input checked="" type="checkbox"/>	.....
8.ISE needles check/change		<input checked="" type="checkbox"/>	none .....
9.Pump tubing check/ chance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
10.Broken/worn out part check /change		<input checked="" type="checkbox"/>	.....
11.Peristaltic pump check /cleaning/ lubrication	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
12.Heating check		<input checked="" type="checkbox"/>	.....
13.Cooling check		<input checked="" type="checkbox"/>	.....
14.Dispenser mechanic check/adjustment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
15.Cuvette transfer mechanic check/adjustment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
16.Dispenser movement check/adjustment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
17.Sample/reagent register check/adjustment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
18.Dispensing tubing tightness check	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
19.Photometer and optics cleaning/check/adjustment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
20.Workstation PC cleaning if necessary	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
21.Mechanic cleaning/lubrication	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
22.Instrument cleaning if necessary	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
23.Complete analyzer testing with waterblank/QC or sample	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
24.Test parameters/Adjustment/config. Save to USB key	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....
25.UPS Test	<input type="checkbox"/>	<input checked="" type="checkbox"/>	.....

Place: ALS LAB Instrument: k90 Aquakem  
Date/Time: 12/7/66 Serial no: 22781  
Service done by: ๒๓๖๕ Install date: .....  
Signature of customer: ๒๓๖๕ Date/Time: 12/7/66

Laboratory  
Analyzer User

7/12/2023 21:21

-----

Performed 7/12/2023  
Lot W166

=====

ACCEPTANCE CRITERIA

=====

	Result	Limit	Warning
Temperature (?C)	37.7	37.0 +/- 1.0	
Dispensing ratio	16.4	14.8 - 17.2	
CV%	1.17	<1.7	
Photometric noise			
Max SD L340_2 (mA)	0.19	<2.0	
Max SD L340_4 (mA)	1.06	<3.0	
Linearity of photometer			
Slope	1.0188	0.94 - 1.06	
Curvature	0.0035	+/- 0.02	
Max bias from linear fit (mA)	3.2	<15.0	
Max delta %	-2.0	+/- 6.0	
Linearity of sample dispensing			
Proport. volume XDISP2 (?l)	2.06	1.96 - 2.16	
Proport. volume XDISP4 (?l)	4.13	3.85 - 4.40	
XDISP2 CV%	0.58	<2.0	
XDISP4 CV%	0.70	<2.0	
XDISP10 CV%	0.59	<2.0	
Needle 0 ?l volume			
Average (A)	0.009	<0.050	
Standard deviation (A)	0.002	<0.005	
Volume (?l)	0.06	<0.32	

=====

OTHER INFORMATION

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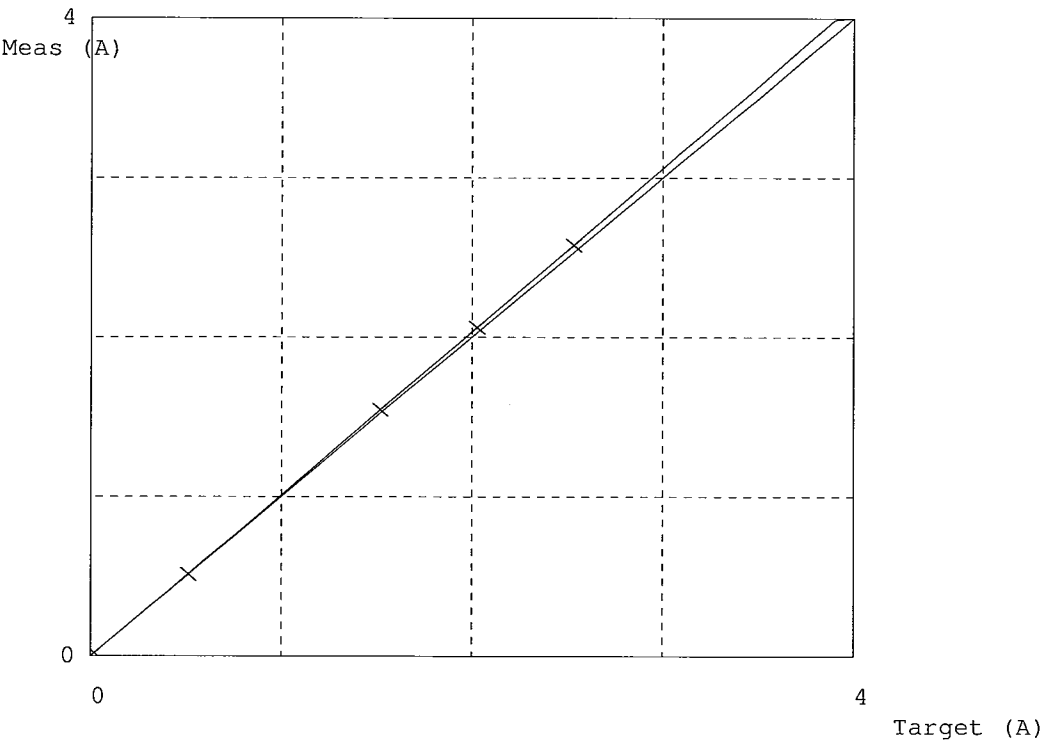
Dispensing ratio		Photom., noise: SD (mA)	
Posit	Result (A)	Posit	L340_2 L340_4
1	0.1592	1	0.07 0.64
2	0.1624	2	0.09 1.06
3	0.1631	3	0.14 0.50
4	0.1631	4	0.13 0.53
5	0.1625	5	0.19 0.38
6	0.1650	6	0.02 0.64

Linearity of sample dispensing

Test	Absorbance (A)
XDISP2	0.311
XDISP4	0.616
XDISP10	1.478

Linearity of photometer

L340_	Target (A)	Meas (A)	Delta (A)	Delta %
1	0.001	0.005	-0.004	-394.7
2	0.512	0.519	-0.007	-1.5
3	1.523	1.550	-0.027	-1.8
4	2.027	2.066	-0.039	-1.9
5	2.532	2.582	-0.050	-2.0





# Metrological Center

## SCI ECO Services Company Limited

33/2 Moo 3, T.Banpa, A.Kaengkhoi, Saraburi 18110, Thailand.

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Website : www.scieco.co.th

E-Mail : calibrate@scg.com



Certificate No. T232009

Page 1 of 3

## Certificate of Calibration

Equipment : Chamber ( Oven )

Manufacturer : Memmert

Model : UF110

Serial No. : B423.1549

Customer Code : BKK\_EN0425

ID No. : T4671A5

Customer : ALS Laboratory Group (Thailand) Co.,Ltd.

104 Phatthanakan 40, Phatthanakan Rd.,

Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250

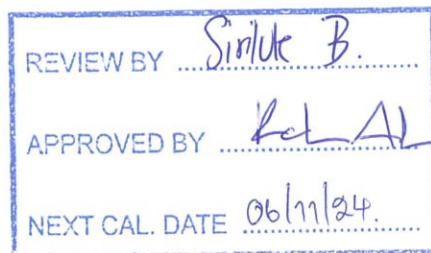
Customer Location : Oven Room

Date of Receipt : 1 November 2023

Calibrated By : Atiphong Rongrat ( Technician )

Approved By :  / Boonchai Suriyawong (Site Calibration Manager)

Date of Issue : 09 NOV 2023



The uncertainties are for a confidence probability of approximately 95%.

