

**Attachment 6.8 Kingston Harbour
Environmental Project Final Phase II Report
(National Water Commission Jamaica, West
Indies, December 1993)**



KINGSTON HARBOUR ENVIRONMENTAL PROJECT

FINAL PHASE II REPORT Volume 2 of 3 - Appendices

prepared for

**National Water Commission
Jamaica - West Indies**

SENTAR

December, 1993

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8.3

LIST OF APPENDICES

- I ESL RIO COBRE REPORT - POLLUTION LOAD CONTRIBUTION
- II DUHANEY RIVER POLLUTION LOADING ASSESSMENT
- III UWA COMMUNICATION REGARDS FATE OF POLLUTANT LOADING FROM ST. ANDREW HILLS SOAKAWAYS
- IV KINGSTON ABATTOIR WASTE DISCHARGE REVIEW
- V CAYMANAS GARDENS LAGOON PERFORMANCE FINAL REPORT
- VI ROLE OF NUTRIENTS IN HARBOUR EUTROPHICATION
- VII UWA LIGUANEA AQUIFER STUDIES
- VIII SOA REPORT ON WASTEWATER TREATMENT SYSTEMS
- IX ECONOMIC ASSESSMENT OF PRIVATIZATION OPTION
- X PORTMORE SEWER SYSTEM
- XI KINGSTON SEWAGE TRANSMISSION SYSTEM & COST ESTIMATE DEVELOPMENT (FINAL)
- XII KINGSTON PUMPING STATION REQUIREMENTS & COST ESTIMATE (FINAL)
- XIII PRELIMINARY SEWAGE TREATMENT SYSTEM DESIGN & COST ESTIMATE
- XIV SEWERAGE SYSTEM STAGING COSTS
- XV DOWNTOWN KINGSTON SEWER SYSTEM UPGRADE COST ESTIMATE
- XVI CONSTRUCTED WETLANDS DISPOSAL SYSTEM AND COST ESTIMATE
- XVII FINANCIAL ASSESSMENT OF SEWERAGE SYSTEM IMPACT ON RATES
- XIX ESL PRELIMINARY SOCIOLOGICAL ASSESSMENT OF DEVELOPMENT OF THE SOAPBERRY LANDS FOR PLANNED A.I.P.S..

UNDER SEPARATE COVER - VOLUME 3

- XVIII ENVIRONMENTAL IMPACT ANALYSIS

APPENDIX I

**Pollution Load Contribution of the
Rio Cobre to Kingston Harbour - ESL**

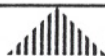
September 1993

KINGSTON HARBOUR ENVIRONMENTAL PROJECT
Pollution Load Contribution of the Rio Cobre to the
Kingston Harbour - Preliminary Study

Submitted to:

SENTAR CONSULTANTS LIMITED
KINGSTON, JAMAICA

SEPTEMBER 1993



REPORT

KINGSTON HARBOUR ENVIRONMENTAL PROJECT:
Pollution Load Contribution of the Rio Cobre to the
Kingston Harbour - Preliminary Study



Submitted to:

SENTAR CONSULTANTS LIMITED
KINGSTON, JAMAICA

by

Environmental Solutions Limited
27 Tobago Avenue, Kingston 10

SEPTEMBER 1993

EXECUTIVE SUMMARY

The preliminary study of the Rio Cobre's contribution to the pollution loading entering the Hunts Bay was accomplished by a combination of desk research and field work.

The field work which was carried out on April 1, 1993 involved the development and execution of a sampling programme along the entire river course (Figure 2.1). The parameters measured were biological oxygen demand (BOD), phosphate and nitrate. The data garnered from the field was supplemented by a review of historical data from work done by the Environmental Control Division (ECD), Centre for Nuclear Sciences at the University of the West Indies (CNS) and a study by Wade *et al.*

The results from all the studies were used in the calculations. River discharge data was obtained from the Underground Water Authority (UWA).

The study showed that the BOD, nitrate and phosphate pollution load contribution to Hunts Bay from the Rio Cobre are within the following range:-

| | |
|-----------|-----------------------|
| BOD | 144 - 209 tonnes/year |
| Nitrate | 139 - 206 tonnes/year |
| Phosphate | 44 - 65 tonnes/year |

It was not possible due to insufficient data to categorise the pollution load by Sector ie. industrial, agricultural and domestic. More extensive work, outside the scope of this study, will be required to obtain more definitive results.

