

NO: SAMM 742

Page: 1 of 22

LABORATORY LOCATION/ CENTRAL OFFICE:	EnviC Laboratory Sdn. Bhd. 1st Floor, Lot 13193, Sublot 11 &12 Samajaya Commercial Centre Jalan Setia Raja 93350 Kuching, Sarawak , 93350, SARAWAK MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) OF TESTING:	CHEMICAL MICROBIOLOGICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

CENTRAL LOCATION:	EnviC Laboratory Sdn. Bhd. 1st Floor, Lot 13193, Sublot 11 &12 Samajaya Commercial Centre Jalan Setia Raja 93350 Kuching, Sarawak , 93350, Sarawak
FIELD(S) OF TESTING :	CHEMICAL, MICROBIOLOGICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Boiler Water	None	None
	e Aluminium	None
	None	None
	Phenolphthalein Alkalinity as	APHA - 2320B
	Cyanide as Cn	APHA - 4500CN-C8&D or C&F
	None	None
	None	None
	None	None
	None	APHA 9221 F, 22" Edition (2012)
	None	None
	Total Dissolved Solids	APHA 2540 C, 2017
	Acidity	APHA 2310. B

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 2 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Cooling Tower Water	Acidity	APHA 2310. B
	None	None
	None	None
	Metals/Minerals	APHA 3120 B & 3030 F
	None	None
	Total Alkalinity as CaCO ₃	APHA - 2320B
	None	None
	Arsenic as As	USEPA 6010D (ICPOES)
	None	None
	None	None
	Emission Spectroscopy:	None
	Temperature	APHA 2550 B, Edition
	None	None
	None	Edition
	Total Escherichia coli Count	APHA 9221 F (MPN), 24' Edition
	None	None
	None	None
Distilled Demineralized E	None	None
	None	None
Drinking Water	Sulphide,	APHA 4500-S? C & F
	None	None
	None	None
	Chloride	HACH 8113
	Total Plate Count	APHA 9215 B
	None	None
	None	None
	None	None
	None	None
	Calcium	3120 B
	Cyanide	APHA? 4500 & F
	Formaldehyde	APHA? 6252 B
	Phenol	APHA? 5530 B & C
	Hardness	2340B
	Aluminium (Al)	None
	Biochemical Oxygen Demand	APHA 5210 B & 4500-O G,
	Zinc as Zn	APHA 3120 B, (2017)
	None	Multiple-Tube Fermentation
	None	Multiple-Tube Fermentation
	None	None
	None	None
	Temperature	APHA 2550 B
	None	None
	None	None
	Epichlorohydrin	In-house JKM W 0413 by Purge and
	Determination of PAHs in	In-house Method JKM W 0414,
	Organochlorine Pesticides	In-house Method JKM W 0502,
	Determination of Anions by Ion	In-house Method JKM W 0303,

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3004162> for the current scope of accreditation

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 3 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Coliform and Escherichia coli	JKM M 2032
	Turbidity	APHA - 2130B
	Total Nitrogen as N	APHA - 4500Norg B & APHA -
	Oil & Grease	APHA - 5520B or APHA - 5520D
	Antimony as Sb	Plasma Optical Emission
	Antimony as Sb	None
	Selenium as Se	None
	Fluoride as F	Chromatography with Chemical
	Dichlorobromomethane	None
	None	None
	Organophosphorus Pesticides	In-House No. G11 based on EPA
	Organochlorine Pesticides	EPA 525.3 (GCMS)
	Total Hardness as CaCO3	APHA-2340B
	Poly Aromatic Hydrocarbons	In-House No. G5 (based on World
	Polychlorobiphenyls(PCB)	In-House No. G2 based on EPA
	nC29 to nC35	None
	n-Tetracontane	None
	None	Method)
	Sulphite-reducing Anaerobes	ISO 6461/2: 1986
	Aluminium as Al	None
	None	None
	pH	APHA 4500-H + B, 21% Edition
	Trivalent Chromium	In-House Method SOP-0217-2029
	None	None
	Chloride as Cl	Suppression of Eluent Conductivity
	Conductivity	APHA 2510 B, 21% Edition
	Combined Chlorine as Cl2	APHA 4500-Cl G, 21st Edition 2005
	None	None
	Staphylococcus aureus	AOAC OMA 2003.08
	Chlorite (ClO2)	In House Method 6023, based on
	None	None
	None	None
	Mineral Oil	APHA 5520 F
	Fluoride	APHA C
	None	None
	Heterotrophic Plate Count	APHA 9215 D
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	126, based on Thermo Fisher Application Noted 154
	Phenol	APHA 6420C, 24" Edition

