

ภาคผนวกที่ 7

เอกสารตรวจวิเคราะห์คุณภาพน้ำทิ้ง



Ecotech Water Systems Co., Ltd.

Report for Sample Analysis Of

นิติบุคคลอาคารชุด

ไอดีโอ โมบิราน้ำ

(January 2023, 4/12)

Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yaek 6, Ratphatthana, Saphansung, Bangkok 10240;

Tel: (66)2-108 6468-9; Fax: (66)2-061 2809

www.ecotechthailand.com / www.ecoilab.com



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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
 CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 SAMPLE TYPE/NAME : Waste Water REPORT NO. : JEX-Ww-23-J0029
 SAMPLING DATE : January 11, 2023 RECEIVED DATE : January 12, 2023
 SAMPLING TIME : 13.30 Hour ANALYTICAL DATE : January 12 - 19, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
 SAMPLING BY : Praphan Wongjaesern (๖-295-๙-0004) WORK NO. : Ww-23-J0162

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY
			Influent	STANDARD
BOD	mg/l	5-day BOD Test, Azide Modification Method	725.0	-
Grease and Oil	mg/l	Liquid-Liquid, Partial-Gravimetric Method	11.6	-
pH	-	Electrometric Method	7.3 (25°C)	-
Total Suspended Solids	mg/l	Total Suspended Solids Dried at 103-105°C	1,121.4	-
Sulfide	mg/l	Iodometric Method	<LOQ(1.0)	-
TKN	mg/l	Semi-Macro Kjeldahl Nitrogen	96.9	-
Total Dissolved Solids	mg/l	Total Dissolved Solids Dried at 180°C	232.5	-
Total Coliform Bacteria*	MPN/100 mL	Multiple Tube Fermentation Technique	>160,000	-
SAMPLE CONDITION			Sample Color / Turbid : Yellow / Turbid	
			Sediment : Yellow	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: Bold-Italic number meaning the value out of regulatory standard range

*ค่า TDS ของน้ำเสีย Influent (500) ลบ ค่า TDS ของน้ำประปา (267.5)



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๖-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

๖-295-ค-0002

Remark: 1) The above results are valid only for the analyzed / tested sample (s) as indicated in this report only.
 2) Do not copy partial of this analysis report without official approval.

Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
 CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 SAMPLE TYPE/NAME : Waste Water REPORT NO. : JEX-Ww-23-J0029
 SAMPLING DATE : January 11, 2023 RECEIVED DATE : January 12, 2023
 SAMPLING TIME : 13.30 Hour ANALYTICAL DATE : January 12 - 19, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
 SAMPLING BY : Praphan Wongjaesem (ว-295-จ-0004) WORK NO. : Ww-23-J0163

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY
			Effluent	STANDARD
BOD	mg/l	5-day BOD Test, Azide Modification Method	20.5	≤ 30
Grease and Oil	mg/l	Liquid-Liquid, Partial-Gravimetric Method	<LOQ(5.0)	≤ 20.0
pH	-	Electrometric Method	7.5 (25°C)	5.0-9.0
Total Suspended Solids	mg/l	Total Suspended Solids Dried at 103-105°C	14.4	≤ 40
Sulfide	mg/l	Iodometric Method	<LOQ(1.0)	≤ 1.0
TKN	mg/l	Semi-Macro Kjeldahl Nitrogen	31.9	≤ 35
Total Dissolved Solids	mg/l	Total Dissolved Solids Dried at 180°C	215	≤ 500
Total Coliform Bacteria*	MPN/100 mL	Multiple Tube Fermentation Technique	3,300	-
SAMPLE CONDITION			Sample Color / Turbid : Yellow / Clear	
			Sediment : A Bit	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: *Bold-Italic* number meaning the value out of regulatory standard range

*ค่า TDS ของน้ำเสีย Effluent (482.5) อยู่นอกค่า TDS ของน้ำประปา (067.5)



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

(Dr. Angana Romsalyud)

ว-295-จ-0002

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ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอดีโอ โมบิรางน้ำ
SAMPLE TYPE/NAME : Swimming Water REPORT NO. : JEX-Sw-23-J0029
SAMPLING DATE : January 11, 2023 RECEIVED DATE : January 12, 2023
SAMPLING TIME : 13.30 Hour ANALYTICAL DATE : January 12 - 19, 2023
SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
SAMPLING BY : Praphan Wongjaesem (๑-295-๑-0004) WORK NO. : Sw-23-J0165

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY
			Shallow zone	STANDARD
Fecal Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
Total Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
<i>E. coli</i> *	MPN/100 ml	Multiple Tube Fermentation Technique	ABSENCE	ABSENCE
<i>Pseudomonas aeruginosa</i> *	CFU/250 mL	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
<i>Staphylococcus aureus</i> *	<i>S.aureus</i> /100m	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
SAMPLE CONDITION			Sample Color / Turbid : Colorless/Clear	
			Sediment : -	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: *Bold-Italic* number meaning the value out of regulatory standard range



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๑-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

๑-295-๑-0002

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CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
SAMPLING SOURCE : นิติบุคคลอาคารชุด ใต้โอ โมบิรางน้ำ
SAMPLE TYPE/NAME : Swimming Water REPORT NO. : JEX-Sw-23-J0029
SAMPLING DATE : January 11, 2023 RECEIVED DATE : January 12, 2023
SAMPLING TIME : 13.30 Hour ANALYTICAL DATE : January 12 - 19, 2023
SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
SAMPLING BY : Praphan Wongjaesem (๖-295-๖-0004) WORK NO. : Sw-23-J0166

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			Deep zone	
Fecal Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
Total Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
<i>E. coli</i> *	MPN/100 ml	Multiple Tube Fermentation Technique	ABSENCE	ABSENCE
<i>Pseudomonas aeruginosa</i> *	CFU/250 mL	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
<i>Staphylococcus aureus</i> *	<i>S.aureus</i> /100m	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
SAMPLE CONDITION			Sample Color / Turbid : Colorless/Clear	
			Sediment : -	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017
Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

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ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๖-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

๖-295-๖-0002

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Figure of sample

1. Influent



2. Effluent



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

(Dr. Angana Romsaiyud)

ว-295-ค-0002

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Figure of sample

3. Shallow Zone



4. Deep Zone



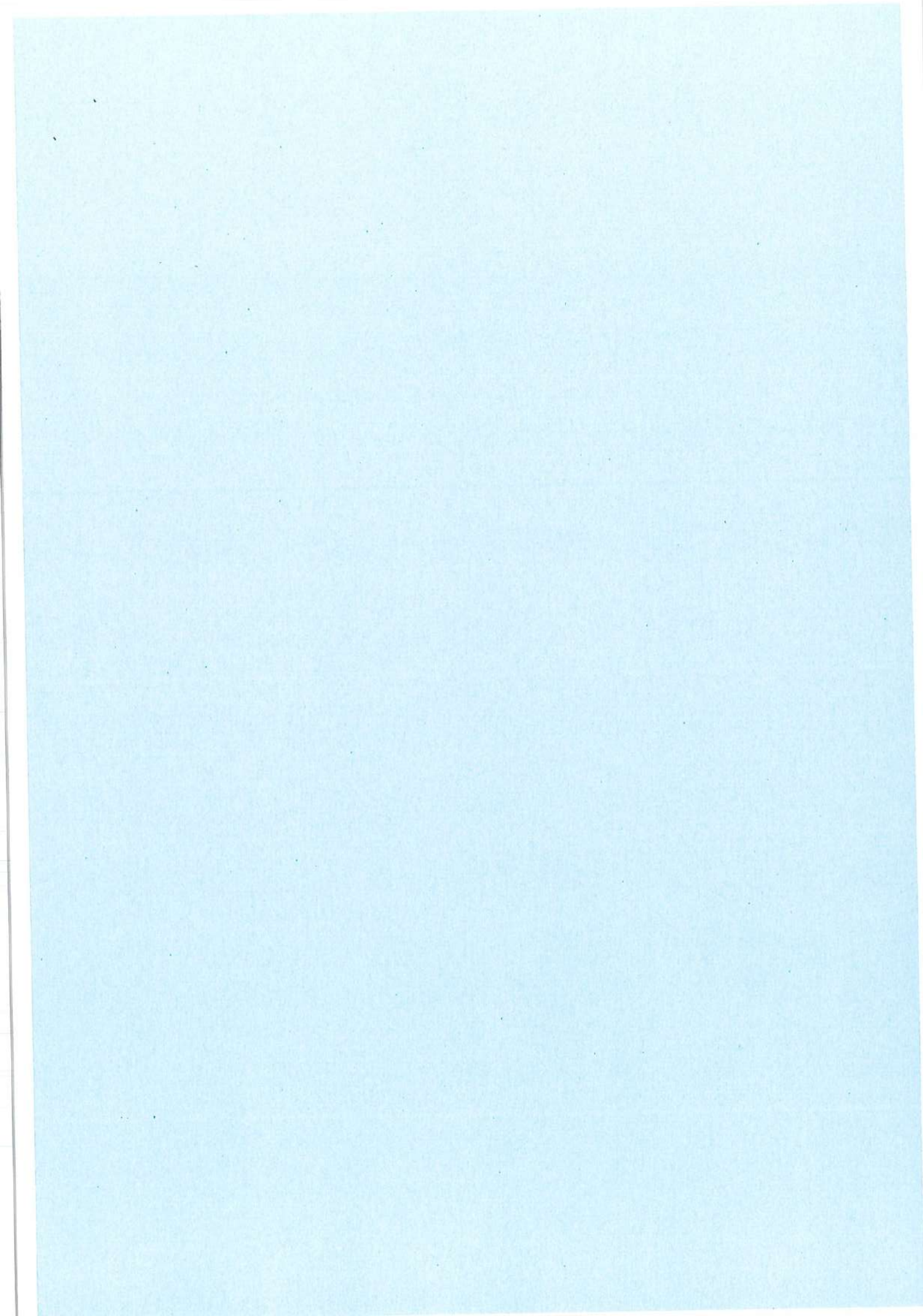
ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ จ-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

จ-295-ค-0002

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นิติบุคคลอาคารชุด

ไอดีโอ โมบิราน้ำ

(February 2023, 5/12)

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นิติบุคคลอาคารชุด

ไฮดีไอ โมบิรางน้ำ

(February 2023, 5/12)

Ecotech Water Systems Co., Ltd.

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
SAMPLE TYPE/NAME : Waste Water **REPORT NO.** : JEX-Ww-23-J0209
SAMPLING DATE : February 16, 2023 **RECEIVED DATE** : February 17, 2023
SAMPLING TIME : 13.30 Hour **ANALYTICAL DATE** : February 17 - 24, 2023
SAMPLING METHOD : Grab **QUOTATION NO.** : QL/22/0260/W/Pw
SAMPLING BY : Praphan Wongjaesem (๖-295-๖-0004) **WORK NO.** : Ww-23-J0653

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY
			Influent	STANDARD
BOD	mg/l	5-day BOD Test, Azide Modification Method	2,150.0	-
Grease and Oil	mg/l	Liquid-Liquid, Partial-Gravimetric Method	<LOQ(5.0)	-
pH	-	Electrometric Method	7.5 (25°C)	-
Total Suspended Solids	mg/l	Total Suspended Solids Dried at 103-105°C	5,175.0	-
Sulfide	mg/l	Iodometric Method	2.60	-
TKN	mg/l	Semi-Macro Kjeldahl Nitrogen	80.1	-
Total Dissolved Solids	mg/l	Total Dissolved Solids Dried at 180°C	315	-
Total Coliform Bacteria*	MPN/100 mL	Multiple Tube Fermentation Technique	>160,000	-
SAMPLE CONDITION			Sample Color / Turbid : Yellow / Turbid	
			Sediment : Black	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: *Bold-Italic* number meaning the value out of regulatory standard range

*ค่า TDS ของน้ำเสีย Influent (462.5) สูง ค่า TDS ของน้ำประปา (147.5)



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๖-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

๖-295-๖-0002

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอดีโอ โมบิริงน้ำ
ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอดีโอ โมบิริงน้ำ
SAMPLE TYPE/NAME : Waste Water REPORT NO. : JEX-Ww-23-J0209
SAMPLING DATE : February 16, 2023 RECEIVED DATE : February 17, 2023
SAMPLING TIME : 13.30 Hour ANALYTICAL DATE : February 17 - 24, 2023
SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
SAMPLING BY : Praphan Wongjaesem (ว-295-จ-0004) WORK NO. : Ww-23-J0654

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			Effluent	
BOD	mg/l	5-day BOD Test, Azide Modification Method	14.8	≤ 30
Grease and Oil	mg/l	Liquid-Liquid, Partial-Gravimetric Method	<LOQ(5.0)	≤ 20.0
pH	-	Electrometric Method	6.9 (25°C)	5.0-9.0
Total Suspended Solids	mg/l	Total Suspended Solids Dried at 103-105°C	10.0	≤ 40
Sulfide	mg/l	Iodometric Method	<LOQ(1.0)	≤ 1.0
TKN	mg/l	Semi-Macro Kjeldahl Nitrogen	25.8	≤ 35
Total Dissolved Solids	mg/l	Total Dissolved Solids Dried at 180°C	320	≤ 500
Total Coliform Bacteria*	MPN/100 mL	Multiple Tube Fermentation Technique	7,900	-
SAMPLE CONDITION			Sample Color / Turbid : Yellow / Clear	
			Sediment : Black	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: Bold-Italic number meaning the value out of regulatory standard range

