

Name of Laboratory : United Analyst and Engineering Consultant Co., Ltd.  
Address : 3 Soi Udomsuk 41, Sukhumvit Road, Bang Chak, Phra Khanong,  
Bangkok 10260  
Accreditation Number : Testing - 0063  
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Initial Issue Date : 21<sup>st</sup> September 2010  
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Standard : ISO/IEC 17025:2017  
Reference No. : 0303/5274

## Scope of Laboratory Accreditation

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Water	- Coliforms MPN/100 mL  - Fecal coliforms MPN/100 mL  - <i>E. coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E, F

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Standard plate count CFU/mL  - <i>E. coli</i> Detected or not detected/100 mL  - <i>Salmonella</i> spp. Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9215 B  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 D, F  ISO 19250 : 2010

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1 (cont.)	Water	- Total dissolved solids dried at 180 °C 25 mg/L to 1 000 mg/L  - Total solids dried from 103 °C to 105 °C 25 mg/L to 1 000 mg/L  - Total organic carbon 0.50 mg/L to 100 mg/L  - Phenol 0.005 mg/L to 0.100 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 2540 C  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 2540 B  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 5310 B  In - house method : UAE.TP.WAS.009 based on ISO 14402 : 1999

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1 (cont.)	Water	- Mercury 0.500 µg/L to 2 000 µg/L  - Phytoplankton (genus) <i>Scenedesmus</i> spp. <i>Pediastrum</i> spp. <i>Euglena</i> spp. <i>Phacus</i> spp. <i>Coelastrum</i> spp. <i>Pandorina morum</i> Natural unit/mL	In - house method : UAE.TP.HEM.002 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023 part 3112 B  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 10200 F

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Conductivity 100 $\mu\text{S}/\text{cm}$ to 13 000 $\mu\text{S}/\text{cm}$  - Salinity 0.5 ppt to 6.0 ppt	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 2510 B, 1060 B (Grab samples)  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 2520 B, 1060 B (Grab samples)

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2	Wastewater	- Coliforms MPN/100 mL  - Fecal coliforms MPN/100 mL  - <i>E. coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E, F

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2 (cont.)	Wastewater	- Fecal coliforms CFU/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9222 D
		- Enterococci CFU/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9230 C
		- Total dissolved solids dried from 103 °C to 105 °C 25 mg/L to 6 000 mg/L	In - house method : UAE.TP.WAO.007 based on Standard Methods for the Examination of Water and Wastewater, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 2540 C

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2 (cont.)	Wastewater	- Total dissolved solids dried at 180 °C 25 mg/L to 6 000 mg/L  - Total kjeldahl nitrogen 5.0 mg/L to 500 mg/L  - Color 10 ADMI to 300 ADMI	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 2540 C  In - house method : UAE.TP.WAS.001 based on Standard Methods for the Examination of Water and Wastewater, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500 - N <sub>org</sub> C  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 2120 F

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2 (cont.)	Wastewater	- Cyanide 0.005 mg/L to 0.100 mg/L  - Benzene 0.20 µg/L to 500 µg/L - Ethylbenzene 0.20 µg/L to 500 µg/L - Toluene 0.20 µg/L to 500 µg/L - <i>o</i> -Xylene 0.20 µg/L to 500 µg/L - <i>m, p</i> -Xylene 0.40 µg/L to 1 000 µg/L - Total xylene 0.60 µg/L to 1 500 µg/L	ISO 14403-2 : 2012  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 6200 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Phytoplankton (genus) <i>Scenedesmus</i> spp. <i>Pediastrum</i> spp. <i>Euglena</i> spp. <i>Phacus</i> spp. <i>Coelastrum</i> spp. Natural unit/mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 10200 F
		- Ammonia-Nitrogen 5.0 mg/L to 500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500 NH <sub>3</sub> C
		- Sulphide 0.50 mg/L to 3.0 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500 S <sup>2-</sup> F

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Conductivity 100 $\mu\text{S}/\text{cm}$ to 13 000 $\mu\text{S}/\text{cm}$  - Salinity 0.5 ppt to 6.0 ppt	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 2510 B, 1060 B (Grab samples)  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 2520 B, 1060 B (Grab samples)

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3	Seawater	- Coliforms MPN/100 mL  - Fecal coliforms CFU/100 mL  - Enterococci CFU/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9222 D  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9230 C

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3 (cont.)	Seawater	- Total petroleum hydrocarbon 0.05 µg/L to 3.00 µg/L  - Phosphate-Phosphorus 1.5 µg/L to 150 µg/L  - Ammonia-Nitrogen 50.0 µg/L to 1 000 µg/L	Intergovernmental Oceanographic Commission, Manual for Monitoring Oil and Dissolved/ Dispersed Petroleum Hydrocarbons in Marine Waters and on Beaches, 1984  In - house method : UAE.TP.WAT.002 based on Practical Handbook of Seawater Analysis Strickland and Parson, 1972  In - house method : UAE.TP.WAT.001 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500 NH <sub>3</sub> H

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
4	Ice	- Coliforms MPN/100 mL  - Fecal coliforms MPN/100 mL  - <i>E. coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E, F

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4 (cont.)	Ice	- Standard plate count CFU/mL  - <i>E. coli</i> Detected or not detected/100 mL  - <i>Salmonella</i> spp. Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9215 B  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 D, F  ISO 19250 : 2010

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5	Swimming pool water	- Coliforms MPN/100 mL  - Fecal coliforms MPN/100 mL  - <i>E. coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E, F

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
5 (cont.)	Swimming pool water	- Standard plate count CFU/mL  - <i>E. coli</i> Detected or not detected/100 mL  - <i>Salmonella</i> spp. Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9215 B  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 D, F  ISO 19250 : 2010

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6	Bottled drinking water	- <i>E. coli</i> Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 D, F
7	DI water	- Total organic carbon 250 µg/L to 2 000 µg/L	Standard Methods for the Examination of Water and Wastewater, APHA AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 5310 C
8	Drinking water	- Coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C

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8 (cont.)	Drinking water	- Fecal coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E
		- <i>E. coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E, F
		- Fecal coliforms CFU/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9222 D

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8 (cont.)	Drinking water	- Enterococci CFU/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9230 C
9	Cooling water	- Coliforms MPN/100 mL  - Fecal coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C  Standard Methods for the Examination of Water and Wastewater, APHA AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E

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9 (cont.)	Cooling water	- <i>E. Coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E, F
		- Standard plate count CFU/mL	Standard Methods for the Examination of Water and Wastewater, APHA AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9215 B
10	Soil	- pH 2.0 to 9.0	United States Environmental Protection Agency, 2004, EPA Method 9045 D, Revision 4

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11	Sludge	- pH 2.0 to 9.0	United States Environmental Protection Agency, 2004, EPA Method 9045 D, Revision 4

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