An Assessment of Residential Quality of Life in Old Port Harcourt Township of Port Harcourt Municipality

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Abstract: This study has assessed urban residential quality of life in two neighbourhoods of Port Harcourt, Rivers State, Nigeria – that is from the oldest part of the city, which dates back to colonial times. The study set out to ascertain residents' perception of neighbourhood attributes, residential quality of life as whole and the variables considered by residents to be the most important to enhance residential quality of life. Neighbourhood attributes were studied in situ without experimental manipulation and at one period in time, i.e. the study adopted a passive-observational research design. The study utilized both secondary and primary data sources. Primary data was collected using face-to-face administration of a largely pre-coded household questionnaire, to a probability sample of 193 respondents, drawn from the 2 neighbourhoods. Data analysis was based on responses from 193 questionnaires retrieved and the univariate analytical method was adopted. The study found, that residential quality of life in Port Harcourt Municipality was low with garbage on the streets and neighbourhoods. There was no street lighting in the neighbourhoods, periodic flooding occurring in the neighbourhoods. The study further revealed that 35.8% of the residents in the neighbourhoods were unhappy with their residential quality of life and 59.1% of the residents perceived their neighbourhoods to be of medium quality. A key conclusion of the study was that the improvement of neighbourhood residential conditions as perceived by the residents was important in raising residential quality of life, and recommendations included that in the provision of public infrastructure and services, the perceptions and preferences of the beneficiaries/target population must be taken into account to achieve user satisfaction.

Keywords: Residential, quality, life, Perception, Neighbourhood

1. Introduction

The concept, Quality of Life, encompasses the basic conditions of life, including adequate food, shelter, and safety, as well as “life enrichers”, which are based on the individual’s values, beliefs, needs and interests (WHO-IACCID, 2000). Measuring quality of life means that we value quality within people’s lives and that we want to maintain and/or enhance the things that already, or could, add quality to people’s lives. It also infers that we want to take action to improve the things that currently detract from quality of people’s lives (WHO-IACCID, 2000).

The search for quality of life, particularly in the city, has occupied post-industrial and predominantly urbanized societies (such as the United States of America and Great Britain) for more than 40 years. This has led to initiatives to measure the concept in urban areas (Senecal, 2002) who argued that, the concept of quality of life, as applied to the urban environment, is usually understood in two ways. The first concerns the living environment and involves the patterns of advantages, disadvantages and opportunities that affect each citizen through accessibility to services, facilities and amenities. Other elements of the living environment include economic vitality and social equity, which encapsulate an infinte number of specific issues, notably, the quality and affordability of housing. The second approach relates to the natural environment in urban spaces. This approach holds that such factors as air, water, soil quality; and the amount of available green space affect the ways we live (Senecal, 2002).

Senecal (2002) added that other aspects that may be used to identify quality of life include aesthetic value, satisfaction with one’s home, and patterns of governance and there are also issues of perception that take into account people’s experiences in the city, the routes they travel, and the sensory quality of their surroundings.

Nowadays, cities have become the target of quality of life measurement since they exhibit contemporary culture, ranging from technological development to social progress. Indeed, the process of urban planning and management is aimed at raising quality of life, especially with regard to improvement of facilities and services that fulfil socio-economic needs such as education, health, housing, entertainment, and safety (Discoli, et al., 2006).

Port Harcourt, one of Nigeria’s major cities, has been experiencing rapid urbanization since its inception in 1913. The city has grown from 5,000 persons in 1915, two years after its inception, to 79,634 in 1953, and to 179,563 in 1963 (Ogionwo, 1979). The 1991 census gave the city’s population as 440,399 and the 2006 census fixed it at 541115. The population was projected from the census figure of 2006 to a projected population of 963,373 in 2010 assuming linear growth and an average annual growth rate of 5.2%. This level of population growth has meant considerable spatial
expansion, which has engulfed once distant villages on the urban periphery, to the extent that they can no longer be distinguished but have become part of the urban fabric (Wokekoro and Owei, 2006).

Urban infrastructure and services have failed to keep pace with this growth. In addition to rising urban poverty, there is a worsening of urban environmental problems. Such challenges as poor solid waste management, uncontrolled housing and neighbourhood development, flooding, traffic congestion, poor state of the urban physical environment and rising crime rates have been documented (Ugwuorah, 2002; Mchi, 1997). More recently, Obinna, Owei and Mark (2010) have also noted the deplorable housing, inadequate space, and absence of basic services in the informal settlements of the city.

This state of affairs triggered the desire to measure residential quality of life in old Port Harcourt township of Port Harcourt Municipality both objectively and subjectively. The aim was to demonstrate the nature and magnitude of deficient conditions in the oldest part of the municipality and propose appropriate measures to deal with them. It is pertinent to note here that objective conditions or indicators “typically involve reports made by people who are not characterizing themselves” (Andrews, 1980); while subjective indicators refer to people’s perceptions or evaluations of aspects of their lives, for example, housing (Andrews, 1980).