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 4 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	In-house method SGS-TM-ENVI-W-
	Organochlorine Pesticide	APHA 6630B, 24" Edition
	Conductivity	APHA 2510 B
	None	Boiling Cell Method
	None	QIAGEN Mericon? Bacteria Kit
	None	spp. by Gel Electrophoresis
	None	monocytogenes by Gel
	None	Real Time Polymerase Chain
	and Escherichia coli count	9222 H
	Coliform and Escherichia coli	Presence/absence Technique
	pH	APHA 4500-H* B
	Colour	APHA 2120B
	Turbidity	APHA 2130B
	Free Chlorine	HACH Method No . 8021
	Ammonia as N	HACH Method No . 8038
	as Fe	HACH Method No . 8008
	Manganese as Mn	HACH Method No . 8149
	Fluoride as F	HACH Method No . 8029
	Aluminium as Al	HACH Method No . 8326
	pH	APHA 4500-H* B
	Colour	APHA 2120B
	Turbidity	APHA 2130B
	Free Chlorine	HACH Method No . 8021
	Ammonia as N	HACH Method No . 8038
	as Fe	HACH Method No . 8008
	Manganese as Mn	HACH Method No . 8149
	Fluoride as F	HACH Method No . 8029
	Aluminium as Al	HACH Method No . 8326
	Total Dissolved Solids	APHA 2540. C
	Total Dissolved Solids	APHA 2540. C
Effluent	Aluminium (Al)	None
	None	None
	None	None
	Total Dissolved Solids	APHA - 2540C
	None	APHA - 4500F-B&C
	Metals:	USEPA Method 6010D; Inductive
	Calcium as Ca	HCl Digestion)
	Sulphate as SO4	None
	Nitrite Nitrogen as N	APHA 4110B
	@ 30 °C for 3 Days	None
	None	None
	None	(by calculation)
	None	based on APHA -" 4500 Norg B, 21%
	pH	APHA 4500-H*B
	Temperature	APHA 2550 A, B
	Oxygen (Dissolved)	APHA 4500-0 G

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 5 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Free Chlorine	HACH Method 8021
	Temperature	APHA 2550 B
	pH	APHA 4500 H*B
	pH	APHA 4500 - H*B
Eggs & Egg Products E Flour & Confectionary E	None	based on The Chemical Analysis of Foods (David Pearson, Edition)
Environmental Monitoring Palm Oil Mill & Rubber Effluent	Biochemical Oxygen Demand 3 days at 30°C	DOE 2019 (Standard Method), Alternative
Fruit Products	None	None
Ground Water	None	None
	Total Suspended Solids (TSS)	APHA 2540 D
	Free Chlorine	HACH 8021, 9 Edition (2014)
	Mercury (Hg)	In-House Method TM/WEP/012 based on Agilent Application Note
	Polynuclear Aromatic	USEPA 3510C
	Pseudomonas aeruginosa	APHA 9213 F
	None	None
	None	None
	None	None
	Tin	3120 B
	Magnesium	3120 B
	None	None
	Bacterial Endotoxins	BP 2018, Vol. XIV C, Method C:
	None	None
	pH	APHA 4500-H+ B
	None	None
	None	None
	Temperature	APHA - 2550B
	Fluoride as F	APHA - 4500F-B&D
	Cadmium as Cd	APHA - 3030 E & F (HNOs or HNOs-
	Barium as Ba	None
	Sodium as Na	None
	Nitrite as NO ₂	None
	Bromoform	None
	Dimethoate	None
	Gamma-lindane	None
	Acenaphthylene	None
	n-Dotriacontane	None
	(Refer Appendix II)	None
	Total Coliform	APHA - 9221B; 2017 (MPN Method)
	None	and APHA 3500 Cr B, Edition
	Acidity	APHA 2310 B, 2017
	None	None
	None	None
	None	None
	Bromate	S-170 & APHA 4110 B

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3004162> for the current scope of accreditation

