



*The Hong Kong University of Science & Technology  
Health, Safety and Environment Office  
Laboratory*

*Environmental Analysis  
(Water Samples)*

*Test Catalogue & Fee Schedule (HKD)*

*March 2025*

Clear Water Bay,  
Kowloon, Hong Kong

Website: <https://hseo.ust.hk/hseo-lab>

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## **QUALIFICATIONS AND ACCREDITATIONS**

Health, Safety and Environment Office (HSEO) Laboratory operates according to the guidelines set out in ISO/IEC 17025 - “General requirements for the competence of testing and calibration laboratories”. It has received accreditation from the Hong Kong Laboratory Accreditation Scheme (HOKLAS) since 1999. Our laboratory employs a comprehensive quality control program covering both sample preparation and analysis.

Major instrumentation and techniques include:

Ion Chromatography (IC)

Inductively Coupled Plasma Optical Emission Spectrometer (ICP/OES)

Inductively Coupled Plasma Mass Spectrometer (ICP/MS)

Ultraviolet-visible Spectrophotometer (UV/VIS)

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## **TERMS & CONDITIONS**

(Refer to HSEO Lab website)

<https://hseo.hkust.edu.hk/hseo-lab/service>

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## 1. Potable Water

Analysis	Analytical Method/ Reference	Reporting limit	Unit	Price (HKD)
<b>Physical Properties</b>				
Colour	SAM038 / APHA 22/e 2120 C	3	CU	170
Conductivity	SAM037 / APHA 22/e 2510 B	15	µS/cm	110
pH	SAM001 / In-house Method (Lab measurement)	N/A	pH units	110
Total Dissolved Solid	SAM004 / APHA 17/e 2540 C	30	mg/L	170
Turbidity	SAM006 / In-house Method	0.20	NTU	170
<b>Inorganic Non-metallic Constituents</b>				
Fluoride	SAM040 / APHA 21/e 4110 B	0.20	mg/L	170
Nitrate	SAM040 / APHA 21/e 4110 B	2.2	mg/L	170
Sulfate	SAM040 / APHA 21/e 4110 B	5.0	mg/L	170
<b>Microbiological Analysis</b>				
Coliform	SAM051/ In-house Method	1	CFU/100mL	300
<i>Escherichia coli</i>	SAM051/ In-house Method	1	CFU/100mL	300
Heterotrophic Plate Count	PAM003 / APHA 21/e 9215A, B	1	CFU/mL	300
<b>Metal Analysis **</b>				
Aluminum, Al	APHA 22/e 3030E and 3120^	0.10	mg/L	110
Antimony, Sb	SAM045 / In-house Method	2.5	µg/L	170
Arsenic, As	SAM045 / In-house Method	2.5	µg/L	170
Cadmium, Cd	SAM045 / In-house Method	0.25	µg/L	170
Chromium, Cr	SAM045 / In-house Method	2.5	µg/L	170
Copper, Cu	SAM032 / In-house Method	0.050	mg/L	110
Iron, Fe	SAM032 / In-house Method	0.050	mg/L	110
Lead, Pb	SAM045 / In-house Method	2.5	µg/L	170
Manganese, Mn	APHA 22/e 3030E and 3120^	0.050	mg/L	110
Mercury, Hg	SAM049 / In-house Method	0.50	µg/L	170
Nickel, Ni	SAM045 / In-house Method	2.5	µg/L	170
Zinc, Zn	SAM032 / In-house Method	0.10	mg/L	110

## 2. Ice

Analysis	Analytical Method / Reference	Reporting limit	Unit	Price (HKD)
<b>Microbiological Analysis</b>				
Coliform	SAM051/ In-house Method	1	CFU/100mL	300
<i>Escherichia coli</i>	SAM051/ In-house Method	1	CFU/100mL	300
Heterotrophic Plate Count	PAM003 / APHA 21/e 9215A, B	1	CFU/mL	300

### 3. Swimming Pool Water

Analysis	Analytical Method / Reference	Reporting limit	Unit	Price (HKD)
Physical Properties				
Turbidity	SAM006 / In-house Method	0.20	NTU	170
Microbiological Analysis				
<i>Escherichia coli</i>	SAM051/ In-house Method	1	CFU/100mL	300
Coliform	SAM051/ In-house Method	1	CFU/100mL	300
Heterotrophic Plate Count	PAM003 / APHA 21/e 9215A, B	1	CFU/mL	300
Presumptive <i>Vibrio cholerae</i>	SAM058 / In-house Method <sup>^</sup>	Detected or Not Detected	per 100mL	300

