

Kuching Water Board

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2014

Lembaga Air Kuching / Kuching Water Board
LAPORAN TAHUNAN
ANNUAL REPORT

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KWB CORPORATE SONG

KWB Cemerlang

Di sini kami berbakti
Membekal air berkualiti
Berkhidmat dengan intergriti
Kami warga K.W.B.

Berdaya maju, berdaya saing
Setiap langkah perlu seiring
Berkerjasama berganding bahu
Untuk satu hala tuju

Berganding tangan; bersatu hati
Bersama kita jadikan realiti
Satu wawasan pegangan kami
Ke arah perkhidmatan cemerlang



KUCHING WATER BOARD

OUR VISION

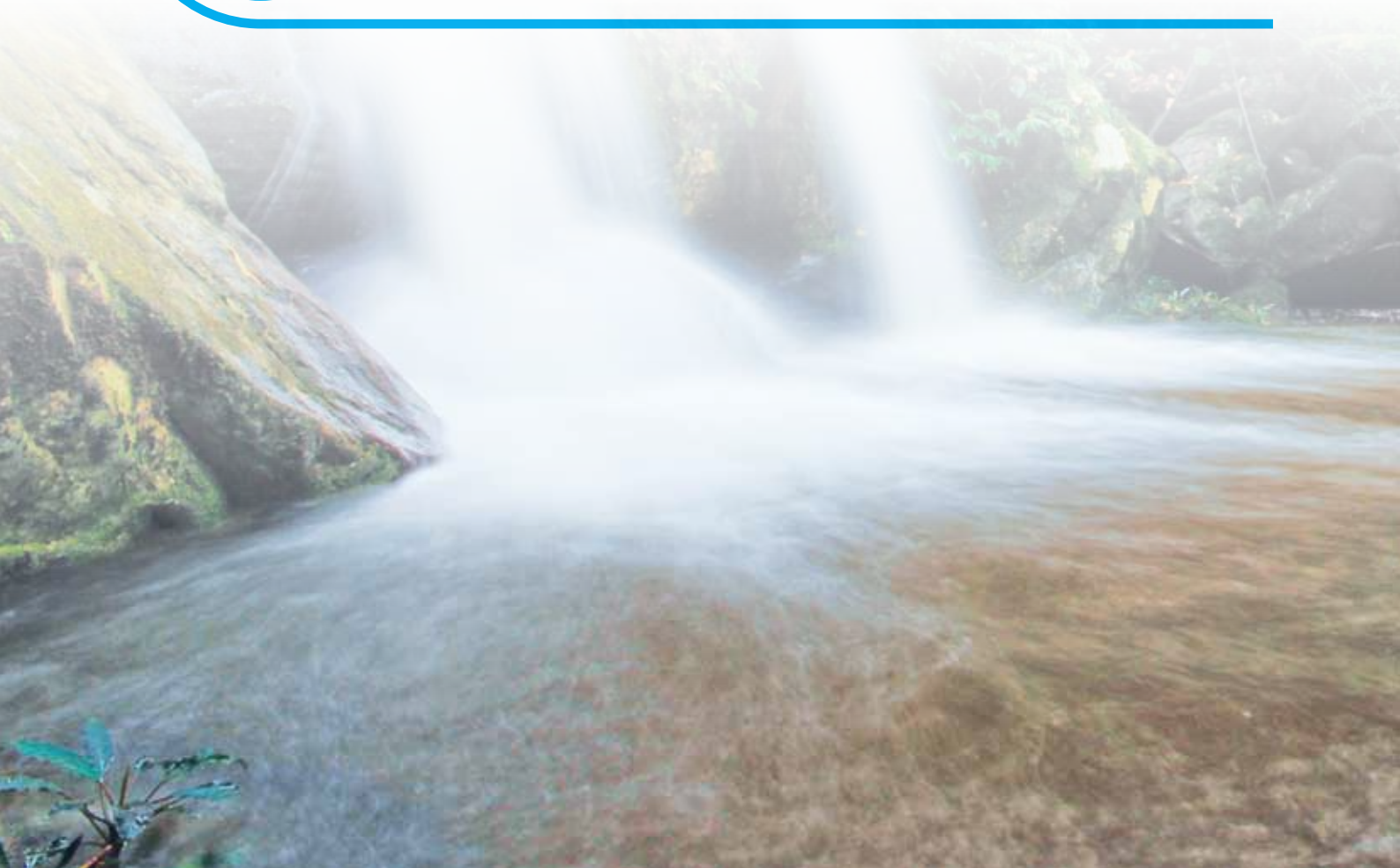
To Be a Dedicated and Dynamic Water Supply Agency with Culture and Values that are Excellence Driven and Performance Oriented which Consistently Provides Services that meet Full Consumers' Satisfaction.