*ค่า TDS ของน้ำเสีย Effluent (467.5) อก ค่า TDS ของน้ำประปา (147.5)



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

ว-295-ค-0002

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอทีโอ โมบิราลงน้ำ
 ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
 CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิราลงน้ำ
 SAMPLE TYPE/NAME : Swimming Water REPORT NO. : JEX-Sw-23-J0210
 SAMPLING DATE : February 16, 2023 RECEIVED DATE : February 17, 2023
 SAMPLING TIME : 14.00 Hour ANALYTICAL DATE : February 17 - 24, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
 SAMPLING BY : Praphan Wongjaesem (ว-295-ก-0004) WORK NO. : Sw-23-J0655

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY
			Shallow zone	STANDARD
Fecal Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
Total Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
<i>E. coli</i> *	MPN/100 ml	Multiple Tube Fermentation Technique	ABSENCE	ABSENCE
<i>Pseudomonas aeruginosa</i> *	CFU/250 mL	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
<i>Staphylococcus aureus</i> *	<i>S.aureus</i> /100m	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
SAMPLE CONDITION		Sample Color / Turbid : Colorless/Clear Sediment : -		

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: *Bold-Italic* number meaning the value out of regulatory standard range



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

ว-295-ก-0002

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 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 SAMPLE TYPE/NAME : Swimming Water REPORT NO. : JEX-Sw-23-J0210
 SAMPLING DATE : February 16, 2023 RECEIVED DATE : February 17, 2023
 SAMPLING TIME : 14.00 Hour ANALYTICAL DATE : February 17 - 24, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
 SAMPLING BY : Praphan Wongjaesem (ว-295-จ-0004) WORK NO. : Sw-23-J0656

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			Deep zone	
Fecal Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
Total Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
<i>E. coli</i> *	MPN/100 ml	Multiple Tube Fermentation Technique	ABSENCE	ABSENCE
<i>Pseudomonas aeruginosa</i> *	CFU/250 mL	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
<i>Staphylococcus aureus</i> *	<i>S.aureus</i> /100m	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
SAMPLE CONDITION			Sample Color / Turbid : Colorless/Clear Sediment : -	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

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ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager: _____

(Dr. Angsana Romsaiyud)

ว-295-จ-0002

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Figure of sample

1. Influent



2. Effluent



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

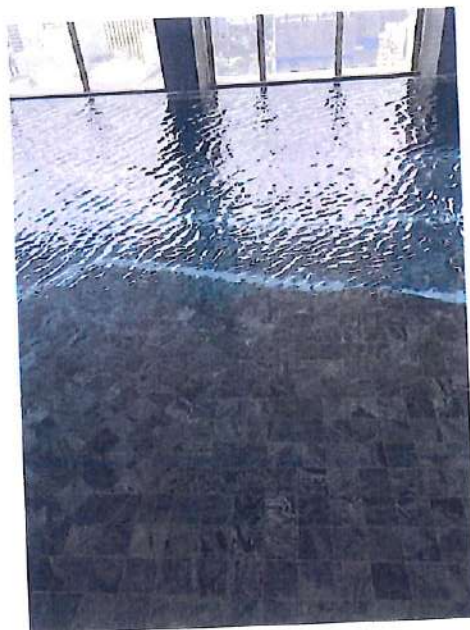
(Dr. Angsana Romsaiyud)

ว-295-ค-0002

Remark: 1) The above results are valid only for the analyzed / tested sample (s) as indicated in this report only.
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Figure of sample

3. Shallow Zone



4. Deep Zone



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๖-๒๙๕

Laboratory Manager:

Angsa
(Dr. Angsana Romsaiyud)

๖-๒๙๕-๐-๐๐๐๒

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Ecotech Water Systems Co., Ltd.

Report for Sample Analysis Of

นิติบุคคลอาคารชุด

ไอดีโอ โมบิราน้ำ

(March 2023, 6/12)

Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yaek 6, Ratphatthana, Saphansung, Bangkok 10240;

Tel: (66)2-108 6468-9; Fax: (66)2-061 2809

www.ecotechthailand.com / www.ecolab.com



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Report for Sample Analysis Of

นิติบุคคลอาคารชุด

ไอดีโอ โมบิลทาวน์

(March 2023, 6/12)

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
 CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 SAMPLE TYPE/NAME : Waste Water REPORT NO. : JEX-Ww-23-J0360
 SAMPLING DATE : March 16, 2023 RECEIVED DATE : March 17, 2023
 SAMPLING TIME : 13.30 Hour ANALYTICAL DATE : March 17 - 24, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
 SAMPLING BY : Praphan Wongjaesem (จ-295-จ-0004) WORK NO. : Ww-23-J1093

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY
			Influent	STANDARD
BOD	mg/l	5-day BOD Test, Azide Modification Method	800.0	-
Grease and Oil	mg/l	Liquid-Liquid, Partial-Gravimetric Method	21.8	-
pH	-	Electrometric Method	7.8 (25°C)	-
Total Suspended Solids	mg/l	Total Suspended Solids Dried at 103-105°C	1,427.3	-
Sulfide	mg/l	Iodometric Method	2.40	-
TKN	mg/l	Semi-Macro Kjeldahl Nitrogen	236.9	-
Total Dissolved Solids	mg/l	Total Dissolved Solids Dried at 180°C	820	-
Total Coliform Bacteria*	MPN/100 mL	Multiple Tube Fermentation Technique	>160,000	-
SAMPLE CONDITION			Sample Color / Turbid : Yellow / Turbid	
			Sediment : Yellow	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: Bold-Italic number meaning the value out of regulatory standard range

*ค่า TDS ของน้ำเสีย Influent (1.060) เกิน ค่า TDS ของน้ำประปา (240)



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ จ-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

จ-295-ค-0002

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอทีโอ โมบิลิตี้
ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิลิตี้
SAMPLE TYPE/NAME : Waste Water REPORT NO. : JEX-Ww-23-J0360
SAMPLING DATE : March 16, 2023 RECEIVED DATE : March 17, 2023
SAMPLING TIME : 13.30 Hour ANALYTICAL DATE : March 17 - 24, 2023
SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
SAMPLING BY : Praphan Wongjaesem (๓-295-๓-0004) WORK NO. : Ww-23-J1094

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY
			Effluent	STANDARD
BOD	mg/l	5-day BOD Test, Azide Modification Method	19.0	≤ 30
Grease and Oil	mg/l	Liquid-Liquid, Partial-Gravimetric Method	<LOQ(5.0)	≤ 20.0
pH	-	Electrometric Method	7.2 (25°C)	5.0-9.0
Total Suspended Solids	mg/l	Total Suspended Solids Dried at 103-105°C	13.4	≤ 40
Sulfide	mg/l	Iodometric Method	<LOQ(1.0)	≤ 1.0
TKN	mg/l	Semi-Macro Kjeldahl Nitrogen	17.4	≤ 35
Total Dissolved Solids	mg/l	Total Dissolved Solids Dried at 180°C	270	≤ 500
Total Coliform Bacteria*	MPN/100 mL	Multiple Tube Fermentation Technique	3,300	-
SAMPLE CONDITION			Sample Color / Turbid : Yellow / Clear	
			Sediment : A Bit	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: Bold-Italic number meaning the value out of regulatory standard range

*ค่า TDS ของน้ำเสีย Effluent (467.5) คบ ค่า TDS ของน้ำประปา (147.5)



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๖-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

๖-295-๓-0002

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
 CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 SAMPLE TYPE/NAME : Swimming Water REPORT NO. : JEX-Sw-23-J0361
 SAMPLING DATE : March 16, 2023 RECEIVED DATE : March 17, 2023
 SAMPLING TIME : 13.30 Hour ANALYTICAL DATE : March 17 - 24, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
 SAMPLING BY : Praphan Wongjaesem (ว-295-จ-0004) WORK NO. : Sw-23-J1095

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY
			Shallow zone	STANDARD
Fecal Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
Total Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
<i>E. coli</i> *	MPN/100 ml	Multiple Tube Fermentation Technique	ABSENCE	ABSENCE
<i>Pseudomonas aeruginosa</i> *	CFU/250 mL	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
<i>Staphylococcus aureus</i> *	<i>S.aureus</i> /100m	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
SAMPLE CONDITION			Sample Color / Turbid : Colorless/Clear	
			Sediment : -	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: *Bold-Italic* number meaning the value out of regulatory standard range



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

ว-295-จ-0002

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ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
SAMPLE TYPE/NAME : Swimming Water REPORT NO. : JEX-Sw-23-J0361
SAMPLING DATE : March 16, 2023 RECEIVED DATE : March 17, 2023
SAMPLING TIME : 13.30 Hour ANALYTICAL DATE : March 17 - 24, 2023
SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
SAMPLING BY : Praphan Wongjaesem (ว-295-จ-0004) WORK NO. : Sw-23-J1096

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			Deep zone	
Fecal Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
Total Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
<i>E. coli</i> *	MPN/100 ml	Multiple Tube Fermentation Technique	ABSENCE	ABSENCE
<i>Pseudomonas aeruginosa</i> *	CFU/250 mL	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
<i>Staphylococcus aureus</i> *	<i>S.aureus</i> /100m	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
SAMPLE CONDITION			Sample Color / Turbid : Colorless/Clear	
			Sediment : -	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

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ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager: _____

(Dr. Angsana Romsaiyud)

ว-295-ค-0002

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Figure of sample

1. Influent



2. Effluent



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

ว-295-ค-0002

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Figure of sample

3. Shallow Zone



4. Deep Zone



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

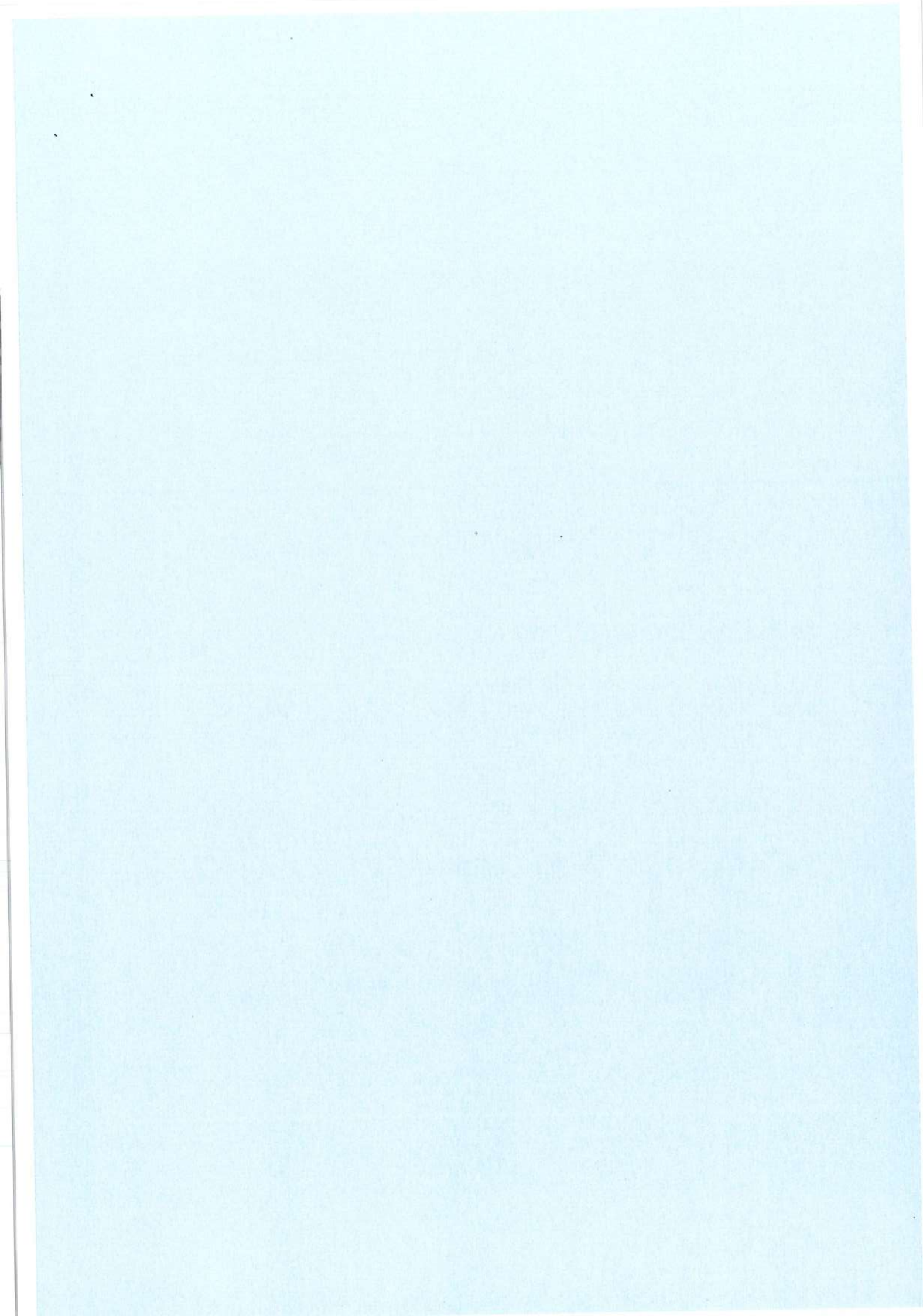
Laboratory Manager:

Angk
(Dr. Angsana Romsaiyud)

ว-295-ค-0002

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Ecotech Water Systems Co., Ltd.