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 6 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	Color (color units)	APHA 2120 C 2017
	Oil and Grease (Mineral)	APHA 5520 F, 2017
	Metals by Inductively Coupled Plasma	APHA 3120 B
	None	None
	Faecal Coliform	APHA 9222 D
	Lead	None
	None	None
	Endosulfan Hexachlorobenzene	None
	Cobalt	APHA 3120 B, Edition
	(Refer to Appendix 8 for the list of compounds)	Method 8260C: 2006
	BODs at 20°C	APHA 5210 B & G
	None	(Membrane Filtration Method)
	None	None
	None	None
Ground Water E	pH value	APHA 4500-H* B
	Turbidity	APHA 2130 B
	Iron, Fe	In-house Method RLS-TPM-2011
	Silica,	In-house Method RLS-TPM-2013
	Total Viable Microbial Count	ISO 13959: Membrane Filtration
Industrial Influent &	Determination of Metals:	None
Industrial Influent & Effluent	Chloride	APHA 4500-Cl B
Industrial/ Cooling E Purposes	Alkalinity	APHA 2320 B
	Dissolved Oxygen (DO)	APHA 4500-0 G
Leachate	Cadmium (Cd)	None
	None	Liquid Extraction Gas
	None	Ordinate Spectrophotometric Method
	Specific Gravity	ASTM D 891-09
Marine Water	Preliminary Treatment of	APHA 3030 F
	None	None
	Fluoride	HACH 8029
	Semivolatile Organic	USEPA 3510C
	Staphylococcus aureus	APHA 9213 B-7
	None	None
	None	None
	Biochemical Oxygen Demand (BOD)	APHA 5210 B & APHA 4500- 0 G
	None	APHA 2550 B
	Escherichia coli	None
	Organophosphorus Pesticides	In-House No. G11 based on EPA
	None	None
	Salinity	APHA 2520B
	Anthracene	None
	n-Tritriacontane	None
	None	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 7 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	(Membrane Filtration Procedure)
	Cobalt (Co)	None
	Iodide	None
	None	APHA 3120 B, 2017
	Unionised Ammonia	In House Method 0590 adopted
	None	None
	Total Suspended Solids	APHA 2540 D
	Chromium (III)	based on APHA 3120 B, APHA 3125 B and APHA 3500-Cr B (Calculation)
	Copper (Cu)	In-house method SGS-TM-ENVI-003 based on APHA 3125 B
	Cyanide (CN)	APHA 4500-CN C & E, 24" Edition
	Unionized Ammonia (NH3)	In-house method SGS-TM-ENVI-W- 097 based on APHA 4500-NHs F
	Ammoniacal nitrogen (NH3-N).	APHA 4500-NHs F, Edition
	Nitrite (NO2)	APHA 4500-NOz B, 24" Edition
	Nitrate (NO3)	APHA E, 24' Edition
	Ortho-Phosphate (as POs or P)	APHA 4500-P E, Edition
	Total Phosphate (as POs or P)	APHA 4500-P B & E, Edition
	Phenol	APHA 5530 B & C, Edition
	Total Suspended Solids	APHA 2540 D, 24" Edition
	Dissolved Oxygen (In-Situ)	APHA 4500-0 G, Edition
	Temperature (In-Situ)	APHA 2550 B, 24" Edition
	pH	APHA 4500-H* B, Edition
	Colour	APHA 2120 F, 24" Edition
	Paraquat & Diquat	In-house method SGS-TM-ENVI-109 based on EPA 549.2
	Chlorinated Phenoxyacid Compounds - 2,4-D, 2,4,5-TP, 2,4,5-T & Dinoseb	In-house method SGS-TM-ENVI-004 based on EPA 8321 B
	Lead, Pb	None
	Uranium, U	None
	None	In-house method, SGS-TM-MICR-
	Turbidity	APHA 2130 B, 2005
	Free, Combined and Total	In-House Method 0501 based on
	Free, Combined and Total	In House Method 0501 based on
	Salinity	APHA 2520. B
	Salinity	APHA 2520. B
Mineral Water	None	None
	None	None
	None	None
	None	None
	Total Dissolved Solids	APHA! 2540 C
	None	None
	e Barium	None
	None	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 8 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Cadmium (Cd)	None
	None	None
	(VOC as listed in Appendix 3)	Spectrometry
	CaCO ₃	None
	Aluminium as Al	APHA - 3500Al-B
	Chromium as Cr	None
	None	None
	None	digestion
	Total Coliform (100 ml)	APHA - 9222B; 2017
	None	None
	Antimony as Sb	None
	Chromium Hexavalent	APHA 3500-Cr B
	None	None
	None	None
	Hexavalent Chromium	APHA 3500 Cr B, Edition
	Chloride	APHA 4500-Cl B, Edition
	Fluoride as F	Ion Chromatography with Chemical
	None	None
	(Monochloramine and	None
	None	None
	None	None
	Alkalinity	APHA 2320 B, 2017
	Free Carbon Dioxide	APHA 4500-CO ₂ C, 2017
	Sodium (Na)	APHA 3120 B 2017
	None	None
	None	None
	Dieldrin	None
	None	None
	None	None
	None	None
	None	None
	Aluminum as Al	None
Mineral Water Potable & Domestic Processed Water	Biochemical Oxygen Demand (BOD) 5 days at 20°C	APHA 5210 B & 4500-0 G
Others (marine Water)	None	None
Potable & Domestic	Total Suspended Solids	APHA 2540 D
	None	None
	None	8051, 10" edition
	None	8048, 10 Edition
	Quantification of Total Coliform	APHA 9223 B
Potable Water	None	None
	Zinc (2n)	None
	Heterotrophic Plate Count (Pour Plate)	APHA 9215 B (2017)
	Clostridium perfringens	ISO 14189: 2013
	Total Plate Count	In-house method LWM 3 based on