This Certificate is issued in accordance with the conditions of accreditation granted by the Thai Laboratory Accreditation Scheme which has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of the Metrological Center.

Certificate No. T232009

Page 2 of 3

## Calibration Report

Equipment : Chamber ( Oven )  
Date of Calibration : 6 November 2023  
Environment : Temperature : 27.6-28.1 °C  
Line Voltage : 222.7-227.4 V  
Relative Humidity : 55 - 65 %RH

### Condition of this results of calibration :

1. This equipment was calibrated by insert nine resistance thermometer detectors into its chamber, the other one resistance thermometer detector use for ambient temperature measurement . The calibration was done in according to WI-T20 ( based on ASTM E145-94 ( Reapproved 2001) and AS2853-1986 ).

All data show below were final values and the initial data from customer request . The temperature scale used was based on ITS - 90 .

### 2. Reference Standard Instrument :

Instrument	Model	Instrument No.	Certificate No.	Due Date
RTD	100 ohm	31-(CH1-10)	T230504	24 March 2024
DATA LOGGER	34970A	T114	T230504	24 March 2024

### 3. This certificate is traceable to :

National Institute of Metrology ( Thailand ) through Metrological Center ( NSC-TISI-TIS 17025 CALIBRATION 0244.)

### 4. Condition of calibrated item : good

Equipment Description :

Time Constant 2 Hour 50 Minute At 104 °C  
Fresh Air Damper ☒ Open ☒ Min ☐ Medium ☐ Max  
☐ Close  
☐ Not Available

### 5. Adjustment :

( X ) without adjustment

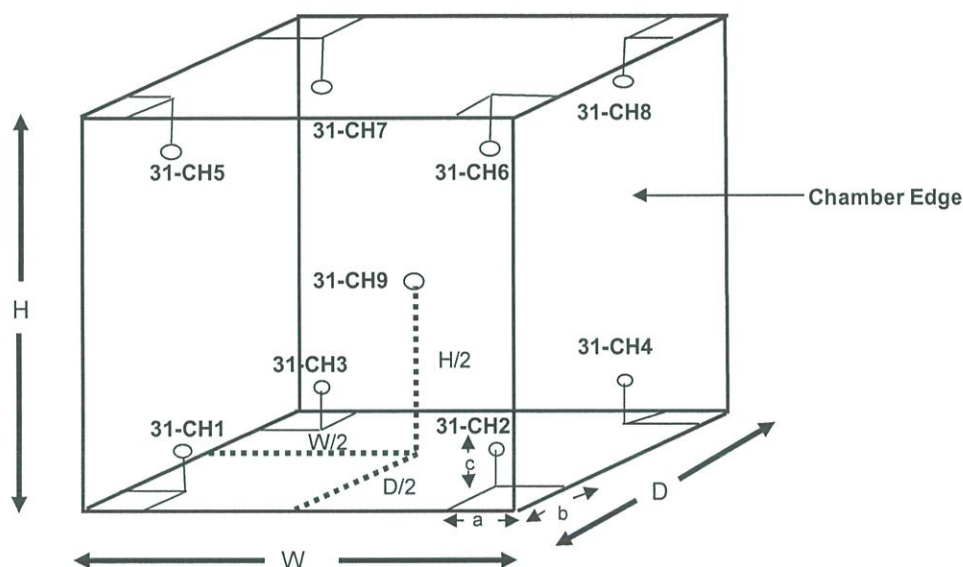
( ) after adjustment

Approved By. \_\_\_\_\_





## Calibration Report



**Remark :**

Internal Dimensions of Chamber : W (Width) = 56 cm. H(Height)=41 cm. and D(Depth)=48 cm.

Size of Installed Standard sensor number 31-CH1 to number 31-CH8 : a = 5 cm. , b = 5 cm. and c = 5 cm.

Size of Installed Standard sensor number 31-CH9 : W/2=56 cm./2 H/2=41 cm./2 and D/2=48 cm./2

Measurement Results	Average Standard Reading at each position ( ° C )								
Calibration Point	31-CH1	31-CH2	31-CH3	31-CH4	31-CH5	31-CH6	31-CH7	31-CH8	31-CH9
104	103.82	104.10	103.74	104.26	103.95	104.31	103.87	104.00	103.81
180	180.04	180.21	179.44	180.31	179.02	180.13	180.17	180.35	179.69

Chamber ( Oven )			Temperature Distribution				
Setting ( ° C )	Reading ( ° C )		Average ( ° C )	Stability ( ± ° C )	Uniformity ( ° C )	Uncertainty ( ± ° C )	Coverage Factor k
	Min , Max	Average					
104.0	-	104.0	103.98	0.14	0.60	0.42	2.00
180.0	-	180.0	179.93	0.35	0.78	0.53	2.00

The calibration result apply only the above calibrated item.

The result of test was found accurate as shown on date and place of test only.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor *k* which for a t-distribution, providing a level of confidence of approximately 95 % .

Approved By. 





**TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)**  
**CORPORATE SERVICES 3 : EQUIPMENT CALIBRATION AND TESTING SERVICES**

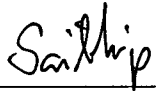
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250



TEL. 0-2717-3000 FAX. 0-2719-9484

**Cert.No.:** 23TW243

**Page.:** 1 of 2

## Certificate of Testing

<b>Equipment :</b>	DO Meter
<b>Manufacturer :</b>	YSI
<b>Model :</b>	5000-230V
<b>Serial No. :</b>	09J101147
<b>ID No. :</b>	BKK_EN0017
<b>Received Date :</b>	15 November 2023
<b>Test Date :</b>	16 November 2023
<b>Reference :</b>	2311-0505DSC-4
<b>Submitted by :</b>	ALS Laboratory Group (Thailand) Co.,Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand
<b>Laboratory Condition :</b>	Temperature ( $25 \pm 5$ ) °C Humidity ( $50 \pm 20$ ) %
<b>Test Procedure :</b>	In - house method : CP-CH9 by Comparison Technique with Azide Modification Method
<b>Tested by :</b>	Walalak Sirithean
<b>Approved by :</b>	 Approved Signatory
(✓) Saithip Meangmai ( ) Warakorn Lerngagtrakul ( ) Ponpan Paipim	
<b>Issue Date :</b>	17 November 2023

REVIEW BY	
APPROVED BY	
NEXT CAL. DATE	16/05/25



Cert.No.: 23TW243

Page.: 2 of 2

**Condition of this result of calibration**

1. Reference Standard Instruments :

This certification is traceable to the International System of Unit through the reference standards laboratory of Industrial Calibration Center, Technology Promotion Association (Thailand-Japan).