Report for Sample Analysis Of

นิติบุคคลอาคารชุด

ไอดีโอ โมบิราน้ำ

(April 2023, 7/12)

Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yaek 6, Ratphatthana, Saphansung, Bangkok 10240;

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Report for Sample Analysis Of

นิติบุคคลอาคารชุด

ไฮดีโอ โมบิราชน้ำ

(April 2023, 7/12)

Ecotech Water Systems Co., Ltd.

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด อดีโธ โมบิลิตี้
 ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
 CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
 SAMPLING SOURCE : นิติบุคคลอาคารชุด อดีโธ โมบิลิตี้
 SAMPLE TYPE/NAME : Waste Water REPORT NO. : JEX-Ww-23-J0461
 SAMPLING DATE : April 7, 2023 RECEIVED DATE : April 8, 2023
 SAMPLING TIME : 11.00 Hour ANALYTICAL DATE : April 8 - 18, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
 SAMPLING BY : Anurak Tantrasai (๓-295-๓-0001) WORK NO. : Ww-23-J1468

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY
			Influent	STANDARD
BOD	mg/l	5-day BOD Test, Azide Modification Method	57.6	-
Grease and Oil	mg/l	Liquid-Liquid, Partial-Gravimetric Method	<LOQ(5.0)	-
pH	-	Electrometric Method	6.9 (25°C)	-
Total Suspended Solids	mg/l	Total Suspended Solids Dried at 103-105°C	23.6	-
Sulfide	mg/l	Iodometric Method	2.60	-
TKN	mg/l	Semi-Macro Kjeldahl Nitrogen	62.2	-
Total Dissolved Solids	mg/l	Total Dissolved Solids Dried at 180°C	140	-
Total Coliform Bacteria*	MPN/100 mL	Multiple Tube Fermentation Technique	160,000	-
SAMPLE CONDITION			Sample Color / Turbid : White / Turbid Sediment : White	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: Bold-Italic number meaning the value out of regulatory standard range

*ค่า TDS ของน้ำเสีย Influent (357.5) เกิน ค่า TDS ของน้ำประปา (217.5)



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๓-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

๓-295-๓-0002

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไร่ดีโอ โมบิรางน้ำ
 ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
 CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไร่ดีโอ โมบิรางน้ำ
 SAMPLE TYPE/NAME : Waste Water REPORT NO. : JEX-Ww-23-J0461
 SAMPLING DATE : April 7, 2023 RECEIVED DATE : April 8, 2023
 SAMPLING TIME : 11.00 Hour ANALYTICAL DATE : April 8 - 18, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
 SAMPLING BY : Anurak Tantrasai (ว-295-จ-0001) WORK NO. : Ww-23-J1469

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY
			Effluent	STANDARD
BOD	mg/l	5-day BOD Test, Azide Modification Method	14.1	≤ 30
Grease and Oil	mg/l	Liquid-Liquid, Partial-Gravimetric Method	<LOQ(5.0)	≤ 20.0
pH	-	Electrometric Method	6.8 (25°C)	5.0-9.0
Total Suspended Solids	mg/l	Total Suspended Solids Dried at 103-105°C	11.0	≤ 40
Sulfide	mg/l	Iodometric Method	<LOQ(1.0)	≤ 1.0
TKN	mg/l	Semi-Macro Kjeldahl Nitrogen	11.2	≤ 35
Total Dissolved Solids	mg/l	Total Dissolved Solids Dried at 180°C	250	≤ 500
Total Coliform Bacteria*	MPN/100 mL	Multiple Tube Fermentation Technique	17,000	-
SAMPLE CONDITION			Sample Color / Turbid : Yellow / Clear Sediment : A Bit	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017
Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: Bold-Italic number meaning the value out of regulatory standard range

*ค่า TDS ของน้ำเสีย Effluent (467.5) สูง ค่า TDS ของน้ำประปา (217.5)



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

ว-295-ค-0002

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอทีโอ โมบิลิตี้
ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิลิตี้
SAMPLE TYPE/NAME : Swimming Water REPORT NO. : JEX-Sw-23-J0462
SAMPLING DATE : April 7, 2023 RECEIVED DATE : April 8, 2023
SAMPLING TIME : 11.00 Hour ANALYTICAL DATE : April 8 - 18, 2023
SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
SAMPLING BY : Anurak Tantrasai (๓-295-๙-0001) WORK NO. : Sw-23-J1470

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			Shallow zone	
Fecal Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
Total Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
<i>E. coli</i> *	MPN/100 ml	Multiple Tube Fermentation Technique	ABSENCE	ABSENCE
<i>Pseudomonas aeruginosa</i> *	CFU/250 mL	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
<i>Staphylococcus aureus</i> *	<i>S.aureus</i> /100m	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
SAMPLE CONDITION			Sample Color / Turbid : Colorless/Clear	
			Sediment : -	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: *Bold-Italic* number meaning the value out of regulatory standard range



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๓-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

๓-295-๙-0002

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Report for Sample Analysis

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 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 SAMPLE TYPE/NAME : Swimming Water REPORT NO. : JEX-Sw-23-J0462
 SAMPLING DATE : April 7, 2023 RECEIVED DATE : April 8, 2023
 SAMPLING TIME : 11.00 Hour ANALYTICAL DATE : April 8 - 18, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260W/Pw
 SAMPLING BY : Anurak Tantrasai (ว-295-จ-0001) WORK NO. : Sw-23-J1471

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			Deep zone	
Fecal Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
Total Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
<i>E. coli</i> *	MPN/100 ml	Multiple Tube Fermentation Technique	ABSENCE	ABSENCE
<i>Pseudomonas aeruginosa</i> *	CFU/250 mL	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
<i>Staphylococcus aureus</i> *	<i>S.aureus</i> /100ml	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
SAMPLE CONDITION			Sample Color / Turbid : Colorless/Clear	
			Sediment : -	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: *Bold-Italic* number meaning the value out of regulatory standard range



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

ว-295-ค-0002

Remark: 1) The above results are valid only for the analyzed / tested sample (s) as indicated in this report only.
2) Do not copy partial of this analysis report without official approval.

Figure of sample

1. Influent



2. Effluent



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ จ-295

Laboratory Manager:

Ang
(Dr. Angsana Romsaiyud)
จ-295-ค-0002

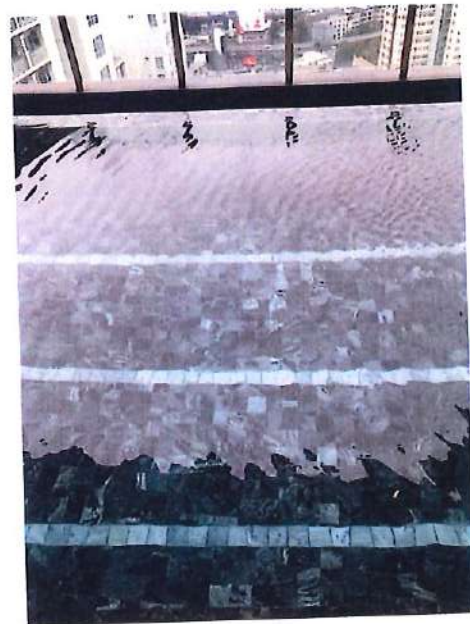
Remark: 1) The above results are valid only for the analyzed / tested sample (s) as indicated in this report only.
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Figure of sample

3. Shallow Zone



4. Deep Zone



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๖-295

Laboratory Manager: _____

(Dr. Angsana Romsaiyud)

๖-295-๓-0002

Remark: 1) The above results are valid only for the analyzed / tested sample (s) as indicated in this report only.
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Ecotech Water Systems Co., Ltd.

Report for Sample Analysis Of

นิติบุคคลอาคารชุด

ไอดีโอ โมบิรางน้ำ

(May 2023, 8/12)

Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yaek 6, Ratphatthana, Saphansung, Bangkok 10240;

Tel: (66)2-108 6468-9; Fax: (66)2-061 2809

www.ecotechthailand.com / www.ecoilab.com

Report for Sample Analysis Of

นิติบุคคลอาคารชุด

ไอดีโอ โมบิราน้ำ

(May 2023, 8/12)

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
 CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 SAMPLE TYPE/NAME : Waste Water REPORT NO. : JEX-Ww-23-J0616
 SAMPLING DATE : May 12, 2023 RECEIVED DATE : May 13, 2023
 SAMPLING TIME : 13.25 Hour ANALYTICAL DATE : May 13 - 19, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
 SAMPLING BY : Praphan Wongjaesem (ว-295-จ-0004) WORK NO. : Ww-23-J1873

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			Influent	
BOD	mg/l	5-day BOD Test, Azide Modification Method	62.0	-
Grease and Oil	mg/l	Liquid-Liquid, Partial-Gravimetric Method	<LOQ(5.0)	-
pH	-	Electrometric Method	7.0 (25°C)	-
Total Suspended Solids	mg/l	Total Suspended Solids Dried at 103-105°C	26.7	-
Sulfide	mg/l	Iodometric Method	1.40	-
TKN	mg/l	Semi-Macro Kjeldahl Nitrogen	37.5	-
Total Dissolved Solids	mg/l	Total Dissolved Solids Dried at 180°C	122	-
Total Coliform Bacteria*	MPN/100 mL	Multiple Tube Fermentation Technique	160,000	-
SAMPLE CONDITION			Sample Color / Turbid : Yellow / Cloudy	
			Sediment : -	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: *Bold-Italic* number meaning the value out of regulatory standard range

*ค่า TDS ของน้ำเสีย Influent (328) ลบ ค่า TDS ของน้ำประปา (206)



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

(Dr. Angsana Romsalyud)

ว-295-ค-0002

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
 CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 SAMPLE TYPE/NAME : Waste Water REPORT NO. : JEX-Ww-23-J0616
 SAMPLING DATE : May 12, 2023 RECEIVED DATE : May 13, 2023
 SAMPLING TIME : 13.25 Hour ANALYTICAL DATE : May 13 - 19, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
 SAMPLING BY : Praphan Wongjaesem (ว-295-จ-0004) WORK NO. : Ww-23-J1874

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			Effluent	
BOD	mg/l	5-day BOD Test, Azide Modification Method	26.3	≤ 30
Grease and Oil	mg/l	Liquid-Liquid, Partial-Gravimetric Method	<LOQ(5.0)	≤ 20.0
pH	-	Electrometric Method	6.9 (25°C)	5.0-9.0
Total Suspended Solids	mg/l	Total Suspended Solids Dried at 103-105°C	10.6	≤ 40
Sulfide	mg/l	Iodometric Method	NOT DETECTED	≤ 1.0
TKN	mg/l	Semi-Macro Kjeldahl Nitrogen	17.4	≤ 35
Total Dissolved Solids	mg/l	Total Dissolved Solids Dried at 180°C	244	≤ 500
Total Coliform Bacteria*	MPN/100 mL	Multiple Tube Fermentation Technique	24,000	-
SAMPLE CONDITION			Sample Color / Turbid : Yellow / Clear Sediment : A Bit	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: Bold-Italic number meaning the value out of regulatory standard range

ค่า TDS ของน้ำเสีย Effluent (450) สูงกว่า TDS ของน้ำประปา (200)



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

ว-295-จ-0002

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 CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอดีโอ โมบิรางน้ำ
 SAMPLE TYPE/NAME : Swimming Water REPORT NO. : JEX-Sw-23-J0617
 SAMPLING DATE : May 12, 2023 RECEIVED DATE : May 13, 2023
 SAMPLING TIME : 13.25 Hour ANALYTICAL DATE : May 13 - 24, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
 SAMPLING BY : Praphan Wongjaesem (๖-295-๖-0004) WORK NO. : Sw-23-J1875

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			Shallow zone	
Fecal Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
Total Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
<i>E. coli</i> *	MPN/100 ml	Multiple Tube Fermentation Technique	ABSENCE	ABSENCE
<i>Pseudomonas aeruginosa</i> *	CFU/250 mL	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
<i>Staphylococcus aureus</i> *	<i>S.aureus</i> /100m	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
SAMPLE CONDITION			Sample Color / Turbid : Colorless/Clear	
			Sediment : -	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: *Bold-Italic* number meaning the value out of regulatory standard range



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๖-295

Laboratory Manager:

(Dr. Angsana Romsalyud)