1.1 Goal and Objectives of the Study

The goal of this study is to assess residents’ perception of residential quality of life in the Old Port Harcourt township of Port Harcourt Municipality, with a view to proffering policy measures for improvement.

The objectives of the study are to:

a) Ascertain residents’ perceptions of neighbourhood attributes;
b) Ascertain residents’ perceptions of residential quality of life.
c) Obtain perceived neighbourhood quality index (pnqi)
d) Ascertain the variables that are most important to residents in improving residential quality of life in Port Harcourt.

1.2 Scope of the Study

Spatially, the study covers the old Port Harcourt township of Port Harcourt Municipality; that is, Port Harcourt Local Government Area (PHALGA), namely:

a) Port Harcourt Township
b) Coronation Layout

1.3 Background Information about the Study Area

Port Harcourt, capital city of Rivers State, Nigeria, lies 40 km up the mouth of the Bonny River, in the Niger Delta. Originally known as “Igwu-Ocha” by the indigenous Ikwerre, was founded in 1913 by the British in an area traditionally inhabited by the Ikwerre and the Okrika Ijaw. It was named after Viscount Harcourt, then British Secretary of State for the Colonies. The initial purpose of the port was to export the coal, which geologist Albert Ernest Kitson had discovered in Enugu in 1912 (OgionwO, 1979).

It is one of Nigeria’s fastest growing cities. The average annual growth rate of Port Harcourt between 1963 and 2010 has been computed to be 5.2%. The growth of Port Harcourt is tied to the social and economic history of the country. Figure 1.1 is a map of Port Harcourt Municipality showing the study locations.

The city is a major educational, administrative, and industrial centre, and is regarded as the oil capital of Nigeria, since it hosts most of the nation’s multi-national oil and gas exploration and production companies, two refineries, petroleum-related service companies, as well as a fast expanding commercial sub-sector (Wokekoro and Owei, 2006).

Figure 1: Port Harcourt Municipality showing the study locations

2. Review of Relevant Literature

The meaning of the phrase “urban quality of life” differs a good deal as it is variously used but, in general, it is intended to refer to either the conditions of the environment in which people live (air and water pollution, or poor housing, for example), or to some attribute of people themselves (such as health or educational achievement) (Pacione, 2003).
Lotfi and Solaimani (2009) stated that a number of researchers have reviewed literature on Quality of Life (QOL) and there is general agreement that a meaningful definition of QOL must recognize that there are two linked dimensions to the concept, namely a psychological one and an environmental one. There are two sets of indicators for measuring quality of life with which most of the researchers are agreed. The first set comprises objective indicators which refer to the objective and visible aspects of urban life and are defined by different elements, for example the number of hospitals in a city, unemployment rate, the volume of crime and the area of urban green spaces. The second set comprises subjective indicators which try to measure and quantify the citizens’ satisfaction with those objective attributes (Lotfi and Solaimani, 2009).

QOL is concerned with people’s welfare. It is defined as something that makes life better. (Discoli et al., 2006). A number of domains of QOL (well-being) have been identified in the international quality of life literature. For example, University of Oklahoma School of Social Work (www.gdrc.org) identifies the following:

- Family and Friends;
- Work;
- Neighbourhood/Shelter;
- Community;
- Health;
- Education; and
- Spiritual.

Each domain contributes to one’s overall assessment of the QOL as a whole. The focus here is on the residential environment or what is referred to above as Neighbourhood/Shelter. Various researchers have addressed this dimension.

2.1 Research on Residential Quality of Life

Giannais (1996) used a structural approach to hedonic equilibrium model to quality a life of quality ranking of six cities in Southern Ontario, Canada namely: Guelph, Kitchener, London, Sarnia, St. Catharine, and Windsor and found that residential quality of life is a function of housing and neighbourhood characteristics (number of rooms, age of the house, crime rate, air quality, and mean annual temperature). The model was estimated using census tract data for the six cities. The study revealed that each of the six cities provides a different QOL distribution to its residents.

Pacione (2003) reported that in urban social geography, considerable effort has been directed at assessing the quality of different residential environments. Pacione (2003) in his paper explains the social geographical approach to research into QOL and urban environmental quality. A five-dimensional model for QOL research is presented, and a number of key conceptual and methodological issues were examined. Two case studies were employed to illustrate the application of the five-dimensional social geographical perspective in a real world context. The first case study of social geographical research in the field of QOL studies is selected to illustrate the use of objective territorial social indicators to examine differential QOL in the city of Glasgow. In his research, particular attention was focused on conditions at the disadvantaged end of the quality of life spectrum.

A combination of statistical and cartographic analysis was employed to identify the nature, intensity and incidence of multiple deprivations in the city. A set of 64 indicators relating to demographic, social, economic and residential conditions was extracted from the national census for each of the 5374 output areas in Glasgow. The data set was subjected first to univariate analysis to examine the distributions of individual social indicators across the city.