TABLE OF CONTENTS

| | Page # |
|---|--------|
| EXECUTIVE SUMMARY | i |
| TABLE OF CONTENTS. | ii |
| LIST OF TABLES. | iv |
| LIST OF PLATES. | v |
| LIST OF GRAPHS. | vii |
| LIST OF FIGURES. | viii |
| | |
| 1. INTRODUCTION. | 1 |
| 1.1 Purpose. | 1 |
| 1.2 Terms of Reference. | 1 |
| | |
| 2.0 BACKGROUND. | 1 |
| 2.1 Description of the Study Area. | 1 |
| 2.2 Location of Sampling Stations | 2 |
| | |
| 3. METHODOLOGY. | 5 |
| 3.1 BOD. | 5 |
| 3.2 Nitrate. | 6 |
| 3.3 Phosphate. | 6 |
| 3.4 Faecal Coliform. | 6 |
| | |
| 4. RIVER CHARACTERISATION. | 8 |
| 4.1 River Discharge Data. | 8 |
| 4.2 Comparison of River Flow with Rainfall Data | 10 |
| 4.3 Crum Ewing vs Headworks. | 10 |
| 4.4 River Discharge at the time of the study | 13 |
| 4.5 Summary. | 15 |
| | |
| 5. RESULTS. | 16 |
| 5.1 Study Data | 16 |
| 5.2 BOD and other Nutrient Loadings into Hunts Bay. | 18 |
| 5.3 Other Pollution Sources. | 20 |
| 5.4 Summary. | 20 |
| | |
| 6. SECTORAL BOD LOADING. | 24 |
| 6.1 Industry. | 24 |
| 6.2 Domestic | 24 |
| 6.2.1 Population Data. | 24 |
| 6.2.2 Sewage Treatment Plants. | 25 |
| 6.2.3 Calculation of BOD Loading | 27 |
| 6.3 Agriculture. | 27 |

LIST OF TABLES

| | |
|-----------|--|
| Table 3.1 | Description of samples and sampling stations along the Rio Cobre. |
| Table 4.1 | List of Underground Water Authority (UWA) recording stations in the Rio Cobre Basin. |
| Table 4.2 | A comparison of rainfall data 1951-1980 and Rio Cobre discharge 1954-1991 at Headworks. |
| Table 4.3 | A comparison of rainfall data 1957-1980 for the Central Caymanas area and the Rio Cobre at Crum Ewing 1992. |
| Table 4.4 | A comparison of river discharge at selected UWA stations in the month of April 1993 against the previous average April discharges 1987-1991. |
| Table 5.1 | Results of sampling of the study area. |
| Table 5.2 | ECD results of sampling of the Rio Cobre 1992. |
| Table 5.3 | CNS results of sampling of the Rio Cobre 1992. |
| Table 5.4 | Wade <i>et al</i> results of sampling of the Rio Cobre 1979. |
| Table 5.5 | Calculation of BOD, NO ₃ , PO ₄ loadings (tonne/year) for the Rio Cobre (April 1993) and a yearly estimate. |
| Table 5.6 | Annual BOD and nutrient loading (Tonne/year) for the Rio Cobre using ECD and CNS data for 1992. |
| Table 6.1 | Population data (1992) for selected communities in the Rio Cobre Basin. |
| Table 6.2 | List of sewage treatment facilities in the Rio Cobre Basin emptying into the river. |

LIST OF PLATES

- Plate 1 Sampling Point 1 - Black River at Jericho.
- Plate 2 Sampling Point 2 - Sewage Treatment Plant at Charlemont Housing Scheme.
- Plate 3 Sampling Point 3 - Healthfield Bridge, Rio Cobre outside Linstead.
- Plate 4 Small farming activity on the banks of the Rio Cobre outside Linstead.
- Plate 5 Sampling Point 4 - Rio Cobre exiting Linstead and upstream Bog Walk on the United Estates.
- Plate 6 Cane and citrus cultivation on the bank of the Rio Cobre - United Estates.
- Plate 7 Sampling Point 5 - Rio Cobre merges with Thomas and Pedro Rivers outside Bog Walk.
- Plate 8 Sampling Point 6 - Rio Pedro River upstream Rio Cobre.
- Plate 9 Banana cultivation on the banks of the Rio Pedro.
- Plate 10 Sand dredging activities on the banks of the Rio Pedro.
- Plate 11 Rio Cobre at Headworks.
- Plate 12 Irrigation Canal, Rio Cobre at Headworks.
- Plate 13 Sampling Point 7 - Rio Cobre at Headworks outside Spanish Town.
- Plate 14 Sampling Point 9 - Crum Ewing Bridge.
- Plate 15 Charlemont Housing Scheme Sewage Treatment Plant.
- Plate 16 Tile field at New Works.
- Plate 17 Knollis Sewage Treatment Plant in Bog Walk.
- Plate 18 The Spanish Town Hospital Sewage Treatment Plant.
- Plate 19 Eltham Sewage Treatment Plant.

- Plate 20 Eltham Sewage Treatment Plant.
- Plate 21 Culvert taking wastewater into the Rio Cobre in
Spanish Town.
- Plate 22 De La Vega City oxidation ponds.

LIST OF GRAPHS

- Graph 4.1 Comparison between rainfall and river discharge at Headworks.
- Graph 4.2 Comparison between rainfall at the Central Caymanas region and river discharge at Crum Ewing.
- Graph 4.3 Comparison of rainfall at Headworks and Central Caymanas.
- Graph 4.4 Comparison of river discharge from April 1987 - 1991 and April 1, 1993.
- Graph 5.1 BOD loadings at stations on the Rio Cobre going towards Hunts Bay.
- Graph 5.2 NO_3 loadings at stations on the Rio Cobre going towards Hunts Bay.
- Graph 5.3 PO_4 loadings at Stations on the Rio Cobre going towards Hunts Bay.

LIST OF FIGURES

- Figure 2.1 Sampling points in the study area along the
Rio Cobre.
- Figure 5.1 Waterford Gully