๖-295-๖-0002

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Report for Sample Analysis

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 ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
 CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอดีโอ โมบิรางน้ำ
 SAMPLE TYPE/NAME : Swimming Water REPORT NO. : JEX-Sw-23-J0617
 SAMPLING DATE : April 7, 2023 RECEIVED DATE : April 8, 2023
 SAMPLING TIME : 11.00 Hour ANALYTICAL DATE : April 8 - 18, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
 SAMPLING BY : Praphan Wongjaesem (๓-295-๓-0004) WORK NO. : Sw-23-J1876

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY
			Deep zone	STANDARD
Fecal Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
Total Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
<i>E. coli</i> *	MPN/100 ml	Multiple Tube Fermentation Technique	ABSENCE	ABSENCE
<i>Pseudomonas aeruginosa</i> *	CFU/250 mL	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
<i>Staphylococcus aureus</i> *	<i>S.aureus</i> /100ml	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
SAMPLE CONDITION			Sample Color / Turbid : Colorless/Clear	
			Sediment : -	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: *Bold-Italic* number meaning the value out of regulatory standard range



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๖-295

Laboratory Manager: _____

(Dr. Angsana Romsaiyud)

๖-295-๓-0002

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Figure of sample

1. Influent



2. Effluent



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ จ-295

Laboratory Manager: _____

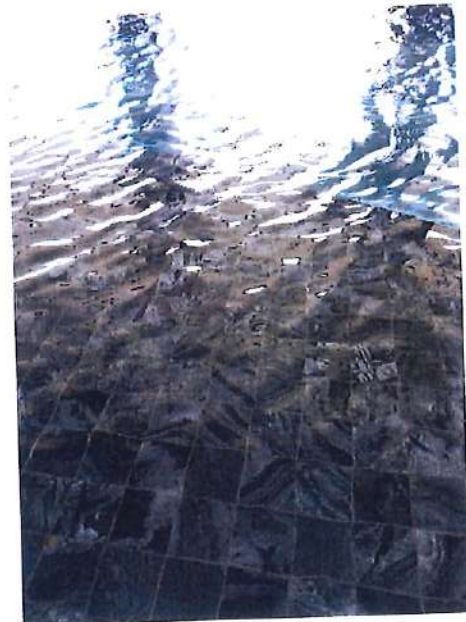
(Dr. Angsana Romsaiyud)

จ-295-ค-0002

Remark: 1) The above results are valid only for the analyzed / tested sample (s) as indicated in this report only.
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Figure of sample

3. Shallow Zone



4. Deep Zone



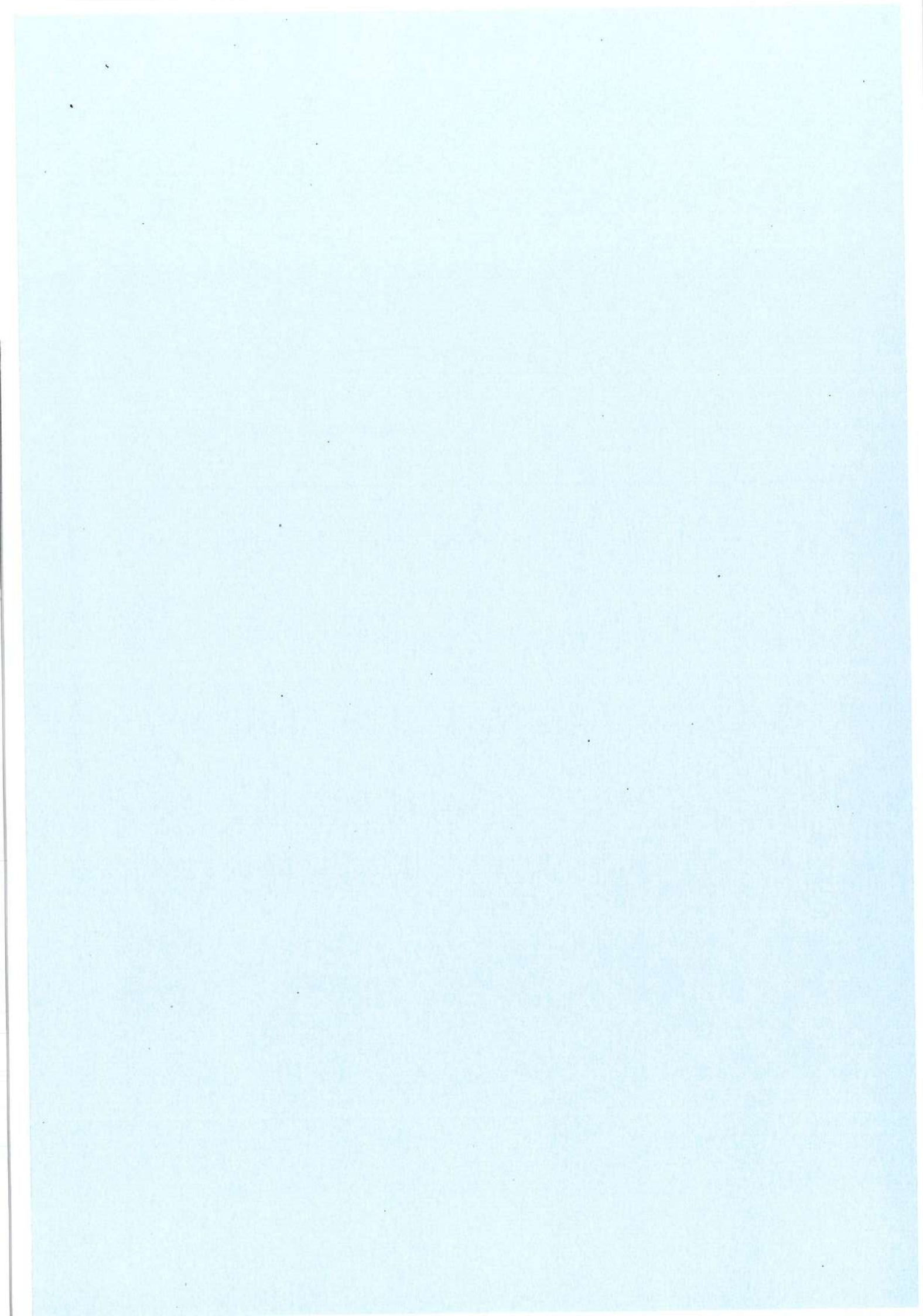
ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

ว-295-ค-0002

Remark: 1) The above results are valid only for the analyzed / tested sample (s) as indicated in this report only.
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Ecotech Water Systems Co., Ltd.

Report for Sample Analysis Of

นิติบุคคลอาคารชุด

ไฮดีโอ โมบิราน้ำ

(June 2023, 9/12)

Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yaek 6, Ratphatthana, Saphansung, Bangkok 10240;

Tel: (66)2-108 6468-9; Fax: (66)2-061 2809

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Report for Sample Analysis Of

นิติบุคคลอาคารชุด

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(June 2023, 9/12)

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
 CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 SAMPLE TYPE/NAME : Waste Water REPORT NO. : JEX-WwSw-23-J0738
 SAMPLING DATE : June 9, 2023 RECEIVED DATE : June 10, 2023
 SAMPLING TIME : 13.10 Hour ANALYTICAL DATE : June 10 - 21, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
 SAMPLING BY : Praphan Wongjaesem (๑-295-๑-0004) WORK NO. : Ww-23-J2165

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY
			Influent	STANDARD
BOD	mg/l	5-day BOD Test, Azide Modification Method	42.0	-
Grease and Oil	mg/l	Liquid-Liquid, Partial-Gravimetric Method	<LOQ(5.0)	-
pH	-	Electrometric Method	7.0 (25°C)	-
Total Suspended Solids	mg/l	Total Suspended Solids Dried at 103-105°C	41.5	-
Sulfide	mg/l	Iodometric Method	NOT DETECTED	-
TKN	mg/l	Semi-Macro Kjeldahl Nitrogen	33.0	-
Total Dissolved Solids	mg/l	Total Dissolved Solids Dried at 180°C	74	-
Total Coliform Bacteria*	MPN/100 mL	Multiple Tube Fermentation Technique	160,000	-
SAMPLE CONDITION			Sample Color / Turbid : Yellow / Turbid	
			Sediment : -	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017
Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: *Bold-Italic* number meaning the value out of regulatory standard range

*ค่า TDS ของน้ำเสีย Influent (320) วน ค่า TDS ของน้ำประปา (246)



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๖-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

๖-295-๑-0002

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
SAMPLE TYPE/NAME : Waste Water REPORT NO. : JEX-WwSw-23-J0738
SAMPLING DATE : June 9, 2023 RECEIVED DATE : June 10, 2023
SAMPLING TIME : 13.10 Hour ANALYTICAL DATE : June 10 - 21, 2023
SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
SAMPLING BY : Praphan Wongjaesem (๑-295-๑-0004) WORK NO. : Ww-23-J2166

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			Effluent	
BOD	mg/l	5-day BOD Test, Azide Modification Method	16.8	≤ 30
Grease and Oil	mg/l	Liquid-Liquid, Partial-Gravimetric Method	<LOQ(5.0)	≤ 20.0
pH	-	Electrometric Method	6.4 (25°C)	5.0-9.0
Total Suspended Solids	mg/l	Total Suspended Solids Dried at 103-105°C	4.5	≤ 40
Sulfide	mg/l	Iodometric Method	NOT DETECTED	≤ 1.0
TKN	mg/l	Semi-Macro Kjeldahl Nitrogen	12.9	≤ 35
Total Dissolved Solids	mg/l	Total Dissolved Solids Dried at 180°C	212	≤ 500
Total Coliform Bacteria*	MPN/100 mL	Multiple Tube Fermentation Technique	14,000	-
SAMPLE CONDITION			Sample Color / Turbid : Yellow / Clear	
			Sediment : A Bit	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017
Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

Definition *: The test was subcontracted to another laboratory

Remark: *Bold-Italic* number meaning the value out of regulatory standard range

*ค่า TDS ของน้ำเสีย Effluent (458) ลบ ค่า TDS ของน้ำประปา (246)



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๑-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

๑-295-๑-0002

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Report for Sample Analysis

CUSTOMER NAME : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
 CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
 SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอทีโอ โมบิรางน้ำ
 SAMPLE TYPE/NAME : Swimming Water REPORT NO. : JEX-WwSw-23-J0738
 SAMPLING DATE : June 9, 2023 RECEIVED DATE : June 10, 2023
 SAMPLING TIME : 13.10 Hour ANALYTICAL DATE : June 10 - 21, 2023
 SAMPLING METHOD : Grab QUOTATION NO. : QLJ22/0260/W/Pw
 SAMPLING BY : Praphan Wongjaesem (๓-295-๙-0004) WORK NO. : Sw-23-J2168

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			Shallow zone	
Fecal Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
Total Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
<i>E. coli</i> *	MPN/100 ml	Multiple Tube Fermentation Technique	ABSENCE	ABSENCE
<i>Pseudomonas aeruginosa</i> *	CFU/250 mL	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
<i>Staphylococcus aureus</i> *	<i>S.aureus</i> /100m	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
SAMPLE CONDITION			Sample Color / Turbid : Colorless / Clear Sediment : -	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017

Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.

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ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ๓-295

Laboratory Manager:

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๓-295-๙-0002

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CUSTOMER NAME : นิติบุคคลอาคารชุด ไอดีโอ โมบิรางน้ำ
ADDRESS : 119 ซอยรางน้ำ ถนนพญาไท แขวงพญาไท เขตราชเทวี กทม. 10400
CONTACT DETAILS : คุณดุสิต TEL : 084-6426353 e-mail : dusit.theworks@ananda.co.th
SAMPLING SOURCE : นิติบุคคลอาคารชุด ไอดีโอ โมบิรางน้ำ
SAMPLE TYPE/NAME : Swimming Water REPORT NO. : JEX-Sw-23-J0617
SAMPLING DATE : June 9, 2023 RECEIVED DATE : June 10, 2023
SAMPLING TIME : 13.10 Hour ANALYTICAL DATE : June 10 - 21, 2023
SAMPLING METHOD : Grab QUOTATION NO. : QL/22/0260/W/Pw
SAMPLING BY : Praphan Wongjaesem (ว-295-จ-0004) WORK NO. : Sw-23-J2169

PARAMETERS	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			Deep zone	
Fecal Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
Total Coliform Bacteria*	MPN/100 ml	Multiple Tube Fermentation Technique	None	None
<i>E. coli</i> *	MPN/100 ml	Multiple Tube Fermentation Technique	ABSENCE	ABSENCE
<i>Pseudomonas aeruginosa</i> *	CFU/250 mL	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
<i>Staphylococcus aureus</i> *	<i>S.aureus</i> /100ml	Membrane Filter Technique	NOT DETECTED	NOT DETECTED
SAMPLE CONDITION			Sample Color / Turbid : Colorless / Clear Sediment : -	

Reference: Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd ed. Washington, 2017
Standard: Notification of the Ministry of Natural Resources and Environment, Subject: Establish control standards Drainage of wastewater from certain types and buildings of certain sizes, dated November 7, 2005, announced in the Government Gazette, Volume 122, Chapter 125 D, dated 29 December 2005.
Definition *: The test was subcontracted to another laboratory
Remark: *Bold-Italic* number meaning the value out of regulatory standard range



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

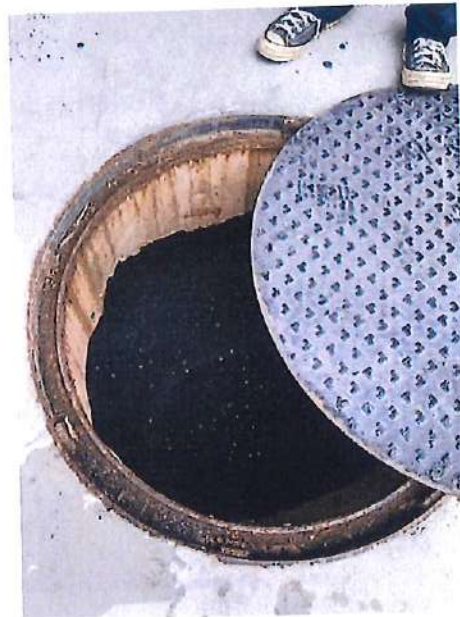
(Dr. Angsana Romsaiyud)

ว-295-ก-0002

Remark: 1) The above results are valid only for the analyzed / tested sample (s) as indicated in this report only.
2) Do not copy partial of this analysis report without official approval.