To Provide Adequate and Reliable, Quality Potable Water Supply at Acceptable Charges to All Consumers within its Area of Jurisdiction at the Highest Attainable Standards in Quality and Service.

OUR MISSION

OUR SLOGAN

Towards Service Excellence



CHAIRMAN'S STATEMENT



YBhg. Dato Sri Ahmad
Tarmizi Bin Haji Sulaiman

INTRODUCTION

On behalf of the Board of Directors of Kuching Water Board, I am pleased to present the Annual Report and Audited Financial Statements for the twelve month (12) months of financial year ended 31st December 2014.

REVIEW OF FINANCIAL PERFORMANCE

For the Financial year ended 31st December 2014, the Board has recorded a net profit after taxation of RM19,141,708. Total revenue was RM126,153,374, expenditure was RM112,054,487, while tax adjustment was RM5,042,821.

The overall financial performance of the Board for the Year 2014 remains positive. Total asset rose by 7% to RM868,471,362, total liabilities increased by 3% to RM618,305,087 and the Board retained earnings increased by 1% to RM250,166,275. To finance major development project, the Board will continue to seek interest free loans or grants from the government.

For the financial year of 2014, a total of RM3,972,778 has been disbursed by the government to finance the development projects. As at 31st December 2014, total loan balance stood at RM245,889,618.

PLANNING AND DEVELOPMENT

The Board's development programme had been drawn up to meet the projected increase in water demand due to growth and development in the Kuching City and its surrounding areas in line with the State's socio-economic development plan.

The Board continued to implement two developments programs to ensure more reliable supply of treated water with the upgrading of Batu Kitang Water Treatment Plant 3 from 200 MLD to 400 MLD at the cost of approximate RM189 million scheduled to be completed in June 2017.

PRODUCTION AND CONSUMPTION

In 2014, the Board produced 171,671 megaliters of fully treated water representing an increased of 4.62% over the 2013 water production.

An estimated 680,000 inhabitants in the Kuching City and its surrounding areas enjoyed the supply of fully treated water.

The average daily gross consumption raised from 455 megalitres in 2013 to 470 megalitres in 2014, an increased of 3.30%. The maximum daily consumption during the year was 523 megalitres per day, whereas the minimum daily consumption was 410 megalitres per day.

WATER QUALITY CONTROL

Kuching Water Board is in compliance with the National Drinking Water Quality Surveillance Programme. 7007 were collected for bacteriological examination and 23,270 water samples were collected for physico-chemical testing and sent to the Department of Chemistry for analysis.

For treated water, Kuching Water Board registered a bacteriological compliance rate of 87.1%. Practically all or close to 99.1% of the treated water samples were free from Faecal Coliform bacteria throughout the years.

INFORMATION TECHNOLOGY

Kuching Water Board was first certified to MS ISO/IEC 27001:2007 on 6th June 2014.

Currently, Kuching Water Board is certified to ISO/IEC 27001:2013 Information Security Management System (ISMS) by CyberSecurity Malaysia, an agency under MOSTI on 18th September 2015 to be expired on 5th June 2017. The Board's ISMS is currently subject to annual audit by CyberSecurity Malaysia. The external auditor conducts yearly surveillance audit to ensure the Board's complies and adheres to the requirements of the ISMS.

The scope of the Board's Information Security Management System Certification covers the water distribution services via Customer Relations and Billing System (CRBS) Located at Kuching Water Board main office.

HUMAN RESOURCE DEVELOPMENT

The Board continued to enhance quality of services rendered with the generous allocation of RM500,000 on training that allowed the staff to attend selected courses, seminars or conferences held either in house or at other training centers across the country.

CHAIRMAN'S STATEMENT

APPRECIATION

On behalf of the Board I wish to thank the Management and staff for their hard work, dedication and loyalty throughout the year in their efforts to provide the best service to our consumers.

