



Template for Evidence(s) UI GreenMetric Questionnaire

University : Alexandria University
Country : Egypt
Web Address : <https://alexu.edu.eg/>

[4] Water (WR)

[4.5] Water pollution control in campus area



Water quality analysis and monitoring at Alexandria University
Accreditation Certificate of Central Laboratory – Faculty of Science (Alexandria University)

Ministry of
Trade and Industry
Egyptian Accreditation Council
EGAC



وزارة التجارة والصناعة
المجلس الوطني للإعتماد
إيجاك

Schedule of Accreditation
for Testing Laboratory According to ISO/IEC 17025
Issued To

Central - Laboratory
Faculty of science Alexandria university
1 Baghdad street, Moharam Bey-Alexandria

Schedule No.: 218028B Issue No.(2): January 06, 2020 1st Accreditation date: February 28, 2019 Revision No. (1): Valid to: February 27, 2023

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements (%)	Standard Specifications / Techniques Used	
Water	Determination of pH	SMWW, 4500 H+:2017	pH Meter Model: HACHQ11D S.N. 170100010026 Code: CLS-03
	Determination of Turbidity	SMWW, 2130:2017	Turbidity Meter Model: PRIMELAB S.N. 110679, Code: CLS - 05
	Determination of Conductivity	SMWW, 2510:2017	Conductivity Meter, Model HACHQ14D S.N. 170100009834, Code: CLS - 04
	Determination of Phosphorus (LOQ= 0.03mg/L)	SMWW, 4500-P D:2017	Spectrophotometer, Model DR 3900 S.N. 1654957, Code: CLS-02 Balance Model: AS220R2 S.N. 509939, Code: CLS - 07

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Page 1 of 3

Industrial Investment Map: <http://investgypt.com> الصفحة الرئيسية خريطة الاستثمار الصناعي في مصر

كورنيش المعادي - برج رياض المعادي 1 - القاهرة - مصر
تليفون : ٢٥٢٧٥٢٢٠/٥/٦/٧ (٢٠٢)
فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

Scope of Accreditation of Central Laboratory – Faculty of Science (Alexandria University)

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Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements (%)		Standard Specifications / Techniques Used
	Element	LOQ (mg/L)	
Water & Waste water	Cu	0.10	SMWW, 3111:2017 Atomic Absorption, Model : Agilent contra AA300 S.N. 1600494, Code: CLS - 01 Balance-RADWAG, AS 220.R2, Poland, S.N. 509939, Code: CLS-07
	Zn	0.10	
	Cr	0.05	
	Mn	0.05	
	Ni	0.10	
	Fe	0.10	
	Organochlorine pesticides	LOQ (ppb)	SMWW 6630:2017 Gas Chromatography Model Perkin Elmer (Clarus 580) SN: 580S17101902, CLS - 06 Balance RADWAG Model: AS 220.R2 S.N. 509939, Code: CLS - 07
	P,P'-DDD	0.1	
	Alpha Hexachlorocyclohexane (HCH)	0.1	
	Delta Hexachlorocyclohexane (HCH)	0.1	
Lindane (Gamma HCH)	0.1		

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Page 2 of 3

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كورنيش المعادي - برج رياض المعادي 1 - القاهرة - مصر
تليفون : ٢٥٢٧٥٢٢٠/٥/٦/٧ (٢٠٢)
فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

Scope of Accreditation of Central Laboratory – Faculty of Science (Alexandria University)

Schedule of Accreditation
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Central - Laboratory
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1 Baghdad street, Moharam Bey-Alexandria

Schedule No.: 218928B Issue No.(2): January 06, 2020 1st Accreditation date: February 28, 2019 Revision No. (1): Valid to: February 27, 2023

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements (%)	Standard Specifications / Techniques Used
Water & Waste water	Organochlorine pesticides	SMWW 6630:2017 Gas Chromatography Model: Perkin Elmer (Clarus 580) SN: 580S17101902, CLS - 06 Balance-RADWAG, Model :AS 220.R2, Poland, S.N. 509939, Code: CLS-07
	LOQ (ppb)	
	Alpha Endosulpham	
	Beta Endosulpham	
	Cis-Chlordane	
	Trans-Chlordane	
P,P-DDT	0.1	

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فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

Page 3 of 3

الصفحة الرسمية خريطة الاستثمار الصناعي في مصر: <http://invest.gov.eg>

Scope of Accreditation of Central Laboratory – Faculty of Science (Alexandria University)

Schedule of Accreditation
for Testing Laboratory According to ISO/IEC 17025

Issued to
ICP-OES Laboratory
Institute of Graduate Studies and Research Alexandria University
(163) Horryia Avenue Shatby
Alexandria Governorate – Egypt

