

ภาคผนวก ค

- สำเนาใบรับรองมาตรฐาน ISO/IEC 17025/2017
 - สำเนาใบรับรองมาตรฐาน ISO 9001/2015
-



Ref No. : 0303/17005

CERTIFICATE OF TESTING LABORATORY ACCREDITATION

This is to certify that

SGS (Thailand) Limited, Laboratory Services
10, 10/1-4 and 12 Soi Rama III S.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

has successfully undergone assessment according to ISO/IEC 17025 : 2017
 and under the Bureau of Laboratory Accreditation, Department of Science Service
 for the requirements, regulations and criteria for the competence of testing laboratories

LABORATORY ACCREDITATION
 Accreditation Number TESTING - 0017
 BLA-DSS

The scope of accreditation is as annexed hereto

Issue date : 7th November 2022

Expired date : 6th November 2026

Signature : 

Director of Bureau of Laboratory Accreditation

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

Scope of Laboratory Accreditation

Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III S.59,
 Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1	Water	- Cadmium 0.002 mg/L to 0.1 mg/L - Copper 0.01 mg/L to 1.0 mg/L - Lead 0.01 mg/L to 1.0 mg/L - Manganese 0.1 mg/L to 4.0 mg/L - Nickel 0.01 mg/L to 1.0 mg/L - Zinc 0.01 mg/L to 1.0 mg/L - Arsenic 0.002 mg/L to 0.008 mg/L	In - house method : LBEN-05119 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3030 F In - house method : LBEN-05119 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3114 C

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Antimony 0.63 µg/L to 12.5 µg/L - Arsenic 0.63 µg/L to 6.25 µg/L - Cadmium 0.63 µg/L to 6.25 µg/L - Chromium 0.63 µg/L to 12.5 µg/L - Cobalt 1.25 µg/L to 62.5 µg/L - Copper 0.63 µg/L to 6.25 µg/L - Lead 0.63 µg/L to 6.25 µg/L - Manganese 0.63 µg/L to 6.25 µg/L	In - house method : LBEN-14004 based on United States Environmental Protection Agency, 2014, EPA Method 6020B, Revision 2

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1 (cont.)	Water	- Nickel 0.63 µg/L to 6.25 µg/L - Silver 2.5 µg/L to 62.5 µg/L - Zinc 2.5 µg/L to 62.5 µg/L - Mercury 0.5 µg/L to 8.0 µg/L - Hexavalent chromium 1.0 µg/L to 6.25 µg/L	In - house method : LBEN-14004 based on United States Environmental Protection Agency, 2014, EPA Method 6020B, Revision 2 In - house method : LBEN-08145 based on United States Environmental Protection Agency, 1994, EPA Method 245.1, Revision 3.0 ISO 18412 : 2005

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1 (cont.)	Water	<p>- pH 6.0 to 10.0</p> <p>- Ammonia - Nitrogen 0.10 mg/L to 10.0 mg/L</p> <p>- Total phosphorus 0.10 mg/L to 10.0 mg/L</p>	<p>In - house method : LBEN-09152 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H⁺ B</p> <p>In-house method : LBEN-19003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - NH₃-F</p> <p>In - house method : LBEN-19002 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-P J</p>

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1 (cont.)	Water	<p>- Oil and Gresce 0.50 mg/L to 100.0 mg/L</p> <p>- Color 0.10 m⁻¹ to 10.00 m⁻¹</p> <p>- Phenol 0.001 mg/L to 0.10 mg/L</p> <p>- Cyanide 0.01 mg/L to 0.50 mg/L</p>	<p>In - house method : LBEN-18005 based on United States Environmental Protection Agency, 2010, EPA, Method 1664, Revision B</p> <p>ISO 7887 : 2011, method B</p> <p>In - house method : LBEN-15007 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 B, C</p> <p>In - house method : LBEN-97018 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN⁻ C, E</p>

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1 (cont.)	Water	- Navy Blue 1.0 mg/L to 7.5 mg/L Azo colorants - Aniline - n-Methylaniline - p-Toluidine - o-Toluidine - m-Toluidine - n-Ethylaniline - 2-Chloroaniline - 2,4-Xylidine - 2,6-Xylidine 0.10 µg/L to 3.00 µg/L	In - house method : LBLC-19004 based on United States Environmental Protection Agency, 2007, EPA Method 8321 B In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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1 (cont.)	Water	Azo colorants - o-Anisidine - 4-Chloroaniline - n,n-diethylaniline - p-Cresidine - 2,4,5-Trimethylaniline - 4-Chloro-o-toluidine - 2,4-Toluenediamine - 2,4-Diaminoanisole - 2-Naphtylamine - 5-Nitro-o-toluidine - 5-Nitro-o-anisidine - 4-Aminobiphenyl - 4-Aminoazobenzene - 4,4'-Oxydianiline 0.10 µg/L to 3.00 µg/L	In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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1 (cont.)	Water	Azo colorants - Benzidine - 4,4'-Thiodianiline - o-Aminoazotoluene - 3,3'-Dimethyl-4,4'-diaminodiphenylmethane - 3,3'-Dimethylbenzidine - 4,4'-Thiodianiline - 3,3'-Dichlorobenzidine - 4,4'-Methylene-bis- (2-chloro aniline) - 3,3'-Dimethoxybenzidine 0.10 µg/L to 3.00 µg/L	In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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1 (cont.)	Water	Organotin Compounds - Trimethyltin(TMT) - Dimethyltin(DMT) - Dipropyltin-dichloride(DProT) - Monobutyltin(MBT) - Tripropyltin(TPrT) - Dibutyltin(DBT) - Tributyltin(TBT) - Monooctyltin(MOT) - Tetraethyltin(TeBT) - Diphenyltin(DPhT) - Dioctyltin(DOT) - Triphenyltin(TPhT) - Tri-cyclohexyltin(TCyT) - Tri-n-octyltin(TOT) 0.05 µg/L to 2.0 µg/L	In - house method : SOP LBGC-18006 based on ISO 17353 : 2004

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Polycyclic Aromatic Hydrocarbons (PAHs) - Naphthalene - 2-Methylphtalene - 1-Methylphtalene - Acenaphthylene - Acenaphthene - Fluorene - Phenanthrene - Anthracene - Fluoranthene - Pyrene - Cyclopenta (c,d) pyrene - Benzo(a) Anthracene - Chrysene 0.01 µg/L to 2.0 µg/L	In - house method : SOP LBGC-18008 based on DIN 38407-39 : 2011

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1 (cont.)	Water	Polycyclic Aromatic Hydrocarbons (PAHs) - Benzo (b) Fluoranthene - Benzo (j) Fluoranthene - Benzo (k) Fluoranthene - Benzo (e) pyrene - Benzo (a) pyrene - Indenol (1,2,3-cd) pyrene - Dibenzo (ah) anthracene - Benzo (ghi) perylene 0.01 µg/L to 2.0 µg/L	In - house method : SOP LBGC-18008 based on DIN 38407-39 : 2011

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1 (cont.)	Water	Chlorophenol - 4-Chloro-3-methylphenol - 2-Chlorophenol - 3-Chlorophenol - 4-Chlorophenol - 2,4-Dichlorophenol - 2,5-Dichlorophenol - 2,6-Dichlorophenol - 3,5-Dichlorophenol - 2,3-Dichlorophenol - 3,4-Dichlorophenol - Pentachlorophenol - 2,3,4,6-Tetrachlorophenol 0.5 µg/L to 20.0 µg/L	In - house method : SOP LBGC-18003 based on ISO 17070 : 2015