To our Board Members, I wish to thank them for their dedicated service and valued contributions towards the positive progress and performance of Kuching Water Board.

I also wish to thank both the State and Federal governments for their continued support, the Minister of Public Utilities, the Permanent Secretary, Ministry of Public Utilities and JKR Personnel's for their guidance, assistance and support.

Last but not least, I wish to thank our customers for their support and cooperation especially in promptly reporting water leakages and other supply shortcomings to Kuching Water Board.

We will continue to upgrade the level of service and enhance our capacity in our endeavor to provide safe, reliable and consistent supply of water to our customers.



YBhg Dato Sri Ahmad Tarmizi Bin Haji Sulaiman

Chairman

Kuching Water Board

CORPORATE INFORMATION

MEMBERS OF THE BOARD

CHAIRMAN

State Financial Secretary

YBhg. Dato Sri Ahmad Tarmizi Bin Haji Sulaiman
PNBS, DJBS

BOARD OF DIRECTORS

Permanent Secretary, Ministry of Public Utilities

Tuan Haji Ubaidillah Bin Haji Abdul Latip
PPC, PBK, PPB

Director, Sarawak State Health Department

YBhg. Datu Dr. Zulkifli Bin Jantan
PBK, DJBS

Chairman, Padawan Municipal Council

Cr. Ir. Lo Khere Chiang

Director of Public Works

Ir. Haji Zuraimi Bin Haji Sabki
PPC, PPB

Encik Lau Ting Ping

Dr. Azizah Binti Abdullah

Tuan Haji Mahran Bin Jamel

Encik Chai Ming Lu

Encik Bong Joon Fook

Encik Lucas Yong Kuet Chung

CORPORATE INFORMATION

MEMBERS OF THE BOARD



YBhg. Dato Sri Ahmad Tarmizi Bin Haji Sulaiman



Tuan Haji Ubaidillah Bin
Haji Abdul Latip



YBhg. Dato Dr. Zulkifli Bin
Jantan



Cr. Ir. Lo Khere Chiang



Ir. Zuraimi Bin Haji
Sabki



Encik Lau Ting Ping



Dr. Azizah Binti
Abdullah



Tuan Haji Mahran
Bin Jamel

Encik Chai Ming Lu

Encik Bong Joon Fook

Encik Lucas Yong Kuet Chung

SENIOR MANAGEMENT

Mohamad Sabari Bin Shakeran, PPB
General Manager



Wong Soon Sing, PPB
*Deputy General Manager Planning,
Development & Production Department
cum Senior Chemist*



Moses A. Joseph, ABK
*Deputy General Manager
Distribution Department*



Dayang Amelia Binti Abang Haji
Morshidi
*Board Secretary / Administration &
Human Resource Department*



Chebby Bin Loren, ABS
Chief Accountant

Auditor

Auditor General Malaysia

Head Office

Kuching Water Board
Jalan Batu Lintang, 93200 Kuching, Sarawak

Tel: 082-222222 Fax: 082-222259
Website: www.kwb.gov.my

CORPORATE INFORMATION

INTRODUCTION

The Board was established on 1st January 1959 by authority of the Kuching Water Board Order 1959, Notification No. S.12 of 1959, made under Sections 2 and 3 of the Water Supply Ordinance to take over the Kuching Water Supply from the Public Works Department, Sarawak.

The Board is responsible for the administration, management and supervision of all waterworks situated within its jurisdiction of supply. The policy of the Board is to extend mains and to develop other facilities to provide adequate and reliable supply of fully treated quality water within its area of supply. The water supply system conforms in all aspects to modern requirements, and the development programme is drawn up to meet the projected growth in demand.

Originally, the area of supply covered only 44.8km² (17.3 sq. miles). The supply area was subsequently increased in stages over the years to cater for the water demands of developments outside it as they could not be conveniently or feasibly supplied by the Public Works Department. In 1963 and 1973, the supply area was increased to 90.7km² (35 sq. miles) and 225km² (87 sq. miles) respectively. The supply boundary was extended further in 1988 to cover the current area of 730km² (282 sq. miles) as shown in Appendix 21.

