

CHAPTER 4

State of Civil Infrastructure *Status Quo* Assessment

March 2009

*A Local Area Plan and Land Use Management Scheme for the Back of Port
Interface*

Prepared by **ARUP**

eThekweni Municipality



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Job number 181772

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1 INTRODUCTION

Towards the end of 2008, Arup (Pty) Ltd were requested by Graham Muller Associates to report on the current status of the existing infrastructure within the so called 'Back of Port' study area. This incorporating the areas of Congella, Clairwood, Jacobs and Moberi as defined in the Durban Town Planning Scheme.

This was to be achieved by engaging members of eThekweni Municipality (EM) as to the available information and consolidate this into a report.

2 STATUS OF EXISTING INFRASTRUCTURE

2.1 SOLID WASTE DISPOSAL

A general waste transfer station is located in Flower Road, Clairwood. This station is functioning adequately.

A garden waste transfer station is located in Tara Road, Wentworth. This station is under pressure due to the high volumes passing through. The way that the EM is coping is by allocating more staff and vehicles.

A garden waste transfer station is located in Travencore Road, Merewent. This station is functioning adequately.

The above information was obtained from Mr John Parkin of eThekwini Solid Waste Disposal. Tel 031-311 8820

2.2 ELECTRICAL SUPPLY

Electrical supply is separated into 11 kVA and less, and above 11 kVA.

Within the study area the 11 kVA and less, is divided into three separate areas of responsibility and the above 11 kVA is not divided.

The existing supply network is in good condition and is coping with the demand.

The above information was obtained from Mr Vasu Chetty (Above 11 kVA) and Mr Sayga Govender (11 kVA and below) Tel 031-311 9030

2.3 SEWER NETWORK

The Southern Waste Water Treatment Works is located off Byfield Road, Merewent.

In broad terms, the sewer infrastructure is aged and is due for replacement / upgrade.

The residential area's experience huge capacity problems during storms and lengthy rainy periods as storm water is allowed to enter the sewer system and thereby stresses the network as well as the pump stations and waste water treatment plant. The opinion is that either there are inadequate storm water facilities in the residential areas or there is little management of the storm water that falls on the individual properties.

The above information was obtained from Mr Naren Manickchund from the sewer operations side. Tel 031-3118871. Attempts were made to contact Mr Lawrence Davis of EM.

2.4 WATER RETICULATION

Ninham Shand are the Project Managers for an Asbestos Cement(AC) pipe replacement programme within the study area. Goba are actually implementing the project and advised that the programme is to only

replace AC pipes 150mm diameter and smaller. Goba do not have anything to do with the hydraulic model for the area and only replace what is required.

Arcus Gibb have conducted a pre-feasibility study to construct a 450 MI/day desalination plant on one of the ends of the runway of the airport site. It is presumed that this project would be to augment the water supply for the greater region.

Attempts were made to contact a number of staff of the EM regarding the water network with no success.

The above information was obtained from Mr Evan Smith of Ninham Shand, Mr Peter Davis of Goba and Mr Steven Pietersen of EM.

Attempts were made to contact the following members of EM:

Dave Larkin, Andrew Copley, Pedro Rodrigues and Peter Bond

2.5 STORM WATER NETWORK

Numerous attempts were made to contact Mr Greg Williams of EM.

The only comments received were from Mr Naren Manickchund from the sewer operations side. (See 2.3 above)

3 CLOSING COMMENTS

Having failed to make contact with the correct persons in the water, sewer and storm water sections it is difficult to make any meaningful comments regarding the current capacities of the infrastructure.

In order to get any meaningful input from EM it is suggested that a high level meeting be arranged with the Client at the EM.

With the limited information available we are of the opinion that any rezoning will mainly impact the electrical supply and the management of the storm water.

4 COMPOSITE SUMMARY AND STRATEGIC ISSUES

CHALLENGES	POSSIBILITIES	STRATEGIC ISSUES FOR BoP PROJECT
NATIONAL CONTEXT		
PROVINCIAL CONTEXT		
METROPOLITAN CONTEXT		
SOUTH DURAN BASIN CONTEXT		
<ul style="list-style-type: none"> Sewerage system is aged 	<ul style="list-style-type: none"> Replacements/upgrades should take cognizance of BoP strategy 	<ul style="list-style-type: none"> Replacements/upgrades should take cognizance of BoP strategy
<ul style="list-style-type: none"> Storm water is entering the sewer system 	<ul style="list-style-type: none"> Take measures to prevent this 	
<ul style="list-style-type: none"> Storm water system inadequate in residential areas 	<ul style="list-style-type: none"> Replacements/upgrades should take cognizance of BoP strategy 	<ul style="list-style-type: none"> Replacements/upgrades should take cognizance of BoP strategy
PLANNING AREA CONTEXT		
<ul style="list-style-type: none"> Sewerage system is aged 	<ul style="list-style-type: none"> Replacements/upgrades should take cognizance of BoP strategy 	<ul style="list-style-type: none"> Replacements/upgrades should take cognizance of BoP strategy
<ul style="list-style-type: none"> Storm water is entering the sewer system 		
<ul style="list-style-type: none"> Storm water system inadequate in residential areas 	<ul style="list-style-type: none"> Replacements/upgrades should take cognizance of BoP strategy 	<ul style="list-style-type: none"> Replacements/upgrades should take cognizance of BoP strategy