<u>Instruments</u>	<u>Serial No.</u>	<u>ID No.</u>	<u>Certificate No.</u>	<u>Due Date</u>
1) Burette	-	130BU10	23CG1172	22 Mar 2025
2) Balance	1124013382	140RC006	23MM18	20 Feb 2024

2. Standard Material :-

<u>Material</u>	<u>Manufacturer</u>	<u>Lot.No.</u>	<u>Assay</u>
Sodium Thiosulfate pentahydrate	Merck	AM1763316	100.2%

**Result :** Dissolved Oxygen Meter Adjustment With Air 100 %

Dissolved Oxygen Probe No.: 16K100498

<b>Titration Method (Azide Modification Method) (mg/L)</b>	<b>DO Meter Reading (mg/L)</b>	<b>Standard Deviation (mg/L)</b>
8.18	8.18	0.0055

This report was certified only for the instrument we tested. It is allowable to use for study the system efficiency, The environmental impact control and present to organization it may concerned. Intend to use for advertising and referral purpose is prohibited. This report may not be reproduced other in full, without written approval of the laboratory

-o0o-

*Saitthip*

**a 1190297**



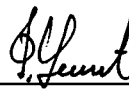
TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)  
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES  
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250  
TEL. 0-2717-3000-29 FAX. 0-2719-9484



Cert. No.: 23LM192

Page.: 1 of 2

## Certificate of Calibration

Equipment :	DO Meter with Sensor
Manufacturer :	YSI
Model :	5000-230V
Serial No. :	09J101147
ID No. :	BKK_EN0017
Submitted by :	ALS Laboratory Group (Thailand) Co.,Ltd. 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand
Location :	TPA Chemistry Calibration Laboratory
Received Order :	15 November 2023
Calibrated Date :	16 November 2023
Ambient Temperature :	( 26 ± 10 ) °C
Relative Humidity :	( 50 ± 30 ) %
AC Line Voltage :	( 220 ± 22 ) V
Calibrated by :	Kunchit Promprat
Approved by :	 Approved Signatory
( ) Pornthippa Tameyakul	
( ) Ponpan Paipim	
(✓) Suwit Imjai	
Issue Date :	17 November 2023

**The Uncertainties are for a confidence probability of approximately 95%**

This certificate may not be reproduced other than in full, except with the prior written  
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.

A 0060730



**Equipment :** DO Meter with Sensor  
**Condition As-Received :** Used Item  
**Reference :** 2311-0505DSC-10

**Cert. No.:** 23LM192

**Page.:** 2 of 2

**Procedure Used :-**

Calibration were conducted using in-house calibration procedure CP-OT01 according to comparison with Industrial Platinum Resistance Thermometer ( IPRT ) into Temperature Bath.

The temperature scale used was based on ITS-90.

**Condition of this result of calibration**

1. Reference standard instrument:-

<u>Instrument</u>	<u>Serial No.</u>	<u>Cert. No.</u>	<u>Traceable</u>	<u>Due Date</u>
1) Digital Thermometer	3240076	231305	TPA	15 Mar 2024

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This certification is traceable to the International System of Unit.

**Remark :** TPA : Technology Promotion Association ( Thailand - Japan )

**Result of Calibration :-** ( \* ) Without Adjustment

**Function :** Temperature measurement.

This instrument was connected with temperature sensor, S/N.: 16K100498

<u>Calibration Point</u> ( °C )	<u>Immersion Depth</u> ( mm )	<u>Standard Temperature</u> ( °C )	<u>UUC* Reading</u> ( °C )	<u>Error</u> ( °C )	<u>Uncertainty</u> ( ± °C )	<u>Coverage Factor</u> <i>k</i>
20.0	60	19.997	19.93	-0.067	0.15	2.00

**UUC\* :** Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

-o0o-

*Yeast*

**a 1190298**



**QUALITY CALIBRATION CO.,LTD.**

235 Petchkasem 63/2 Road, Laksong, Bangkae, Bangkok 10160

Tel (662) 421-5402, (662) 444-0152-3, Fax (662) 809-4584

www.qcalibration.com



CERTIFICATE No : 24T2852

REFERENCE No : 72619-8

PAGE : 1 OF 2

**Certificate of Calibration**

**EQUIPMENT** : COOLED INCUBATOR

**MANUFACTURER** : MEMMERT

**MODEL** : ICP750

**SERIAL No** : F819.0021

**ID No** : BKK\_EN0304

**CONDITION AS RECEIVED** : USED ITEM

**SUBMITTED BY** : ALS LABORATORY GROUP (THAILAND) CO., LTD.  
104 PHATTHANAKAN 40, PHATTHANAKAN  
RD.,KHWANG PHATTHANAKAN,KHET SUAN  
LUANG, BANGKOK 10250, THAILAND

REVIEW BY *finda K*APPROVED BY *Siriluk P.*NEXT CAL. DATE *30/03/25***CALIBRATED BY** : CHAICHARN CH.**CALIBRATION DATE** : 20-Mar-24**APPROVED BY** : *[Signature]*  
PONGSAK J.**ISSUED DATE** : 21-Mar-24**RECEIVED DATE** : 20-Mar-24





CERTIFICATE No : 24T2852

PAGE : 2 OF 2

## Calibration Report

EQUIPMENT : COOLED INCUBATOR  
MANUFACTURER : MEMMERT  
MODEL : ICP750  
ID No : BKK\_EN0304  
RECEIVED DATE : 20-Mar-24  
AMBIENT TEMPERATURE : 26 °C ± 1 °C

S/N : F819.0021  
CALIBRATION DATE : 20-Mar-24  
RELATIVE HUMIDITY : 54 %RH ± 10 %RH

### CONDITION OF THIS RESULTS OF CALIBRATION

1. THIS INSTRUMENT WAS CALIBRATED ACCORDING TO TLAS G-20 BY COMPARISON WITH CALIBRATED THERMOCOUPLE TYPE K UNDER NO LOAD CONDITION. THE THERMOCOUPLES WERE PLACED ON NINE POINTS AND LOCATED ONE THERMOCOUPLE IN EACH OF THE EIGHT CORNERS OF THE CHAMBER AND WAS AWAY FROM THE EACH WALL OF 5 cm TO 10 cm. AND PLACED THE NINTH THERMOCOUPLE WITHIN 2.5 cm. OF THE GEOMETRIC CENTER OF THE CHAMBER. THE UNIFORMITY WAS MEASURED BETWEEN REFERENCE PROBE AND OTHER PROBES AT THE SAME TIME.