On 1st June 1995, the existing Water Supply Ordinance (Sarawak Cap. 141) was repealed and replaced by the Water Ordinance 1994. On 1st January 2001, the Board was re-established under the Kuching Water Board Order, 2001 and effective from the same date, the Board consists of the following members:-

- the State Financial Secretary or his nominee (Chairman);
- the Director of Public Works, Sarawak;
- the Director of Health, Sarawak;
- the Permanent Secretary, Ministry of Public Utilities;
- the Chairman of Padawan Municipal Council; and
- six (6) other members to be appointed by the Minister.

ORGANISATION

Since the Board's inception in 1959, it has operated as an independent state owned organisation. It has its own offices, treatment plants, workshops, stores and transport facilities. The Board operates two SBBS Counters to cater for the public's needs, one at Jalan Song Thian Cheok and another at its Head Office at Jalan Batu Lintang.

STAFF

In April 1966, legislation was passed specifying the Kuching Water Board as a public body for the purpose of the Pensions and Widows and Orphans Pensions Ordinance. In November 1968 the Gazette Notification in respect of the Board's Pensionable Officers was approved by the Yang di-Pertuan Agong. By early 1969, eligible contract staff and daily paid personnel were transferred to Pensionable Establishment.

In September 1969, the Employees Provident Fund (EPF) was extended to Sarawak and staff that were not on pensionable terms of employment were registered with the Employees Provident Fund. Commencing 15th October 1973, the Board's employees were covered by the Employment Injury Insurance Scheme under the Employees' Social Security Act 1969.

When SALA Act (Act 239, Pension for Statutory Bodies and Local Authorities) was implemented, the Board's Established Staff who were holding pensionable posts under the Sarawak Pension Ordinance (Cap. 89) became pensionable under this Pension Act and all staff who had completed 10 years' services were emplaced into pensionable status. Those who have yet to complete the 10 years' service including daily paid staff continued to contribute to EPF until such time when they have completed 10 years' service and is eligible for emplacement into pensionable status.

In 1976, all staff was absorbed under the Jawatankuasa Khas Kabinet (JKK) scheme of service. On 1st January 1992, a new scheme, Sistem Saraan Baru (SSB) was implemented and all staff opted for it. Subsequently, all staff opted to adopt the improved version of the SSB known as Sistem Saraan Malaysia (SSM) which took effect from 1st November 2002. Under SSB, staff could either opt for pensionable scheme after 10 years of service or continue to contribute to the EPF. Under the SSM, probationary staff that has passed the requirements under their respective scheme of service from 1 to 3 years can be confirmed and were given the option to either opt for pensionable scheme or continue to contribute to EPF.

CORPORATE INFORMATION

MANPOWER

The actual manpower for the years 2012, 2013 and 2014 are as follows:

Year	Professional & Managerial	Support Group	Total
2014	20	547	567
2013	21	549	570
2012	21	557	578

FINANCE AND ACCOUNTS

The financial performance of the Board for the year 2014 remained healthy. The Board recorded a total revenue of RM126,153,374 showing an increased of 11.6%. Water sales contributed 74% or RM93,374,667 of the total revenue while 26% or RM32,778,707 was contributed by other operating income. During the period, total expenditure was RM112,054,487, showing an increased of 6%. Summary of the revenue and expenditure are shown respectively in the table below:

REVENUE	RM
Water sales	93,374,667
Other operating income	
- Income from related water services	32,778,707
- Income from other source (FD interest)	6,508,714
- Deferred income on capital contribution	21,643,519

COST

Water Production	
Distribution & Sale	43,975,384
Administration	17,422,561
Other Operating Expenses	1,187,522
Finance Cost	37,234

CONSUMPTION

An estimated 680,000 inhabitants in the Kuching City and its surrounding areas enjoyed the supply of fully treated water.

Year	Production of treated water (megalitres)	% increased in production	Average daily consumption (megalitres)	% increased in consumption
2014	171,671	4.62%	470	3.30%
2013	164,093	3.00%	455	5.32%
2012	159,323	2.33%	432	1.17%
2011	155,693	1.67%	427	1.91%
2010	153,136	4.93%	419	4.75%
2009	145,935	1.93%	400	2.04%
2008	143,175	3.70%	392	3.70%
2007	138,130	8.30%	378	8.30%
2006	127,410	9.40%	349	9.60%
2005	115,440	2.40%	316	2.60%

The average daily gross consumption raised from 455 megalitres in 2013 to 470 megalitres in 2014, an increased of 3.30%. The maximum daily consumption during the year was 523 megalitres per day, whereas the minimum daily consumption was 410 megalitres per day.