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 9 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Enumeration of Sporulate Sulfite	JKM M 2039, ISO 6461/2:1986 Water
	Bicarbonate Alkalinity as	APHA - 2320B
	Sulphate as	None
	None	None
	None	Based on Merck Chromocult
	Metal Analysis by ICP-OES	None
	None	None
	None	None
	None	None
	None	None
	Mercury (Hg)	In House Method 0556 based on
	None	None
	Chromium	None
	None	None
	None	None
	None	AS/NZS 1766.2.9 ? 1997 of Australian/New Zealand Standard?
Processed Water Recycled Water	Conductivity	APHA 2510 B
Raw Water	None	None
	Biochemical Oxygen Demand	APHA 5210 B, 4500-O G
	Chemical Oxygen Demand	HACH METHOD 8000
	Coliform and Escherichia coli	JKM M-2040, (MPN); APHA
	On-site Sampling	In-house Method -
	Fluoride	HACH Method No 10225
	On-site sampling	In-house Method: LAB/PK/09
	Carbonate Alkalinity as CaCO ₃	APHA - 2320B
	Thionazin	525.3 (GCMS)
	Hexachlorobenzene	None
	Naphthalene	Journal of Chemistry 3 (2): 51-54,
	None	Method)
	None	None
	None	None
	None	None
	Anionic Surfactants as MBAS	APHA 5540 C
	Turbidity	APHA 2130 B
	pH	APHA 4500 - H*B
	Color	HACH Method No. 8025
	Lead as Pb	APHA 3111 B
	Total Solid	APHA 2540 B
	Beryllium as Be	None
Recycled Water Reverse Osmosis Water	None	None
	Magnesium Sodium	None
Reverse Osmosis Water Steam Raising/ Boiler Water	Total Dissolved Solids	In-house method (ENVIC/STP/004/P)
River Water	None	None
	None	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 10 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Colour ADMI	APHA 2120 F
	Fecal Coliform	APHA 9221 E
	Escherichia coli (Membrane Filter Technique)	APHA 9222 G, Edition, 2005
	Nickel (Ni)	None
	5 Days @ 20°C	23°4 Edition (2017)
	Iron (Fe)	None
	Conductivity	APHA 2510 B
	Temperature (in situ)	In House OEL ? SP/23-01 Based On
	Fecal Coliform	APHA 9222 D
	Colour	APHA - 2120B
	Sulphide	APHA - 4500S-F
	Metals:	APHA - 3120B; Inductive Coupled
	Metals:	USEPA 200.8(ICPMS)
	Nickel as Ni	USEPA 200.8(ICPMS)
	Anions:	APHA - 4110 B; Ion
	Trihalomethanes:	APHA - 6200 B (GCMS)
	Phorate	None
	Beta-lindane	None
	Free Carbon Dioxide	APHA-4500CO2-C
	Acenaphthene	None
	Trichlorophenoxypropionic Acid)	University of Technology (HPLC)
	n-Hentriacontane	None
	Heterotrophic Plate Count (35°C)	APHA - 9215B; 2017 (Pour Plate
	None	None
	Uranium (U)	In House Method 0582 based on
	Oil and Grease (Emulsified	APHA 5520 B & F, 2017
	None	None
	Total Phosphorus	USEPA Method 200.7
	Total Phosphate	USEPA Method 200.7
	None	None
	Enumeration of Escherichia coli	APHA 9221 G
	Standard Total Coliform	APHA 9222 B
	Colour (ADMI)	APHA 2120 F, 24" Edition
	Petroleum Hydrocarbon (C6-C10)	In-house method SGS-TM-ENVI-S- 001 (Solvent Extraction / Purge-and- Trap GC-MS)
	None	018 based on APHA 9222 B (Membrane Filtration)
	Sulphite -" Reducing Anaerobes	ISO 6461/2:1986 (Membrane
	Total Coliform Count	APHA 9222 B
	Total Dissolved Solid	APHA 2540 C
	Barium as Ba	None
	None	None
	None	None
Sauces E	None	None
	Total Nitrogen	In-house Method