### 2. REFERENCE STANDARD INSTRUMENTS :-

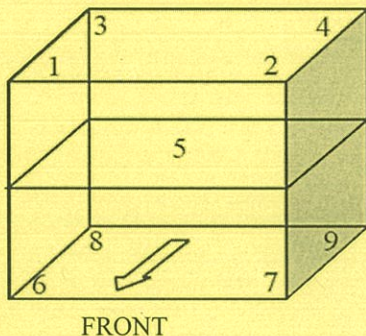
INSTRUMENT	MODEL	SERIAL No	CERTIFICATE No	DUE DATE
1) DATA LOGGER WITH TC TYPE K	HYDRA 2635A	7286308	23T6641	14-Jul-24

3. THE CERTIFICATE IS VALID FOR THE ITEM CALIBRATED AS SHOWN ON THE DATE AND PLACE OF CALIBRATION ONLY.

4. THIS RESULT EXCLUDE LONG TERM STABILITY OF THE UNIT UNDER CALIBRATION.

5. THIS CERTIFICATE IS TRACEABLE TO THE INTERNATIONAL SYSTEM OF UNIT MAINTAINED AT:-  
- NATIONAL INSTITUTE OF METROLOGY (THAILAND) THROUGH QUALITY CALIBRATION CO.,LTD.

### RESULT OF CALIBRATION :- WITHOUT ADJUSTMENT



#### GENERAL INFORMATION

Overall Ambient Temperature around the Chamber (°C) variation : 1

Overall Line Voltage (V) variation : 5

Instrument Condition : Normal

#### CHAMBER PERFORMANCE

Controller Temperature (°C)	Indicating Temperature (°C)	Temperature Stability (±°C)	Temperature Uniformity (°C)	Overall Variation (°C)
20.0	20.0	0.16	0.21	0.41

#### TEMPERATURE MEASUREMENT ACCURACY TEST

Controller Temp (°C)	Indicating Temp (°C)	Measured Temperature (°C) at Spread Locations									Uncertainty (±°C)
		#1	#2	#3	#4	Ref. 5	#6	#7	#8	#9	
20.0	20.0	19.88	19.93	19.87	19.86	19.98	19.94	19.94	19.89	19.91	0.42

NOTE 1 : THE UNCERTAINTY OF MEASUREMENT EXCLUDED TEMPERATURE UNIFORMITY OF THE CHAMBER.

NOTE 2 : LOCATION 5 WAS REFERENCE LOCATION.

NOTE 3 : THIS CALIBRATION WAS CARRIED OUT AT THE CUSTOMER'S PLACE AT LABORATORY AREA.

THE REPORTED UNCERTAINTY OF MEASUREMENT WAS BASED ON A STANDARD UNCERTAINTY MULTIPLIED BY A COVERAGE FACTOR  $k=2$ , PROVIDING A LEVEL OF CONFIDENCE APPROXIMATELY 95%.

END OF CALIBRATION REPORT





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Cert. No.: 23TM1103

Page : 1 of 3

## Certificate of Calibration

**Equipment :** Autoclave  
**Manufacturer :** Sanyo  
**Model :** MLS-3781  
**Serial No. :** 830167  
**ID No. :** BKK\_ML0037  
**Submitted by :** ALS Laboratory Group (Thailand) Co.,Ltd.  
104 Phatthanakan 40, Phatthanakan Rd.,  
Khwaeng Phatthanakan, Khet Suan Luang,  
Bangkok 10250 Thailand  
**Location :** Media Preparation Room  
**Received Order :** 17 July 2023  
**Calibration Date :** 17 July 2023  
**Ambient Temperature :** ( 26 ± 10 ) °C  
**Relative Humidity :** ( 50 ± 30 ) %

**Calibrated by :** Preecha Hlahib

**Approved by :**

Approved Signatory

- ( ) Pornthippa Tameyakul  
( ) Malee Butkruea  
(✓) Suwit Imjai

**Issue Date :** 24 July 2023

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written  
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.

A 0053615



**Equipment :** Autoclave  
**Condition As-Received :** Used Item  
**Reference :** 2307-0285OC-3

**Cert. No.:** 23TM1103

**Page :** 2 of 3

**Procedure Used :-**

Calibration were conducted using in-house calibration procedure CP-OT03 according to direct measurement method with Data Acquisition which connected with Thermocouple Type T

The temperature scale used was based on ITS-90.

**Condition of this result of calibration**

1. Reference standard instrument:-

<u>Instrument</u>	<u>Serial No.</u>	<u>Cert. No.</u>	<u>Traceable</u>	<u>Due Date</u>
1 ) Data Acquisition	MY57013823	23LM66	TPA	25 Mar 2024

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This certification is traceable to the International System of Unit.

4. This result of calibration covers laboratory autoclaves for the sterilization of goods and material which could be infected with organisms categorized as Hazard Group 1, 2 and 3\*\*

(\*\* = Categorization of pathogens according to hazard and categories of containment, second edition, 1990 )

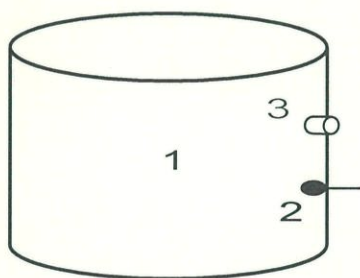
It does not cover autoclaves for use with material infect with organisms in Hazard Group 4, for which complete containment and sterilization of infected condensate is considered to be essential.

This result of calibration does not apply to sterilizers or disinfectors used for medical, dental, pharmaceutical or veterinary purposes which are directly concerned with patient care, or those used for fabrics subjected to sterilization which are required to be dry at the end of cycle.

**Remark :** TPA : Technology Promotion Association ( Thailand - Japan )

**Result of Calibration :-** ( \* ) Without Adjustment

**Function of UUC\* :** Temperature Source



	Environmental		
	( °C )	( %R.H. )	( Volt )
Beginning of Calibration	22	53	220
Finished of Calibration	22	54	220

<u>Position</u>	<u>Description</u>	<u>Ref. Std. ID No.:</u>
1 =	Center of chamber	22-17TC-01
2 =	Temperature sensor	23-17TC-02
3 =	Exhaust port	19-17TC-03

*Handwritten signature*





Equipment : Autoclave  
Condition As-Received : Used Item  
Reference : 2307-0285OC-3  
Result of Calibration :- ( \* ) Without Adjustment  
Function of UUC\* : Temperature Source

Cert. No.: 23TM1103  
Page : 3 of 3

Operating parameter Set : Temperature = 121 °C  
Sterilization period = 15 minute

UUC* Setting ( °C )	UUC* Reading ( °C )	Position	Average* Standard Reading ( °C )	Stability ( ± °C )	Pressure Reading ( MPa )	Uncertainty ( ± °C )	Coverage Factor <i>k</i>
121	121	1	120.877	0.39	0.12	1.0	2
		2	120.870				
		3	120.866				

**Average\*** : The average of 30 values in each position.

**Stability** : One-half of the greatest maximum difference of measured temperature at any one probe.

**UUC\*** : Unit Under Calibration

**Note** : The reported uncertainty of measurement was included stability and excluded uniformity .

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

-o0o-

*Yunit*



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TEL. 0-2717-3000-29 FAX. 0-2719-9484



Cert. No.: 23TM1146

Page : 1 of 3

## Certificate of Calibration

**Equipment :** Incubator

**Manufacturer :** SHEL-LAB

**Model :** 1915A

**Serial No. :** 0200599

**ID No. :** BKK\_ML0010

**Submitted by :** ALS Laboratory Group (Thailand) Co.,Ltd.  
104 Phatthanakan 40, Phatthakan Rd.,  
Khwawng Phatthanakan, Khet Suan Luang,  
Bangkok 10250 Thailand

**Location :** Incubation & Micrological Reading

**Received Order :** 17 July 2023

**Calibration Date :** 17 July 2023

**Ambient Temperature :** ( 26 ± 10 ) °C

**Relative Humidity :** ( 50 ± 30 ) %

**Calibrated by :** Man Pattanapongpaiboon

REVIEW BY	Sithichok
APPROVED BY	[Signature]
NEXT CAL. DATE	17/07/25

**Approved by :**

*Malu.*

Approved Signatory

- ( ) Pornthippa Tameyakul  
( ☒ ) Malee Butkruea  
( ) Suwit Imjai

**Issue Date :**

24 July 2023

**The Uncertainties are for a confidence probability of approximately 95%**

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Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.