An R-type principal components analysis was used to explore the weave of linkages among the individual distributions, and to provide a conceptually and statistically rigorous composite measure of multiple deprivations. The study indicates that principal components were readily identified as indicators of multiple deprivations. Calculation of component scores provided a measure of deprivation for each of the 5,374 census output areas in the city. Mapping these scores revealed the spatial expression of multiple deprivations in Glasgow. This research identified the nature, intensity and incidence of multiple deprivations within the city. In addition, identification of the major loci of deprivation provided a basis for subsequent detailed analyses of particular problems and problem areas. The results also provided a basis for critical assessment of policies aimed at alleviating conditions of disadvantage, as well as a framework for future policy formulation.

The second example of the urban social geography approach to quality of life illustrates the use of subjective social indicators to gauge gender-differentiated fear of crime at the local level within Glasgow. His research was designed to gauge the nature and extent of fear of crime among male and female residents of a deprived social housing estate on the edge of Glasgow, and to identify the geography of fear within the area.

The research employed an interview procedure to determine the relative importance of crime as a social problem on the estate. For both males and females crime was regarded as the second most serious problem in the area. Related social problems were identified in references to the general unfriendliness of the locality and bad relations between residents and the police. Assault and burglary were the most prevalent crimes reported. Investigation of the fear of crime revealed clear gender-based differences. For most young males the high risk of assault was an accepted part of their lifestyle and living environment. Respondents accepted that they are ‘fair game’ and an automatic target for local gangs. The relative physical weakness of young females fostered a fear of assault and in particular sexual assault. These perceptions of
zones. Houses in the high-density area had the worst property of houses and the neighbourhood environment in each of the positive scoring, was used to assess the conditions and quality medium and low-density zones. Penalty scoring, rather than land use characteristics, the city could be divided into high, disease and epidemics. Based on existing demographic and areas where there was a likelihood of future incidences of study evaluated the housing infrastructure and identified those neighbourhood environments in Ibadan City, Nigeria. The Coker, key components of life satisfaction.

Camfield (2005) conducted a study on how different people characterize quality of life in 24 rural, peri-urban and urban sites in Bangladesh, Ethiopia, Thailand and Peru and found out that the basic ingredients of a good life are very similar, such as having a partner, a family (and a support network that extends beyond it), a good home, a pleasant environment and enough money or other resources to meet the daily needs of the family. Camfield (2005) also reported that the main priorities for people from Bangladesh are maintaining family harmony, getting salaried employment, and being educated, while for people in Ethiopia they are having your own home, enough to eat and drink and being respected by your neighbours. Camfield also added that the greatest differences are not between people from different countries but between men and women of different ages whose different identities or experiences cause them to value different things. For example, in Thailand, the older generation wanted to be healthy and able to attend the temple, while the young men wanted good jobs and motorbikes.

Hall, et.al.(2008) considered valuation of amenities in urban neighborhoods and satisfaction with both those neighborhoods and life in general. First, rents were used to estimate neighborhood amenities price in San Jose, which explained 39 percent of the standardized variation in rents. Some districts ranked very high in housing characteristics but poorly in neighborhood amenities, while others ranked poorly in housing characteristics but high in neighborhood amenities, suggesting that policy measures might reduce inequality in urban areas through improving neighborhood amenities.

Second, the paper explored differences in the valuation of amenities by calculating prices in different urban areas. In more sparsely populated urban areas, distance to national parks was less important, but distance to primary roads became more important. Finally, housing and safety satisfaction represented the key components of life satisfaction.

Coker, et al. (2007) carried out a survey of housing quality and neighbourhood environments in Ibadan City, Nigeria. The study evaluated the housing infrastructure and identified those areas where there was a likelihood of future incidences of disease and epidemics. Based on existing demographic and land use characteristics, the city could be divided into high, medium and low-density zones. Penalty scoring, rather than positive scoring, was used to assess the conditions and quality of houses and the neighbourhood environment in each of the zones. Houses in the high-density area had the worst property and environmental characteristics followed by houses in the medium-density area. Based on housing condition alone, approximately half of all the dwellings surveyed (n = 172) in the three zones were categorised as either substandard or unfit for human habitation. Based on neighbourhood environment, none of the high and medium-density housing areas and only one of the low density areas attained the good-scoring grade. This is attributed in part to the many residents who are polygamists. The houses are overcrowded with perhaps up to eight persons per room and to tenant abuse by internal conversion to increase the occupancy rate. More than half of the houses surveyed have at least or more major defect. Recommendations include government directed infrastructure improvements; a regeneration-drive by private investors with possible displacement of residents from the high-density zone to new towns; a vigorous programme of housing and health education; enhanced collaboration between stakeholders to develop enforceable standards for existing housing stock and future builds.

Salau (1986) examines the variations in the quality of life at the relatively neglected inter-urban scale in a developing nation. Based on a sample survey of 3,800 heads of households in Nigeria cities ranked into three categories: large, medium and small, the study found that level of living is related to city size, with the residents of large cities having a higher quality of life than those in the medium and small cities.

Guhathakurta and Sadalla (ND) stated that the contributions of water supply to the quality of life sector are straightforward. They reported that when the gap between demand and supply for water increases, there is a corresponding decrease in perceived quality of life. Alternatively, a decrease in the demand-supply gap for water improves quality of life perception.