Schedule No.: 0222210B 1st Accreditation date: July 29, 2022 Issue No. (1): July 29, 2022 Revision No. (-): Valid to: July 28, 2026

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements	Standard Specifications / Techniques Used	
Water	Element	EPA method 200.7:2001 EPA method 6010 C:2007 Inductivity Coupled Plasma Optical Emission Spectrometer (ICP-OES) Model 5100 ICP-OES VDV S.N AU16020119	
	LOQ (ppb)		
	Al		26.6
	As		73.4
	Ag		4.00
	Ba		4.32
	Co		7.13
	Cr		4.40
	Cu		6.94
	Fe		24.0
	Mo		19.0
	Ni		22.5
	Pb		28.2
	Zn		104
	Sb		42.9
	Se		101
	Sr		7.93
	K		25.9
	Na		66.6
	Cd		4.00
Mn	2.97		
Mg	18.9		

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تليفون : ٢٥٢٧٥٢٢٠ / ٥ / ٦ / ٧ (٢٠٢)
فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

Page 1 of 2

الصفحة الرسمية خريطة الاستثمار الصناعي في مصر: <http://invest.gov.eg>

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ICP-OES Laboratory
Institute of Graduate Studies and Research Alexandria University
(163) Horryia Avenue Shatby
Alexandria Governorate - Egypt

Schedule No.:0222210B 1st Accreditation date: July 29, 2022 Issue No. (1): July 29, 2022 Revision No. (-): Valid to: July 28, 2026

Materials / Products Tested	Types of Tests / Properties Measured / Range of Measurements		Standard Specifications / Techniques Used
Soil	Element	LOQ (ppb)	EPA method 200.7:2001 EPA Method 3051 A:2007 EPA Method 6010 C:2007 Inductivity Coupled Plasma Optical Emission Spectrometer (ICP-OES) Model 5100 ICP-OES VDV S.N AU16020119
	Ag	43.2	
	As	52.8	
	Ba	11.1	
	Cd	12.3	
	Co	8.78	
	Cr	42.8	
	Cu	12.7	
	Mg	48.5	
	Mn	12.6	
	Mo	18.5	
	Ni	46.5	
	Pb	29.1	
	Zn	30.5	
	Se	21.8	
	Sr	2.31	
	Sb	46.5	
Ti	15.6		
Na	228		
Fe	202		

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Page 2 of 2

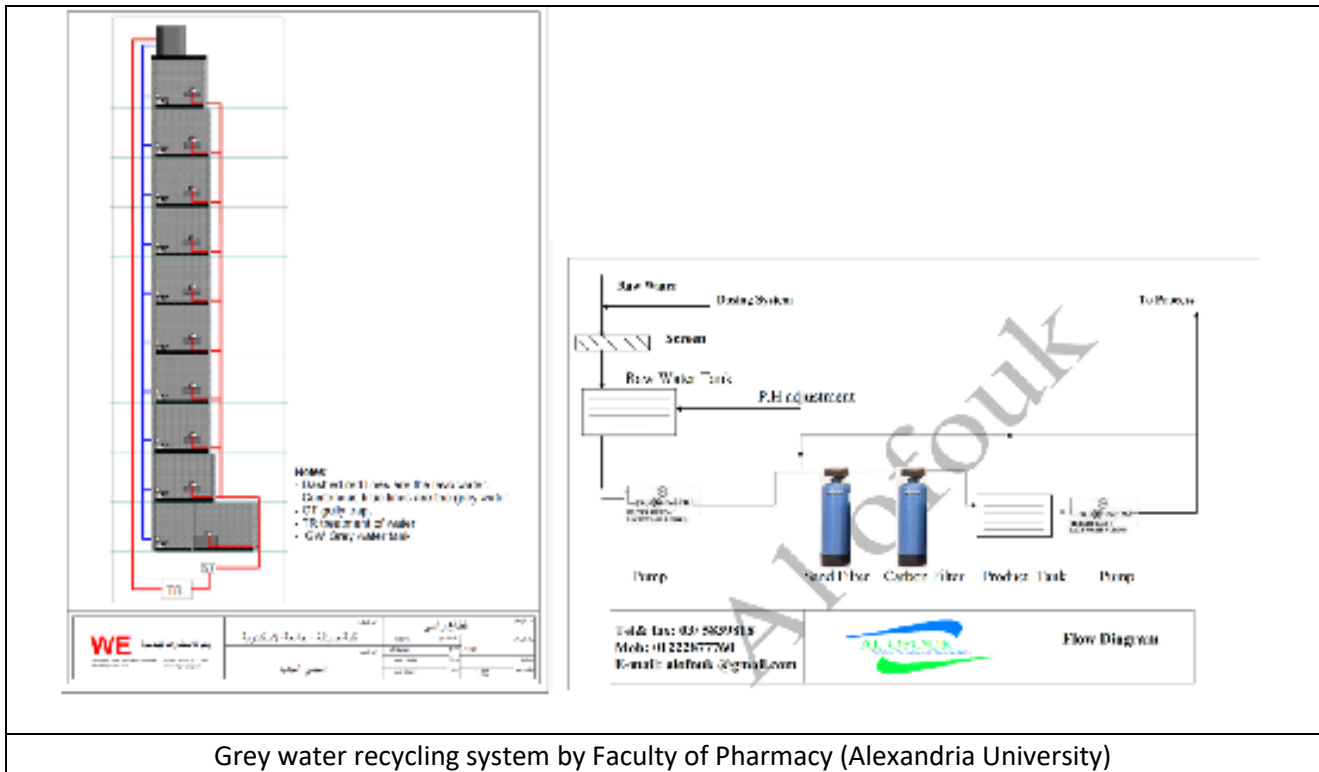
كورنيش المعادي - برج رياض المعادي ١ - القاهرة - مصر
تليفون : ٢٥٢٧٥٢٢٠/٥/٦/٧ (٢٠٢)
فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