PRODUCTION

The Board's treatment plant at Batu Kitang and Matang produced a total of 171,671 megaliters of fully treated water representing an increased of 4.62% over the 2013 water production.

CORPORATE INFORMATION

BATU KITANG WATERWORKS

The Batu Kitang Treatment Plant Complex is situated near the bank of Sungai Sarawak Kiri, about 64.37km from the sea. Raw water is pumped from the river to the Treatment Plant where it undergoes the conventional treatment process of coagulation, flocculation, sedimentation, filtration, disinfection and pH adjustment. Coagulation is by the alum-lime process and disinfection is by chloramines. Fluoridation has been practiced since 1966. The fully treated water is later pumped to the various reservoirs and service tanks in and around the Kuching Network System for distribution.

Module No. 1 of the Treatment Plant with its first raw water intake and a capacity of 14MLD (3MgD) was commissioned in 1957. In 1965, the capacity was increased to 18MLD (4MgD) after the changing of the pump impellers and the construction of a second stage pumping station as well as two underground reservoirs at Batu Lintang. Extension works to further increase the plant capacity to 27MLD (6MgD) commenced in October 1968 and was completed in 1970. The extension of this Module No. 1 was then designated as the plant's Module No. 2.

In November 1976, construction work on Module No. 3, with a present capacity of 41MLD (9MgD) and comprising of a new treatment plant and raw water intake, was started and commissioned in November 1978.

Scope with the ever increasing demand for water, construction work on Module No. 4 commenced in November 1983. As an extension of the Module No. 3, the maximum capacity of this Module No. 4 is 55MLD (12MgD). It was substantively commissioned towards the end of 1986.

The construction of Module No. 5 Treatment Plant with a capacity of 100MLD including a new raw intake under the Stage 2 Expansion of Kuching Water Supply "Big Leap" Development Project commenced in December 1991 and was substantively completed and commissioned in August 1994.

In order to cater for the increasing water demands and to ensure reliable supply up to the completion and commissioning of Module No. 5 Plant in 1994, major staged improvement works to Raw Water Intake Nos. 1 and 2, including the laying of an 840mm diameter steel raw water pumping main from Intake No. 2 to Module Nos. 3 and 4 were commenced in 1990 and were substantively completed by the end of 1992. The improvement works included installation of new submersible pump sets, booster pump sets, back rack screens for debris removal and desludging systems at both intakes and refurbishment of existing Kubota pump sets at Intake No. 2. Other notable improvement works carried out in 1994 included the upgrading of standby power generator set for Module Nos. 3 and 4 and Intake No. 2.

Around mid-1996, work commenced on the design and construction for the Batu Kitang Module 6 of 100MID capacity to meet the rapidly increasing water demands of the Kuching City and its surrounding areas for another 10 years.

Construction works on the Module 6 Plant commenced on 24th March 1998 and was practically completed and commissioned in May 2000.

Detailed design for the Module 7 Plant 4 was substantively completed in 1998. Earthwork for the Module 7 Plant commenced on 1st December 1997 and was practically completed in September 1998. However, due to KWB's tight financial position, the construction of the 100MID capacity of the Plant had to be deferred to commence early in the 8MP. Construction work for Module 7 Plant 4 actually commenced in June 2002 and was completed and commissioned on 9th August 2006.

Construction work for Module 8, Plant 4 Water Treatment Plant commenced on 29th August 2009 and was commissioned on 2nd September 2011. Batu Kitang Treatment Plant Complex accounted for 99.07% of the total water production in 2014.

MATANG WATERWORKS

The original waterworks constructed by the White Rajahs to supply water to Kuching Town was situated in the Matang Hills, some 12 miles from the town. The water was relatively clear and distributed untreated.

This source continued to be in use even after the Batu Kitang Plant was commissioned in 1957. In 1960, chlorination was introduced and the possibility of building a treatment plant in the Hills was investigated.

Construction of a 9MLD (2MgD) treatment plant near the Matang Dam commenced in 1964 and the plant was put into operation in March 1966. Raw water from the mountain streams was piped to the plant where full treatment similar to that at Batu Kitang Plant was carried out before it gravitates into the distribution system.