3. Research Method

The target population is composed of household members residing in the neighbourhoods of the old Port Harcourt Township. This study adopted the stratified multistage sampling technique (Kish, 1965). The sampling stages are given below:

1) Stage 1: Selection of neighbourhoods/communities from old Port Harcourt Township (see selected communities in Table 1)
2) Stage 2: Listing of buildings and households from the selected neighbourhood/communities
3) Stage 3: Selection of households to be studied from the chosen Neighbourhoods/communities; and
4) Stage 4: Selection of household respondents in the households to be studied, preferably heads of households, since they are usually the most knowledgeable about residential attributes
To achieve a representative sample of households in each stratum, Yamane (1965) formula (given below) was applied.

\[
n = \frac{N}{1 + N(e)^2}
\]

Where \(n\) is the sample size, \(N\) is the population size, and \(e\) is the level of precision (here set at 10%).

Following determination of the sample size, the systematic sampling method (Kish, 1965) was used to select the households to be questioned from the ordered list of population elements.

**4. Findings of the Study**

This section presents results of analyses carried out in the course of the study. One hundred and ninety-three (193) household questionnaires were administered and 193 retrieved, i.e. a response rate of 100%. Analysis was therefore based on 193 households, representing 3.4% of the target population of households in the study area.

### 4.1 Neighbourhood Attributes

Table 2 displays the existence or otherwise of selected neighbourhood attributes in the two neighbourhoods of the Port Harcourt Township. The 7 selected attributes were:

1. Garbage On Streets
2. Street Lighting
3. Traffic Congestion
4. Neighbourhood Vigilante Groups
5. Neighbourhood Gangs
6. Periodic Flooding
7. Public Transportation

Table 2 reveals that garbage was found on the streets and neighbourhoods in the two neighbourhoods (See Plate 2). This shows that the neighbourhoods are not very clean, so government should intensify effort in its environmental sanitation programme. Table 2 also reveals that there were no street light in the two neighbourhoods and pose a threat to security as hoodlums can hide in darkness to harm passersby. The study presents traffic situation in good light. It reveals that there was no traffic congestion in the neighbourhoods (see Table 2). Table 2 further reveals that there were no neighbourhood vigilante groups. Table 2 further reveals that public transportation is available in the two neighbourhoods. Table 2 also revealed that periodic flooding occur in the neighbourhoods studied. Government and residents should intensify efforts to tackle the problem of flooding. Flooding in the city of Port Harcourt is caused mainly by blocked drains (see Plate 2).
4.2 Neighbourhood Services

Table 3 shows that each of the 2 neighbourhoods had at least one public primary school and a similar pattern is also reflected in the provision of public secondary schools.

Table 3: Distribution of Neighbourhood Services in the Two Study Neighbourhoods

<table>
<thead>
<tr>
<th>Services</th>
<th>Port Harcourt Maintown</th>
<th>Coronation Layout</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Schools (Public)</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Public Secondary School</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Private Recreational Areas</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Public Recreational Areas</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Traditional Markets</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Super Markets</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Retail Shops</td>
<td>5+</td>
<td>5+</td>
</tr>
<tr>
<td>Hospital/Clinics</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Fire Stations</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Police Stations</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

(Source: Authors’ Field Survey, 2011)

Table 3 also reveals the paucity of recreational facilities in the neighbourhoods. Each neighbourhood had a traditional (local) market. There were also supermarkets in study areas. Over 5 retail shops existed in each neighbourhood and hospitals and clinics were present in the 2 neighbourhoods. Each neighbourhood had a police station, suggesting adequacy of police protection.

4.3 Residents’ Perceptions of Selected Neighbourhood Attributes in the two (2) Neighbourhoods

Residents of the two (2) neighbourhoods were also asked to indicate their level of agreement or disagreement with statements describing selected attributes of their neighbourhoods. Table 4 shows these results. Most of the respondents (68.4%) agree that elementary schools are within easy reach from their dwellings in Port Harcourt Township. Eighteen percent of the respondents strongly disagree that there is a hospital or clinic within walking distance from their dwellings while 61.6% of the respondents agree that hospital or clinic is within walking distance from their dwellings.

Most of the respondents (72.5%) see their neighbourhoods in a positive light with regards to the statement that this neighbourhood is well provided with shopping facilities, such as traditional markets, grocery stores and supermarkets. Over half (64.7%) of the residents in Port Harcourt see their neighbourhoods in a positive light with regards to police station within easy reach from their dwelling. This implies that police protection is fairly adequate in these neighbourhoods.

Slightly over 30% of residents in the city disagree that their neighbourhoods are clean while 35.7% agree to the cleanliness of their neighbourhoods. The study further reveals that 44% of the residents in Port Harcourt Township see their neighbourhoods in a negative light with regards to street maintenance while only 30% of residents in Port Harcourt said the streets are well maintained. (See Plate 1). The study also shows that 55% of the respondents agree that their neighbourhood is a safe place to live in while a quarter of the respondents disagree to the safety of their neighbourhood in the township (See Table 4).