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 11 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Seabed Sediment	Preliminary Treatment of	USEPA 3050 B
Sewage Water	Phosphorus (as P) &	APHA 4500-P B & E
	Chromium (Cr)	None
	None	Method, Edition, 2005
	5-days Biochemical Oxygen	APHA 5210 B 5-Day BOD Test &
	Biochemical Oxygen Demand	APHA 5210 B
	Nickel (Ni)	None
	Biochemical Oxygen Demand (BOD-5 Days)	APHA 5210 B
	Chemical Oxygen Demand (COD)	APHA 5220 B
	Total Suspended Solid (TSS)	APHA 2540 D
	Total Solid (TS)	APHA 2540 B
	Ammonical Nitrogen (AN)	APHA 4500-NH3C
	Barium, Selenium, Aluminium, Silver	APHA' 3120 B
	Dissolved Oxygen	4500-0 G
	Anionic Surfactants as	5540 C
	Spore of sulfite-reducing	BS EN 26461-2: 1993
Steam Raising/ Boiler Water	Preliminary Treatment of Sample:	APHA 3030 F APHA 3120 B (ICP-OES)
Surface Water Swimming Pool & Spa	HNOs or HNO3-HCl Digestion	
Surface Water	None	None
	pH Value	APHA 4500-H* (APHA Method 21*
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	e Arsenic	None
	None	None
	None	Technique
	None	None
	None	Method Edition (2005)
	Alkalinity	APHA 2320 B Titration Method 21s
	None	Method by Discrete Analyzer
	Caustic Alkalinity as CaCO3	APHA - 2320B
	Barium as Ba	None
	None	(MPN Technique)
	Conductivity	APHA 2510 B, 2017
	Chlorate	Metrohm IC Application, Note No.
	None	Metrohm Technical Note
	Hydrocarbon	APHA 5520 F 2017
	Vanadium (V)	APHA 3120 B, 2017
	Free Carbon Dioxide (by calculation)	APHA 4500 COz D, 2017
	None	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 12 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	APHA 2550 B, 2017
	Chromium, Cr	None
	VOCs	EPA Method 5030B: 1996; EPA
	None	None
	None	None
	None	(Membrane Filter Technique)
	None	None
Surface Water Swimming Pool & Spa	Chemical Oxygen Demand	APHA 5220 C
Swimming Pool Water	None	None
	Nitrite Nitrogen	HACH Method 8507
	Color	APHA 2120 F
	None	None
	None	None
	None	Pour Plate Method
	None	Membrane Filter Method
	Cyanuric Acid	n House TM/W-055 method based on
	Staphylococcus aureus (Membrane	APHA 9212B.6 (2017)
	None	None
	Total Solids	APHA - 2540B
	Metal:	None
	Bromide as Br	None
	Resistivity	In-house Method SOP-0217-2036
	Total Chlorine as Cl ₂	APHA 4500-Cl G, 21st Edition 2005
	Biochemical Oxygen Demand @ 20 °C	APHA 5210 B
	None	None
	None	None
	None	None
	None	None
	None	None
Wastewater	None	None
	Biochemical Oxygen Demand	APHA 5210 B
	Chemical Oxygen Demand	APHA 5220 C
	Ammoniacal Nitrogen	APHA 4500-NH ₃ N (B&F)
	Temperature	APHA 2550 B
	Turbidity	APHA 2130 B
	Dissolved Oxygen	APHA 4500 O-G
	Temperature	APHA 2550B-2017 / Liquid in Glass Thermometer
	pH	APHA 4500H+B-2017 / pH Meter
	Conductivity	APHA 2510B-2017 / Conductivity Meter
	Iron, Fe	None
	None	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 13 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	house test method MKA TM04 by Ion
	None	Chromatography
	Total Phosphorus	HACH Method 8190, 10" Edition, 2017
	pH	APHA 4500 H*B
	BODs	APHA 5210 B
	pH	APHA 4500 H*B Electrometric
	(Continued)	None
	Cadmium (Cd)	None
	Aluminium (Al)	APHA 3111 D. Direct Nitrous-Oxide
	Temperature (On Site)	APHA 2550 B
	None	based on APHA 2510 B, Edition
	Boron	APHA 3125 B, 21st Edition 2005
	pH	None
	Hexavalent Chromium	APHA 3500-Cr B
	Fixed and Volatile Solids	APHA 2540 G
	Digestion	None
	- on Metals	APHA 3030 E
	- on Metals	APHA 3030 F
	Metals Determination by Cold	None
	Vapour	None
	- Mercury	APHA 3112 B
	Cyanide	APHA 4500 CN- C & D
	Cyanide	APHA 4500 CN- C & E
Water	None	None
	None	None
	pH	APHA - B
	Escherichia coli and Coliform	ISO 9308-1:2014 (E) / Enumeration by
	Bisphenol A	In-house test method MKA TMO6 based
	Total Hardness	HACH Method 8226, 8" Edition, 2015
	Hardness by Calculation	APHA 2340 B & In-house test method
	Color	HACH Method 8025, Edition, 2014
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Determination of pH	APHA 4500-H* B, 2005
	Determination of chloride	APHA 4500-Cl B, 2005
	Determination of sulphate	APHA B, 2005