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1 (cont.)	Water	Chlorophenol - 2,4,5-Trichlorophenol - 2,4,6-Trichlorophenol - 2,3,4-Trichlorophenol - 2,3,5-Trichlorophenol - 3,4,5-Trichlorophenol - 2,3,4,5-Tetrachlorophenol - 2,3,5,6-Tetrachlorophenol - 2,3,6-Trichlorophenol 0.5 µg/L to 20.0 µg/L Phthalates - Dimethyl phthalate - Diethyl phthalate - Di-iso-buthyl phthalate - Benzyl buthyl phthalate 5 µg/L to 30 µg/L	In - house method : SOP LBGC-18003 based on ISO 17070 : 2015 In - house method : SOP LBGC-18007 based on ISO 18856 : 2004

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1 (cont.)	Water	Phthalates - Di-butyl phthalate - Di-2-ethyl hexyl phthalate - Di-isononyl phthalate - Bis-methylglycol ester phthalate - Di-isoheptyl phthalate - Bis cyclohexyl phthalate - Di-n-octyl phthalate - Bis-(2-propylheptyl) phthalate - Bis-nonyl phthalate - Bis-propyl phthalate - Bis-iso-pentyl phthalate - n-pentyl-iso-pentyl phthalate - Bis-n-pentyl phthalate - Di-n-hexyl phthalate - Bis-iso-octyl phthalate - Di-isodecyl phthalate 5 µg/L to 30 µg/L	In - house method : SOP LBGC-18007 based on ISO 18856 : 2004

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Volatile Organic Compound - Methylene Chloride - Benzene - 1,2-Dichloroethane - Trichloroethylene - Tetrachloroethylene - Total Xylene 5 µg/L to 20 µg/L - p- Cresol - o- Cresol - m- Cresol 5 µg/L to 25 µg/L	In - house method : SOP LBGC-18009 based on United States Environmental Protection Agency, 1996, EPA, Method 8260B, Revision 2.0 In - house method : SOP LBGC-18010 based on United States Environmental Protection Agency, 1996, EPA, Method 8260 B, Revision 2.0

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Perfluorocarbons (PFCs) : - 6:2 FTOH - 8:2 FTOH - 10:2 FTOH - 6:2 FTA - 8:2 FTA - 10:2 FTA 5 µg/L to 25 µg/L Flame retardants - 2,2-bis(bromomethyl)-1,3-propane-diol - Tris (2-chloroethyl) phosphate - Tris (1,3-dichloro-isopropyl) phosphate - Hexabromocyclododecane 5.0 µg/L to 25.0 µg/L	In - house method : LBEGC-18011 based on GB/T 29493.2 : 2013 In - house method : LBGC-18005 based on United States Environmental Protection Agency, 2005, EPA, Method 527, Revision 1.0

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1 (cont.)	Water	Flame retardants - Polybrominated biphenyls ethers - Polybrominated diphenyl ethers 0.25 µg/L to 1.5 µg/L Disperse dyes - Basic violet 1 - Basic violet 3 - Disperse Blue 1 - Disperse Blue 7 - Disperse Brown 1 - Disperse Orange 1 - Disperse Orange 3 - Disperse Orange 11 - Disperse Orange 37/76 - Disperse Red 1 10.0 µg/L to 50.0 µg/L	In - house method : LBGC-18005 based on United States Environmental Protection Agency, 2005, EPA, Method 527, Revision 1.0 In - house method : LBLC-18002 based on Journal of Chromatographic Science 2015, 53 : page 1257-1264

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1 (cont.)	Water	Disperse dyes - Disperse Violet 1 - Disperse Yellow 1 - Disperse Yellow 9 - Disperse Yellow 39 - Disperse Yellow 54 - Solvent Yellow 1 - Solvent Yellow 2 - Solvent Yellow 3 - Solvent Yellow 14 10.0 µg/L to 50.0 µg/L	In - house method : LBLC-18002 based on Journal of Chromatographic Science 2015, 53 : page 1257-1264

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1 (cont.)	Water	Flame retardant - Tris (2,3-dibromopropyl) phosphate - Bis (2,3-dibromopropyl) phosphate 1.00 µg/L to 4.00 µg/L - Glycol 20 µg/L to 100 µg/L	In - house method : LBLC-18001 based on ISO 18857-2 : 2009 In - house method : LBGC-18012 based on United States Environmental Protection Agency, 2014, EPA, Method 600/R-14/008

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1 (cont.)	Water	- Conductivity 147 µS/cm to 12 880 µS/cm - Total solids dried at 103 °C to 105 °C 50 mg/L to 20 000 mg/L - Total suspended solids dried at 103 °C to 105 °C 5 mg/L to 10 000 mg/L	In - house method : LBEN-02110 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2510 B In - house method : LBEN-09150 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 B In - house method : LBEN-97042 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 D

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Total dissolved solids dried at 180 °C 50 mg/L to 20 000 mg/L - Total hardness (calculates as CaCO ₃) 1 mg/L to 300 mg/L - BOD 2 mg/L to 2 100 mg/L	In - house method : LBEN-00106 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C In - house method : LBEN-00098 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2340 C In - house method : LBEN-97006 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5210 B

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1 (cont.)	Water	- COD 10 mg/L to 300 mg/L	In - house method : LBEN-97010 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 C
		- COD 10 mg/L to 400 mg/L	In - house method : LBEN-12161 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 D
		- pH 4.0 to 9.2	In - house method : LBEN-21001 based on United States Environmental Protection Agency, Editorial Revision 1978, 1982, EPA Method 150.1

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Nitrate 0.02 mg/L to 6.0 mg/L	In - house method : LBEN-97029 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NO ₃ ⁻ E
		- Nitrite 0.02 mg/L to 1.0 mg/L	In - house method : LBEN-97049 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NO ₂ ⁻ B
		- Sulfate 2.0 mg/L to 100.0 mg/L	In - house method : LBEN-14003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - SO ₄ ²⁻ E

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1 (cont.)	Water	- Total organic carbon 0.5 mg/L to 10.0 mg/L Perfluorocarbons (PFCs) : - PFPeA - PFBS - PFHxS - PFHpS - PF-3,7-DMOA - PFDA - PFOS - PFUnA - PFDoA - PFDS 0.05 µg/L to 0.3 µg/L	In - house method : LBEN-09149 based on United States Environmental Protection Agency, 2004, EPA Method 9060 A, Revision 1.0 In - house method : LBLC-17014 based on DIN 38407-42 : 2011-03 and analysis with HPLC-MS

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Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III S.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Perfluorocarbons (PFCs) : - PFTrA - PFTeA - PFOSA 0.05 µg/L to 0.3 µg/L Alkyl phenol ethoxylate : - OPEO - NPEO 1 µg/L to 10 µg/L Chlorobenzenes and Chlorotoluenes (COCs) : - Chlorobenzene - 2-Chlorotoluene - 3-Chlorotoluene - 4-Chlorotoluene 0.20 µg/L to 5.00 µg/L	In - house method : LBLC-17014 based on DIN 38407-42 : 2011-03 and analysis with HPLC-MS In - house method : LBLC-17013 based on ISO 18857-2 : 2009 and analysis with HPLC-MS In - house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA Method 8270

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Chlorobenzenes and Chlorotoluenes (COCs) : - 1,3-Dichlorobenzene - 1,4-Dichlorobenzene - 1,2-Dichlorobenzene - 3,5-Dichlorotoluene - 2,4-Dichlorotoluene - 2,5 Dichlorotoluene - 2,6-Dichlorotoluene - 1,3,5-Trichlorobenzene - 2,3-Dichlorotoluene - 3,4-Dichlorotoluene - 1,2,4-Trichlorobenzene - 1,2,3-Trichlorobenzene 0.20 µg/L to 5.00 µg/L	In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA Method 8270