### 4. Fountain Water

Analysis	Analytical Method / Reference	Reporting limit	Unit	Price (HKD)
Microbiological Analysis				
<i>Legionella</i> spp. (Total)	PAM008/ In-house Method <sup>^</sup>	10	CFU/mL	450

### 5. Pond Water

Analysis	Analytical Method / Reference	Reporting limit	Unit	Price (HKD)
Biological Analysis				
Estimated Chlorophyll-a	SAM055 / In-House Method <sup>^</sup>	N/A	mg/L	300

### 6. Wastewater

Analysis	Analytical Method / Reference	Reporting limit	Unit	Price (HKD)
Physical Properties				
pH	SAM001 / In-house Method (Lab measurement)	N/A	pH units	110
pH	SAM035 / In-house Method (On-site measurement) <sup>^</sup>	N/A	pH units	110
Temperature	SAM034 / APHA 21/e 2550 B (On-site measurement) <sup>^</sup>	N/A	°C	110
Total Suspended Solids	SAM002 / APHA 17/e 2540 D	30	mg/L	110
Settleable Solids	SAM003 / APHA 19/e 2540 F	10	mL/L	110
Inorganic Non-metallic Constituents				
Cyanide	SAM057 / In-house Method <sup>^</sup>	0.050	mg/L	300
Sulfate	SAM040 / APHA 21/e 4110 B	5.0	mg/L	170
Sulfide	SAM043 / APHA 21/e 4500-S <sup>2-</sup> D, F	0.10	mg/L	200
Total Nitrogen	SAM041 / APHA 21/e 4110 B & 4500-NC	1.0	mg/L	300
Total Phosphorus	SAM042 / APHA 21/e 4500-P B5, C	2.5	mg/L	300

Analysis	Analytical Method / Reference	Reporting limit	Unit	Price (HKD)
<b>Organic Constituents</b>				
BOD <sub>5</sub>	SAM018 / APHA 21/e 5210 A, B	2.0	mg/L	400
COD	SAM008 / In-house Method	200	mg/L	300
Oil and Grease	SAM016 / APHA 21/e 5520 A, B	10	mg/L	400
Phenol	SAM056 / In-house Method <sup>^</sup>	0.1	mg/L	300
Surfactant – anionic as MBAS	SAM044 / APHA 21/e 5540 A, B&C <sup>^</sup>	2	mg/L	450
Surfactant – non-ionic as CTAS	SAM044 / APHA 21/e 5540 A, B&D <sup>^</sup>	2	mg/L	450
<b>Metal Analysis **</b>				
Arsenic, As	SAM052 / In-house Method	25	µg/L	170
Barium, Ba	SAM054 / In-house Method <sup>^</sup>	0.30	mg/L	110
Boron, B	SAM054 / In-house Method <sup>^</sup>	0.60	mg/L	110
Cadmium, Cd	SAM052 / In-house Method	0.50	µg/L	170
Chromium, Cr	SAM052-Cr / In-house Method <sup>^</sup>	25	µg/L	170
Copper, Cu	SAM054 / In-house Method <sup>^</sup>	0.30	mg/L	110
Iron, Fe	SAM054 / In-house Method <sup>^</sup>	0.30	mg/L	110
Lead, Pb	SAM052 / In-house Method	25	µg/L	170
Mercury, Hg	SAM053 / In-house Method	0.50	µg/L	170
Nickel, Ni	SAM054 / In-house Method <sup>^</sup>	0.30	mg/L	110
Selenium, Se	SAM052 / In-house Method	25	µg/L	170
Silver, Ag	SAM054 / In-house Method <sup>^</sup>	0.30	mg/L	110
Zinc, Zn	SAM054 / In-house Method <sup>^</sup>	0.30	mg/L	110

## 7. Seawater

Analysis	Analytical Method / Reference	Reporting limit	Unit	Price (HKD)
<b>Physical Properties</b>				
pH	SAM035 / In-house Method (On-site measurement) <sup>^</sup>	N/A	pH units	110
Temperature	SAM034 / APHA 21/e 2550 B (On-site measurement) <sup>^</sup>	N/A	°C	110
<b>Inorganic &amp; Organic Constituents</b>				
Total Residual Chlorine	SAM007 / In-house Method <sup>^</sup>	0.05	mg/L	110
'Nalco' Microtreat AQZ 2010	SAM033 / In-house Method <sup>^</sup>	2	mg/L	110

Note: 1) Methods marked with ^ are outside the scope of HOKLAS accreditation of the laboratory.

2) \*\* Acid digestion is required prior to metal analysis if the turbidity is greater than 1NTU. In this case, a digestion fee of HKD 170 will be charged per sample.

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