A 0056489





**Equipment :** Incubator  
**Condition As-Received :** Used Item  
**Reference :** 2307-0285OC-1  
**Procedure Used :-**

**Cert. No.:** 23TM1146

**Page :** 2 of 3

Calibration were conducted using calibration procedure CP-OT02 according to direct measurement method with Data Acquisition which connected with Resistance Temperature Detector ( RTD ).

The temperature scale used was based on ITS-90.

**Condition of this result of calibration**

1. Reference standard instrument:-

<u>Instrument</u>	<u>Serial No.</u>	<u>Cert. No.</u>	<u>Traceable</u>	<u>Due Date</u>
1 ) Data Acquisition	MY49001451	23LM27	TPA	25 Feb 2024

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This certification is traceable to the International System of Unit.

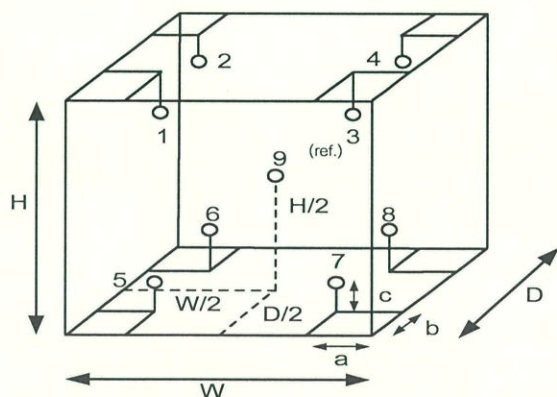
**Remark :** TPA : Technology Promotion Association ( Thailand - Japan )

**Result of Calibration :-** ( \* ) Without Adjustment

**Function of UUC\* :** Temperature Source

**Fresh air setting :** Close

Environment during calibration		
	Beginning	Finished
Temp. ( °C )	24	24
REL.Humid. ( % )	54	56
AC Supply ( Volt )	221	223



Position :	Ref. Std. ID No.:
1	19RTD-2/1
2	19RTD-2/2
3	19RTD-2/3
4	19RTD-2/4
5	19RTD-2/5
6	19RTD-2/6
7	19RTD-2/7
8	19RTD-2/8
9 (ref.)	19RTD-2/9

**Probe Installation Details :**

a = 10 cm  
 b = 10 cm  
 c = 10 cm

**Dimension of Chamber :**

D = 0.50 m  
 W = 0.75 m  
 H = 1.2 m  
 Capacity = 0.45 m<sup>3</sup>

*Malu.*



Equipment : Incubator  
Condition As-Received : Used Item  
Reference : 2307-0285OC-1  
**Result of Calibration :-** ( \* ) Without Adjustment  
Function of UUC\* : Temperature Source  
Fresh air setting : Close

Cert. No.: 23TM1146

Page : 3 of 3

Calibration Point ( °C )	UUC* Setting ( °C )	UUC* Reading ( °C )	Temperature stability ( ± °C )	Temperature uniformity ( °C )	Overall Variation ( °C )	Coverage Factor <i>k</i>
35.0	35.0	35.0	0.055	0.30	0.44	2

Calibration Point ( °C )	Measured Temperature ( °C )									Uncertainty  ( ±°C )
	Position									
	1	2	3	4	5	6	7	8	9 (ref.)	
35.0	34.888	34.933	34.815	34.813	35.064	35.019	35.156	35.141	35.087	0.30

**Average\*** : The average of 30 values in each position.

**Temperature stability** : One-half of the greatest maximum difference of measured temperature at any one sensor.

**Temperature uniformity** : The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.

**Overall Variation** : The Difference of the maximum and minimum measured temperatures throughout observation.

**UUC\*** : Unit Under Calibration

Note : The reported uncertainty of measurement was included stability and excluded uniformity .

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

-o0o-

Malu.





## Certificate of Calibration

Cert. No.: 24TM667

Page : 1 of 3

**Equipment :** Hot Air Oven  
**Manufacturer :** Binder  
**Model :** ED 240/E2  
**Serial No. :** 00-15533  
**ID No. :** BKK\_ML0013

**Submitted by :** ALS Laboratory Group (Thailand) Co.,Ltd.  
104 Phatthanakan 40, Phatthanakan Rd.,  
Khwaeng Phatthanakan, Khet Suan Luang,  
Bangkok 10250 Thailand

**Location :** Media Preparation Room

**Received Order :** 23 April 2024  
**Calibration Date :** 23 April 2024  
**Ambient Temperature :** ( 26 ± 10 ) °C  
**Relative Humidity :** ( 50 ± 30 ) %

**Calibrated by :** Tawatchai Pama

**Approved by :**

Approved Signatory

- ( ) Ponpan Paipim  
(✓) Suwit Imjai  
( ) Kunchit Promprat

**Issue Date :** 26 April 2024

REVIEW BY ..... *Sithichok T.* .....  
APPROVED BY ..... .....  
NEXT CAL DATE..... 23/10/25 .....

**The Uncertainties are for a confidence probability of approximately 95%**

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Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.





**Equipment :** Hot Air Oven  
**Condition As-Received :** Used Item  
**Reference :** 2404-0439OC-8  
**Procedure Used :-**

**Cert. No.:** 24TM667  
**Page :** 2 of 3

Calibration were conducted using calibration procedure CP-OT02 based on TLAS G-20 according to direct measurement method with Data Acquisition which connected with Thermocouple Type T.

The temperature scale used was based on ITS-90.

**Condition of this result of calibration**

1. Reference standard instrument:-

<u>Instrument</u>	<u>Serial No.</u>	<u>Cert. No.</u>	<u>Traceable</u>	<u>Due Date</u>
1 ) Data Acquisition	MY49001451	24LM44	TPA	17 Mar 2025

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This certification is traceable to the International System of Unit.