Plate 1: A Well Maintained Street in Port Harcourt Township
(Source: Authors’ Field Survey, 2011)

Table 4: Perception of Selected Neighbourhood Attributes in the Old Port Harcourt Township

<table>
<thead>
<tr>
<th>Neighbourhood Attributes</th>
<th>Port Harcourt Main Township</th>
<th>N %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>193</td>
<td>100</td>
</tr>
</tbody>
</table>

There is a hospital/clinic within walking distance from my dwelling

| 1.0 Disagree Strongly   | 21 | 10.9 |
| 2.0 Disagree Somewhat   | 13 | 6.7  |
| 3.0 Neither Agree Nor Disagree | 40 | 20.7 |
| 4.0 Agree Somewhat      | 62 | 32.1 |
| 5.0 Agree Strongly      | 57 | 29.5 |
| Missing Data            | 0  | 0    |
| Total                   | 193| 100  |

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This neighborhood is well-provided with shopping facilities, such as traditional markets, grocery stores, and supermarkets.

<table>
<thead>
<tr>
<th>1.0 Disagree Strongly</th>
<th>2.0 Disagree Somewhat</th>
<th>3.0 Neither Agree Nor Disagree</th>
<th>4.0 Agree Somewhat</th>
<th>5.0 Agree Strongly</th>
<th>Missing Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>3.1</td>
<td>26</td>
<td>13.5</td>
<td>21</td>
<td>10.9</td>
</tr>
<tr>
<td>29</td>
<td>15.0</td>
<td>62</td>
<td>32.1</td>
<td>63</td>
<td>32.6</td>
</tr>
<tr>
<td>73</td>
<td>37.8</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>193 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

There is a police station in this neighbourhood within easy reach from my dwelling.

<table>
<thead>
<tr>
<th>1.0 Disagree Strongly</th>
<th>2.0 Disagree Somewhat</th>
<th>3.0 Neither Agree Nor Disagree</th>
<th>4.0 Agree Somewhat</th>
<th>5.0 Agree Strongly</th>
<th>Missing Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>11.4</td>
<td>29</td>
<td>15.0</td>
<td>63</td>
<td>32.6</td>
</tr>
<tr>
<td>24</td>
<td>12.4</td>
<td>61</td>
<td>31.6</td>
<td>8</td>
<td>4.1</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>193 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This neighborhood is clean.

<table>
<thead>
<tr>
<th>1.0 Disagree Strongly</th>
<th>2.0 Disagree Somewhat</th>
<th>3.0 Neither Agree Nor Disagree</th>
<th>4.0 Agree Somewhat</th>
<th>5.0 Agree Strongly</th>
<th>Missing Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>18.7</td>
<td>64</td>
<td>33.2</td>
<td>7</td>
<td>3.6</td>
</tr>
<tr>
<td>24</td>
<td>12.4</td>
<td>61</td>
<td>31.6</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>193 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The streets in this neighbourhood are well-maintained.

<table>
<thead>
<tr>
<th>1.0 Disagree Strongly</th>
<th>2.0 Disagree Somewhat</th>
<th>3.0 Neither Agree Nor Disagree</th>
<th>4.0 Agree Somewhat</th>
<th>5.0 Agree Strongly</th>
<th>Missing Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>23.8</td>
<td>50</td>
<td>25.9</td>
<td>7</td>
<td>3.6</td>
</tr>
<tr>
<td>39</td>
<td>20.2</td>
<td>51</td>
<td>26.4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>193 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This neighborhood is a safe area to live in.

<table>
<thead>
<tr>
<th>1.0 Disagree Strongly</th>
<th>2.0 Disagree Somewhat</th>
<th>3.0 Neither Agree Nor Disagree</th>
<th>4.0 Agree Somewhat</th>
<th>5.0 Agree Strongly</th>
<th>Missing Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>11.4</td>
<td>37</td>
<td>19.2</td>
<td>53</td>
<td>27.5</td>
</tr>
<tr>
<td>27</td>
<td>14.0</td>
<td>53</td>
<td>27.5</td>
<td>1</td>
<td>.5</td>
</tr>
<tr>
<td>Total</td>
<td>193 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Plate 2: A Drain Blocked with Waste and on the Street at Coronation Layout
(Source: Authors’ Field Survey, 2011)

Table 5: Evaluation of Selected Neighbourhood Attributes in Old Port Harcourt Township

<table>
<thead>
<tr>
<th>Neighbourhood Attributes</th>
<th>Port Harcourt Main Township</th>
<th>N %</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Would you say that there are too few elementary schools in this neighbourhood, too many, or is the number about right</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Too Few</td>
</tr>
<tr>
<td>2. About Right</td>
</tr>
<tr>
<td>3. Too Many</td>
</tr>
<tr>
<td>4. Missing Data</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

Considering the location of shopping facilities in this neighbourhood, do you think that it is very difficult to get to them for the purchase of your daily needs, rather difficult neither difficult nor easy, fairly easy or very easy?

