



Hong Kong Accreditation Service
香港認可處

Certificate of Accreditation
認可證書

This is to certify that
特此證明

FUGRO TECHNICAL SERVICES LIMITED
輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong
香港新界屯門大欖樂怡街五號輝固發展中心

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a
在認可諮詢委員會的建議下獲香港認可處執行機關接受為

HOKLAS Accredited Laboratory
「香港實驗所認可計劃」認可實驗所

This laboratory meets the requirements of ISO/IEC 17025:2005 and it has been accredited for performing specific tests or calibrations as listed in the scope of accreditation within the test category of

Environmental Testing

此實驗所符合ISO/IEC 17025:2005所訂的要求
並獲認可進行載於認可範圍內下述測試類別中的指定測試或校正工作

環境測試

This accreditation to ISO/IEC 17025:2005 demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (see joint IAF-ILAC-ISO Communiqué).
此項 ISO/IEC 17025:2005 的認可資格證明此實驗所具備指定範疇內所須的技術能力並實施一套實驗所質量管理體系(見國際認可論壇、國際實驗所認可合作組織及國際標準化組織的聯合公報)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive
現經香港認可處執行機關授權在此蓋上香港認可處的印章

WONG Wang-wah, Executive Administrator
執行幹事 黃宏華
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註冊號碼：

Date of First Registration : 23 March 1989
首次註冊日期：一九八九年三月二十三日



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Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and Wastewater	Physical Examination :- - pH Value - Turbidity - Conductivity - Salinity - Dissolved oxygen - Colour - Total Suspended Solids Dried at 103 -105°C - Total Solids Dried at 103 -105°C - Total Dissolved Solids dried at 180°C Trace Metals :- (Recoverable) - Aluminium - Cadmium - Copper - Iron - Lead - Magnesium - Manganese - Nickel - Potassium - Sodium - Zinc - Chromium, Calcium - Mercury	APHA 17e 4500-H ⁺ B APHA 18e 2130 B ASTM D1125-82 Method B Excluding Cl. 7 In-house Method E-T-006 APHA 17e 4500-0 G In-house Method E-T-008 APHA 17e 2540 D APHA 17e 2540 B APHA 17e 2540 C APHA 18e 3030 A, B, F.3b & 3111 D APHA 18e 3030 A, B, F.3b & 3111 B In-house Method ET-021(Flame AAS) In-house Method E-T-022 (Cold vapour AAS)

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Water and Wastewater (cont'd)	Non-metallic Constituents :- - Total alkalinity (as CaCO ₃) - Bicarbonate and carbonate content - Chloride - Nitrogen (Nitrate) - Nitrogen (Nitrite) - Nitrogen (Total oxidised) - Nitrogen (Total Kjeldahl) - Nitrogen (Total Kjeldahl) - Nitrogen (Ammonia) - Nitrogen (Ammonia) - Nitrogen (Ammonia) - Reactive Phosphorus - Non-ionic surfactants (as CTAS) - Total Phosphorus Digestion Determination - Total surfactants (Anionic and Non-ionic)	APHA 17e 2320 B APHA 20e 2320 B (Indicator method) In-house Method E-T-016 (Titrimetric) APHA 18e 4500 Cl ⁻ B APHA 20e 4500-NO ₃ ⁻ E & F In-house Method E-T-080 APHA 20e 4500-NO ₂ ⁻ A & NO ₃ ⁻ F In-house Method E-T-084 APHA 20e 4500-NO ₃ ⁻ E & F In-house Method E-T-081 APHA 18e 4500-Norg B & 4500-NH ₃ E (Titrimetric method) In-house Method E-T-037 (Colorimetric method) APHA 18e 4500-NH ₃ B & E (Titrimetric method) In-house Method E-T-039 (Colorimetric method) In-house Method E-T-095 (Automation segmented flow-salicylate method) In-house Method E-T-055 In-house method E-T-099 APHA 17e 4500-PB5 In-house Method E-T-056 In-house method E-T-099, E-T-057 and E-T-103 (by calculation)

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Water and Wastewater (cont'd)	- Residual Free Chlorine	In-house Method E-T- 066
	- Total Residual Chlorine	In-house Method E-T- 067
	Organic Pollutants :-	
	- Oil and grease	APHA 18e 5520B
	- Biochemical Oxygen Demand	BS 6068: Section 2.14: 1990
	- Chemical Oxygen Demand	APHA 18e 5220 B
	- Anionic Surfactants	In-house Method E-T-057
	- Tributyl tin	In-house Method E-T-089 (GC-MSD)
	- Tributyl tin in interstitial water	In-house Method E-T-101(Preparation for Interstitial Water) In-house Method E-T-089 (GC/MS)
	Microbiological tests :-	
	- E. coli count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Section 7.8, 7.9.4.2 Bacterial Confirmation: Section 7.9.4.4 & in-situ urease test
	-Total Coliform count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Sections 7.8, 7.9.4.1 Bacterial Confirmation: Section 7.9.4.3
	- Faecal Coliform count	DoE (1983) The Bacteriological Examination of Drinking Water Supplies, 1982 Membrane Filtration Procedure: Sections 7.8, 7.9.4.2 Bacterial Confirmation: Section 7.7.6.3
	- Heterotrophic Plate Count	APHA 20e 9215 A & B
-Legionellae including Legionella pneumophila	AS/NZS 3896:1998 ISO 11731-2: 2004	