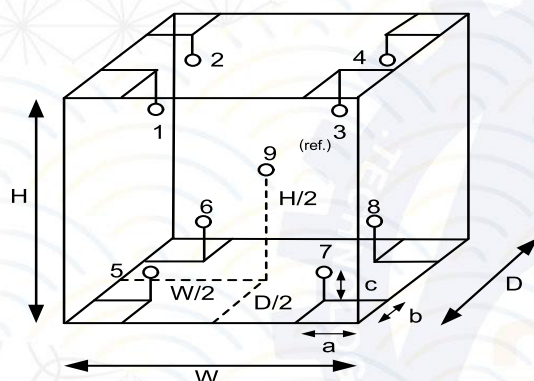
**Remark :** TPA : Technology Promotion Association ( Thailand - Japan )

**Result of Calibration :-** ( \* ) Without Adjustment

**Function of UUC\* :** Temperature Source

**Fresh air setting :** Close

Environment during calibration		
	Beginning	Finished
Temp. ( °C )	24	23
REL.Humid. ( % )	65	65
AC Supply ( Volt )	223	222



Position :	Ref. Std. ID No.:
1	24-19TC-01
2	24-19TC-02
3	24-19TC-03
4	24-19TC-04
5	24-19TC-05
6	24-19TC-06
7	24-19TC-07
8	24-19TC-08
9 (ref.)	24-19TC-09

**Probe Installation Details :**

a = 10 cm  
b = 10 cm  
c = 10 cm

**Dimension of Chamber :**

D = 0.50 m  
W = 0.80 m  
H = 0.60 m  
Capacity = 0.24 m<sup>3</sup>



**Equipment :** Hot Air Oven  
**Condition As-Received :** Used Item  
**Reference :** 2404-0439OC-8  
**Result of Calibration :-** ( \* ) Without Adjustment  
**Function of UUC\* :** Temperature Source  
**Fresh air setting :** Close

**Cert. No.:** 24TM667

**Page :** 3 of 3

Calibration Point ( °C )	UUC* Setting ( °C )	UUC* Reading ( °C )	Temperature stability ( ± °C )	Temperature uniformity ( °C )	Overall Variation ( °C )	Coverage Factor <i>k</i>
180	180	180	0.64	2.7	3.7	2

Calibration Point ( °C )	Measured Temperature ( °C )									Uncertainty  ( ±°C )
	Position									
	1	2	3	4	5	6	7	8	9 (ref.)	
180	181.009	181.511	180.922	181.359	181.217	183.659	181.664	181.986	181.474	1.5

**Average\* :** The average of 30 values in each position.

**Temperature stability :** One-half of the greatest maximum difference of measured temperature at any one sensor.

**Temperature uniformity :** The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.

**Overall Variation :** The Difference of the maximum and minimum measured temperatures throughout observation.

**UUC\* :** Unit Under Calibration

**Note :** The reported uncertainty of measurement was included stability and excluded uniformity .

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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## Certificate of Calibration

Cert. No.: 24TM469

Page : 1 of 3

**Equipment :** Water Bath  
**Manufacturer :** Memmert  
**Model :** WNE 45  
**Serial No. :** L712.0429  
**ID No. :** BKK\_ML0056

**Submitted by :** ALS Laboratory Group (Thailand) Co.,Ltd.  
104 Phatthanakan 40, Phatthanakan Rd.,  
Khwaeng Phatthanakan, Khet Suan Luang,  
Bangkok 10250 Thailand

**Location :** Incubation \$ Microbiological Reading

**Received Order :** 01 March 2024  
**Calibration Date :** 01 March 2024  
**Ambient Temperature :** ( 26 ± 10 ) °C  
**Relative Humidity :** ( 50 ± 30 ) %

**Calibrated by :** Krisda Malee

**Approved by :**

- ( ) Pornthippa Tameyakul  
( ) Unnopphol Harachai  
(✓) Suwit Imjai

**Issue Date :** 4 March 2024

REVIEW BY ..... Sithichok T.  
APPROVED BY .....  
NEXT CAL DATE..... 01/03/25

**The Uncertainties are for a confidence probability of approximately 95%**

This certificate may not be reproduced other than in full, except with the prior written  
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.





**Equipment :** Water Bath  
**Condition As-Received :** Used Item  
**Reference :** 2403-0001OC-1  
**Procedure Used :-**

**Cert. No.:** 24TM469

**Page :** 2 of 3

Calibration were conducted using in-house calibration procedure CP-OT04 Based on ASTM E715 according to direct measurement method with Data Acquisition which connected with Industrial Platinum Resistance Thermometer ( IPRT ).

The temperature scale used was based on ITS-90.

**Condition of this result of calibration**

1. Reference standard instrument:-

<u>Instrument</u>	<u>Serial No.</u>	<u>Cert. No.</u>	<u>Traceable</u>	<u>Due Date</u>
1 ) Data Acquisition	MY57013711	23LM115	TPA	11 Jul 2024

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This certification is traceable to the International System of Unit.

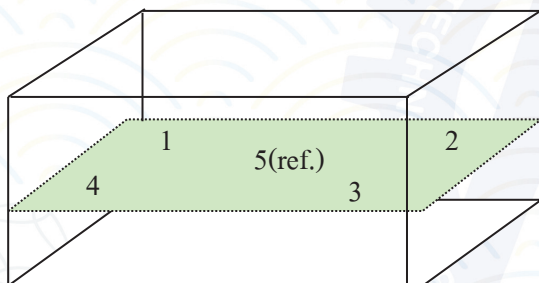
**Remark :** TPA : Technology Promotion Association ( Thailand - Japan )

**Result of Calibration :-** ( \* ) Without Adjustment

**Function of UUC\* :** Temperature Source

**Heat transfer medium used :** Water

	<u>Environmental</u>		<u>AC Voltage Supply</u>
	( °C )	( %R.H. )	( Volt )
<b>Beginning of Calibration</b>	24	55	221
<b>Finished of Calibration</b>	23	56	220



Front

<u>Position :</u>	<u>Ref. Std. ID No.:</u>
1	4803988-001
2	4803988-002
3	4803988-003
4	4803988-004
5(ref.)	4803988-005





**Equipment :** Water Bath  
**Condition As-Received :** Used Item  
**Reference :** 2403-0001OC-1  
**Result of Calibration :-** ( \* ) Without Adjustment  
**Function of UUC\* :** Temperature Source

**Cert. No.:** 24TM469

**Page :** 3 of 3

Calibration point ( °C )	UUC* Setting ( °C )	UUC* Reading ( °C )	Average* Standard Reading ( °C )					Uncertainty
			Position					
			1	2	3	4	5 (ref.)	( ± °C )
44.5	44.5	44.5	44.469	44.462	44.492	44.510	44.496	0.15
45.0	45.0	45.0	44.975	44.974	45.007	45.023	44.999	0.15

Calibration point ( °C )	Uniformity ( °C )	Stability ( ± °C )	Coverage Factor <i>k</i>
44.5	0.087	0.029	2
45.0	0.069	0.031	2

**Average\* :** The average of 30 values in each position.

**Uniformity :** The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.

**Stability :** One-half of the greatest maximum difference of measured temperature at any one probe.

**UUC\* :** Unit Under Calibration

**Note :** The reported uncertainty of measurement was included stability and excluded uniformity.

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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REVIEW BY Manakorn P