<table>
<thead>
<tr>
<th>Difficulty Level</th>
<th>N %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Very Difficulty</td>
<td>15</td>
</tr>
<tr>
<td>2. Rather Difficult</td>
<td>32</td>
</tr>
<tr>
<td>3. Neither Difficult Nor Easy</td>
<td>33</td>
</tr>
<tr>
<td>Fairly Easy</td>
<td>47</td>
</tr>
<tr>
<td>5. Very Easy</td>
<td>63</td>
</tr>
<tr>
<td>6. Missing Data</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>193</td>
</tr>
</tbody>
</table>

B.13c. In your opinion, are there too few hospitals/clinics serving this neighbourhood, too many. Or is the number about right?

(See Table 5 and Plate .2). This implies that the city council has not fully lived up to its responsibility, so should improve on it services in this regards.

Most respondents (57%) stated that it is fairly easy to get to shopping facilities to purchase their daily needs (see Table 5). Table 5 further shows that 72% of the respondents reported that the condition of streets allow people and vehicles to move about with no difficulty at all while 22.2% of the respondents reported that the conditions of streets makes it difficult for people and vehicles to move about.

4.4 Residents’ Evaluation of Selected Neighbourhood Attributes in the Two Neighbourhoods

The residents were asked to indicate whether certain attributes of their neighbourhood environment were too few, about right or too many. The responses are presented below. Table 5 shows that 40.9% of the respondents stated that elementary schools were about right in the city while 35.8% said that primary schools were too few.

Table 5 reveals that 43.5% of the respondents said hospitals/clinics were too few in Port Harcourt Township while 32.1% of the respondents said that the hospitals/clinics were about right. The modal distribution reveals that police stations were too few in the city. Most of the residents (33.2%) in the city said that the city council never picks up waste while 52.3% of the residents said that the city council pick up waste occasionally (See Table 5 and Plate .2). This implies that the city council has not fully lived up to its responsibility, so should improve on it services in this regards.

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1. Too Few 84 43.5
2. About Right 62 32.1
3. Too Many 42 21.8
4. Missing Data 5 2.6
Total 193 100

Do you think that there are too few police stations, too many, or that the number is about right to provide the services necessary for safety here?

1. Too Few 117 60.6
2. About Right 58 30.1
3. Too Many 6 3.1
4. Missing Data 12 6.2
Total 193 100

Does the city council pick up the garbage in this neighbourhood very often, often, occasionally, or never?

1. Never 64 33.2
2. Occasionally 101 52.3
3. Often 11 5.7
4. Very Often 17 8.8
5. Missing Data 0 0
Total 193 100

In your opinion, does the condition of streets in this neighbourhood allow people and vehicles to move about with great difficulty, with some difficulty, or with no difficulty at all?

1. With Great Difficulty 2 1.0
2. With Some Difficulty 41 21.2
3. With No Difficulty at all 139 72.0
4. Missing Data 11 5.7
Total 193 100

4.5 Other Neighbourhood Attributes

Data from the study show generally condition of roads and drains in the township. For example, 68.4% of the roads are tarred, 48.7% of the streets have drains but they are blocked and 22.3% of the streets do not have drains at all. Only 25.9% of the residents said drains were flowing.

Table 6 reveals that the main source of noise in the neighbourhoods is from electric generators with a percentage of 48.7%. This is not surprising as the public supply of power is unreliable. This is closely followed by noise from automobiles. The study areas are free from noise from industries as revealed in Table 6. Transportation for public use is in form of Combi buses and taxis by individual small operators. They are unregulated and in poor condition generally. However, most residents use these taxis and buses as means of transportation in the city. The main source of water supply generally is the borehole as shown in Table 6 and most residents buy water from owners of private boreholes. About half of the residents affirm that the average power supply in a day is 3-8 hours.

4.6 Neighbourhood Quality Index

Table 7 reveals that 59.1% of residents in the two neighbourhoods altogether perceived their neighbourhood to be of medium quality while only 3.1% and 29.0% perceived it to be of low and high quality respectively.
The study also reveals that there was no street lighting in virtually all the neighbourhoods except in the Old GRA where it existed in a few streets. This is a serious problem and with the rising incidence of crime poses security threats in the neighbourhoods. The study further reveals that neighbourhood gangs existed in Coronation Layout. The findings are similar to those of Pacione (2003) who studied the nature and extent of fear of crime among male and female residents of a deprived social housing estate on the edge of Glasgow, and used the information to identify the geography of fear within the area. His research revealed that for both males and females crime was regarded as the second most serious problem in the area. His research further revealed that for most young males the high risk of assault was an accepted part of their lifestyle and living environment and fear of sexual assault for young females. Respondents according to him accepted that they were ‘fair game’ and an automatic target for local gangs. This is certainly true for some parts of the study area.

The study also reveals that periodic flooding occurred in all the neighbourhoods. Most of the flooding is caused by blocked drains and construction of houses on natural drains. Educating the masses on waste management and good sense of environmental management will tackle the problem of periodic flooding to some extent. Control of development on natural drains and proper planning will also contribute to tackling the flood problem.

