Name of Laboratory

Address

Initial Issue Date

Issue Date

Expired date Standard

Reference No.

: South East Asian Laboratory Co., Ltd. : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250 Accreditation Number : Testing - 0220

Contact Person : Mr. Wisa Pen

Phone: (662) 7183851-3 Fax: (662) 718 3854

E-mail: wisa.p@seallab.co.th

: 6th February 2020

: 31st August 2022

: 30th August 2026

: ISO/IEC 17025:2017

: 0303/13136

Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laboratory Status : $oxed{\square}$ Permanent $oxed{\square}$ Site $oxed{\square}$ Temporary $oxed{\square}$ Mobile

Laborator	y Status . 🗀 Tellila	anent — site — rempt	orary – Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Bottled drinking water	- Total dissolved solids	Standard Methods for the Examination
		dried at 180 °C	of Water and Wastewater, APHA,
		20 mg/L to 1 500 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 C
		- Total solids	Standard Methods for the Examination
		dried at 103 °C to 105 °C	of Water and Wastewater, APHA,
		20 mg/L to 1 500 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 B
		- Aluminium	In - house method : TS-CH-1870
		0.05 mg/L to 1.0 mg/L	based on Standard Methods for the
		- Barium	Examination of Water and Wastewater,
		0.003 mg/L to 0.1 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,
		- Cadmium	part 3120 B
		0.001 mg/L to 0.1 mg/L	

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Issue Number 2

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laborator	y Status : 🗹 Perma	anent 🗆 Site 🔲 Tempo	orary 🗖 Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Bottled drinking water	- Chromium	In - house method : TS-CH-1870
(cont.)		0.003 mg/L to 0.1 mg/L	based on Standard Methods for the
		- Copper	Examination of Water and Wastewater,
		0.05 mg/L to 1.0 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,
		- Iron	part 3120 B
		0.05 mg/L to 1.0 mg/L	
		- Lead	
		0.003 mg/L to 0.1 mg/L	
		- Manganese	
		0.003 mg/L to 0.1 mg/L	
		- Silver	
		0.003 mg/L to 0.1 mg/L	
		- Zinc	
		0.05 mg/L to 1.0 mg/L	

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Scope of Testing Laboratory Accreditation

☐ Temporary

☐ Mobile

☐ Site

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

: **☑** Permanent

Accreditation Number : Testing - 0220

Laboratory Status

Test Material / Test Item / Test Method / Item Product Number Range of Testing Technique Used In - house method: TS-CH-1870 Bottled drinking water - Arsenic (cont.) 0.001 mg/L to 0.05 mg/L based on Standard Methods for the Examination of Water and Wastewater, - Selenium APHA, AWWA & WEF, 23rd ed., 2017. 0.003 mg/L to 0.05 mg/L part 3120 B, 3114 C In - house method: TS-CH-1884 - Mercury 0.001 mg/L to 0.010 mg/L based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3112 B - pH Standard Methods for the Examination 4.0 to 9.0 of Water and Wastewater, APHA,

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AWWA & WEF, 23rd ed., 2017.

part 4500-H⁺ B

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laboratory Status : f Z Permanent $f \Box$ Site $f \Box$ Temporary $f \Box$ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Bottled drinking water	- Color	Standard Methods for the Examination
(cont.)		5 Pt-Co to 20 Pt-Co	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 2120 C
		- Turbidity	Standard Methods for the Examination
		0.2 NTU to 10 NTU	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 2130 B
		- Total hardness	Standard Methods for the Examination
		(Calculated as CaCO ₃)	of Water and Wastewater, APHA,
		4 mg/L to 200 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2340 C

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laboratory Status : f Z Permanent $f \Box$ Site $f \Box$ Temporary $f \Box$ Mobile

ltem	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
1	Bottled drinking water	- Chloride	Standard Methods for the Examination		
(cont.)		5 mg/L to 250 mg/L	of Water and Wastewater, APHA,		
			AWWA & WEF, 23 rd ed., 2017,		
			part 4500-Cl B		
		- Sulfate	Standard Methods for the Examination		
		5 mg/L to 100 mg/L	of Water and Wastewater, APHA,		
			AWWA & WEF, 23 rd ed., 2017,		
			part 4500-SO ₄ ²⁻ E		
		- Nitrate	Standard Methods for the Examination		
		0.20 mg/L to 4.0 mg/L	of Water and Wastewater, APHA,		
			AWWA & WEF, 23 rd ed., 2017,		
			part 4500-NO ₃ B		

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Scope of Testing Laboratory Accreditation

☐ Temporary

☐ Mobile

Test Method /

☐ Site

Test Item /

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

: **☑** Permanent

- E.coli

MPN/100 mL

Detected or not detected

Accreditation Number : Testing - 0220

Test Material /

Laboratory Status

Item

Product Technique Used Number Range of Testing Bottled drinking water - Fluoride Standard Methods for the Examination (cont.) 0.10 mg/L to 2.00 mg/L of Water and Wastewater, APHA, AWWA & WEF. 23rd ed., 2017. part 4500-F D - Coliforms Standard Methods for the Examination MPN/100 mL of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017. part 9221 B, C