APPROVED BY [Signature]

NEXT CAL. DATE 19/10/24

**HACH COMPANY**

HACH (Thailand) Limited, Building D Room No. D3 11, 3rd Floor, No. 735/4, Srinakarin Road, Pattanakarn, Suanluang, Bangkok  
 Phone +66 (02) 026-3529 Ext. 0 | Fax +66(02) 026-3572 | [www.sea.hach.com](http://www.sea.hach.com)

LABX2302900

**Test Report**

Customers	:	ALS LABORATORY GROUP (THAILAND) CO.,LTD.			
Equipment	:	Chlorine Meter	Manufacturer	:	HACH
Controller Model	:	DR300	Sensor Model	:	-
Controller Serial No.	:	23090B001272	Sensor Serial No.	:	-
Date of test	:	Oct 19 , 2023	Period	:	Yearly
Environment temperature	:	25.4 °C	Humidity	:	51.0 %RH

**Results**Instrument Checked

Item	Characteristic	Before	After	Remark
1	Visual Inspect	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
2	Power Supply (4.5 – 6.5 VDC)	- VDC	6.3 VDC	
3	Display Check	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
4	Keyboard Check	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
5	Function System Program	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	

Warning and Error Checked

Item	Event	Before	After
6	Error list	<input type="checkbox"/> None <input type="checkbox"/> Warning Appear :	<input checked="" type="checkbox"/> None <input type="checkbox"/> Warning Appear :

Check with Standard

Item	Characteristic	Before	After	Remark
	DPD-CHLORINE - LR			
7	Blank ( 0.00 mg/l)	- mg/l	0.0 mg/l	
8	Standard Cl2 No. 1 ( 0.19 ± 0.09 mg/l)	- mg/l	0.20 mg/l	
9	Standard Cl2 No. 2 ( 0.87 ± 0.10 mg/l)	- mg/l	0.87 mg/l	
10	Standard Cl2 No. 3 ( 1.55 ± 0.14 mg/l)	- mg/l	1.56 mg/l	
	DPD-CHLORINE - HR			
11	Blank ( 0.00 mg/l)	- mg/l	0.0 mg/l	
12	Standard Cl2 No. 1 ( 2.3 ± 0.2 mg/l)	- mg/l	2.3 mg/l	
13	Standard Cl2 No. 2 ( 3.9 ± 0.3 mg/l)	- mg/l	3.9 mg/l	
14	Standard Cl2 No. 3 ( 6.7 ± 0.6 mg/l)	- mg/l	6.6 mg/l	

Summary of checked

- ☒ The instrument can work normally and efficiently. (เครื่องมือวัดสามารถทำงานได้ปกติและมีประสิทธิภาพ)
- ☐ The instrument can work but it's requiring to maintenance. (เครื่องมือวัดสามารถทำงานได้แต่ต้องบำรุงรักษา)
- ☐ The instrument could not work it's requiring to repair. (เครื่องมือวัดไม่สามารถทำงานได้และต้องการซ่อมบำรุง)





# HACH COMPANY

HACH (Thailand) Limited, Building D Room No. D3 11, 3rd Floor , No. 735/4, Srinakarin Road, Pattanakarn, Suanluang, Bangkok  
| Phone +66 (02) 026-3529 Ext. 0 | Fax +66(02) 026-3572 | [www.sea.hach.com](http://www.sea.hach.com)

LABX2302900

Remark:

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## Standard Equipment Used

Equipment	Equipment I.D.	
Standard Chlorine LR	Lot No. A3020	Exp date : Feb-25
Standard Chlorine HR	Lot No. A3041	Exp date : Feb-25
Digital multi meter	S/N : 57340195	Due date : Dec-23
Thermo hygrometer	S/N : 41432458	Due date : Sep-24

Test By :

  
( Mr. Monthian Boonchaiwattana )

Position :

Service Engineer Section Head

Approved by :

  
( Mr. Suanun Sartyangkool )

Position :

Assistant Service Division Manager





REVIEW BY Autcharawan S.

APPROVED BY Tanyatorn M.

NEXT CAL. DATE 12 Jan 2025

## Certificate of Calibration

### ICS-2100: Anion (ID#659)

This certificate is to verify that instrument below are calibrated

by Archemica Lab Co., Ltd.

ICS-2100 S/N: 15010977

AS-HV S/N: 5450A36659

For

**ALS Laboratory Group (Thailand) Co., Ltd.**



Operator Signature: Nutdanai

Date: Jan 12, 2024

(Mr. Nutdanai Laekhwan)

Application Chemist



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)  
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES  
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250  
TEL. 0-2717-3000-29 FAX. 0-2719-9484

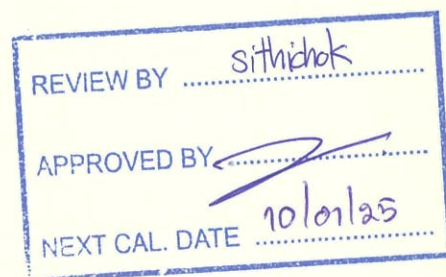


Cert. No.: 24TM39

Page : 1 of 3

## Certificate of Calibration

**Equipment :** Water Bath  
**Manufacturer :** Memmert  
**Model :** WPE 45  
**Serial No. :** L707.0058  
**ID No. :** BKK\_ML0054



**Submitted by :** ALS Laboratory Group (Thailand) Co.,Ltd.  
104 Phatthanakan 40, Phatthanakan Rd.,  
Khwaeng Phatthanakan, Khet Suan Luang,  
Bangkok 10250 Thailand

**Location :** Presumptive Testing Lab

**Received Order :** 10 January 2024  
**Calibration Date :** 10 - 11 January 2024  
**Ambient Temperature :** ( 26 ± 10 ) °C  
**Relative Humidity :** ( 50 ± 30 ) %

**Calibrated by :** Preecha Hlahib

**Approved by :**

  
Approved Signatory

( ) Pornthippa Tameyakul  
( ) Ponpan Paipim  
(✓) Suwit Imjai

**Issue Date :** 23 January 2024

The Uncertainties are for a confidence probability of approximately 95%

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Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.

A 0062775





**Equipment :** Water Bath  
**Condition As-Received :** Used Item  
**Reference :** 2401-0256OC-7

**Cert. No.:** 24TM39

**Page :** 2 of 3

**Procedure Used :-**

Calibration were conducted using in-house calibration procedure CP-OT04 according to direct measurement method with Data Acquisition which connected with Industrial Platinum Resistance Thermometer ( IPRT ).

The temperature scale used was based on ITS-90.

**Condition of this result of calibration**

1. Reference standard instrument:-

<u>Instrument</u>	<u>Serial No.</u>	<u>Cert. No.</u>	<u>Traceable</u>	<u>Due Date</u>
1 ) Data Acquisition	MY44073381	23LM95	TPA	19 May 2024

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This certification is traceable to the International System of Unit.