Figure of sample

1. Influent



2. Effluent



ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

ว-295-ค-0002

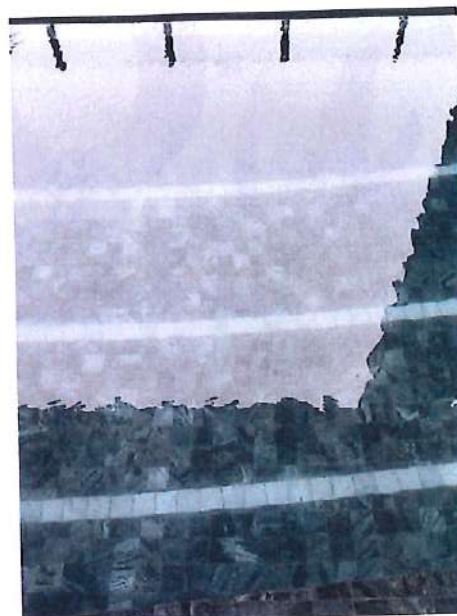
Remark: 1) The above results are valid only for the analyzed / tested sample (s) as indicated in this report only.
2) Do not copy partial of this analysis report without official approval.

Figure of sample

3. Shallow Zone



4. Deep Zone



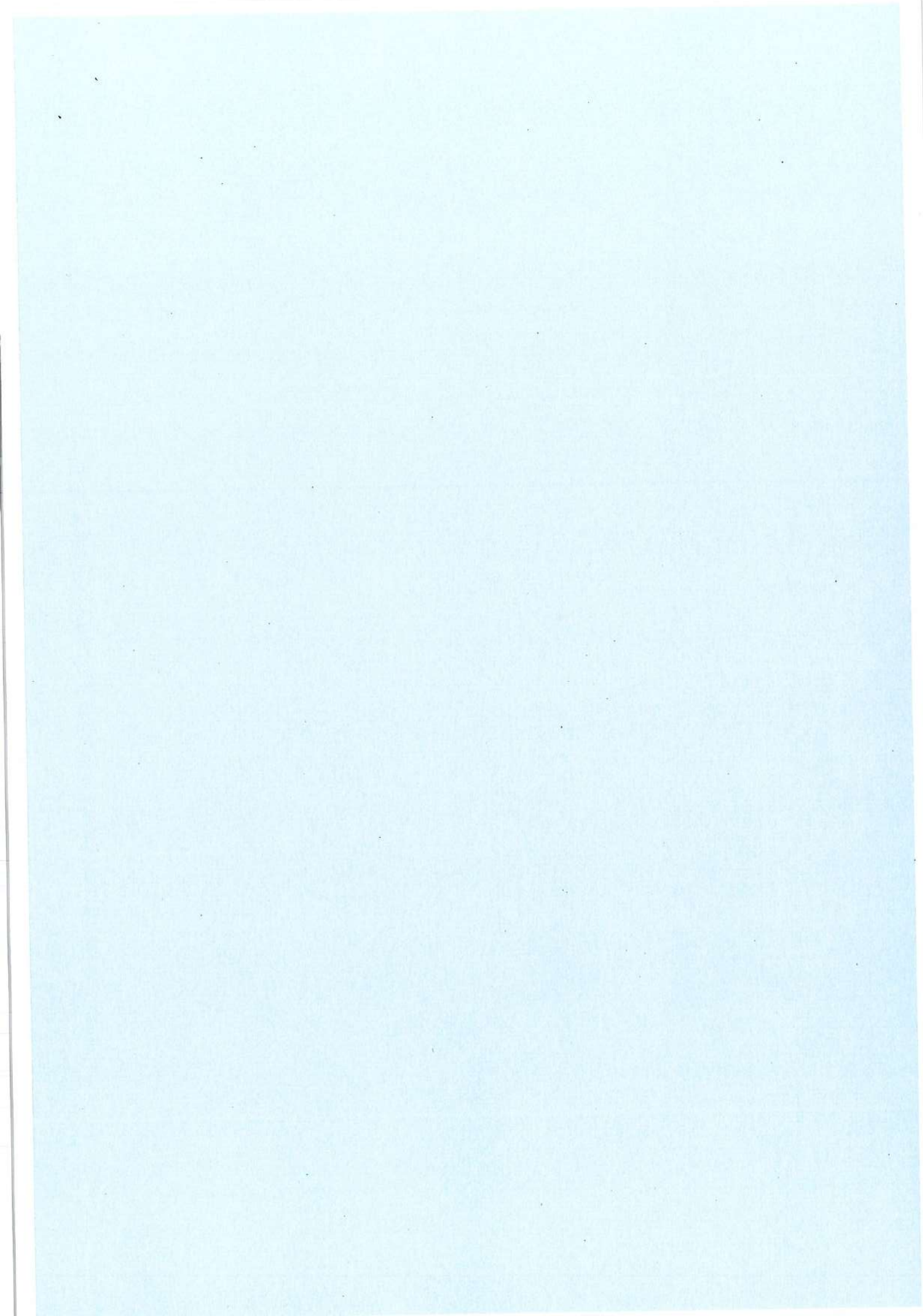
ห้องปฏิบัติการวิเคราะห์เอกชน : ทะเบียนเลขที่ ว-295

Laboratory Manager:

(Dr. Angsana Romsaiyud)

ว-295-ค-0002

Remark: 1) The above results are valid only for the analyzed / tested sample (s) as indicated in this report only.
2) Do not copy partial of this analysis report without official approval.



Certificate of Calibration

Certificate No. : 65-410116-2

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.
20 Soi Kheharomklao 74 Yak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : Digital Thermo-Hygrometer

Manufacturer :	Digicon	Model :	TH-03A
Range Temperature :	-10 °C to 50 °C	Resolution :	0.1 °C
Range Humidity :	20 %R.H. to 99 %R.H.	Resolution :	1 %R.H.
Serial No. :	365051554	ID No. :	N/A

Environment : Ambient Temperature : (23 ± 2) °C
Relative Humidity : (50 ± 15) %

Date of Received : 30 September 2022

Date of Calibration : 03 October to 05 October 2022

Date of Issue : 05 October 2022

Calibrated by : Chortip Samchusri

Calibration Method : This instrument was calibrated by In-house method comparison technique CAL-M4013 by compared with standard probe sensor humidity/temperature into humidity/temperature chamber.

Reference Standard Instruments : This certification is traceable to the International System of Units

Digital Indicator with Standard Probe Temp&Hum

ID No.	Cert. No.	Due Date	Traceability
400034 & 400035	SG-H-00713/65	07 Jan 2023	Success Gateway Co., Ltd., Accredited by TISI Calibration No.0268

Approved by :



(Bunjerd Masri)

Supervisor

The Uncertainties are for a confidence probability of approximately 95%

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Certificate of Calibration

Certificate No. : 65-410116-2

Page : 2 of 2

UUC Condition As-Received : Good

Result of Calibration : Without Adjustment

Function : Temperature measurement (Mode : In)

Reference Humidity @ 50 %R.H.

Standard Temperature (°C)	UUC Reading (°C)	Correction (°C)	Uncertainty (± °C)
19.99	20.3	-0.3	0.46
25.00	25.2	-0.2	0.46
30.00	29.8	0.2	0.46

Result of Calibration : Without Adjustment

Function : Humidity measurement

Reference Temperature @ 25 °C

Standard Humidity (%R.H.)	UUC Reading (%R.H.)	Correction (%R.H.)	Uncertainty (± %R.H)
39.98	39	1	2.2
50.00	49	1	2.2
59.99	59	1	2.3

Remark

UUC : Unit Under Calibration

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

- o0o -



Certificate of Calibration

Certificate No. : 65-410116-1

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.
20 Soi Kheharomklao 74 Yak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : Digital Thermo-Hygrometer

Manufacturer :	Digicon	Model :	TH-03A
Range Temperature :	-10 °C to 50 °C	Resolution :	0.1 °C
Range Humidity :	20 %R.H. to 99 %R.H.	Resolution :	1 %R.H.
Serial No. :	365052106	ID No. :	N/A

Environment : Ambient Temperature : (23 ± 2) °C
Relative Humidity : (50 ± 15) %

Date of Received : 30 September 2022

Date of Calibration : 03 October to 05 October 2022

Date of Issue : 05 October 2022

Calibrated by : Chortip Samchusri

Calibration Method : This instrument was calibrated by In-house method comparison technique CAL-M4013 by compared with standard probe sensor humidity/temperature into humidity/temperature chamber.

Reference Standard Instruments : This certification is traceable to the International System of Units

Digital Indicator with Standard Probe Temp&Hum

ID No.	Cert. No.	Due Date	Traceability
400034 & 400035	SG-H-00713/65	07 Jan 2023	Success Gateway Co., Ltd., Accredited by TISI Calibration No.0268

Approved by :



(Bunjerd Masri)

Supervisor

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Certificate of Calibration

Certificate No. : 65-410116-1

Page : 2 of 2

UUC Condition As-Received : Good

Result of Calibration : Without Adjustment

Function : Temperature measurement (Mode : In)

Reference Humidity @ 50 %R.H.

Standard Temperature (°C)	UUC Reading (°C)	Correction (°C)	Uncertainty (± °C)
20.00	20.5	-0.5	0.46
24.97	25.4	-0.4	0.46
30.01	29.9	0.1	0.46

Result of Calibration : Without Adjustment

Function : Humidity measurement

Reference Temperature @ 25 °C

Standard Humidity (%R.H.)	UUC Reading (%R.H.)	Correction (%R.H.)	Uncertainty (± %R.H.)
40.01	38	2	2.2
49.99	48	2	2.2
60.02	58	2	2.3

Remark

UUC : Unit Under Calibration

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

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B/



Certificate of Calibration

Certificate No. : 65-400508-4

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : Air Chamber (Refrigerator)

Manufacturer : S-Cool

Model : N/A

Range : N/A °C

Resolution : 1 °C

Serial No. : Eco-Ins14

ID No. : N/A

Environment : On site calibration was carried out at the Laboratory, Ecotech Water Systems Co., Ltd.

