

Schedule

Issue date: 17 March 2025
Valid Until: -



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of SAMM 1051 dated 17 March 2025)

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LABORATORY LOCATION/ CENTRAL OFFICE:	Chemsain Johor Laboratory, Chemsain Konsultant Sdn. Bhd. No. 50 & 52, Jalan Pelepas 4/9 Taman Perindustrian Tanjung Pelepas 81550 Gelang Patah, Johor , 81550, JOHOR MALAYSIA
	
ACCREDITED SINCE :	14 FEBRUARY 2022
FIELD(S) OF TESTING:	CHEMICAL
SITE:	
1 . SITE LABORATORY(HQ) :	CATEGORY I
FIELD(S) OF TESTING :	CHEMICAL,MECHANICAL

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:	Chemsain Johor Laboratory, Chemsain Konsultant Sdn. Bhd. No. 50 & 52, Jalan Pelepas 4/9 Taman Perindustrian Tanjung Pelepas 81550 Gelang Patah, Johor , 81550, Johor
FIELD(S) OF TESTING :	CHEMICAL,

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Water And Wastewater Marine Water River Water Tap Water	Acidity (as CaCO ₃)	APHA 2310 B, 2005 APHA 2310 B
	Alkalinity (as CaCO ₃)	APHA 2320 B, 2005 APHA 2320 B
	Calcium Hardness, EDTA Titrimetric	APHA 3500-Ca B, 2005 APHA 3500-Ca B
	Hardness, EDTA Titrimetric	APHA 2340 C, 2005 APHA 2340 C

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	Magnesium Hardness, Calculation Method	APHA 3500-Mg B, 2005 APHA 3500-Mg B
Marine Water Estuarine Water Formation/ Produced Water	Turbidity	APHA 2130 B, 2005 APHA 2130 B
	Conductivity	APHA 2510 B, 2005 APHA 2510 B
	Salinity	APHA 2520 B, 2005 APHA 2520 B
	Total Solids	APHA 2540 B, 2005 APHA 2540 B
	Total Dissolved Solids	APHA 2540 C, 2005 APHA 2540 C
	Total Suspended Solids	APHA 2540 D, 2005 APHA 2540 D
	Temperature	APHA 2550 B, 2005 APHA 2550 B
	Chloride	APHA 4500-Cl- B, 2005 APHA 4500-Cl- B
	pH	APHA 4500-H+B, 2005 APHA 4500-H+B
	Ammoniacal Nitrogen	APHA 4500-NH3 B & C, 2005 APHA 4500-NH3 B & C
	Oxygen (Dissolved)	APHA 4500-O C, 2005 APHA 4500-O C APHA 4500-O G, 2005 APHA 4500-O G APHA 4500-O H
	Biochemical Oxygen Demand	APHA 5210 B & 4500-O G, 2005 APHA 5210 B & 4500-O G
	Oil & Grease	APHA 5520 B, 2005 APHA 5520 B
	Chemical Oxygen Demand	In-House Method 0560 based on APHA 5220 C, 2005/2017 & USGS – Method for analysis of organic substances in water – Chemical Oxygen Demand COD
	Free, Combined and Total Residual Chlorine	n-House Method 0501 based on Palintest Comparator
Water And Wastewater	Turbidity	APHA 2130 B, 2005 APHA 2130 B
	Conductivity	APHA 2510 B, 2005 APHA 2510 B
	Salinity	APHA 2520 B, 2005 APHA 2520 B
	Total Solids	APHA 2540 B, 2005 APHA 2540 B