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Chlorobenzenes and Chlorotoluenes (COCs) : - 2,4,6-Trichlorotoluene - 2,4,5 -Trichlorotoluene - 2,3,6-Trichlorotoluene - 1,2,3,5-Tetrachlorobenzene - 3,4,5-Trichlorotoluene - 1,2,4,5-Tetrachlorobenzene - 2,3,4-Trichlorotoluene - 1,2,3,4-Tetrachlorobenzene - 2,3,4,6-Tetrachlorotoluene - 2,3,5,6-Tetrachlorotoluene - 2,3,4,5-Tetrachlorotoluene - Pentachlorobenzene - 2,3,4,5,6-Pentachlorotoluene - Hexachlorobenzene 0.20 µg/L to 5.00 µg/L	In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA Method 8270

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	Alkylphenol (AP) : - Nonylphenol (NP) - 4-n-Nonyl phenol (4-n-NP) - 4-n-Octylphenol (4-n-OP) - Octylphenol (4-tert-OP) 1.0 µg/L to 10.0 µg/L - Carbon disulfide 0.05 mg/L to 1 mg/L	In – house method : LBLC-17013 based on ISO 18857-2: 2009 In – house method : LBGC-2007 based on United States Environmental Protection Agency, 2017, EPA Method 8260D

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2	Wastewater	- Mercury 0.5 µg/L to 8.0 µg/L - pH 4.0 to 10.0 - Total solids dried at 103 °C to 105 °C 50 mg/L to 20 000 mg/L	In - house method : LBEN-08145 based on United States Environmental Protection Agency, 1994, EPA Method 245.1, Revision 3.0 In - house method : LBEN-09152 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - H ⁺ B In - house method : LBEN-09150 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 B

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Total suspended solids dried at 103 °C to 105 °C 5 mg/L to 10 000 mg/L - Total dissolved solids dried at 180 °C 50 mg/L to 20 000 mg/L - Conductivity 147 µS/cm to 12 880 µS/cm	In - house method : LBEN-97042 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 D In - house method : LBEN-00106 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C In - house method : LBEN-02110 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2510 B

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Total hardness (calculates as CaCO ₃) 2 mg/L to 500 mg/L - BOD 2 mg/L to 2 100 mg/L - COD 10 mg/L to 3 000 mg/L	In - house method : LBEN-00098 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2340 C In - house method : LBEN-97006 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5210 B In - house method : LBEN-97010 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 C

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- COD 10 mg/L to 500 mg/L	In - house method : LBEN-12161 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 D
		- pH 4.0 to 9.2	In - house method : LBEN-21001 based on United States Environmental Protection Agency, Editorial Revision 1978, 1982, EPA Method 150.1
		- Nitrate 0.02 mg/L to 15.0 mg/L	In - house method : LBEN-97029 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NO ₃ ⁻ E

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Nitrite 0.02 mg/L to 1.0 mg/L	In - house method : LBEN-97049 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NO ₂ ⁻ B
		- Sulfate 2.0 mg/L to 100.0 mg/L	In - house method : LBEN-14003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - SO ₄ ²⁻ E
		- Total organic carbon 0.5 mg/L to 10.0 mg/L	In - house method : LBEN-09149 based on United States Environmental Protection Agency, 2004, EPA Method 9060 A, Revision 1.0

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Ammonia-Nitrogen 0.02 mg/L to 20 mg/L	In - house method : LBEN-11158 based on ASTM D1426-08
		- Total phosphorus 0.01 mg/L to 40 mg/L	In - house method : LBEN-97037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - P B4, E
		- Dissolved phosphorus 0.005 mg/L to 20 mg/L	In - house method : LBEN-97037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - P B1, E

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Glycol 20 µg/L to 200 µg/L	In - house method : LBGC-18012 based on United States Environmental Protection Agency, 2014, EPA, Method 600/R-14/008
		- Ammonia-Nitrogen 0.10 mg/L to 10.0 mg/L	In - house method : LBEN-19003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - NH ₃ -F
		- Total phosphorus 0.10 mg/L to 10.0 mg/L	In - house method : LBEN -19002 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-P J

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Chloride 1.0 mg/L to 20 000 mg/L - Navy Blue 1.0 mg/L to 7.5 mg/L	In - house method : LBEN-11157 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-Cl ⁻ D In - house method : LBLC-19004 based on United States Environmental Protection Agency, 2007, EPA, Method 8321B

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Perfluorocarbons (PFCs) : - PFPeA - PFBS - PFHxS - PFHpS - PF-3,7-DMOA - PFDA - PFOS - PFUnA - PFDoA - PFDS - PFTrA - PFTeA - PFOSA 0.05 µg/L to 0.3 µg/L	In - house method : LBLC-17014 based on DIN 38407-42 : 2011-03 and analysis with HPLC-MS

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Alkyl phenol ethoxylate : - OPEO - NPEO 1 µg/L to 10 µg/L - Phenol 0.001 mg/L to 0.1 mg/L - Cyanide 0.05 mg/L to 0.2 mg/L	In – house method : LBLC-17013 based on ISO 18857-2 : 2009 and analysis with HPLC-MS In – house method : LBEN-15007 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed.,2017, part 5530 B, C In – house method : LBEN-97018 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed.,2017, part 4500 - CN ⁻ C, E

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Oil and Grease 1 mg/L to 100 mg/L - Oil and Grease 0.5 mg/L to 100 mg/L - Sulfide 0.01 mg/L to 1.0 mg/L	In – house method : LBEN-97031 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed.,2017, part 5520 B In - house method : LBEN-18005 based on United States Environmental Protection Agency, 2010, EPA, Method 1664, Revision B In – house method : LBEN-97045 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed.,2017, part 4500-S ²⁻ -D

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Sulfite 0.75 mg/L to 3.0 mg/L - Total kjeldahl nitrogen 2 mg/L to 200 mg/L - Color 0.10 m ⁻¹ to 10.00 m ⁻¹	In - house method : LBEN-18006 based on United States Environmental Protection Agency, 1978, EPA, Method 377.1 In - house method : LBAG-18002 based on ISO 5663 : 1984 ISO 7887 : 2011, Method B

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2 (cont.)	Wastewater	- Arsenic 0.63 µg/L to 6.25 µg/L - Lead 0.63 µg/L to 6.25 µg/L - Cadmium 0.63 µg/L to 6.25 µg/L - Copper 0.63 µg/L to 6.25 µg/L - Manganese 0.63 µg/L to 6.25 µg/L - Nickel 0.63 µg/L to 6.25 µg/L - Zinc 2.5 µg/L to 62.5 µg/L - Silver 2.5 µg/L to 62.5 µg/L	In - house method : LBEN-14004 based on United States Environmental Protection Agency, 2014, EPA, Method 6020B, Revision 2

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Chromium 0.63 µg/L to 12.5 µg/L - Antimony 0.63 µg/L to 12.5 µg/L - Cobalt 1.25 µg/L to 62.5 µg/L - Hexavalent chromium 1.0 µg/L to 5.0 µg/L Flame retardant - Tris (2,3-dibromopropyl) phosphate - Bis (2,3-dibromopropyl) phosphate - 2,2 Bis (bromomethyl)-1,3-propanediol 1.00 µg/L to 4.00 µg/L	In - house method : LBEN-14004 based on United States Environmental Protection Agency, 2014, EPA, Method 6020B, Revision 2 ISO 18412 : 2005 In - house method : LBLC-18001 based on ISO 18857-2 : 2009