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3004162> for the current scope of accreditation

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 14 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Determination of alkalinity	APHA 2320 B, 2005
	Determination of total solids	APHA 2540 B, 2005
	pH	APHA 4500 H*B
	Color	APHA 2120 C (2017)
	Heterotrophic Plate Count	APHA 9215 B (2017)
	Standard Total Coliform	APHA 9221 B (2017)
	Escherichia coli	APHA 9221 F (2017)
	Examination for Legionella spp.	AS/NZS 3896:2008
	pneumophila	None
	Staphylococcus aureus count	APHA 9213 B (2017)
	Fecal Streptococcus	APHA 9230 C (2017)
	Pseudomonas aeruginosa	APHA 9213 F (2017)
	Identification of Escherichia coli	In-house Method GPS/QA/TM/001
	Identification of Shiga-toxigenic	In-house Method GPS/QA/TM/004
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Ammonia	ASTM D1293
	None	None
	None	None
	None	None
	and Escherichia coli	None
	None	filtration)
	Clostridium perfringens	ISO 14189: 2013 (E)
	None	None
	None	None
	None	None
	None	(2005)
	None	21% Edition (2005)
	Colour	APHA 2120 C 2005
	Determination of Volatile	Method EPA 524.2 By Purge & Trap
	Oxygen Demand (COD) for High	APHA Method 5220D
	None	In-house Method JKM W 0502,
	None	on APHA 4110 B-"lon
	Colony Count at 36°C	JKM M 2038, ISO 6222:1999 (E)
	Intestinal Enterococci	i) WI 16 -" Sample Preparation for
	Enumeration of Clostridium	JKM M 2035

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 15 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Detection of pathogenic	JKM B 0201 Detection of pathogenic
	Identification and Quantification	JKM B 0406
	pH	APHA - 4500-H B
	None	None
	None	None
	None	None
	None	None
	Boron	HACH METHOD 8015
	None	None
	E. coli	APHA 9221 F (MPN Method)
	None	None
	Total Organic Carbon	APHA 5310 C
	Heterotropic plate count	APHA 9215 B, 22"4 Edition (2012)
	None	(Membrane Filtration Technique)
	None	None
	Metals by ICP	None
	None	None
	None	None
	None	None
	None	None
	None	None
	pH	ASTM D 1293-2005 (Method B) APHA 4500 H* B 2005/2017
	pH	ASTM D1293-2005 (Method B) APHA 4500 H* B 2005/2017
	None	None
	Turbidity	APHA 2130B
	On-site Sampling & Testing (pH Temperature, Turbidity)	In-house Method SOP-0222-2001 & SOP-0222-2003
	Coliform	APHA 9221 B, Edition, 2005
	Heterotrophic plate count in	APHA Method 9215 D, Edition,
	None	None
	None	None
	pH Value	BS 1377-3 : 2018 Clause 12
	pH Value	BS 1377-3 : 2018 Clause 12
	None	None
	Calcium Hardness as CaCO ₃ , Magnesium (by Calculation Method)	APHA 3500-Ca B, 2017 APHA 3500-Mg B, 2017
	Nitrate	APHA E, 2017
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 16 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	None	None
	None	None
	None	None
	Aluminium	None
	None	None
	Organochlorine Pesticide	APHA 6630 B, Edition
	Ammoniacal Nitrogen	APHA F, 24" Edition
	Arsenic	APHA 3125 B, Edition
	Mercury	In-house method, SGS-TM-ENVI-003, based on APHA 3125 B
	2,4-dichlorophenoxyacetic acid (2,4-D)	In-house method, SGS-TM-02-045, based on Agilent Application Note 5991-5731 EN (LCMSMS)
	Heavy Metals by ICP-MS	None
	Endotoxin	Test for Bacterial Endotoxin, BP 2022
	pH	APHA 4500 H*B
	Oil & Grease	APHA 5520 B
	Color	APHA 2120 B
	Color	APHA 2120 F
	pH	APHA 4500 H* B
	Turbidity	APHA 2130 B
	Conductivity	APHA 2510 B
	None	None
	None	None
	None	None
	Escherichia coli and coliform	ISO 9308-1: 2014 (E) / Enumeration
	Pseudomonas aeruginosa	ISO 16266:2006 (E) / Detection and
	Ammonium nitrogen	BS 6068: Section 2.7:1984 ISO 5664:1984
	Chemical Oxygen Demand	BS 6068: Section 2.34:1988
	Suspended solids	BS 2690-Part 120:1981
	Dissolved solids	BS 2690-Part 121:1981
	None	ASTM D 523-82
	COD	APHA 5220 D
	None	None
	Free Chlorine	APHA' 4500 -" CI G
	Count	(Pour Plate, Spread Plate and
	Anaerobes (Clostridia)	BS 6068-4:9: 1993
	Gross Alpha & Gross Beta	None
	Arsenic as As	None
	Antimony as Sb	None
	Aluminium as Al	None
	Beryllium as Be	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 17 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Cadmium as Cd	None
	Chromium as Cr	None
	Lead as Pb	None
	Silver as Ag	None
	Selenium as Se	None
	Thallium as Tl	None
	Mercury as Hg	In-house Method LWI-MWE 037 based on APHA 3112 B by
	Mercury as Hg	Mercury Analyser
	Nitrate	In-house Method LWI-MWE 032 based on HACH Nitrate
	Nitrate	Test Comparator
	Sulfide	HACH Method 8131
	Chlorine, Free Residual	In-house Method LWI-MWE
	Chlorine, Free Residual	034 based on DPD-Palintest
	Chlorine, Free Residual	Test Comparator
	Total Chlorine	In-house Method LWI-MWE
	Total Chlorine	035 based on DPD-Palintest
	Total Chlorine	Test Comparator
	Colour (ADMI)	APHA 2120 F
	Heterotrophic Plate Count	None
	Pseudomonas aeruginosa	In-house Method LWI-MME (APHA) 007
	Pseudomonas aeruginosa	based on APHA 9213 E, 2020
	Escherichia coli and Coliform	Escherichia coli and Coliform Bacteria. Part 1: Membrane filtration
	Escherichia coli and Coliform	method
	Escherichia coli and Coliform	Method No: MOH (1)
	Escherichia coli and Coliform	ISO 29981 : 2010 (E), IDF 220 :
	Escherichia coli and Coliform	2010 (E) Milk Products -
	None	None
	None	None
	None	None
	None	None
Water & Wast Water:	Formaldehyde	HACH Method 8110
Water & Wastewater:	Temperature	APHA 2550 B
	Oil and Grease	APHA 5520 B
Well Water	None	None
	Conductivity	APHA - 2510B
	None	418E* or APHA - D
	Beryllium as Be	Spectroscopy: (ICP OES)
	Arsenic as As	None
	Sliver as Ag	None
	Chloride as Cl	Suppression of Eluent Conductivity:
	Dibromochloromethane	None
	None	None

