



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

*Environmental Analysis  
(Water Samples)*

*Test Catalogue & Fee Schedule (HKD)*

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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 by 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)

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## **TERMS & CONDITIONS**

(Refer to HSEO Lab website)

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

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## PUBLIC HEALTH SAMPLES

### 1. Potable Water (PW)

Analysis	Analytical Method/ Reference	Reporting limit	Unit	Price (HKD)
<b>Physical Properties</b>				
pH	SAM001 / In-house Method (Lab measurement)	N/A	pH units	110
Total Dissolved Solid	SAM004 / APHA 17/e 2540 C	30	mg/L	180
Turbidity	SAM006 / In-house Method	0.20	NTU	170
<b>Inorganic Non-metallic Constituents</b>				
Nitrate	SAM040 / APHA 21/e 4110 B	2.2	mg/L	170
Sulfate	SAM040 / APHA 21/e 4110 B	5.0		170
Fluoride	SAM040 / APHA 21/e 4110 B	0.20		170
<b>Microbiological Analysis</b>				
Heterotrophic Plate Count	PAM003 / APHA 21/e 9215A, B	1	CFU/mL	300
<i>Escherichia coli</i>	SAM051/ In-house Method / Membrane Filtration Method by CHROMagar	1	CFU/100mL	300
Coliform	SAM051/ In-house Method / Membrane Filtration Method by CHROMagar	1		300
<b>Metal Analysis **1</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. Swimming Pool Water (SPW)

Analysis	Analytical Method / Reference	Reporting limit	Unit	Price (HKD)
<b>Physical Properties</b>				
Turbidity	SAM006 / In-house Method	0.20	NTU	170
<b>Microbiological Analysis</b>				
Heterotrophic Plate Count	PAM003 / APHA 21/e 9215A, B	1	CFU/mL	300
<i>Escherichia coli</i>	SAM051/ In-house Method / Membrane Filtration Method by CHROMagar	1	CFU/100mL	300
Coliform	SAM051/ In-house Method / Membrane Filtration Method by CHROMagar	1		300

### 3. Ice

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

## ENVIRONMENTAL MONITORING SAMPLES

### 1. Wastewater (WW)

Analysis	Analytical Method / Reference	Reporting limit	Unit	Price (HKD)
<b>Physical Properties</b>				
pH *	SAM035 / In-house Method (Site measurement)	N/A	pH units	110
Temperature *	SAM034 / APHA 21/e 2550 B	N/A	°C	110
Total Suspended Solids	SAM002 / APHA 17/e 2540 D	30	mg/L	140
Settleable Solids	SAM003 / APHA 19/e 2540 F	10	mL/L	105
<b>Inorganic Non-metallic Constituents</b>				
Cyanide *	SAM009 / In-house Method	0.05	mg/L	390
Sulfate	SAM040 / APHA 21/e 4110 B	5.0		170
Sulfide	SAM043 / APHA 21/e 4500-S <sup>2-</sup> D, F	0.10		200
Total Nitrogen	SAM041 / APHA 21/e 4110 B & 4500-N C	20		255
Total Phosphorus	SAM042 / APHA 21/e 4500-P B5,C	2.5		240
<b>Organic Constituents</b>				
BOD <sub>5</sub>	SAM018 / APHA 21/e 5210 A, B	2.0	mg/L	385
COD	SAM008 / In-house Method	200		385
Oil and Grease	SAM016 / APHA 21/e 5520 A, B	10		500
<b>Metal Analysis **2</b>				
Arsenic, As	SAM046 / In-house Method	25	µg/L	170
Barium, Ba	SAM031 / In-house Method	0.10	mg/L	110
Boron, B	SAM031 / In-house Method	0.30	mg/L	110
Cadmium, Cd	SAM046 / In-house Method	0.50	µg/L	170
Chromium, Cr	SAM031 / In-house Method	0.050	mg/L	110
Copper, Cu	SAM031 / In-house Method	0.30	mg/L	110
Iron, Fe	SAM031 / In-house Method	0.50	mg/L	110
Lead, Pb	SAM046 / In-house Method	25	µg/L	170
Nickel, Ni	SAM031 / In-house Method	0.20	mg/L	110
Selenium, Se	SAM046 / In-house Method	25	µg/L	170
Silver, Ag	SAM031 / In-house Method	0.15	mg/L	110
Zinc, Zn	SAM031 / In-house Method	0.30	mg/L	110

## 2. Seawater (SW)

Analysis	Analytical Method / Reference	Reporting limit	Unit	Price (HKD)
<b>Physical Properties</b>				
pH *	SAM035 / In-house Method	N/A	pH units	110
Temperature *	SAM034 / APHA 21/e 2550 B	N/A	°C	110
<b>Inorganic &amp; organic Constituents</b>				
Total Residual Chlorine *	SAM007 / In-house Method	0.05	mg/L	110
'Nalco' Microtreat AQZ 2010 *	SAM033 / In-house Method	2	mg/L	290

Note: \* = Methods marked with \* are outside the scope of HOKLAS accreditation of the laboratory.

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

\*\*2 = Acid digestion is required for metal analysis of wastewater sample. Submitted sample will incur a digestion charge of HKD170.

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