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Disperse dyes - Disperse Blue 1 - Disperse Blue 7 - Disperse Brown 1 - Disperse Orange 1 - Disperse Orange 3 - Disperse Orange 11 - Disperse Orange 37/76 - Disperse Red 1 - Disperse Yellow 1 - Disperse Yellow 9 - Disperse Yellow 39 - Basic violet 3 - Solvent Yellow 1 - Solvent Yellow 2 - Solvent Yellow 3 10.0 µg/L to 50.0 µg/L	In - house method : LBLC-18002 based on Journal of Chromatographic Science 2015,53 : page 1257-1264

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2 (cont.)	Wastewater	Disperse dyes - Basic violet 1 - Solvent Yellow 14 - Disperse Yellow 54 - Disperse Violet 1 10.0 µg/L to 50.0 µg/L Azo colorants - Aniline - n-Methylaniline - p-Toluidine - o-Toluidine - m-Toluidine - n-Ethylaniline - 2-Chloroaniline - 2,4-Xylidine 2,6-Xylidine 0.5 µg/L to 3.0 µg/L	In - house method : LBLC-18002 based on Journal of Chromatographic Science 2015,53 : page 1257-1264 In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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2 (cont.)	Wastewater	Azo colorants - o-Anisidine - 4-Chloroaniline - n,n-diethylaniline - p-Cresidine - 2,4,5-Trimethylaniline - 4-Chloro-o-toluidine - 2,4-Toluenediamine - 2,4-Diaminoanisole - 2-Naphtylamine - 5-Nitro-o-toluidine - 5-Nitro-o-anisidine - 4-Aminobiphenyl - 4-Aminoazobenzene - 4,4'-Oxydianiline - Benzidine 0.5 µg/L to 3.0 µg/L	In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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2 (cont.)	Wastewater	Azo colorants - 4,4'-Thiodianiline - o-Aminoazotoluene - 3,3'-Dimethyl-4,4'-diaminodiphenylmethane - 3,3'-Dimethylbenzidine - 4,4'-Thiodianiline - 3,3'-Dichlorobenzidine - 4,4'-Methylenebis (2-Chloroaniline) - 3,3'-Dimethoxybenzidine 0.5 µg/L to 3.0 µg/L	In - house method : SOP LBGC-18004 based on ISO 14362-1 : 2017

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2 (cont.)	Wastewater	Flame retardants - 2,2-bis(bromomethyl)-1,3-propane-diol - Tris (2-chloroethyl) phosphate - Tris (1,3-dichloro-isopropyl) phosphate - Hexabromocyclododecane 5 µg/L to 25 µg/L - Polybrominated biphenyls ether - polybrominated diphenyl ethers 0.25 µg/L to 1.5 µg/L	In - house method : LBGC-18005 based on United States Environmental Protection Agency, 2005, EPA, Method 527, Revision 1.0

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2 (cont.)	Wastewater	Organotin compounds - Trimethyltin(TMT) - Dimethyltin(DMT) - Dipropyltin-dichloride(DProT) - Monobutyltin(MBT) - Tripropyltin(TPrT) - Dibutyltin(DBT) - Tributyltin(TBT) - Monooctyltin(MOT) - Tetraethyltin(TeBT) - Diphenyltin(DPhT) - Dioctyltin(DOT) - Triphenyltin(TPhT) - Tri-cyclohexyltin(TCyT) - Tri-n-octyltin(TOT) 0.05 µg/L to 1.0 µg/L	In - house method : SOP LBGC-18006 based on ISO 17353 : 2004

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2 (cont.)	Wastewater	Polycyclic Aromatic Hydrocarbons (PAH) - Naphthalene - 2-Methylphtalene - 1-Methylphtalene - Acenaphthylene - Acenaphthene - Fluorene - Phenanthrene - Anthracene - Fluoranthene - Pyrene - Cyclopenta (c,d) pyrene - Benzo(a) Anthracene - Chrysene 1.0 µg/L to 20.0 µg/L	In - house method : LBGC-18008 based on DIN 38407-39 : 2011

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Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III S.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Polycyclic Aromatic Hydrocarbons (PAH) - Benzo(b) Fluoranthene - Benzo(j) Fluoranthene - Benzo(k) Fluoranthene - Benzo(e) Pyrene - Benzo(a) Pyrene - Indenol(1,2,3-cd) Pyrene - Dibenzo (ah) Anthracene - Benzo (ghi) perylene 1.0 µg/L to 20.0 µg/L	In - house method : LBGC-18008 based on DIN 38407-39 : 2011

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Chlorophenol - 4-Chloro-3-methylphenol - 2-Chlorophenol - 3-Chlorophenol - 4-Chlorophenol - 2,4-Dichlorophenol - 2,5-Dichlorophenol - 2,6-Dichlorophenol - 3,5-Dichlorophenol - 2,3-Dichlorophenol - 3,4-Dichlorophenol - Pentachlorophenol - 2,3,4,6-Tetrachlorophenol - 2,4,5-Trichlorophenol - 2,4,6-Trichlorophenol - 2,3,4-Trichlorophenol 0.5 µg/L to 20.0 µg/L	In - house method : SOP LBGC-18003 based on ISO 17070 : 2015

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Phthalates - Di-isoheptyl phthalate - Bis cyclohexyl phthalate - Di-n-octyl phthalate - Bis-(2-propylheptyl) phthalate - Bis-nonyl phthalate - Bis-propyl phthalate - Bis-iso-pentyl phthalate - n-pentyl-iso-pentyl phthalate - Bis-n-pentyl phthalate - Di-n-hexyl phthalate - Bis-iso-octyl phthalate - Di-isodecyl phthalate 5 µg/L to 30 µg/L	In - house method : LBGC-18007 based on ISO 18856 : 2004

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Volatile organic compounds - Methylene Chloride - Benzene - 1,2-Dichloroethane - Trichloroethylene - Tetrachloroethylene - Total Xylene 5 µg/L to 20 µg/L - p- Cresol - o- Cresol - m- Cresol 5 µg/L to 25 µg/L	In - house method : SOP LBGC-18009 based on United States Environmental Protection Agency, 1996, EPA, Method 8260B, Revision 2.0 In - house method : LBGC-18010 based on United States Environmental Protection Agency, 1996, EPA, Method 8260B, Revision 2.0

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Perfluorocarbons (PFCs) : - 6:2 FTOH - 8:2 FTOH - 10:2 FTOH - 6:2 FTA - 8:2 FTA - 10:2 FTA 5 µg/L to 25 µg/L Chlorobenzenes and Chlorotoluenes (COCs) : - Chlorobenzene - 2-Chlorotoluene - 3-Chlorotoluene - 4-Chlorotoluene 0.20 µg/L to 5.00 µg/L	In - house method : LBGC-18011 based on DIN 38407-42 : 2011 In - house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA Method 8270

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Chlorobenzenes and Chlorotoluenes (COCs) : - 1,3-Dichlorobenzene - 1,4-Dichlorobenzene - 1,2-Dichlorobenzene - 3,5-Dichlorotoluene - 2,4-Dichlorotoluene - 2,5 Dichlorotoluene - 2,6-Dichlorotoluene - 1,3,5-Trichlorobenzene - 2,3-Dichlorotoluene - 3,4-Dichlorotoluene - 1,2,4-Trichlorobenzene - 1,2,3-Trichlorobenzene - 2,4,6-Trichlorotoluene - 2,4,5 -Trichlorotoluene 0.20 µg/L to 5.00 µg/L	In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA Method 8270