The study reveals that transportation for public use was readily available to the public, but it was provided by small scale operators in the private sector. The study reveals that the streets were tarred and in good condition in Port Harcourt Township while the roads were in poor condition in Coronation Layout. Most residents in Coronation Layout, and Port Harcourt Main Town affirmed that available drains were blocked while some residents said there were no drains. This is a critical issue as it can contribute to flooding during the rainy season and it is also a health challenge.

The study also reveals another unbearable problem which was noise pollution and this was mainly from private generators used for electricity generation as a result of irregularity in electricity supply from the Power Holding Company of Nigeria (PHCN). This study also reveals that the average power supply across the neighbourhoods ranged from just 3 to 8 hours per day. Interestingly, Marans (1979) in his study also found that conditions which were bothersome to the greatest number of neighbourhood residents were noise, heavy traffic, crime, litter and poorly maintained streets.

This is the reality in the municipality and requires concerted intervention by government to ameliorate the situation. The incessant power cuts have increased noise pollution in our neighbourhoods and this also poses health risks as a result of the noise and air pollution. The study also reveals that there was at least one primary and secondary school in each of the neighbourhoods but one fire station in the whole of Port

### Table 7: Neighbourhood Quality Index (Port Harcourt Township)

<table>
<thead>
<tr>
<th>Quality</th>
<th>Port Harcourt Main Township</th>
</tr>
</thead>
<tbody>
<tr>
<td>N %</td>
<td></td>
</tr>
<tr>
<td>Perceived Neighbourhood Quality</td>
<td></td>
</tr>
<tr>
<td>Low (1)</td>
<td>6</td>
</tr>
<tr>
<td>Medium (2)</td>
<td>114</td>
</tr>
<tr>
<td>High (3)</td>
<td>56</td>
</tr>
<tr>
<td>Missing</td>
<td>17</td>
</tr>
<tr>
<td>Total</td>
<td>193</td>
</tr>
</tbody>
</table>

(Source: Authors’ Field Survey, 2011)

### 4.7 Perceived Residential Quality of Life

Table 8 captures the perception of residential quality of life in the study area with 64.8% of respondents reporting a negative quality. Specifically, 35.8% of the residents across the neighbourhoods were unhappy with their neighbourhood conditions while 20.7% perceived their residential environment as terrible. Only 16.1% of residents were pleased with their residential environment.

The study shows that most residents believed that employment, provision of basic amenities and better housing will improve their residential quality of life. The suggestions by the residents were that government should force landlords to renovate their houses, the building of low cost housing estate and provision of basic amenities.

### Table 8: Perceived Residential Quality of Life of the Port Harcourt Town

<table>
<thead>
<tr>
<th>Residential Quality of life as a whole</th>
<th>N</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.Terrible</td>
<td>40</td>
<td>20.7</td>
</tr>
<tr>
<td>2.Unhappy</td>
<td>69</td>
<td>35.8</td>
</tr>
<tr>
<td>3.Mostly dissatisfied</td>
<td>16</td>
<td>8.3</td>
</tr>
<tr>
<td>4.Mixed</td>
<td>22</td>
<td>11.4</td>
</tr>
<tr>
<td>5.Mostly satisfied</td>
<td>5</td>
<td>2.6</td>
</tr>
<tr>
<td>6.Pleased</td>
<td>31</td>
<td>16.1</td>
</tr>
<tr>
<td>7.Delighted</td>
<td>10</td>
<td>5.2</td>
</tr>
<tr>
<td>8.Missing data</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Total</td>
<td>193</td>
<td>100</td>
</tr>
</tbody>
</table>

(Source: Authors’ Field Survey, 2011)

### 5. Discussion of Findings

#### 5.1 Conditions of the Neighbourhood Residential Environment

Only the neighbourhood level of the residential environment was examined in this study. The study reveals that garbage existed on the streets and neighbourhoods. This shows that neighbourhoods were not very clean and the government should intensify effort to clean the environment through its monthly environmental sanitation programme and daily collection of waste should be improved.
Harcourt municipality. This is grossly inadequate. More fire stations are needed in the study area. This gross inadequacy of fire stations has led to destruction of buildings by fire in recent times in the city.

The study reveals that shopping facilities such as retail shops existed in the neighbourhoods. Hospitals and clinics were available in neighbourhood. Marans (1979) also reported such inadequacies in public services provision of health care, shopping and transportation facilities in his study of the determinants of neighbourhood quality. One major finding of this study was the current situation of water supply by the government in the city as a whole. In the study area, most residents bought water from owners of private boreholes while only a few of the residents had pipe-borne water from government. This is a critical issue and shows that government provision of this basic and important service is virtually nonexistent. This is in line with findings from previous studies. Wokekoro (2005) also established that the main source of water supply was the private borehole in Port Harcourt. This shows that the water supply situation has not improved in the city. In order to ensure public health and safety there must be adequate supply of water. It is unlikely that Target 10 of the Millennium Development Goal (MDG) 7 will be achieved by the year 2015. MDG 7 urged governments and policy makers to “halve the proportion of people without access to safe drinking water and basic sanitation by 2015”. It also implies that the primary goal of successive National Housing Policies which is to ensure that all Nigerians own or have access to decent, safe and sanitary housing accommodation of affordable cost with secure tenure has not been achieved. These conditions were also observed by Ogionwo (1979) and Izeogu (1989), which shows that housing condition, has not improved.