Ambient Temperature : (24.6 to 26.8) °C

Relative Humidity : (58 to 60) %

Line Voltage : (225.0 to 226.5) V

Date of Received : 30 September 2022

Date of Calibration : 30 September 2022

Date of Issue : 01 October 2022

Calibrated by : Bunjerd Masri

Calibration Method : CAL-M4004, TLAS G-20

The temperature scale used was based on ITS-90

Reference Standard Instruments : This certification is traceable to the International System of Units
Standard Digital Thermometer with RTD Probe

ID No.	Cert. No.	Due Date	Traceability
400046 & 400043	65-400419-2	02 Feb 2023	National Institute of Metrology Thailand (NIMT)

Approved by :



(Bunjerd Masri)

Supervisor

The Uncertainties are for a confidence probability of approximately 95%

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Certificate of Calibration

Certificate No. : 65-400508-4

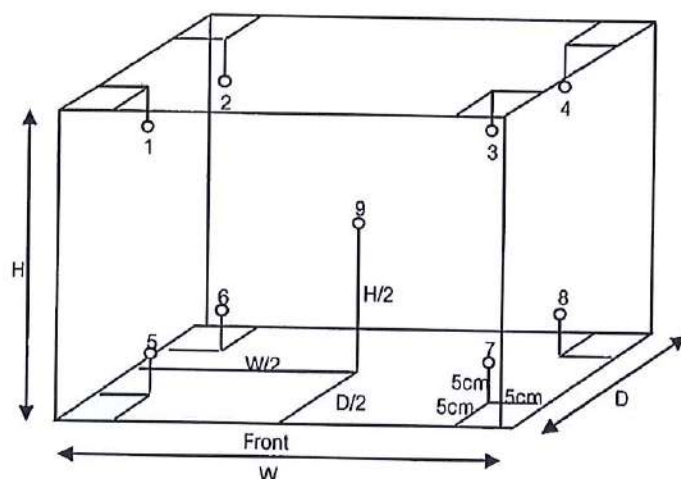
Page : 2 of 2

Result of Calibration : Without Adjustment

UUC Condition As-Received : Good

Function : Temperature measurement

This instrument was setting air ventilation at position 0 (close)



Inside of Chamber

W = 1.02 m

D = 0.44 m

H = 1.30 m

Capacity = 0.58 m³

Test Point (°C)	Setting Temperature (°C)	Indicating Temperature (°C)	Measured Temperature (°C) @ Sensor No.									Uncertainty (± °C)
			1	2	3	4	5	6	7	8	9	
4	4	4	5.18	4.99	4.44	3.88	5.05	5.20	4.41	3.66	4.04	1.3

Test Point (°C)	Setting Temperature (°C)	Indicating Temperature (°C)	Measured Uniformity (°C)	Measured Stability (°C)	Overall Variation (°C)
4.0	4.0	4.0	1.30	0.62	2.3

Remark The uncertainty is not combine uniformity of the air chamber

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k = 2 , providing a level of confidence of approximately 95%

- o0o -



Certificate of Calibration

Certificate No. : 65-400508-1

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : Air Chamber (Refrigatorator)

Manufacturer : Every Digital

Model : N/A

Range : N/A °C

Resolution : 0.1 °C

Serial No. : ASS1001

ID No. : INS005

Environment : On site calibration was carried out at the Laboratory, Ecotech Water Systems Co., Ltd.

Ambient Temperature : (24.6 to 26.8) °C

Relative Humidity : (58 to 60) %

Line Voltage : (225.0 to 226.5) V

Date of Received : 30 September 2022

Date of Calibration : 30 September 2022

Date of Issue : 01 October 2022

Calibrated by : Bunjerd Masri

Calibration Method : CAL-M4004, TLAS G-20

The temperature scale used was based on ITS-90

Reference Standard Instruments : This certification is traceable to the International System of Units

Standard Digital Thermometer with Thermocouple probe

ID No.

Cert. No.

Due Date

Traceability

400046 & 400023

65-400157-1

02 Oct 2022

National Institute of Metrology Thailand (NIMT)

Approved by :



(Bunjerd Masri)

Supervisor

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Certificate of Calibration

Certificate No. : 65-400508-1

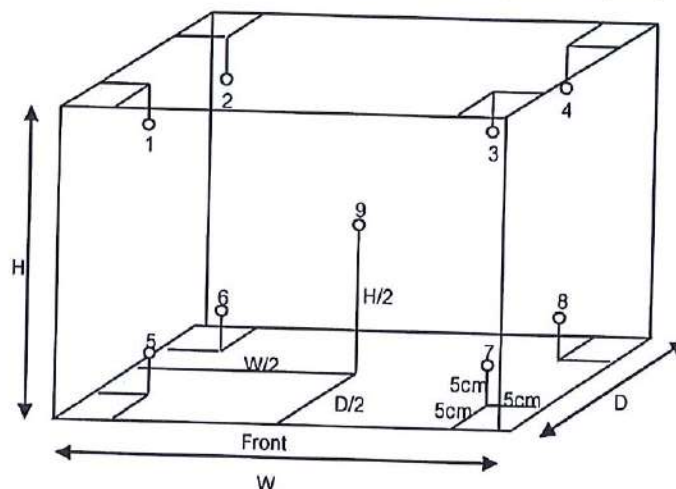
Page : 2 of 2

Result of Calibration : Without Adjustment

UUC Condition As-Received : Good

Function : Temperature measurement

This instrument was setting air ventilation at position 0 (close)



Inside of Chamber

W = 1.00 m

D = 0.50 m

H = 1.35 m

Capacity = 0.68 m³

Test Point (°C)	Setting Temperature (°C)	Indicating Temperature (°C)	Measured Temperature (°C) @ Sensor No.									Uncertainty (± °C)
			1	2	3	4	5	6	7	8	9	
4.0	3.0	3.0	4.3	4.1	3.9	4.2	4.1	4.2	4.1	4.3	4.0	0.63

Test Point (°C)	Setting Temperature (°C)	Indicating Temperature (°C)	Measured Uniformity (°C)	Measured Stability (°C)	Overall Variation (°C)
4.0	3.0	3.0	0.6	0.3	0.8

Remark The uncertainty is not combine uniformity of the air chamber

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

- oOo -



Certificate of Calibration

Certificate No. : 65-420082-3

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : pH Meter with electrode

pH meter

Manufacturer : Eutech

Model : PC 700

Range : N/A pH

Resolution : 0.01 pH

Serial No. : 3082600

ID No. : N/A

Electrode

Model : N/A

Serial No. : 01X099320

Environment : On site calibration was carried out at the Laboratory, Ecotech Water Systems Co., Ltd.

Ambient Temperature : (25.0 to 26.0)° C

Relative Humidity : (55 to 60) %

Date of Received : 30 September 2022

Date of Calibration : 30 September 2022

Date of Issue : 01 October 2022

Calibrated by : Permpon Chanpu

Calibration Method : In-house method CAL-M4201 direct measurement by using standard voltage calibrator and using certified reference material (CRM)

Reference Standard Instruments : This certification is traceable to the International System of Units

1. Multiproduct Calibrator

<u>ID No.</u>	<u>Cert. No.</u>	<u>Due Date</u>	<u>Traceability</u>
400005	SG-E-00473/64	27 Aug 2023	National Institute of Metrology Thailand (NIMT)

2. Standard Buffer Solution

<u>pH</u>	<u>Cert. No.</u>	<u>Lot No.</u>	<u>Exp. Date</u>	<u>Traceability</u>
4.008	61235182	833447	19 Aug 2024	CPA Chem Ltd. Accredited to ISO 17034 and ISO/IEC 17025
6.985	61255708	833449	19 Aug 2023	CPA Chem Ltd. Accredited to ISO 17034 and ISO/IEC 17025
10.008	61244986	833448	19 Aug 2023	CPA Chem Ltd. Accredited to ISO 17034 and ISO/IEC 17025

Approved by :



(Bunjerd Masri)

Supervisor

The Uncertainties are for a confidence probability of approximately 95%

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Certificate of Calibration

Certificate No. : 65-420082-3

Page : 2 of 2

Result of Calibration :

UUC Condition As-Received : Good

Function : Electrical measurement

pH meter

Performing standard curve by Multiproduct Calibrator at pH (4,7,10)

Adjustment Curve at nominal pH	Applied Voltage (mV)	Nominal Value (pH)	UUC Reading		Correction (mV)	Uncertainty (± mV)
			(pH)	(mV)		
4, 7, 10	177.4800	4	4.00	177.4	0.1	0.12
	0.0000	7	7.00	0.0	0.0	0.086
	-177.4800	10	10.00	-177.4	-0.1	0.12

Function : pH meter with electrode

Performing a three - buffer standard curve using buffer nominal pH (4,7,10)

Adjustment Curve at nominal pH	Standard Buffer (pH)	UUC Reading (pH)	Correction (pH)	Uncertainty (± pH)
4, 7, 10	4.008	4.01	0.00	0.0097
	6.985	7.00	-0.01	0.011
	10.008	10.01	0.00	0.014

Remark

UUC : Unit Under Calibration

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

- o0o -



Certificate of Calibration

Certificate No. : 65-400509-3

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.
20 Soi Kheharomklao 74 yeak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : Digital Thermometer with Thermistor probe

Temperature Indicator

Manufacturer : Eutech Model : PC 700

Range : N/A °C Resolution : 0.1 °C

Serial No. : 3082600 ID No. : N/A

Thermistor probe

Model : N/A Sheath Material : Stainless

Diameter : 3.5 mm. Length : 100 mm.

Serial No. : CONSEN9501D 102 ID No. : N/A

Environment : On site calibration was carried out at the Laboratory, Ecotech Water Systems Co., Ltd.

Ambient Temperature : (25.0 to 26.0) °C

Relative Humidity : (55 to 60) %

Line Voltage : (225.0 to 225.9) VAC

Date of Received : 30 September 2022

Date of Calibration : 30 September 2022

Date of Issue : 01 October 2022

Calibrated by : Permpon Chanpu

Calibration Method : This instrument was calibrated by In-house method comparison technique CAL-M4003 by compared with PRT in the liquid bath at the constant controlled temperature.

The temperature scale used was based on ITS-90

Reference Standard Instruments : This certification is traceable to the International System of Units

1. Platinum Resistance Thermometer (PRT)

ID No.	Cert. No.	Due Date	Traceability
400002	TT-0074-22	20 Jun 2024	National Institute of Metrology Thailand (NIMT)

2. Standard Digital Thermometer

ID No.	Cert. No.	Due Date	Traceability
400033	22E569	22 Feb 2024	National Institute of Metrology Thailand (NIMT)

Approved by :



(Bunjerd Masri)

Supervisor

The Uncertainties are for a confidence probability of approximately 95%

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Certificate of Calibration

Certificate No. : 65-400509-3

Page : 2 of 2

Result of Calibration : Without Adjustment

UUC Condition As-Received : Good

Function : Temperature measurement

Immersion Depth (mm.)	Standard Reading (°C)	UUC Reading (°C)	Correction (°C)	Uncertainty (± °C)
100	20.002	20.2	-0.2	0.19
100	25.005	25.2	-0.2	0.19
100	30.003	30.2	-0.2	0.19

Remark

UUC : Unit Under Calibration

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

- ๐0๐ -



Certificate of Calibration

Certificate No. : 65-420082-1

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : pH Meter with electrode

pH meter

Manufacturer : Eutech

Model : PC 700

Range : N/A pH

Resolution : 0.01 pH

Serial No. : 2728583

ID No. : N/A

Electrode

Model : N/A

Serial No. : 01X099323

Environment : On site calibration was carried out at the Laboratory, Ecotech Water Systems Co., Ltd.

Ambient Temperature : (25.0 to 26.0)° C

Relative Humidity : (55 to 60) %

Date of Received : 30 September 2022

Date of Calibration : 30 September 2022

Date of Issue : 01 October 2022

Calibrated by : Permpon Chanpu

Calibration Method : In-house method CAL-M4201 direct measurement by using standard voltage calibrator and using certified reference material (CRM)

Reference Standard Instruments : This certification is traceable to the International System of Units

1. Multiproduct Calibrator

ID No.	Cert. No.	Due Date	Traceability
400005	SG-E-00473/64	27 Aug 2023	National Institute of Metrology Thailand (NIMT)

2. Standard Buffer Solution

pH	Cert. No.	Lot No.	Exp. Date	Traceability
4.008	61235182	833447	19 Aug 2024	CPA Chem Ltd. Accredited to ISO 17034 and ISO/IEC 17025
6.985	61255708	833449	19 Aug 2023	CPA Chem Ltd. Accredited to ISO 17034 and ISO/IEC 17025
10.008	61244986	833448	19 Aug 2023	CPA Chem Ltd. Accredited to ISO 17034 and ISO/IEC 17025

Approved by :



(Bunjerd Masri)

Supervisor

The Uncertainties are for a confidence probability of approximately 95%

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Certificate of Calibration

Certificate No. : 65-420082-1

Page : 2 of 2

Result of Calibration :

UUC Condition As-Received : Good

Function : Electrical measurement

pH meter

Performing standard curve by Multiproduct Calibrator at pH (4,7,10)

Adjustment Curve at nominal pH	Applied Voltage (mV)	Nominal Value (pH)	UUC Reading		Correction (mV)	Uncertainty (± mV)
			(pH)	(mV)		
4, 7, 10	177.4800	4	4.00	166.7	10.8	0.12
	0.0000	7	7.00	-8.4	8.4	0.086
	-177.4800	10	10.00	-183.5	6.0	0.12

Function : pH meter with electrode

Performing a three - buffer standard curve using buffer nominal pH (4,7,10)

Adjustment Curve at nominal pH	Standard Buffer (pH)	UUC Reading (pH)	Correction (pH)	Uncertainty (± pH)
4, 7, 10	4.008	4.01	0.00	0.0097
	6.985	7.00	-0.01	0.011
	10.008	10.01	0.00	0.014

Remark

UUC : Unit Under Calibration

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurment was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

- o0o -



Certificate of Calibration

Certificate No. : 65-400509-1

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.
20 Soi Kheharomklao 74 yeak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : Digital Thermometer with Thermistor probe
Temperature Indicator

Manufacturer : Eutech Model : PC 700
Range : N/A °C Resolution : 0.1 °C
Serial No. : 2728583 ID No. : N/A

Thermistor probe

Model : N/A Sheath Material : Stainless
Diameter : 3.5 mm. Length : 100 mm.
Serial No. : CONSEN9501D 028 ID No. : N/A

Environment : On site calibration was carried out at the Laboratory, Ecotech Water Systems Co., Ltd.