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Chlorobenzenes and Chlorotoluenes (COCs) : - 1,2,3,5-Tetrachlorobenzene - 3,4,5-Trichlorotoluene - 1,2,4,5-Tetrachlorobenzene - 2,3,4-Trichlorotoluene - 1,2,3,4-Tetrachlorobenzene - 2,3,4,6-Tetrachlorotoluene - 2,3,5,6-Tetrachlorotoluene - 2,3,4,5-Tetrachlorotoluene - Pentachlorobenzene - 2,3,4,5,6-Pentachlorotoluene - Hexachlorobenzene 0.20 µg/L to 5.00 µg/L	In – house method : LBGC-21010 based on United States Environmental Protection Agency, 2014, EPA Method 8270

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	Alkylphenol (AP) : - Nonylphenol (NP) - 4-n-Nonyl phenol (4-n-NP) - 4-n-Octylphenol (4-n-OP) - Octylphenol (4-tert-OP) 1.0 µg/L to 10.0 µg/L - Carbon disulfide 0.05 mg/L to 1 mg/L - Hydrocarbon 1.0 mg/L to 50 mg/L	In - house method : LBLC-17013 based on ISO 18857-2: 2009 In - house method : LBGC-20007 based on United States Environmental Protection Agency, 2017, EPA Method 8260D In - house method : LBEN 21002 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220B, 5520F

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Coliforms MPN/100 mL Detected or Not detected/ 100 mL - Coliforms cfu/100 mL - <i>E.coli</i> MPN/100 mL Detected or Not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed, 2017, part 9221 B ISO 9308 -1: 2014 / Amd.1: 2016 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed, 2017, part 9221B, 9221C, 9221F and FDA BAM Online, 2020 (Chapter 4)

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
3	Surface water	- Ammonia-Nitrogen 0.02 mg/L to 20 mg/L - Chloride 1 mg/L to 20 000 mg/L - Total phosphorus 0.01 mg/L to 40 mg/L	In - house method : LBEN-11158 based on ASTM D1426-08 In - house method : LBEN-11157 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - Cl ⁻ D In - house method : LBEN-97037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - P B4, E

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
3 (cont.)	Surface water	- Dissolved phosphorus 0.005 mg/L to 20 mg/L	In - house method : LBEN-97037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500 - P B1, E
4	Sludge	- Mercury 0.1 mg/kg to 4.0 mg/kg - Hexavalent chromium 1.0 mg/kg to 40.0 mg/kg	In - house method : LBEN-18008 based on United States Environmental Protection Agency, 2007, EPA, Method 7473, Revision 0 In - house method : LBEN 18003 based on United States Environmental Protection Agency, 1992, EPA, Method 7196A, Revision 1

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
4 (cont.)	Sludge	- Arsenic 0.50 mg/kg to 5.00 mg/kg - Cadmium 0.50 mg/kg to 5.00 mg/kg - Lead 0.50 mg/kg to 5.00 mg/kg - Zinc 1.00 mg/kg to 5.00 mg/kg - Nickel 1.00 mg/kg to 5.00 mg/kg - Copper 1.00 mg/kg to 5.00 mg/kg	In - house method : LBEN 18007 based on United States Environmental Protection Agency, 2014, EPA, Method 6020B, Revision 2

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4 (cont.)	Sludge	- Cadmium 10 mg/kg to 1 000 mg/kg - Lead 10 mg/kg to 1 000 mg/kg - Cyanide 0.50 mg/kg to 10.0 mg/kg	In - house method : LBEN 18007 based on United States Environmental Protection Agency, 2007, EPA Method 6010C, Revision 3 In - house method : SOP LBEN-19001 based on ISO 11262 : 2011
5	Sludge Waste	Chlorophenol : - 4-Chloro-3-methylphenol - 2-Chlorophenol - 3-Chlorophenol - 4-Chlorophenol 0.05 mg/kg to 1.00 mg/kg	In - house method SOP LBGC-20004 based on ISO 14154 : 2005

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Chlorophenol : - 2,3-Dichlorophenol - 2,4-Dichlorophenol - 2,5-Dichlorophenol - 2,6-Dichlorophenol - 3,4-Dichlorophenol - 3,5-Dichlorophenol - Pentachlorophenol - 2,3,4-Trichlorophenol - 2,3,5-Trichlorophenol - 2,3,6-Trichlorophenol - 2,4,5-Trichlorophenol - 2,4,6-Trichlorophenol - 3,4,5-Trichlorophenol 0.05 mg/kg to 1.00 mg/kg	In - house method SOP LBGC-20004 based on ISO 14154 : 2005

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Chlorophenol : - 2,3,4,5-Tetrachlorophenol - 2,3,4,6-Tetrachlorophenol - 2,3,5,6-Tetrachlorophenol 0.05 mg/kg to 1.00 mg/kg Polycyclic Aromatic Hydrocarbons (PAHs) : - Naphthalene - 2-Methylphtalene - 1-Methylphtalene - Acenaphthylene - Acenaphthene - Fluorene - Phenanthrene 0.0025 mg/kg to 0.1 mg/kg	In - house method SOP LBGC-20004 based on ISO 14154 : 2005 In - house method : SOP LBGC-20005 based on DIN 38407-39 : 2011

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Polycyclic Aromatic Hydrocarbons (PAHs) : - Anthracene - Fluoranthene - Pyrene - Cyclopenta (c,d) pyrene - Benzo(a) anthracene - Chrysene - Benzo(k) fluoranthene - Benzo(b) fluoranthene - Benzo(j) fluoranthene - Benzo(e) pyrene - Benzo(a) pyrene - Indenol(1,2,3-cd) pyrene - Dibenzo (ah) anthracene - Benzo (ghi) perylene 0.0025 mg/kg to 0.1 mg/kg	In - house method : SOP LBGC-20005 based on DIN 38407-39:2011

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Glycol : - 2-Methoxyethanol - 2-Ethoxyethyl acetate - Bis(2-methoxyethyl)ether - 2-Ethoxyethanol - 2-Methoxypropylacetate - 2-Methoxyethylacetate - Triethylene glycol dimethyl ether - Ethylene glycol dimethyl ether 0.50 mg/kg to 5.00 mg/kg Organotin Compounds : - Trimethyltin (TMT) - Dimethyltin (DMT) - Monomethyltin(MMT) - Dipropyltin-dichloride (DProT) 0.50 mg/kg to 2.00 mg/kg	In - house method : SOP LBGC-20006 based on ISO 22892:2006 In - house method : SOP LBGC-21011 based on ISO 23161:2018

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Organotin Compounds : - Monobutyltin (MBT) - Tripropyltin (TPrT) - Dibutyltin (DBT) - Monophenyltin (MPhT) - Tributyltin (TBT) - Mono-octyltin (MOT) - Tetra-butyltin (TeBT) - Diphenyltin (DPhT) - Dioctyltin (DOT) - Tri-cyclohexyltin (TCyT) - Triphenyltin (TPhT) - Tri-n-octyltin (TOT) 0.50 mg/kg to 2.00 mg/kg	In - house method : SOP LBGC-21011 based on ISO 23161:2018

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Disperse dyes : - Acid Violet 49 - Basic Blue 26 - Basic Green 4 - Basic Red 9 - Basic Violet 1 - Basic Violet 3 - Disperse Blue 1 - Disperse Blue 3 - Disperse Blue 7 - Disperse Blue 106 - Disperse Yellow 1 - Disperse Yellow 3 - Disperse Yellow 9 - Disperse Red 17 - Solvent Yellow 1 - Solvent Yellow 3 1.00 mg/kg to 4.00 mg/kg	In - house method : SOP LBGC-21006 based on ISO 16373-3: 2014