Another salient finding of the study pertains to household waste collection and disposal. 33.2% of respondents agree that their household waste was never collected by the municipal authority. Waste collection and disposal was mostly by private refuse vendors using locally fabricated metal carts. Slightly over half of the residents confirmed that household waste was collected by government agencies occasionally. The dumping of refuse into creeks, drains and roads is a major cause of water pollution, flooding and insanitary environment. The blocked drains have become breeding grounds for mosquitoes and subsequently affect the health of residents.

5.2 Residents’ Perception of the Residential Environment

Most respondents strongly agreed that elementary (primary) schools and police stations were within easy reach of their dwellings. This shows that physical access to primary schools and police posts was fairly adequate in the neighbourhoods. Most respondents agreed that their neighbourhoods were well provided with shopping facilities such as local markets, supermarkets and retail shopping outlets. These facilities are private business enterprises engaged in for economic survival. A further finding was that 61.6% of respondents agreed that there was a hospital or health clinic within walking distance of their dwelling while over 17.6% of the respondents disagreed. Most respondents (43.5%) in the neighbourhoods also affirmed that hospitals/clinics were too few. Within the municipality there are five public health care facilities, comprising two Specialist hospitals, and three primary health centres. The rest are private outfits.

One major finding of the study was that most residents across the neighbourhoods rated maintenance of streets, recreational areas, safety of lives and properties, residential planning, provision of housing for the poor, hospitals/clinics, fire stations, police stations, waste collection and disposal as very inadequate while most respondents rated public schools, public transport and shopping facilities as generally adequate. The finding of this study is similar to that of Wokekoro (2005) in terms of street maintenance. Wokekoro (2005) observed streets with potholes (35.9%) which showed lack of street maintenance.

5.3 Perceived Residential Quality Of Life

The study reveals that 35.8% of the residents were unhappy with their residential environment while 16.1% were pleased with their residential environment. The study further reveals that most residents believe that employment, provision of basic amenities and housing would improve their residential quality of life. The most prominent suggestions were that government should force landlords to renovate their houses; government should construct low cost houses for the masses and provide basic amenities.

6. Conclusions and Recommendations

In this study the residential quality of life in Port Harcourt was examined. The paper examined one aspect of the residential environment namely: the neighbourhood. Based on the study most residents across the neighbourhoods rated maintenance of streets, recreational areas, safety of lives and properties, residential planning, provision of housing for the poor, hospitals/clinics, fire stations, police stations, waste collection and disposal inadequate. The study further reveals that most residents rated public schools, transportation and shopping facilities very adequate.

The study concludes that most residents were not satisfied about their residential conditions such as electricity supply, water supply and waste collection and disposal. The study further revealed that 35.8% were unhappy with their residential quality of life and 59.1% of the residents perceived their neighbourhoods to be of medium quality. A key conclusion of the study was that the improvement of neighbourhood residential conditions as perceived by the residents was important in raising residential quality of life, and that in the provision of public infrastructure and services, the perceptions and preferences of the beneficiaries/target population must be seriously taken into account to achieve user satisfaction.
The study has shown that most respondents were not satisfied with street maintenance in their neighbourhoods. Government should ensure the proper maintenance of roads and streets, taking advantage of funds available in the National Urban Development Bank, assistance from international development agencies and through private-public-partnership (PPP) arrangements.

6.2.2 Safety of Lives and Property

The study reveals that virtually in all the neighbourhoods there was no street lighting. This is a security issue and this essential service should be provided by government. The study further reveals that most people in some neighbourhoods were not satisfied with the level of police protection. This is a responsibility of government and should be adequately addressed. Neighbourhood vigilante groups should be encouraged to work in collaboration with the police also in securing lives and properties since security is everybody’s business.

The study also reveals that electricity supply and water supply were inadequate. Furthermore it was found that the main source of noise pollution was from the use of electric generators brought about by incessant power cuts in the city. People were very dissatisfied with electricity supply. Regular power supply could be achieved through public-private partnership and current privatization process embarked upon by the Federal Government. Government provision of water supply was virtually nonexistent. Government should partner with the private sector to provide this essential service to the populace. Government should also look into other forms of electricity generation such as solar power, biomass, wind, tidal energy which is in abundant supply in the country.

The study also found that people were not satisfied with waste collection and disposal. Waste collection should be done on regular basis. Public-Private partnership should also be adopted. The current practice of waste disposal into drains by the residents should be discouraged and appropriate measures should be put in place to punish perpetrators. The monthly environmental sanitation exercise should be used as a public enlightenment tool; during the exercise, the practice of removing waste from drains and putting same on the roadsides should be discouraged.

References


Authors Profile

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