


Schedule

Issue date: 22 August 2024
Valid Until: 14 February 2028



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LABORATORY LOCATION/ CENTRAL OFFICE:	Makmal Kualiti Air, NAHRIM Lot 5377, Jalan Putra Permai 43300 Seri Kembangan, Selangor , 43300, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	18 MARCH 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:	Makmal Kualiti Air, NAHRIM Lot 5377, Jalan Putra Permai 43300 Seri Kembangan, Selangor , 43300, Selangor
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
Environmental Monitoring Water And Wastewater	pH	APHA 4500-H ⁺ B
	Turbidity	APHA 2130 B
	Chemical Oxygen Demand (COD)	In-house test method MKA TM01 based on HACH Method 8000, 12th Edition, 2021
	Mercury, Hg	In-house test method MKA TM02 based on APHA 3112 B

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Metals Aluminium, Al Chromium, Cr Copper, Cu Iron, Fe Lead, Pb Nickel, Ni Zinc, Zn Boron, B	APHA 3030 F and APHA 3120 B
	Total Solids Total Dissolved Solids Total Suspended Solids	APHA 2540 B APHA 2540 C APHA 2540 D
	Biochemical Oxygen Demand (BOD ₅)	APHA 4500-O H and APHA 5210 B
	Dissolved Oxygen	APHA 4500-O H
	Total Organic Carbon Inorganic Carbon Total Carbon	APHA 5310 B
	<u>Anions</u> Fluoride, F ⁻ Chloride, Cl ⁻ Bromide, Br ⁻ Phosphate, PO ₄ ³⁻ Sulfate, SO ₄ ²⁻ Nitrite, NO ₂ ⁻ Nitrate, NO ₃ ⁻	APHA 4110 B
	<u>Cations</u> Lithium, Li ⁺ Sodium, Na ⁺ Ammonium, NH ₄ ⁺ Potassium, K ⁺ Magnesium, Mg ²⁺ Calcium, Ca ²⁺	In-house test method MKA TM04 by Ion Chromatography
	Nitrogen, Ammonia, NH ₃ -N	HACH Method 8038, 9th Edition, 2017
	Total Nitrogen	In-house test method MKA TM03 by TOC/TN Analyzer
	Hardness by Calculation	APHA 2340 B, 23rd Edition, 2017 & Inhouse test method MKA TM04 by Ion Chromatography
Environmental Monitoring Water And Wastewater wastewater	Total Phosphorus	HACH Method 8190, 10th Edition, 2017

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Environmental Monitoring Water And Wastewater Drinking Water tap Water Ground Water surface Water wastewater	Nitrogen, Ammonia	HACH Method 10001, 10th Edition, 2021
Environmental Monitoring Water And Wastewater surface Water Ultrapure Water Lake Water	Threshold Odor	APHA 2150 B
Environmental Monitoring Water And Wastewater treated Water Drinking Water surface Water	Chlorine, Total	HACH Method 8167, 11th Edition, 2022
	Chlorine, Free	HACH Method 8021, 9 th Edition, 2014
Water Potable/drinking And Domestic drinking Water	Bisphenol A Bisphenol S	In-house test method MKA TM06 based on Agilent Application Note 5991- 1412EN, 2012
	Organochlorine Pesticides Hexachlorobenzene BHC-gamma (lindane) Heptachlor Aldrin Heptachlor epoxide cis-chlordane trans-chlordane Endosulfan Dieldrin p,p'-DDT p,p'-Methoxychlor	EPA Method 525.3, 8th Edition, 2012
	Alkalinity	HACH Method 8221, 9th Edition, 2017

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Volatile Organic Compounds 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethene 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane Carbon tetrachloride 1,1-Dichloropropene Benzene 1,2-Dichloroethane Trichloroethene 1,2-Dichloropropane Dibromomethane Bromodichloromethane cis-1,3-Dichloropropene Toluene trans-1,3-Dichloropropene 1,1,2-Trichloroethane Tetrachloroethene 1,3-Dichloropropane Dibromochloromethane 1,2-Dibromoethane Chlorobenzene 1,1,1,2-Tetrachloroethane Ethylbenzene m+ p-Xylene O-Xylene Styrene Bromoform Isopropylbenzene	EPA Method 8260 D & EPA Method 5030 C

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	Volatile Organic Compounds Bromobenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane n-Propylbenzene 2-Chlorotoluene 1,3,5-Trimethylbenzene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene sec-Butylbenzene 1,3-Dichlorobenzene p-Isopropyltoluene 1,4-Dichlorobenzene n-Butylbenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene 1,2,3-Trichlorobenzene	EPA Method 8260 D & EPA Method 5030 C
Water	Total Hardness	HACH Method 8226, 8th Edition, 2015
Surface Water	Silica	HACH Method 8185, 9th Edition, 2014
Ground Water		
Potable/drinking And Domestic drinking Water		
Water	Hardness by Calculation	APHA 2340 B & In-house test method MKA TM04 by Ion Chromatography
Surface Water	Total Phosphorus	HACH Method 8190, 10th Edition, 2017
Ground Water		
Water	Color	HACH Method 8025, 10th Edition, 2014
Surface Water	Conductivity	HACH Method 8160, 10th Edition, 2021
Potable/drinking And Domestic drinking Water		
Water	Pharmaceutical Compounds (Negative Ionization)	In house test method MKA TM08 based on Agilent Application Note 5991- 6115EN, 2015
Potable/drinking And Domestic drinking Water	Aspirin	
Tap Water	Ibuprofen	
	Gliclazide	
	Diclofenac	
Water	Oil & Grease	APHA 5520 D
Others		
surface Water		
marine Water		

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SCOPE OF TESTING : MICROBIOLOGICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Microbiological Environmental Sample Water Water And Waste Water	total Coliform & E.coli Count	In-house test method MKA TM05 based on APHA 9222 J
Microbiological Environmental Sample Water Waste Water Surface Water Ground Water	Thermotolerant (Fecal) Coliform Count	APHA 9222 D (Membrane Filtration)
Microbiological Environmental Sample Water Drinking Water	Total Coliform & E.coli Count	In-house test method MKA TM07 based on Colilert Test Kit notes, IDEXX Laboratories Inc. USA, 2019
	- Clostridium perfringens count - Sulphite Reducing Clostridia count	Methods for the Examination of Waters and Associated Materials – The Microbiology of Drinking Water (2021) – Part 6
	Fungi Count	APHA 9610 C
Microbiological Environmental Sample Water Drinking Water Ground Water	Fecal Enterococcus/Streptococcus Count	APHA 9230 C (Membrane Filtration)
	Pseudomonas aeruginosa Count	APHA 9213 E (Membrane Filtration)
Microbiological Environmental Sample Water Drinking Water Surface Water	- Heterotrophic Plate Count (22°C) - Heterotrophic Plate Count (37°C)	Methods for the Examination of Waters and Associated Materials – The Microbiology of Drinking Water (2020) – Part 7
Microbiological Environmental Sample Surface Water Wastewater	Vibrio sp.	Methods for the Examination of Waters and Associated Materials (2016) — Part 9, Standing Committee of Analysts, UK
	- E. coli count - Extended Spectrum Beta Lactamase E.coli (ESBL E.coli) count	Tricycle Protocol for WHO Integrated Global Surveillance on ESBL E.coli, 2021
	Salmonella sp.	Methods for the Examination of Waters and Associated Materials (2016)- Part 8, Standing Committee of Analysts, UK