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Standard Methods for the Examination

of Water and Wastewater, APHA,

AWWA & WEF, 23rd ed., 2017.

part 9221 B, C, F

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Scope of Testing Laboratory Accreditation

☐ Temporary

☐ Mobile

part 2540 C

☐ Site

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

: **☑** Permanent

Accreditation Number : Testing - 0220

Laboratory Status

Test Material / Test Item / Test Method / Item Product Number Range of Testing Technique Used In - house method: TS-MI-1823 Bottled drinking water - Staphylococcus aureus (cont.) Detected or not detected based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017. part 9213 B ISO 19250: 2010 - Salmonella spp. Detected or not detected 2 - Total dissolved solids Standard Methods for the Examination Water dried at 180 °C of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, 20 mg/L to 1 500 mg/L

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Issue Number 2

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Scope of Testing Laboratory Accreditation

☐ Temporary

☐ Mobile

☐ Site

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

: **☑** Permanent

Accreditation Number : Testing - 0220

Laboratory Status

Test Material / Test Item / Test Method / Item Product Technique Used Number Range of Testing - Total solids Standard Methods for the Examination Water dried at 103 °C to 105 °C (cont.) of Water and Wastewater, APHA, AWWA & WEF. 23rd ed., 2017. 20 mg/L to 1 500 mg/L part 2540 B - Aluminium In - house method: TS-CH-1870 0.05 mg/L to 1.0 mg/L based on Standard Methods for the - Barium Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017. 0.003 mg/L to 0.1 mg/L - Cadmium part 3120 B 0.001 mg/L to 0.1 mg/L - Chromium 0.003 mg/L to 0.1 mg/L - Copper

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0.05 mg/L to 1.0 mg/L

0.05 mg/L to 1.0 mg/L

- Iron

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Scope of Testing Laboratory Accreditation

☐ Temporary

☐ Mobile

In - house method : TS-CH-1870

based on Standard Methods for the

APHA, AWWA & WEF, 23rd ed., 2017,

part 3120 B, 3114 C

Examination of Water and Wastewater,

Test Method /

☐ Site

- Arsenic

- Selenium

0.001 mg/L to 0.05 mg/L

0.003 mg/L to 0.05 mg/L

Test Item /

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

: **☑** Permanent

Accreditation Number : Testing - 0220

Test Material /

Laboratory Status

Item

Product Number Range of Testing Technique Used In - house method: TS-CH-1870 Water - Lead (cont.) 0.003 mg/L to 0.1 mg/L based on Standard Methods for the Examination of Water and Wastewater, - Manganese APHA, AWWA & WEF, 23rd ed., 2017. 0.003 mg/L to 0.1 mg/L - Silver part 3120 B 0.003 mg/L to 0.1 mg/L - Zinc 0.05 mg/L to 1.0 mg/L

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Water	- Mercury	In - house method : TS-CH-1884
(cont.)		0.001 mg/L to 0.010 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3112 B
		- pH	Standard Methods for the Examination
		4.0 to 9.0	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-H ⁺ B
		- Color	Standard Methods for the Examination
		5 Pt-Co to 20 Pt-Co	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 2120 C

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Issue Number 2

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laboratory Status : lackimes Permanent lackimes Site lackimes Temporary lackimes Mobile

Laborator	y Status . 🖾 Tellila	inent L site L rempt	orary — Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Water	- Turbidity	Standard Methods for the Examination
(cont.)		0.2 NTU to 10 NTU	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 2130 B
		- Total hardness	Standard Methods for the Examination
		(Calculated as CaCO ₃)	of Water and Wastewater, APHA,
		4 mg/L to 200 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2340 C
		- Chloride	Standard Methods for the Examination
		5 mg/L to 250 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-Cl B

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Water	- Sulfate	Standard Methods for the Examination
(cont.)		5 mg/L to 100 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-SO ₄ ²⁻ E
		- Nitrate	Standard Methods for the Examination
		0.20 mg/L to 4.0 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-NO ₃ B
		- Fluoride	Standard Methods for the Examination
		0.10 mg/L to 2.00 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-F D

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Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Water	- Coliforms	Standard Methods for the Examination
(cont.)		MPN/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 9221 B, C
		- E.coli	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected	AWWA & WEF, 23 rd ed., 2017,
			part 9221 B, C, F
		- Staphylococcus aureus	In - house method : TS-MI-1823
		Detected or not detected	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 9213 B

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Issue Number 2

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Water	- Salmonella spp.	ISO 19250 : 2010
(cont.)		Detected or not detected	
3	Ice	- Total dissolved solids	Standard Methods for the Examination
		dried at 180 °C	of Water and Wastewater, APHA,
		20 mg/L to 1 500 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 C
		- Total solids	Standard Methods for the Examination
		dried at 103 °C to 105 °C	of Water and Wastewater, APHA,
		20 mg/L to 1 500 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 B
		- Aluminium	In - house method : TS-CH-1870
		0.05 mg/L to 1.0 mg/L	based on Standard Methods for the
		- Barium	Examination of Water and Wastewater,
		0.003 mg/L to 0.1 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3120 B