NO: SAMM 742

Page: 18 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Silvex 2,4,5 TP (2,4,5-	Chemistry, Chemical Faculty Gdansk
	n-Triacontane	None
	None	None
	None	None

SCOPE OF TESTING : MICROBIOLOGICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Cereal Products	None	None
	Crude Fiber	In-House Method LWI-TEC-F003 based
	Detection of Salmonella spp.	ISO? 6579-1
	Energy	AOAC Chapter 6, Methods of
	Cholesterol	In-house method
	None	None
	Salt (as NaCl)	In-house method
	None	None
	None	None
	None	None
	None	None
	Salmonella spp detection	ISO 6579-1: 2017
Dairy Products	None	None
	Ash	AOAC 930.30
	Enterobacteriaceae	ISO 21528-2 Microbiology of food
	Staphylococcus aureus	ISO 6888-1 Microbiology of food
	Total Plate Count	In-house Method DCH-WI-QA080
	None	Regulations 1985
	kJ/100 g)	Based on Methods of Analysis for
	None	None
	None	None
	None	None
	Dietary Fiber	AOAC? 985.29
	None	on AOAC? 940.26 and AOAC? 923.03
	None	None
	None	on MS 1194:1991 and Food Regulations
	None	None
	None	None
	None	None
	None	None