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Chlorobenzenes and Chlorotoluenes (COCs) : - Chlorobenzene - 2-Chlorotoluene - 3-Chlorotoluene - 4-Chlorotoluene - 1,3-Dichlorobenzene - 1,4-Dichlorobenzene - 1,2-Dichlorobenzene - 2,4-Dichlorotoluene - 2,5-Dichlorotoluene - 2,6-Dichlorotoluene - 1,3,5-Trichlorobenzene - 2,3-Dichlorotoluene - 3,4-Dichlorotoluene 0.025 mg/kg to 0.50 mg/kg	In - house method : LBGC-21014 based on United States Environmental Protection Agency, 2014, EPA Method 8270D

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Chlorobenzenes and Chlorotoluenes (COCs) : - 1,2,4-Trichlorobenzene - 1,2,3-Trichlorobenzene - 2,4,6-Trichlorotoluene - 2,4,5 -Trichlorotoluene - 2,3,6-Trichlorotoluene - 1,2,3,5-Tetrachlorobenzene - 3,4,5-Trichlorotoluene - 1,2,4,5-Tetrachlorobenzene - 2,3,4-Tetrachlorotoluene - 1,2,3,4-Tetrachlorobenzene - 2,3,4,6-Tetrachlorotoluene - 2,3,5,6-Tetrachlorotoluene - 2,3,4,5-Tetrachlorotoluene 0.025 mg/kg to 0.50 mg/kg	In - house method : LBGC-21014 based on United States Environmental Protection Agency, 2014, EPA Method 8270D

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Chlorobenzenes and Chlorotoluenes (COCs) : - Pentachlorobenzene - 2,3,4,5,6-Pentachlorotoluene - Hexachlorobenzene 0.025 mg/kg to 0.50 mg/kg Azo dyes : - Aniline (62-53-3) - n-methylaniline (100-61-8) - p-Toluidine (106-49-0) - o-Toluidine (95-53-4) - m-Toluidine (108-44-1) - n-ethylaniline (103-69-5) - 2-Chloroaniline (95-51-2) 0.20 mg/kg to 1.50 mg/kg	In - house method : LBGC-21014 based on United States Environmental Protection Agency, 2014, EPA Method 8270D In - house method : LBGC-21019 based on ISO 14362-1 and 3: 2017

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Azo dyes : - 2,4-Xylidine (95-68-1) - 2,6-Xylidine (87-62-7) - o-Anisidine (90-04-0) - 4-Chloroaniline (106-47-8) - n,n-Diethylaniline (91-66-7) - p-Cresidine (120-71-8) - 2,4,5 -Trimethylaniline (137-17-7) - 4-Chloro-o-toluidine (95-69-2) - 2,4-Toluenediamine (95-80-7) - 2,4 -Diaminoanisoole (615-05-4) - 2-Naphtylamine (91-59-8) - 3,3'-dimethybenzidine (119-90-4) - 3,3'-dimethybenzidine (119-93-7) 0.20 mg/kg to 1.50 mg/kg	In - house method : LBGC-21019 based on ISO 14362-1 and 3: 2017

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Azo dyes : - 4,4'-Thiodianiline (139-65-1) - 3,3'-Dichlorobenzidine (91-94-1) - 4,4'-Methylene bis(2-chloroaniline) (101-14-4) - 4-Aminobipheny (92-67-1) - 4,4'-Oxydianiline (101-80-4) - Benzidine (92-87-5) - 4,4'-Thiodianiline (101-77-9) - 3,3'-Dimethy- 4,4'-diaminodiphenylmethane (838-88-0) 0.20 mg/kg to 1.50 mg/kg	In - house method : LBGC-21019 based on ISO 14362-1 and 3: 2017

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Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Perfluorinated/Polyfluorinated (PFCs) : - 1H,1H,2H,2H-Tridecafluoro-1-n-octanol (6:2 FTOH) - 1H,1H,2H,2H-Heptadecafluoro-1-decanol (8:2 FTOH) - 1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) - 1H,1H,2H,2H-Perfluorooctyl acrylate (6:2 FTA) - 1H,1H,2H,2H-Heptadecafluorodecyl Acrylate (8:2 FTA) - 1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA) 0.25 mg/kg to 1.5 mg/kg	In - house method : LBGC-21023 based on DIN 38407-42: 2011

Initial Issue Date 22nd June 2007

Issue Number 13

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

Scope of Laboratory Accreditation

Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III 5.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Perfluorinated/Polyfluorinated (PFCs) : - PFOA - PFOS - PFBS - PFHXA 0.025 mg/kg to 0.15 mg/kg Flame retardant : - Tris(2-chloroethyl) phosphate (TCEP) - Tris(1,3-dichloro-isopropyl) phosphate (TDCP) - Hexabromocyclododecane (HBCDD) - Tri-o-cresyl phosphate(TOCP) - Tris-(aziridiny)phosphine oxide (TEPA) - Polybromobiphenyls (PBB) - Polybromobiphenyls ether (PBDE) 0.25 mg/kg to 0.75 mg/kg	In - house method : LBLC-17014 based on DIN 38407-42: 2011 In - house method : LBGC-21020 based on ISO 22032: 2006

Initial Issue Date 22nd June 2007

Issue Number 13

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

Scope of Laboratory Accreditation

Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III 5.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Flame retardant : - Tris(2,3-dibromopropyl) phosphate - Bis(2,3-dibromopropyl) phosphate - 2,2-Bis(bromomethyl)-1,3-propanediol 0.5 mg/kg to 2 mg/kg Alkylphenol (AP) : - Nonylphenol (NP) - 4-n-Nonyl phenol (4-n-NP) - 4-n-Octylphenol (4-n-OP) - Octylphenol (4-tert-OP) 0.5 mg/kg to 5 mg/kg Alkylphenol Ethoxylates (APEOs) : - Nonylphenol ethoxylates (NPEO) - Octylphenol ethoxylates (OPEO) 0.1 mg/kg to 2 mg/kg	In - house method : LBLC-18001 based on ISO 22032: 2006 In - house method : LBLC-17013 based on ISO 18857-2: 2009 In - house method : LBLC-17013 based on ISO 18857-2: 2009

Initial Issue Date 22nd June 2007

Issue Number 13

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

Scope of Laboratory Accreditation

Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III S.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Volatile Organic compound (Halogenated solvent) : - Methylene chloride - Benzene - 1,2-Dichloroethane - Trichloroethylene - tetrachloroethylene - p,m Xylene - o-xylene 0.02 mg/kg to 0.20 mg/kg	In - house method : LBGC-21024 based on United States Environmental Protection Agency, 2014, EPA Method 5021

Initial Issue Date 22nd June 2007

Issue Number 13

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

Scope of Laboratory Accreditation

Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III S.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Phthalates : - Dimethyl phthalate (DMP) - Bis-iso-butyl ester Phthalate (DIBP) - Di-butyl Phthalate (DBP) - Benzyl Butyl Phthalate (BBP) - Di-2-Ethyl Hexyl Phthalate (DEHP) - Di-n-octyl Phthalate (DNOP) - Bis-ethyl phthalate (DEP) - Bis-methylglycol ester Phthalate (DMEP) - Bis-iso-pentyl ester Phthalate (DiPP) - n-Pentyl-iso-Pentyl phthalate (iPnPP) - Bis-n-pentyl ester Phthalate (DnPP) - Di-n-hexyl Phthalate (DnHP/DnHxP) - Bis-cyclohexyl phthalate (DCHP) - Bis-(2-Propylheptyl) phthalate (DPHP) 0.05 mg/kg to 1.5 mg/kg	In - house method : LBGC-21021 based on ISO 18856: 2004