Ambient Temperature : (25.0 to 26.0) °C
Relative Humidity : (55 to 60) %
Line Voltage : (225.0 to 225.9) VAC

Date of Received : 30 September 2022

Date of Calibration : 30 September 2022

Date of Issue : 01 October 2022

Calibrated by : Permpon Chanpu

Calibration Method : This instrument was calibrated by In-house method comparison technique CAL-M4003 by compared with PRT in the liquid bath at the constant controlled temperature.

The temperature scale used was based on ITS-90

Reference Standard Instruments : This certification is traceable to the International System of Units

1. Platinum Resistance Thermometer (PRT)

ID No.	Cert. No.	Due Date	Traceability
400002	TT-0074-22	20 Jun 2024	National Institute of Metrology Thailand (NIMT)

2. Standard Digital Thermometer

ID No.	Cert. No.	Due Date	Traceability
400033	22E569	22 Feb 2024	National Institute of Metrology Thailand (NIMT)

Approved by :



(Bunjerd Masri)

Supervisor

The Uncertainties are for a confidence probability of approximately 95%

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Calibratech Co.,Ltd.

7/106-7 Moo 2, Sukhaphrasan 3 Rd., Bangpood, Pakkred, Nonthaburi 11120

Tel.(02) 964-6211 Fax.(02) 964-5155, e-mail : calibratech.cal@yahoo.com, calibratech.cal@hotmail.com

Certificate of Calibration

Certificate No. : 65-400509-1

Page : 2 of 2

Result of Calibration : Without Adjustment

UUC Condition As-Received : Good

Function : Temperature measurement

Immersion Depth (mm.)	Standard Reading (°C)	UUC Reading (°C)	Correction (°C)	Uncertainty (± °C)
100	20.003	20.3	-0.3	0.19
100	25.002	25.3	-0.3	0.19
100	30.004	30.3	-0.3	0.19

Remark

UUC : Unit Under Calibration

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

- o0o -

B✓



Certificate of Calibration

Certificate No. : 65-420082-2

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : pH Meter with electrode

pH meter

Manufacturer : Eutech

Model : PC 450

Range : N/A pH

Resolution : 0.01 pH

Serial No. : 2535550

ID No. : N/A

Electrode

Model : N/A

Serial No. : 01X099323

Environment : On site calibration was carried out at the Laboratory, Ecotech Water Systems Co., Ltd.

Ambient Temperature : (25.0 to 26.0)° C

Relative Humidity : (55 to 60) %

Date of Received : 30 September 2022

Date of Calibration : 30 September 2022

Date of Issue : 01 October 2022

Calibrated by : Permpon Chanpu

Calibration Method : In-house method CAL-M4201 direct measurement by using standard voltage calibrator and using certified reference material (CRM)


Reference Standard Instruments : This certification is traceable to the International System of Units

1. Multiproduct Calibrator

ID No.	Cert. No.	Due Date	Traceability
400005	SG-E-00473/64	27 Aug 2023	National Institute of Metrology Thailand (NIMT)

2. Standard Buffer Solution

pH	Cert. No.	Lot No.	Exp. Date	Traceability
4.008	61235182	833447	19 Aug 2024	CPA Chem Ltd. Accredited to ISO 17034 and ISO/IEC 17025
6.985	61255708	833449	19 Aug 2023	CPA Chem Ltd. Accredited to ISO 17034 and ISO/IEC 17025
10.008	61244986	833448	19 Aug 2023	CPA Chem Ltd. Accredited to ISO 17034 and ISO/IEC 17025

Approved by : 
(Bunjerd Masri)
Supervisor

The Uncertainties are for a confidence probability of approximately 95%

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Certificate of Calibration

Certificate No. : 65-420082-2

Page : 2 of 2

Result of Calibration :

UUC Condition As-Received : Good

Function : Electrical measurement

pH meter

Performing standard curve by Multiproduct Calibrator at pH (4,7,10)

Adjustment Curve at nominal pH	Applied Voltage (mV)	Nominal Value (pH)	UUC Reading		Correction (mV)	Uncertainty (± mV)
			(pH)	(mV)		
4, 7, 10	177.4800	4	4.00	177.6	-0.1	0.12
	0.0000	7	7.02	0.0	0.0	0.086
	-177.4800	10	10.00	-177.5	0.0	0.12

Function : pH meter with electrode

Performing a three - buffer standard curve using buffer nominal pH (4,7,10)

Adjustment Curve at nominal pH	Standard Buffer (pH)	UUC Reading (pH)	Correction (pH)	Uncertainty (± pH)
4, 7, 10	4.008	4.01	0.00	0.0097
	6.985	7.00	-0.01	0.011
	10.008	10.00	0.00	0.014

Remark

UUC : Unit Under Calibration

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

- o0o -



Certificate of Calibration

Certificate No. : 65-400509-2

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 yeak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : Digital Thermometer with Thermistor probe

Temperature Indicator

Manufacturer : Eutech

Model : PC 450

Range : N/A °C

Resolution : 0.1 °C

Serial No. : 2535550

ID No. : N/A

Thermistor probe

Model : N/A

Sheath Material : Stainless

Diameter : 3.5 mm.

Length : 100 mm.

Serial No. : CONSEN91W 141

ID No. : N/A

Environment : On site calibration was carried out at the Laboratory, Ecotech Water Systems Co., Ltd.

Ambient Temperature : (25.0 to 26.0) °C

Relative Humidity : (55 to 60) %

Line Voltage : (225.0 to 225.9) VAC

Date of Received : 30 September 2022

Date of Calibration : 30 September 2022

Date of Issue : 01 October 2022

Calibrated by : Permpon Chanpu

Calibration Method : This instrument was calibrated by In-house method comparison technique CAL-M4003 by compared with PRT in the liquid bath at the constant controlled temperature.

The temperature scale used was based on ITS-90

Reference Standard Instruments : This certification is traceable to the International System of Units

1. Platinum Resistance Thermometer (PRT)

ID No.	Cert. No.	Due Date	Traceability
400002	TT-0074-22	20 Jun 2024	National Institute of Metrology Thailand (NIMT)

2. Standard Digital Thermometer

ID No.	Cert. No.	Due Date	Traceability
400033	22E569	22 Feb 2024	National Institute of Metrology Thailand (NIMT)

Approved by :



(Bunjerd Masri)

Supervisor

The Uncertainties are for a confidence probability of approximately 95%

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Certificate of Calibration

Certificate No. : 65-400509-2

Page : 2 of 2

Result of Calibration : Without Adjustment

UUC Condition As-Received : Good

Function : Temperature measurement

Immersion Depth (mm.)	Standard Reading (°C)	UUC Reading (°C)	Correction (°C)	Uncertainty (± °C)
100	20.005	20.1	-0.1	0.19
100	25.006	25.1	-0.1	0.19
100	30.005	30.1	-0.1	0.19

Remark

UUC : Unit Under Calibration

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

- o0o -



Certificate of Calibration

Certificate No. : 65-400508-6

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : Air Chamber (Incubator)

Manufacturer : Biobase

Model : BJPX-B400II

Range : N/A °C

Resolution : 0.1 °C

Serial No. : KYP400II2010002

ID No. : N/A

Environment : On site calibration was carried out at the Laboratory, Ecotech Water Systems Co., Ltd.

Ambient Temperature : (24.6 to 26.8) °C

Relative Humidity : (58 to 60) %

Line Voltage : (225.0 to 226.5) V

Date of Received : 30 September 2022

Date of Calibration : 30 September 2022

Date of Issue : 01 October 2022

Calibrated by : Bunjerd Masri

Calibration Method : CAL-M4004, TLAS G-20

The temperature scale used was based on ITS-90

Reference Standard Instruments : This certification is traceable to the International System of Units
Standard Digital Thermometer with RTD Probe

ID No.	Cert. No.	Due Date	Traceability
400046 & 400047	65-400419-3	03 Feb 2023	National Institute of Metrology Thailand (NIMT)

Approved by :



(Bunjerd Masri)

Supervisor

The Uncertainties are for a confidence probability of approximately 95%

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Certificate of Calibration

Certificate No. : 65-400508-6

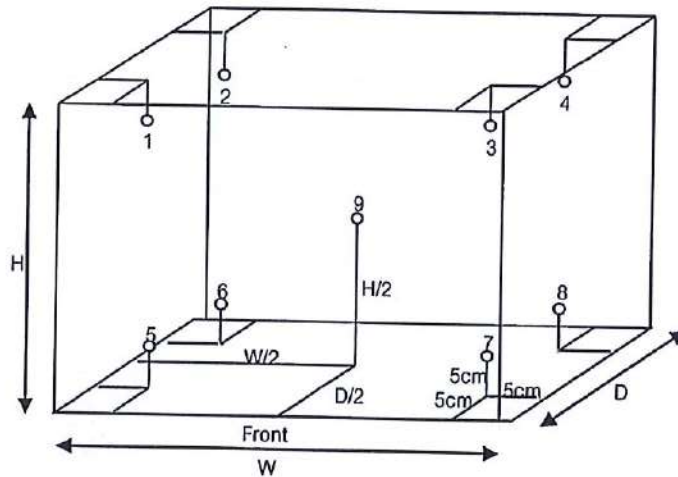
Page : 2 of 2

Result of Calibration : Without Adjustment

UUC Condition As-Received : Good

Function : Temperature measurement

This instrument was setting air ventilation at position 0 (close)



Inside of Chamber

W = 0.58 m

D = 0.55 m

H = 1.28 m

Capacity = 0.41 m³

Test Point (°C)	Setting Temperature (°C)	Indicating Temperature (°C)	Measured Temperature (°C) @ Sensor No.									Uncertainty (± °C)
			1	2	3	4	5	6	7	8	9	
20.0	20.0	20.0	20.18	20.15	20.21	20.13	20.07	20.07	20.11	20.07	20.02	0.44

Test Point (°C)	Setting Temperature (°C)	Indicating Temperature (°C)	Measured Uniformity (°C)	Measured Stability (°C)	Overall Variation (°C)
20.0	20.0	20.0	0.22	0.20	0.5

Remark The uncertainty is not combine uniformity of the air chamber

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

- o0o -

B



Certificate of Calibration

Certificate No. : 65-400508-2

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : Air Chamber (Oven)

Manufacturer : LABTECH

Model : LDO-080F

Range : N/A °C

Resolution : 0.1 °C

Serial No. : 081029024

ID No. : INS007

Environment : On site calibration was carried out at the Laboratory, Ecotech Water Systems Co., Ltd.

Ambient Temperature : (26.0 to 27.0) °C

Relative Humidity : (48 to 52) %

Line Voltage : (225.0 to 226.4) V

Date of Received : 30 September 2022

Date of Calibration : 30 September 2022

Date of Issue : 01 October 2022

Calibrated by : Permpon Chanpu

Calibration Method : CAL-M4004, TLAS G-20

The temperature scale used was based on ITS-90

Reference Standard Instruments : This certification is traceable to the International System of Units

Standard Digital Thermometer with Thermocouple probe

ID No.	Cert. No.	Due Date	Traceability
400029 & 400030	65-400272-1	24 Nov 2022	National Institute of Metrology Thailand (NIMT)

Approved by :



(Bunjerd Masri)

Supervisor

The Uncertainties are for a confidence probability of approximately 95%

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Certificate of Calibration

Certificate No. : 65-400508-2

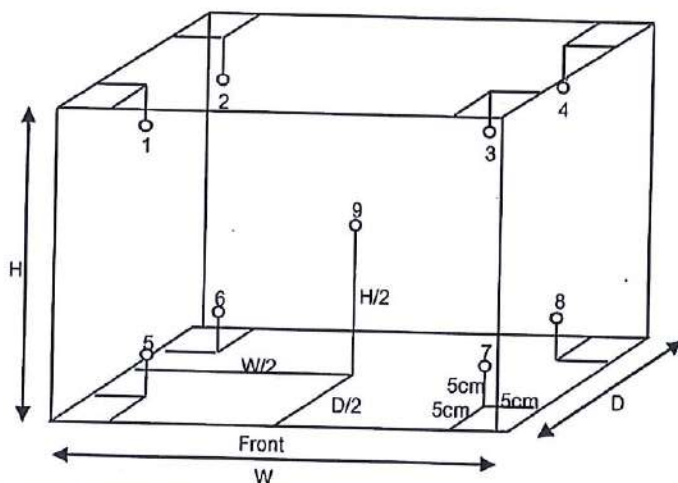
Page : 2 of 2

Result of Calibration : Without Adjustment

UUC Condition As-Received : Good

Function : Temperature measurement

This instrument was setting air ventilation at position 0 (close)



Inside of Chamber

W = 0.50 m

D = 0.40 m

H = 0.40 m

Capacity = 0.08 m³

Test Point (°C)	Setting Temperature (°C)	Indicating Temperature (°C)	Measured Temperature (°C) @ Sensor No.									Uncertainty (± °C)
			1	2	3	4	5	6	7	8	9	
104.0	104.0	104.0	104.3	103.4	104.6	104.2	103.2	103.5	104.1	105.3	105.3	1.7
180.0	180.0	180.0	179.1	178.7	180.0	179.1	178.6	178.9	178.9	181.6	181.8	2.9