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 19 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Listeria monocytogenes	None
	None	None
	None	based on AOAC 985.29
	Fatty Acid (Saturated Fat,	In-House method WI/JC-LAB/046
	None	(2012)
	None	In-house method
	None	None
	None	None
	None	AOAC 975.03 (2006) / USEPA 6010B
	None	None
	Escherichia coli	FDA-BAM Chapter 4 (2020)
	Moisture	In-house method MBC-TM-200
	Enumeration of Fecal Coliforms	In-house method MBC-TM-118
	Total Plate Count	In-house method LWM 3 based on
	None	None
	None	None
	None	None
	Ash	based on AOAC Edition
	Vitamin A palmitate	In-House Method SOP-0217-1029
	None	Method
	None	By Mojonnier (gravimetric)
	Moisture	In-house Method 0509 based on
	Majonnier Fat	AOAC 932.06, Edition
	None	None
	None	None
	Shigella species	FDA-BAM Chapter 6, 2014
	None	None
	None	None
	None	AOAC, 1993)
	None	None
	Water activity	AOAC 978.18 (2000)
	None	Fluorescence Detection
	Vitamin B5	In-house method LWI-TEC-
	None	None
	Ascorbic Acid	In-house method LWI-TEC-
	Vitamin A (Retinol)	In-house method LWI-TEC-
	None	None
	None	(Pour Plate Technique)
	None	(Detection, MPN & Spread Plate
	Enterobacteriaceae Detection	ISO 21528-1: 2004
	Aerobic Plate Count	3M-„¢ Petrifilm-„¢ Rapid Aerobic
	None	None
Environmental Monitoring	None	None
	Nitrate (as NO ₃ -• or	APHA E
	None	None
	Fluoride	APHA & D
	Colour (True & Apparent)	APHA 2120 C

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 20 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Total Coliform Count (TCC)	APHA 9221 B
	Total Nitrogen	In-house test method MKA TMO3 by TOC/TN Analyzer
	None	None
	Total Solid	2540 B
	None	None
	None	None
	None	None
	pH value	APHA 4500-H* B Electrometric
	None	None
	None	None
	Particulate Matter	MS 1596: 2003 Determination of
	Heavy Metals:	None
	None	None
	None	None
	Moisture	(i) Gravimetric Method: BS:EN
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Metals	In-house Method PCL-HMW-01
	None	None
	None	None
	Turbidity	APHA 2130 B, 2005
	Turbidity	APHA 2130 B, 2005
	Biochemical Oxygen Demand	APHA 5210 B & C, 2005
	Biochemical Oxygen Demand	DOE 2019, Reference Method,
	pH	APHA 4500 H*B, 2005
	Metals by ICP	None
	Metals by ICP	None
	Metals by ICP	None
	None	In-house method, WI-TEC-S001,
	None	None
	None	None
	None	None
	Determination of Concentration and Mass Flow of Particulate	MS 1596: 2003
	Determination of Total Suspended Particulate Matter in	ASTM: D4096-91 (2003)
	Sound pressure level	Guidelines for Environmental Noise Limits and Control, Third Edition
	None	None
	None	None
	None	None

Schedule

Issue date: 06 April 2025

Valid Until: -

NO: SAMM 742

Page: 21 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Boron	APHA 4500-B C, 2005 APHA 4500-B C, 2017
	Sulphide	APHA 4500- D, 2005 APHA 4500- D, 2017
	Metal Analysis by ICP-OES	None
	Hydrocarbon	APHA 5520 F 2005
	None	None
	Hydrogen Bromide (HBr)	OSHA Method ID-165SG
	Temperature	APHA 2550 B, 2005
	None	None
	None	None
	Formaldehyde	In-house Method C/WTR/012
	None	None
	Aluminium	None
	Aluminium	None
	Nickel	APHA 3120 B, 24" Edition
	pH	APHA 4500 H*B
	pH	APHA 4500 H*B
	None	None
	None	None
	None	None
	COD	APHA 5220 D
	Heavy Metals	None
	Moisture	EPA Method 9000 (Karl Fischer Titration)
	None	EPA Method 1010 A
	None	Information Circular 8333,
	Total Bacteria Count	Compendium of Methods for the
	Aerobic Plate Count	In-house swab contact method
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None	None	
None		

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 742

Page: 22 of 22

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Food & Food Products:	Protein	In house method (ENVIC/STP/FD001)
	Aerobic Plate Count	BAM Chapter 3
Fruit, Jams & Other	None	None
Meat & Meat Products	None	None
	Pseudomonas Spp.	ISO 13720:2010
	Campylobacter spp. (Quantitative)	ISO 10272-2:2017
	None	None
	Nitrite	In-house Method C/FOD/032
	None	None
Sugar Products, Honey & Confectionary	None	None
Vegetables & Vegetable Products	None	None
Water & Wastewater	Total Solids dried at 103 -" 105°C	APHA 2540 B
	Faecal Coliform Count (FCC)	APHA 9221 E
	pH	APHA 4500-H* B, 22" Edition, 2012
	Chloride (Cl), Fluoride (F),	APHA 4110 B -" 23" Edition
	None	APHA 2130 B, 2017
	Total Alkalinity (bicarbonate/ carbonate/ hydroxide)	APHA 2320 B, 2005 APHA 2320 B, 2017
	Conductivity	APHA 2510 B, 2005 APHA 2510 B, 2017
	Salinity	APHA 2520 B, 2005

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3004162> for the current scope of accreditation