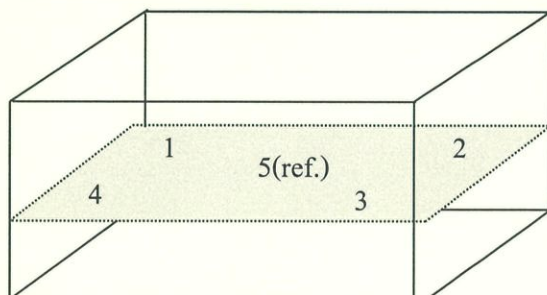
**Remark :** TPA : Technology Promotion Association ( Thailand - Japan )

**Result of Calibration :-** ( \* ) Without Adjustment

**Function of UUC\* :** Temperature Source

**Heat transfer medium used :** Water

	Environmental		AC Voltage Supply
	( °C )	( %R.H. )	( Volt )
Beginning of Calibration	26	55	220
Finished of Calibration	27	47	221



Front

Position :	Ref. Std. S/N.:
1	4803988-006
2	4803988-007
3	4804539-014
4	4804539-015
5(ref.)	4804539-016

*Seant*



**Equipment :** Water Bath  
**Condition As-Received :** Used Item  
**Reference :** 2401-0256OC-7  
**Result of Calibration :-** ( \* ) Without Adjustment  
**Function of UUC\* :** Temperature Source

**Cert. No.:** 24TM39

**Page :** 3 of 3

Calibration point ( °C )	UUC* Setting ( °C )	UUC* Reading ( °C )	Average* Standard Reading ( °C )					Uncertainty  ( ± °C )
			Position					
			1	2	3	4	5 (ref.)	
42.0	42.0	42.0	42.007	41.972	41.979	41.996	41.995	0.15
44.0	44.0	44.0	44.029	44.007	44.007	44.029	44.022	0.15
44.5	44.5	44.5	44.529	44.489	44.495	44.524	44.511	0.15
46.0	46.0	46.0	46.021	45.967	45.967	45.996	45.985	0.15

Calibration point ( °C )	Uniformity ( °C )	Stability ( ± °C )	Coverage Factor <i>k</i>
42.0	0.064	0.038	2
44.0	0.038	0.022	2
44.5	0.052	0.032	2
46.0	0.077	0.030	2

**Average\* :** The average of 30 values in each position.

**Uniformity :** The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.

**Stability :** One-half of the greatest maximum difference of measured temperature at any one probe.

**UUC\* :** Unit Under Calibration

**Note :** The reported uncertainty of measurement was included stability and excluded uniformity.

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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*Leint*



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)  
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES  
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250  
TEL. 0-2717-3000-29 FAX. 0-2719-9484



Cert.No.: 24CHO44

Page.: 1 of 3

## Certificate of Calibration

**Equipment :** Spectrophotometer  
**Manufacturer :** Hach  
**Model :** DR 3900  
**Serial No. :** 1687645  
**ID No. :** SGK\_CL0038  
**Condition As-Received:** Used Item  
**Received Date :** 24 January 2024  
**Calibration Date :** 24 January 2024  
**Reference :** 2401-0645OC-2  
**Submitted by :** ALS Laboratory Group (Thailand) Co.,Ltd. Songkhla Branch.  
114/1 Moo 8 , Kanjanavanij Rd.,  
Banphru , Hatyai ,  
Songkhla 90250 , Thailand

REVIEW BY ..... Ananta B .....  
APPROVED BY ..... Kanitta H. ....  
NEXT CAL. DATE 24/01/25

**Calibration Place :** Chemistry Room  
**Ambient Temperature :** ( 26.4 - 25.6 ) °C (On-Site)  
**Relative Humidity :** ( 61.5 - 64.1 ) % (On-Site)  
**Calibration Procedure :** In - house method :  
CP-OCH4 based on ASTM E 275-01

**Calibrated by :** Kunchit Promprat

**Approved by :**

Approved Signatory

- ( ) Saithip Meangmai  
( ) Warakorn Lerngagtrakul  
( ✓ ) Ponpan Paipim

**Issue Date :** 29 January 2024

**The Uncertainties are for a confidence probability of approximately 95%**

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Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.

A 0062930



Cert. No. : 24CHO44

Page : 2 of 3

**Condition of calibration result**

1. Reference Standard Material :

<u>Material</u>	<u>Serial No.</u>	<u>Certificate No.</u>	<u>Due date</u>
1. Absorbance Standard set	8331	105939	28 Sep 2024
2. Wavelength Standard set	29829	114509	11 Sep 2025
3. Wavelength Standard set	29829	114510	11 Sep 2025

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This certificate is traceable to the International System of Unit maintained through :

- Starna Scientific Ltd.

4. Spectral BandWidth : 5 nm  
Scan Speed : - nm/min

**Calibration Results : without adjustment**

**Wavelength Accuracy**

<b>Certified Values of Reference Material ( nm )</b>	<b>UUC Reading ( nm )</b>	<b>Uncertainty of Measurement ( <math>\pm</math> nm )</b>	<b>Coverage Factor <i>k</i></b>
418.40	418	0.59	2.00
479.88	480	0.59	2.00
513.75	514	0.59	2.00
537.00	537	0.59	2.00
638.00	638	0.59	2.00
684.70	685	0.59	2.00
747.61	748	0.59	2.00
807.04	807	0.59	2.00

**a 1199642**



Cert. No. : 24CHO44

Page : 3 of 3

**Calibration Results : without adjustment**

**Photometric Accuracy**

Wavelength (nm)	Certified Values of Reference Material ( Abs )	UUC Reading ( Abs )	Uncertainty of Measurement ( $\pm$ Abs )	Coverage Factor <i>k</i>
420.0	Zero	0.000	0.0028	2.00
	0.5712	0.572	0.0031	2.00
	0.7510	0.752	0.0032	2.00
	1.0893	1.092	0.0033	2.00
440.0	Zero	0.000	0.0028	2.00
	0.5607	0.560	0.0030	2.00
	0.7336	0.733	0.0030	2.00
	1.0636	1.063	0.0031	2.00
465.0	Zero	0.000	0.0028	2.00
	0.5111	0.514	0.0030	2.00
	0.6768	0.679	0.0029	2.00
	0.9802	0.985	0.0029	2.00
546.1	Zero	0.000	0.0028	2.00
	0.5224	0.522	0.0028	2.00
	0.6856	0.684	0.0029	2.00
	0.9937	0.993	0.0028	2.00
590.0	Zero	0.000	0.0028	2.00
	0.5542	0.551	0.0028	2.00
	0.7155	0.712	0.0028	2.00
	1.0366	1.033	0.0028	2.00
635.0	Zero	0.000	0.0028	2.00
	0.5397	0.538	0.0028	2.00
	0.6832	0.680	0.0029	2.00
	0.9886	0.986	0.0028	2.00

**Remark \***

- Each individual filter is measured against the empty filter holder (blank) used to zero the spectrophotometer

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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**a 1199641**