Initial Issue Date 22nd June 2007

Issue Number 13

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

Scope of Laboratory Accreditation

Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III S.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Phthalates : - Bis-propyl phthalate (DPrP) - Bis-n-heptyl phthalate (DHpP/DnHpP) - Bis-phenylphthalate(DIPHENYL/ DPhP) - Bis-benzyl phthalate (DBzP) - Bis-nonyl phthalate (DNP) - Didecyl Phthalate (DDP) - Diundecyl phthalate(DUDP) 0.05 mg/kg to 1.5 mg/kg - Diisononyl Phthalate (DINP) - Diisodecyl Phthalate (DIDP) - Dihexyl Phthalate (DHP) - Bis-iso-octyl phthalate (DIOP) - Diisoheptyl phthalate (DIHP/DIHpP) 0.20 mg/kg to 6.0 mg/kg	In - house method : LBGC-21021 based on ISO 18856: 2004

Initial Issue Date 22nd June 2007

Issue Number 13

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

Scope of Laboratory Accreditation

Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III S.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sludge Waste	Volatile Organic compound (Cresol) : - o-cresol - m-cresol - p-cresol 0.25 mg/kg to 1.5 mg/kg	In - house method : LBGC-21022 based on United States Environmental Protection Agency, 2017, EPA Method 8260D
6	Chemical fertilizer	- Water soluble potassium (Calculated as K ₂ O) 1.0 g/100 g to 60.4 g/100 g - Total Nitrogen 1.0 g/100 g to 46.5 g/100 g	In - house method : SOP LBCH-99246 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.12.02 In - house method : SOP LBAG-12276 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.05.01

Initial Issue Date 22nd June 2007

Issue Number 13

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

Scope of Laboratory Accreditation

Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III S.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
6 (cont.)	Chemical fertilizer	- Total phosphorus (Calculated P_2O_5) 2.00 g/100 g to 61.68 g/100 g - Calcium oxide (Calculated from total calcium) 0.02 g/100 g to 51.8 g/100 g - Magnesium oxide (Calculated from total magnesium) 0.02 g/100 g to 81.04 g/100 g	In - house method : SOP LBAG-00106 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.09.01 In - house method : SOP LBCH-16010 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.13.01 In - house method : SOP LBCH-16010 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.14.01

Initial Issue Date 22nd June 2007

Issue Number 13

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

Scope of Laboratory Accreditation

Laboratory Name : SGS (Thailand) Limited, Laboratory Services

Address : 10, 10/1-4 and 12 Soi Rama III S.59,
Chong Nonsi, Yan Nawa, Bangkok 10120

Accreditation Number : Testing - 0017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
6 (cont.)	Chemical fertilizer	- Total sulfur 0.02 g/100 g to 32.76 g/100 g	In - house method : SOP LBCH-16010 based on Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.15.01

Issue Date : 7th November 2022

Signature :



Director of Bureau of Laboratory Accreditation

Initial Issue Date 22nd June 2007

Issue Number 13

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



แบบ กมช./สมอ.๒
Form NSC/TSI 2

ใบรับรองเลขที่ 23-LB0119
(Certificate No.)

ใบรับรองระบบงาน

(Certificate of Accreditation)

อาศัยอำนาจตามความในพระราชบัญญัติการมาตรฐานแห่งชาติ พ.ศ. ๒๕๕๑
(By Virtue of National Standardization Act B.E. 2551 (2008))

เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม
(Secretary-General, Thai Industrial Standards Institute)

ออกใบรับรองฉบับนี้ให้

(Issues this certificate to)

บริษัท เอสจีเอส (ประเทศไทย) จำกัด ห้องปฏิบัติการทดสอบสิ่งแวดล้อม (สาขาระยอง)
(SGS (Thailand) Limited, Environmental Laboratory (Rayong Branch))

ตั้งอยู่เลขที่

(Address)

๑/๒๐๙ และ ๑/๒๑๑ หมู่ที่ ๑ ตำบลบ้านฉาง อำเภอบ้านฉาง จังหวัดระยอง
1/209 and 1/211 Moo 1, Ban Chang, Ban Chang, Rayong

ได้รับการรับรองความสามารถ

(Certificate of competence)

ตามมาตรฐานเลขที่ มอก. ๑๗๐๒๕ - ๒๕๖๑
(Standard No. TIS 17025-2561 (2018) (ISO/IEC 17025: 2017))

ข้อกำหนดทั่วไปเกี่ยวกับความสามารถของ ห้องปฏิบัติการทดสอบและห้องปฏิบัติการสอบเทียบ
General requirements for the competence of testing and calibration laboratories

หมายเลขการรับรองที่ ทดสอบ ๐๔๗๐
(Accreditation No. Testing 0470)

โดยมีรายละเอียดสาขาและขอบข่ายที่ใบรับรอง แสดงไว้ใน QR CODE และ www.tisi.go.th
(Details of the scheme and scope of the certificate are shown in QR CODE and www.tisi.go.th)

ออกให้ ณ วันที่ ๒๐ กุมภาพันธ์ พ.ศ. ๒๕๖๖
(Issue date : 20 February B.E. 2566 (2023))



รองเลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม
ปฏิบัติราชการแทน
เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม



กระทรวงอุตสาหกรรม สำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม
(Ministry of Industry Thailand, Thai Industrial Standards Institute)



รายละเอียดสาขาและขอบข่ายใบรับรองห้องปฏิบัติการ
(Scope of Accreditation for Testing)
ใบรับรองเลขที่ 23-LB0119
(Certification No. 23-LB0119)



ชื่อห้องปฏิบัติการ
(Laboratory Name)

บริษัท เอสจีเอส (ประเทศไทย) จำกัด ห้องปฏิบัติการทดสอบสิ่งแวดล้อม (สาขาระยอง)
(SGS (Thailand) Limited, Environmental Laboratory (Rayong Branch))

หมายเลขการรับรองที่
(Accreditation No.)

ทดสอบ 0470
(Testing 0470)

ฉบับที่ 02
(Issue No.)

ออกให้ตั้งแต่วันที่ 19 ธันวาคม พ.ศ. 2565
(Valid from) (19 December B.E. 2565 (2022))

ถึงวันที่ 10 พฤศจิกายน พ.ศ. 2570
(Until) (10 November B.E. 2570 (2027))

สถานภาพห้องปฏิบัติการ
(Laboratory status)

☒ถาวร (Permanent) ☐นอกสถานที่ (Site) ☐ชั่วคราว (Temporary)

☐เคลื่อนที่ (Mobile) ☐หลายสถานที่ (Multisite)

สาขาการทดสอบ (Field of Testing)	รายการทดสอบ (Parameter)	วิธีทดสอบ (Test Method)
สาขาสังแวดล้อม (Environmental field) น้ำและน้ำเสีย (water and wastewater)	- Arsenic (As) 0.01 mg/L to 0.50 mg/L - Barium (Ba) 0.01 mg/L to 10 mg/L - Cadmium (Cd) 0.002 mg/L to 10 mg/L - Chromium (Cr) 0.01 mg/L to 10 mg/L - Copper (Cu) 0.01 mg/L to 10 mg/L - Iron (Fe) 0.02 mg/L to 10 mg/L - Lead (Pb) 0.01 mg/L to 10 mg/L - Manganese (Mn) 0.01 mg/L to 5 mg/L - Nickel (Ni) 0.004 mg/L to 10 mg/L - Selenium (Se) 0.01 mg/L to 0.50 mg/L - Silver (Ag) 0.01 mg/L to 10 mg/L - Zinc (Zn) 0.02 mg/L to 10 mg/L	- Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23 rd edition, 2017, part 3120 B and part 3030 K

กระทรวงอุตสาหกรรม สำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม
(Ministry of Industry, Thai Industrial Standards Institute)

หน้าที่ 1/3

รายละเอียดสาขาและขอบข่ายใบรับรองห้องปฏิบัติการ

(Scope of Accreditation for Testing)

ใบรับรองเลขที่ 23-LB0119

(Certification No. 23-LB0119)



ฉบับที่ 02
(Issue No.)