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	Total Dissolved Solids	APHA 2540 C, 2005 APHA 2540 C
	Total Suspended Solids	APHA 2540 D, 2005 APHA 2540 D
	Temperature	APHA 2550 B, 2005 APHA 2550 B
	Chloride	APHA 4500-Cl- B, 2005 APHA 4500-Cl- B
	pH	APHA 4500-H+B, 2005 APHA 4500-H+B
	Ammoniacal Nitrogen	APHA 4500-NH3 B & C, 2005 APHA 4500-NH3 B & C
	Oxygen (Dissolved)	APHA 4500-O C, 2005 APHA 4500-O C APHA 4500-O G, 2005 APHA 4500-O G APHA 4500-O H
	Biochemical Oxygen Demand	APHA 5210 B & 4500-O G, 2005 APHA 5210 B & 4500-O G
	Chemical Oxygen Demand	APHA 5220 C, 2005 APHA 5220 C
	Oil & Grease	APHA 5520 B, 2005 APHA 5520 B
	Free, Combined and Total Residual Chlorine	In-House Method 0501 based on Palintest Comparator
Refinery Products	Flash Point	ASTM D 93 (Procedure A)
	Water	ASTM D 6304 (Procedure C excluded)
	Density, Relative Density, and API Gravity of Liquids	ASTM D 4052
Crude Oil	Water	ASTM D 4928
	Density and Relative Density	ASTM D 5002
Lubricant	Cleveland Open Cup Flash Point	ASTM D 92
	Viscosity @ 40°C and 100°C	ASTM D 445
Jet-a1	Distillation	ASTM D 86
	Corrosion: Copper Strip	ASTM D 130
	Saybolt Color	ASTM D 156
	Smoke Point	ASTM D 1322
	Freezing Point	ASTM D 2386
	Electrical Conductivity, pS/m	ASTM D 2624
	Total Acidity	ASTM D 3242
	Water Separation Characteristics	ASTM D 3948
	Density	ASTM D 4052
	Flash Point Abel	IP 170
	Pentane Insoluble	ASTM D 893
Lubricant Oil	Pentane Insoluble	ASTM D 893

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Fuel Oil Waste Oil base Oil Engine Oil	Membrane Patch Colorimetry	ASTM D 7843
Fuel (gasoline & Diesel)	Reid Vapor Pressure	ASTM D 323
	Ash	ASTM D 482
	Density, Specific Gravity, API Gravity	ASTM D 1298
	Carbon Residue (Micro)	ASTM D 4530
	Loss On Ignition	In House Method 6046 based on EN 12879-2000
Avgas	Reid Vapor Pressure	ASTM D 323
Lpg	Volatility of LPG	ASTM D 1837
	Copper Corrosion	ASTM D 1838
Petroleum Products Avgas, Ron95, Ron97, Diesel & Jet A-1	Distillation	ASTM D86

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SITE LOCATION (HQ)	1. CATEGORY I
FIELD(S) OF TESTING :	CHEMICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Water Water And Wastewater	Temperature	APHA 2550 B, 2005 APHA 2550 B
	pH	APHA 4500-H+ B, 2005 APHA 4500-H+ B
	Oxygen (Dissolved)	APHA 4500-O G, 2005 APHA 4500-O G
	Free, Combined and Total Residual Chlorine	APHA 4500-O H In-House Method 0501 based on Palintest Comparator
Marine Water Estuarine Water Formation / Produced Water	Temperature	APHA 2550 B, 2005 APHA 2550 B
	pH	APHA 4500-H+ B, 2005 APHA 4500-H+ B
	Oxygen (Dissolved)	APHA 4500-O G, 2005 APHA 4500-O G
	Free, Combined and Total Residual Chlorine	APHA 4500-O H In-House Method 0501 based on Palintest Comparator
Environmental Monitoring Ambient Air	Total Suspended Particulate Matter	AS/NZS 3580 9.3
	PM10	AS/NZS 3580 9.6
	PM2.5	AS/NZS 3580 9.14
Stationary Air Emission	Particulate Matter	MS 1596 USEPA Method 5
	O ₂ , CO ₂ , NO ₂ , CO, SO ₂ , NO, H ₂ S	In-House Method 0585 based on Testo 350 Flue Gas Analyser

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