

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



HOSSAM MAGHRABY



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



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جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم
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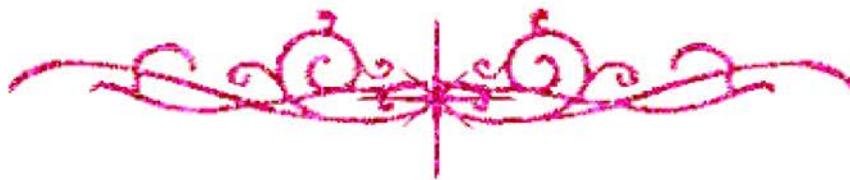


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الأصلية تالفة



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بالرسالة صفحات

لم ترد بالأصل



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شبكة المعلومات الجامعية
تم التسجيل ميكرو فياميا
التوثيق اليكتروني
1

ENVIRONMENTAL IMPACT ASSESSMENT OF INDUSTRIAL PARKS.

A Thesis Presented in Partial Fulfillment of the Requirements for Degree of Master in
Architecture

Supervised by:
Prof. Dr. Mohammed Abdel-Aal Ibrahim
Associate Prof. Dr. Inass F. Hamdy
Associate Prof. Dr. Yousry A. Azzam

By:
Neveen Ahmed Hamza
B.Sc Arch, Alexandria University

1995

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مكره

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We certify that we have read this thesis. in our opinion
it is fully adequate in scope & quality as a dissertation
for the Msc. degree.

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Acknowledgments

Special gratitude is due to my supervisors in the Department of Architecture, Faculty of Engineering, Alexandria University:

Prof. Dr. Mohammed Abdel-Aal: for constant encouragement, supervision, and objective criticism and guidance.

Ass. Prof. Dr. Inass Hamdy: for objective criticism and guidance and thorough reading of the thesis.

Ass. Prof. Dr. Yousry Azzam : for providing whatever available data about the case study region.

Special gratitude is due to managers of different industries of the Abu-Qir Bay region providing as much data as permissible, namely:

Eng. Mohammed Tohamy: General Director of the board of Rakta Co.

Ph.D. Eng. Fouad Katkout: General chief eng. of pulp sector

Eng. Mahmoud El-Malky: General Director of the board of EL- Ahleya Co.

Eng. Margaret Azer:: El- Ahleys Co. providing useful data and maps.

And to other personnel in Abu-Qir for Fertilizers and Chemical Industries And Kaha Co., who helped in the data gathering for the thesis but demanded anonymity

Special gratitude to my husband:

Eng. Sameh Mahmoud Shabaan: for useful and creative presentation tips, and for being patient, understanding, and always encouraging.

To
My Husband Sameh
My Parents
&
My Parents in law
&
Specially to
Baby Nour

Title: **Environmental Impact Assessment of Industrial Parks.**

Name: **Neveen A. Hamza.**

Passing through economic crisis Egypt has chosen industrial development parallel to agricultural development to overcome problems of a depreciated economy and high inflation rates.

As a new comer to industrialization during Mohammed Ali dynasty Egypt had followed an unsustainable environmental industrial growth pattern. Siting industries on the River Nile and its branches, on fertile agricultural lands, had affected many natural resources, and eventually environmental degradation was reflected on human lives. The problem has been magnified by the lack of public awareness of the industrial hazards, and means to deal with them.

This research aims at emphasizing the utilization of an Environmental Impact Assessment process, as a tool for proper environmental planning decision, to mitigate existing areas and prevent similar results of environmental degradation in new areas. A case study of Abu-Qir region is examined as an application of the theoretical part.

Abu-Qir Bay, one of the Mediterranean magnificent spots has been affected following the pattern of unplanned industrial growth in rural areas. The effects of its deteriorated environment is affecting the human, biological and physical environment. The region pointed by the Comprehensive Plan of Alexandria 2005, as in need of environmental assessment studies, mitigation and monitoring. The study of the area and methods of data gathering and analysis reaching the final recommendations is significant to draw further attention to the region, and prevent repetition of similar industrial siting experiences.

The study consists of 7 chapters, divided into two parts. The first part, starting by **chapter 1**, is a general introduction to the thesis, and its significance as well as the case study assignment, **Chapter 2**, is dedicated to explanations of the Environmental Impact Assessment Method, its constraints and means of

solving its problems. Similar industries to the case study area and means followed to mitigate their negative effects are presented.

Chapter 3, reviews industrial site selection and master planning economic and environmental requirements. **Chapter 4**, reviews the industrial risk assessment, causes of industrial hazards and means to prevent major catastrophes.

Chapter 5, reviews industrial siting experiences differentiated into three categories, the industrial sector, satellite or independent industrial cities. Location and planning criteria, environmental impacts and mitigation measures whenever available are explained and a comparison with the Abu-Qir region is drawn to understand its growth compared to other industrial sectors.

Part 2, is divided into two chapters. **Chapter 6**, focuses on the case study area. The chapter reviews a brief history of industrialization in Egypt, history and distribution of industrial activities in Alexandria. A profile for physical, regional planning, economic, and the work environment of the four major industries around the bay is drawn. **Chapter 7** A visual survey is conducted to enhance the environmental impact assessment of Abu-Qir Bay Region. Conclusions to the Case Study are drawn into two comprehensive tables. Finally the recommendations are given.

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