ออกให้ตั้งแต่วันที่ 19 ธันวาคม พ.ศ. 2565
(Valid from) (19 December B.E. 2565 (2022))

ถึงวันที่ 10 พฤศจิกายน พ.ศ. 2570
(Until) (10 November B.E. 2570 (2027))

สถานภาพห้องปฏิบัติการ ☒ถาวร ☐นอกสถานที่ ☐ชั่วคราว
(Laboratory status) (Permanent) (Site) (Temporary)

☐เคลื่อนที่ ☐หลายสถานที่
(Mobile) (Multisite)

สาขาการทดสอบ (Field of Testing)	รายการทดสอบ (Parameter)	วิธีทดสอบ (Test Method)
สาขาสังแวดล้อม (Environmental field) น้ำและน้ำเสีย (ต่อ) (Water and wastewater) ((Cont.))	<ul style="list-style-type: none"> - Biochemical oxygen demand (BOD) 2 mg/L to 5 000 mg/L - Chemical oxygen demand (COD) 40 mg/L to 10 000 mg/L - Chloride (Cl⁻) 1 mg/L to 10 000 mg/L - Chromium hexavalent (Cr(VI)) 0.01 mg/L to 2.00 mg/L - Oil and grease 2 mg/L to 100 mg/L - pH 2.0 to 10.0 - Phenol 0.01 mg/L to 1.00 mg/L 	<ul style="list-style-type: none"> - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 5210 B and part 4500-O G - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 5220 C - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 4500-Cl⁻ D - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 3500-Cr B - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 5520 B - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 4500-H⁺ B - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 5530 D

รายละเอียดสาขาและขอบข่ายใบรับรองห้องปฏิบัติการ

(Scope of Accreditation for Testing)

ใบรับรองเลขที่ 23-LB0119

(Certification No. 23-LB0119)



ฉบับที่ 02
(Issue No.)

ออกให้ตั้งแต่วันที่ 19 ธันวาคม พ.ศ. 2565
(Valid from) (19 December B.E. 2565 (2022))

ถึงวันที่ 10 พฤศจิกายน พ.ศ. 2570
(Until) (10 November B.E. 2570 (2027))

สถานภาพห้องปฏิบัติการ ☒ถาวร ☐นอกสถานที่ ☐ชั่วคราว
(Laboratory status) (Permanent) (Site) (Temporary)

☐เคลื่อนที่ ☐หลายสถานที่
(Mobile) (Multisite)

สาขาการทดสอบ (Field of Testing)	รายการทดสอบ (Parameter)	วิธีทดสอบ (Test Method)
สาขาสังแวดล้อม (Environmental field) น้ำและน้ำเสีย (ต่อ) (Water and wastewater) ((Cont.))	<ul style="list-style-type: none"> - Sulfate (SO₄²⁻) 1 mg/L to 40 mg/L - Total hardness 1 mg/L to 1 000 mg/L (expressed as CaCO₃) - Total solids (TS) 2.5 mg/L to 10 000 mg/L - Total dissolved solids (TDS) 2.5 mg/L to 20 000 mg/L - Total suspended solids (TSS) 2.5 mg/L to 10 000 mg/L 	<ul style="list-style-type: none"> - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 4500-SO₄²⁻ E - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 2340 C - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 2540 B - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 2540 C - ENWA-10243 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 2540 C (dried at 103 - 105 °C) - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition, 2017, part 2540 D

ABS Quality Evaluations

Certificate Of Conformance

This is to certify that the Quality Management System of:

SGS (Thailand) Ltd.
100 Nanglinchee Road
Chongnonsee, Yannawa
Bangkok 10120
Thailand

(WITH ADDITIONAL FACILITIES LISTED ON ATTACHED ANNEX)

has been assessed by ABS Quality Evaluations, Inc. and found to be in conformance with the requirements set forth by:

ISO 9001:2015

The Quality Management System is applicable to:

PROVISION OF PHYSICAL INSPECTION, FUMIGATION, PEST CONTROL AND LABORATORY TESTING AND CALIBRATION

This certificate may be found on the ABS QE Website (www.abs-qe.com). For certificates issued in the People's Republic of China information may also be verified on the CNCA website (www.cnca.gov.cn).

Certificate No: 52229
Certification Date: 30 July 2015
Effective Date: 14 July 2023
Expiration Date: 24 July 2026
Revision Date: 20 July 2023



Validity of this certificate is based on the successful completion of the periodic surveillance audits of the management system defined by the above scope and is contingent upon prompt, written notification to ABS Quality Evaluations, Inc. of significant changes to the management system or components thereof.

ABS Quality Evaluations, Inc. 1701 City Plaza Drive, Spring, TX 77389, U.S.A.

Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.

ABS Quality Evaluations

ISO 9001:2015 Certificate Of Conformance ANNEX

Certificate No: 52229

SGS (Thailand) Ltd.

At Below Facilities:

Facility: 100 Nanglinchee Road, Chongnonsee, Yannawa,
Bangkok 10120
Thailand

Activity: Management of QMS, Inspection Service

Facility: Rayong Branch
1/209 and 1/211 Moo 1 T. Ban Chang,
A. Ban Chang,
Rayong 21130
Thailand
Activity: Inspection & Testing.

Facility: Sriracha Office
144, 146 Sriracha Nakorn 1 Road,
T. Sriracha, A. Sriracha,
Chonburi 20110
Thailand
Activity: Inspection, Fumigation & Pest Control.

Facility: Nakornratchasima Office
1340/46 Suranarai Road., T. Nai-Muang,
A. Muang Nakornratchasima,
30000
Thailand
Activity: Inspection & Fumigation.

Facility: Hat Yai Branch
57, 59 and 61 Soi 10 Phetkasem Road,
T. Hat Yai, A. Hat Yai,
Songkhla 90110
Thailand
Activity: Inspection, Fumigation, Pest Control & Testing.

Facility: Rama III Branch, Laboratory Services
10,10/1-4, 12 Rama III Road, Soi 59,
Chongnonsee, Yannawa,
Bangkok 10120
Thailand
Activity: Testing



Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.

ABS Quality Evaluations

ISO 9001:2015

Certificate Of Conformance

ANNEX

Certificate No: 52229

SGS (Thailand) Ltd.

At Below Facilities:

Facility: SGS (Cambodia) Limited
No.1076 A-D, Street 371, Phum Trea II, Sangkat Steung Meanchey,
Khan Meanchey, Phnom Penh,

Activity: Cambodia
Inspection.

Facility: Rama III Branch - Soft Line & Hard goods Laboratory Services
1025/1 Soi Rama III 61, Rama III Road
Chongnonsee, Yannawa
Bangkok 10120

Activity: Thailand
Testing



Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.