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Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	lce	- Cadmium	In - house method : TS-CH-1870
(cont.)		0.001 mg/L to 0.1 mg/L	based on Standard Methods for the
		- Chromium	Examination of Water and Wastewater,
		0.003 mg/L to 0.1 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,
		- Copper	part 3120 B
		0.05 mg/L to 1.0 mg/L	
		- Iron	
		0.05 mg/L to 1.0 mg/L	
		- Lead	
		0.003 mg/L to 0.1 mg/L	
		- Manganese	
		0.003 mg/L to 0.1 mg/L	
		- Silver	
		0.003 mg/L to 0.1 mg/L	
		- Zinc	
		0.05 mg/L to 1.0 mg/L	

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Issue Number 2

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laboratory Status
: ✓ Permanent
☐ Site
☐ Temporary
☐ Mobile

Item
Test Material /
Test Item /
Test Method

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	lce	- Arsenic	In - house method : TS-CH-1870
(cont.)		0.001 mg/L to 0.05 mg/L	based on Standard Methods for the
		- Selenium	Examination of Water and Wastewater,
		0.003 mg/L to 0.05 mg/L	APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3120 B, 3114 C
		- Mercury	In - house method : TS-CH-1884
		0.001 mg/L to 0.010 mg/L	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 3112 B
		- pH	Standard Methods for the Examination
		4.0 to 9.0	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-H ⁺ B

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laboratory Status : lackimes Permanent \Box Site \Box Temporary \Box Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	lce	- Color	Standard Methods for the Examination
(cont.)		5 Pt-Co to 20 Pt-Co	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 2120 C
		- Turbidity	Standard Methods for the Examination
		0.2 NTU to 10 NTU	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 2130 B
		- Total hardness	Standard Methods for the Examination
		(Calculated as CaCO ₃)	of Water and Wastewater, APHA,
		4 mg/L to 200 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2340 C

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laboratory Status : lackimes Permanent lackimes Site lackimes Temporary lackimes Mobile

Site Site Site Site Site Site Site Site					
Item	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
3	Ice	- Chloride	Standard Methods for the Examination		
(cont.)		5 mg/L to 250 mg/L	of Water and Wastewater, APHA,		
			AWWA & WEF, 23 rd ed., 2017,		
			part 4500-Cl ⁻ B		
		- Sulfate	Standard Methods for the Examination		
		5 mg/L to 100 mg/L	of Water and Wastewater, APHA,		
			AWWA & WEF, 23 rd ed., 2017,		
			part 4500-SO ₄ ²⁻ E		
		- Nitrate	Standard Methods for the Examination		
		0.20 mg/L to 4.0 mg/L	of Water and Wastewater, APHA,		
			AWWA & WEF, 23 rd ed., 2017,		
			part 4500-NO ₃ B		

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Scope of Testing Laboratory Accreditation

☐ Temporary

☐ Mobile

Test Method /

☐ Site

Test Item /

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

: **☑** Permanent

- E.coli

MPN/100 mL

Detected or not detected

Accreditation Number : Testing - 0220

Test Material /

Laboratory Status

Item

Product Technique Used Number Range of Testing - Fluoride Standard Methods for the Examination Ice (cont.) 0.10 mg/L to 2.00 mg/L of Water and Wastewater, APHA, AWWA & WEF. 23rd ed., 2017. part 4500-F D - Coliforms Standard Methods for the Examination MPN/100 mL of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017. part 9221 B, C

Initial Issue Date 6th February 2020

Issue Number 2

Standard Methods for the Examination

of Water and Wastewater, APHA,

AWWA & WEF, 23rd ed., 2017,

part 9221 B, C, F

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laboratory Status : $f \square$ Permanent $f \square$ Site $f \square$ Temporary $f \square$ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	lce	- Staphylococcus aureus	In - house method : TS-MI-1823
(cont.)		Detected or not detected	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 9213 B
		- Salmonella spp.	ISO 19250 : 2010
		Detected or not detected	
4	Wastewater	- Total dissolved solids	Standard Methods for the Examination
		dried at 180 °C	of Water and Wastewater, APHA,
		50 mg/L to 3 000 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 C

Initial Issue Date 6th February 2020

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Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,

Bangkok 10250

Accreditation Number : Testing - 0220

Laboratory Status : lackimes Permanent \Box Site \Box Temporary \Box Mobile

ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
4	Wastewater	- Total suspended solids	Standard Methods for the Examination
(cont.)		dried at 103 ℃ to 105 ℃	of Water and Wastewater, APHA,
		10 mg/L to 1 500 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 D
		- COD	Standard Methods for the Examination
		20 mg/L to 600 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 5220 D
		- pH	In - house method : TS-CH-1865
		4.0 to 9.0	based on Standard Methods for the
		4.0 (0).0	
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 4500-H [†] B

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