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شبكة المعلومات الجامعية

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التوثيق الالكتروني والميكروفيلم

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التوثيق الإلكتروني والميكروفيلم

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بالرسالة صفحات لم ترد بالأصل

Comparative Evaluation of Drinking Water Quality and Water Purification Systems in Ismailia Governorate

A Thesis

Submitted in partial Fulfillment of the requirements Of the Master degree of science in

Microbiology

By

Samy Abd EL-Hamid Selim

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To

Suez Canal University
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Comparative Evaluation of Drinking Water Quality and Water Purification Systems in Ismailia Governorate

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TO BE DEDICATED

TO

MY WIFE.

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ABBREVIATIONS

ABS	:	Abu Soir drinking water treatment plant.
ETK	:	El-Tall El-Kabier drinking water treatment plant.
EKS	:	El-Kantra Shark drinking water treatment plant.
SAR	:	Sarabium drinking water treatment plant.
ABK	:	Abu Kalifa drinking water treatment plant.
FAY	:	Fayed drinking water treatment plant.
EKG	:	El-Kantra Gharb drinking water treatment plant.
ISG	:	Ismailia City drinking water treatment plant. (Rapid sand filter)
ISF	:	Isamilia City drinking water French treatment plant. (Slow sand filter)
ISS	:	Isamilia City drinking water Scheck treatment plant. (Slow sand filter)
I	:	Inlet sampling sites.
II	:	Pre-chlorination sampling sites.
III	:	Outlet sampling sites.
Temp.	:	Temperature.
D.O.	:	Dissolved oxygen.
E.C.	:	Electro-conductivity.
T.S.S.	:	Total suspended solids.
T.D.S.	:	Total dissolved salts.
Free Chn.	:	Free chlorine
ALK.	:	Alkalinity.
Chlor.	:	Chlorides.
Ca^{++}	:	Calcium.
Mg^{++}	:	Magnesium.
T.H.	:	Total hardness.
T.V.B.	:	Total viable bacteria.
T.C.	:	Total coliforms.
F.C.	:	Faecal coliforms.
S & S	:	Salmonella & Shigella spp.
$DWTP_{(S)}$	:	Drinking water treatment plants.

CHAPTER 1
INTRODUCTION