Test Point (°C)	Setting Temperature (°C)	Indicating Temperature (°C)	Measured Uniformity (°C)	Measured Stability (°C)	Overall Variation (°C)
104.0	104.0	104.0	2.5	1.3	4.6
180.0	180.0	180.0	4.3	2.2	7.5

Remark The uncertainty is not combine uniformity of the air chamber

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

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B



Certificate of Calibration

Certificate No. : 65-400523-1

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : COD Reactor

Manufacturer : Hanna

Model : HI839800

Range : N/A °C

Resolution : 0.1 °C

Serial No. : 05220009101

ID No. : N/A

Environment : Ambient Temperature : (23 ± 2) °C

Relative Humidity : (50 ± 15) %

Date of Received : 30 September 2022

Date of Calibration : 03 October 2022

Date of Issue : 03 October 2022

Calibration Method : This instrument was calibrated by In-house method direct measurement with

Standard Digital Thermometer with TC Type T probe

The temperature scale used was based on ITS-90

Reference Standard Instruments :

Standard Digital Thermometer with TC Probe

<u>ID No.</u>	<u>Cert. No.</u>	<u>Due Date</u>	<u>Traceability</u>
400029 & 400030	65-400272-1	24 Nov 2022	National Institute of Metrology Thailand (NIMT)
400029 & 400032	65-400274-1	25 Nov 2022	National Institute of Metrology Thailand (NIMT)

Approved by :



(Bunjerd Masri)

Supervisor

The Uncertainties are for a confidence probability of approximately 95%

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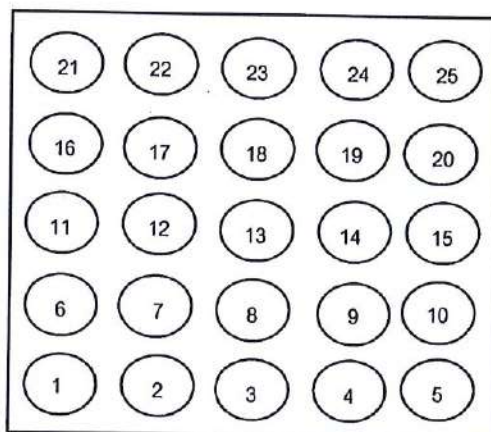
Certificate of Calibration

Certificate No. : 65-400523-1

Page : 2 of 2

Result of Calibration : Without Adjustment

Function : Temperature measurement



Controller

Test Point (°C)	UUC Setting (°C)	UUC Reading (°C)	Standard Reading at Position (°C)									
			1	2	3	4	5	6	7	8	9	10
150.0	150.0	150.0	150.6	150.1	152.0	150.1	149.7	149.3	151.3	152.0	150.9	150.4

Test Point (°C)	UUC Setting (°C)	UUC Reading (°C)	Standard Reading at Position (°C)									
			11	12	13	14	15	16	17	18	19	20
150.0	150.0	150.0	149.4	152.0	151.4	151.0	150.1	150.3	150.6	151.8	151.7	149.9

Test Point (°C)	UUC Setting (°C)	UUC Reading (°C)	Standard Reading at Position (°C)					Uncertainty (± °C)
			21	22	23	24	25	
150.0	150.0	150.0	150.3	149.9	151.4	150.2	150.1	0.73

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

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B



Certificate of Calibration

Certificate No. : 65-200308-1

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.
20 Soi Kheharomklao 74 Yak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : Electronic Balance
Manufacturer : OHAUS Model : PA214
Serial No. : 8328380168 ID No. : INS013
Capacity : 210 g Resolution : 0.0001 g

Environment : On site calibration was carried out at the Laboratory, Ecotech Water Systems Co., Ltd.
Ambient Temperature : (24.6 to 24.7) °C
Relative Humidity : (59.9 to 61.3) %
Air Pressure : 1005.0 mbar

Date of Received : 30 September 2022

Date of Calibration : 30 September 2022

Date of Issue : 01 October 2022

Calibrated by : Satja Sangkhum

Calibration Method : In-house method CAL-M2001 based on UKAS Publication ref : LAB 14
Edition 5, July 2015

Reference Standard Instruments : This certification is traceable to the International System of Units

Standard Weights

ID No.	Cert. No.	Due Date	Traceability
E261-E2624	C02213103	18 Nov 2022	National Institute of Metrology (Thailand), (NIMT)

Approved by :



(Surachai Promthong)

Laboratory Manager

The Uncertainties are for a confidence probability of approximately 95%

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Certificate of Calibration

Certificate No. : 65-200308-1

Page : 2 of 2

Result of Calibration : After Adjustment

UUC Condition As-Received : Good

Departure of indication from nominal value

Nominal Value (g)	Correction (g)	Uncertainty \pm (g)	Error before Adjustment (g)
0.01	0.0000	0.00011	0.0000
0.1	0.0000	0.00011	0.0000
1	0.0000	0.00011	-0.0001
5	0.0000	0.00011	0.0000
10	0.0000	0.00011	-0.0003
20	-0.0001	0.00011	-0.0004
50	0.0001	0.00012	-0.0014
100	0.0000	0.00020	-0.0027
150	0.0000	0.00038	-0.0042
200	0.0000	0.00038	-0.0055

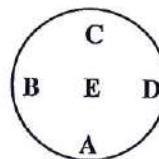
This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2.11$, providing a level of confidence of approximately 95%

Eccentric error

Load test : 50 g

A	B	C	D	E	
0.0002	0.0001	-0.0003	-0.0001	0.0000	g



Repeatability

Load test : 200 g

Stdev. : 0.00005 g

- o0o -



Certificate of Calibration

Certificate No. : 65-400508-3

Page : 1 of 2

Submitted by : Ecotech Water Systems Co., Ltd.

20 Soi Kheharomklao 74 Yak 6, Ratphatthana, Saphansung, Bangkok 10240

Equipment : Autoclave

Manufacturer : LABTECH

Model : LAC-5060S

Range : N/A °C

Resolution 0.1 °C

Serial No. : 090414007

ID No. : INS008

Environment : On site calibration was carried out at the Laboratory, Ecotech Water Systems Co., Ltd.

Ambient Temperature : (26.0 to 27.0) °C

Relative Humidity : (48 to 52) %

Line Voltage : (225.0 to 226.4) V

Date of Received : 30 September 2022

Date of Calibration : 30 September 2022

Date of Issue : 01 October 2022

Calibrated by : Permpon Chanpu

Calibration Method : This instrument was calibrated by In-house method CAL-M4007 based on BS 2646 Part5 : 1993

The temperature scale used was based on ITS-90

Reference Standard Instruments : This certification is traceable to the International System of Units

Standard Temperature Data Logger with RTD pt 100

ID No.	Cert. No.	Due Date	Traceability
400039	65-400420-1	15 Feb 2023	National Institute of Metrology Thailand (NIMT)
400040	65-400420-2	15 Feb 2023	National Institute of Metrology Thailand (NIMT)
400041	65-400420-3	15 Feb 2023	National Institute of Metrology Thailand (NIMT)

Approved by :



(Bunjerd Marsi)

Supervisor

The Uncertainties are for a confidence probability of approximately 95%

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Certificate of Calibration

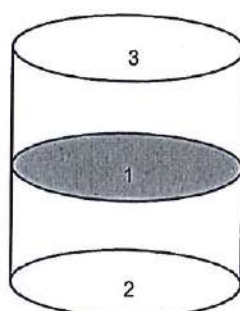
Certificate No. 65-400508-3

Page : 2 of 2

Result of Calibration : Without Adjustment

UUC Condition As-Received : Good

Function : Temperature measurement



Front

Test Point (°C)	Setting Temperature (°C)	Indicating Temperature (°C)	Measured Temperature (°C) @ Sensor No.			Uncertainty (± °C)	Measured Uniformity (°C)	Measured Stability (°C)	Sterilizing Time (minute)	Pressure Gauge Reading (kgf/cm²)
			1	2	3					
121.0	121.0	121.0	121.5	121.0	121.1	0.71	0.6	0.1	15	1.2

Remark

1. UUC : Unit Under Calibration
2. Pressure Gauge reading are out of accreditation's scope.

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

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ที่ อก ๐๓๑๐(๑)/ ๑๕๙๒๖



กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๘ ตุลาคม ๒๕๖๕

เรื่อง ต่อยุหน้งสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท อีโคเทค วอเตอร์ซิสเต็มส์ จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน
ลงวันที่ ๔ กันยายน ๒๕๖๕

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท อีโคเทค วอเตอร์ซิสเต็มส์ จำกัด จำนวน ๑ แผ่น

ตามหนังสือที่อ้างถึง บริษัท อีโคเทค วอเตอร์ซิสเต็มส์ จำกัด ขอต่ออายุหนังสือรับขึ้นทะเบียน
ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๕๕ สถานที่ตั้งเลขที่ ๒๐ ซอยเคหะร่มเกล้า ๗๔ แยก ๖
แขวงราษฎร์พัฒนา เขตสะพานสูง กรุงเทพมหานคร ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท อีโคเทค วอเตอร์ซิสเต็มส์ จำกัด ต่ออายุ
หนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้

ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์

- | | |
|-----------------------------|----------------------------|
| ๑) นายเปี่ยมศักดิ์ ไชยสิงห์ | ทะเบียนเลขที่ ว-๒๕๕-ค-๐๐๐๑ |
| ๒) นางอังสนา ร่มสายหยุด | ทะเบียนเลขที่ ว-๒๕๕-ค-๐๐๐๒ |

ข. เจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์

- | | |
|------------------------------|----------------------------|
| ๑) นายอนุรักษ์ ตันตราสัย | ทะเบียนเลขที่ ว-๒๕๕-จ-๐๐๐๑ |
| ๒) นางสาวปริยานุช หมดจิ | ทะเบียนเลขที่ ว-๒๕๕-จ-๐๐๐๒ |
| ๓) นายนิสิต เหลืองภัทรวงศ์ | ทะเบียนเลขที่ ว-๒๕๕-จ-๐๐๐๓ |
| ๔) นายประพันธ์ วงษ์เจ๊ะเข้ม | ทะเบียนเลขที่ ว-๒๕๕-จ-๐๐๐๔ |
| ๕) นางสาวสุทธิดา มินกาเข้ม | ทะเบียนเลขที่ ว-๒๕๕-จ-๐๐๐๕ |
| ๖) นางสาวญาณิศา สุวรรณมาศ | ทะเบียนเลขที่ ว-๒๕๕-จ-๐๐๐๖ |
| ๗) นางสาววริศรา บุญลาภงามมณี | ทะเบียนเลขที่ ว-๒๕๕-จ-๐๐๐๗ |
| ๘) นางสาวจิราพร ฤทธิ์เต็ม | ทะเบียนเลขที่ ว-๒๕๕-จ-๐๐๐๘ |

ค. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนให้วิเคราะห์ในน้ำเสีย ตามสิ่งที่ส่งมาด้วย




หนังสือฉบับนี้...

หนังสือฉบับนี้จะหมดอายุในวันที่ ๑๑ ตุลาคม ๒๕๖๘ หากประสงค์จะต่ออายุหนังสือ
รับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ให้ยื่นคำขอต่ออายุพร้อมเอกสารประกอบคำขอต่อ
กรมโรงงานอุตสาหกรรม ภายใน ๓๐ วัน ก่อนวันสิ้นอายุของหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
ทั้งนี้ สามารถยื่นคำขอผ่านระบบอิเล็กทรอนิกส์ได้ที่หน้าเว็บไซต์กรมโรงงานอุตสาหกรรม ตาม QR Code
ท้ายหนังสือฉบับนี้

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ



(นายประสม ดำรงพงษ์)
ผู้อำนวยการกองวิจัยและพัฒนามลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม



ยื่นคำขอผ่านระบบอิเล็กทรอนิกส์

กองวิจัยและพัฒนามลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๕๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕
โทรสาร ๐ ๒๕๓๐ ๖๓๑๒ ต่อ ๒๑๔๙
ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th





เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

บริษัท อีโคเทค วอเตอร์ซิสเต็มส์ จำกัด เลขทะเบียน ว-๒๕๕

ที่ อก ๐๓๑๐(๑)/ ๑๕๕๒๖ ลงวันที่ ๒๘ ตุลาคม ๒๕๖๕

ขอขยายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๘ รายการ

น้ำเสีย จำนวน 8 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Biochemical Oxygen Demand	5-Day BOD Test, Azide Modification Method
2	Chemical Oxygen Demand	Closed Reflux, Titrimetric Method
3	Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method
4	pH	Electrometric Method
5	Sulfide	Iodometric Method
6	Total Dissolved Solids	Dried at 180 °C
7	Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method
8	Total Suspended Solids	Dried at 103-105 °C <i>Amol</i>

เอกสารอ้างอิง

APHA, AWWA, WEF. Standard Methods for the Examination of Water and Wastewater.
23rd ed. Washington, DC: APHA, 2017.