Industrial Investment Map: <http://invegypt.com> الصفحة الرسمية لخريطة الاستثمار الصناعي في مصر

Scope of Accreditation of Institute of Graduate Studies and Research (Alexandria University)



The sewage water will be treated and reused in the irrigation of green areas in the project (Alexandria University)



Description:

The campus water pollution control to prevent polluted water from entering the water system is performed. Alexandria University has two accredited laboratories for the regular check water quality (Physical, Chemical parameters) on your campus. In addition, the biological parameters are analyzed by the Microbiology Professor and staff members regularly.

Water quality analysis and monitoring at Alexandria University.

- Accreditation Certificate of Central Laboratory – Faculty of Science (Alexandria University).
- Scope of accreditation of Central Laboratory – Faculty of Science (Alexandria University)

Link: <https://egac.gov.eg/en/entity-details/?tc=oKRMg7QVNpwrC2AcXP2REMBXozjKAU3KA86qpAI9>

- Scope of Accreditation of Institute of Graduate Studies and Research (Alexandria University)

Link: <https://egac.gov.eg/en/entity-details/?tc=fPqxMfyYx7MHFifwTbSpi9CWwRe8hCq25J2IFNG0>

Wastewater Treatment

Alexandria University has a system to prevent polluted water to enter the water system through Water quality analysis and monitoring.

The recycled irrigated water supplied to the fish farm at the Agriculture Experimental Research Station of the Faculty of Agriculture, is analyzed before using it to irrigate the crops, vegetables, and fruits of the land farm. In addition, the recycled water is used for crops culturing in the adjacent agriculture research center in Abis.

Guideline standard

Standard Methods for the Examination of Water and wastewater 22 edition (APHA).



Elements of Green Building Implementation as Reflected in all new construction and renovation policies in the new buildings in Abis campus:

- The area of the project is 160 acres, a general site for educational buildings, and 120 acres are complementary activities. The percentage of green areas and lake is about 52% in addition to 25% streets and lanes.
- Water-saving plots are used, which will reduce water consumption by about 30%. The sewage water will be treated and reused in the irrigation of green areas in the project.
- Rainwater is collected in the main lake and used for irrigation.
- The use of plants with few water rationed plants to reduce irrigation needs in addition to absorbing quantities of rainwater to reduce the severity of rain spells.

Green Cycle project in the Faculty of Pharmacy - Alexandria University

The project began in October 2022 by organizing a number of events in cooperation between the Community Service and Environmental Development Committee, ASPSA, and the Alexandria Rotary Clubs, under the supervision and organization of Faculty of Pharmacy - Alexandria University.

Also, the faculty is seriously seeking to implement a gray water (wastewater) recycling system that depends on reusing wastewater from sewage basins only (without using wastewater from laboratory basins) by re-pumping it into the flushing bins in the toilets after work. Filtration and primary treatment. The gray water recycling initiative has a significant impact on rationalizing water use.

Also, taking advantage of rainwater for use in irrigation and regulatory operations.

Alexandria University have generalized this initiative in some of the faculties of Alexandria University in gradual stages.

Link for Green Cycle Project:

<https://fb.watch/mzqhBHazV4/?mibextid=j8LeHn>