However, production from Matang Treatment Plant was dependent on rainfall and during the dry months output may fall to as low as 10% of its maximum capacity. To improve the reliability of the water supply, work was commenced in December 1973 on the construction of a 60 million gallon earth storage basin at Matang, below the Sungai Sebut catchment. The storage basin was completed in February 1976.

With the development of the Kuching North Bank, it was decided that the Matang Treatment Plant be extended to increase the capacity from 9MLD (2MgD) to 16MLD (3.5MgD). Extension works which included the construction of a 1.5 million gallon

CORPORATE INFORMATION

balancing reservoir commenced in January 1976 and was completed in April 1977. The extension was commissioned in July 1977.

The Matang Water Sources continued to be an important supply of treated water in particular to areas around Matang, which is being developed at a rapid pace. To ensure that Matang Treatment Plant can adequately sustain its reliability and to meet the demands for treated water, upgrading and retrofitting works at the Matang Treatment Plant proper commenced in early January 2001 and was substantively completed at the end of March 2002. Two other major works, also implemented in tandem to ensure continued reliability and sustainability of Matang raw water sources were the renewal of the raw water pipeline from Sungai Cina to Matang Plant which commenced in March 2001, and the raising of the Sungai Sebutut Storage commenced in January 2002 to increase live storage to 520 ML. These works were substantively completed in July 2003 and April 2003 respectively. The Matang Treatment Plant accounted for about 0.93% of the total water production in 2014.

QUALITY CONTROL

The execution of the Board's stringent water surveillance programme augmented by the National Drinking Water Quality Programme ensured that safe and wholesome drinking water supply was maintained throughout the year.

During the year, a total of 30,277 water samples from Raw Water Source, Treatment Plant Pumping Mains, Reservoirs & Tanks and Distribution Systems were taken for Physico-chemical and Bacteriological Examination. Out of the total number, 23,270 water samples were analyzed physico-chemically while the remaining 7,007 samples were examined bacteriologically.

A total of 28,315 samples or 93.52% were analysed at the Board's Water Quality Control Laboratory while the rest of 1,962 samples or 6.48% were sent to the Department of Chemistry for analysis. The breakdown of samples analyzed for year as at 31 December 2014 is shown below:-

PARAMETER LOCATION	BOARD'S LABORATORY	CHEMISTRY DEPARTMENT
Physico-chemical Examination		
Intakes & Sources	985	48
Water Treatment Processes	16,970	-
Treatment Plant P.M.	1,975	96
Reservoirs & S. Tanks	919	109
Distribution System	1,541	84
Special Sample (Sungai Sarawak)	523	20
Total	22,913	357
Bacteriological examination		
Intakes & Sources	985	200
Treatment Plant P.M.	1,968	399
Reservoirs & S. Tanks	919	464
Distribution System	1,530	522
Special Sample (Sungai Sarawak)	-	20
Total	5,402	1,605

PIPE'S MAINTENANCE

MAINS

During the year 2014, 409 repairs were carried out on trunk and distribution mains. The total length of water mains within the Board's Distribution Network as at the end of 2014 is 2,238 km.

The Board's emergency service was operated on a 24 hour basis with the number of service calls and minor repairs received and attended to during the year was at 8,038.

Regular flushing of dead end mains was carried out during the year while exposed mains and valve boxes were repainted. Pipelines and valves were inspected regularly. An annual water main flushing programme and schedule was re-introduced since 1st September 2010 to improve the quality of water within the distribution network.

CORPORATE INFORMATION

METERS

Routine checking on water meters were carried out. A total of 51 meters were repaired and 3,073 meters were renewed during the year.

NEW SERVICE CONNECTIONS

The total number of new services connected during the year was 4,916. Of this 3,895 or 79% of connections were for domestic consumers and 1,020 or 21% were for commercial consumers.

SUMMARY

Year	Domestic Consumer	%	Commercial Consumer	%	Total New Service Connection
2014	4,916	79.25	1020	20.75	4,916
2013	4,452	76.16	1390	23.78	5,845
2012	4,042	68.92	1,823	31.08	5,865
2011	2,877	81.16	668	18.84	3,545
2010	3,862	82.50	820	17.50	4,682
2009	3,981	81.44	907	18.56	4,888
2008	4,796	84.78	861	15.22	5,657
2007	4,996	83.39	995	16.61	5,991
2006	4,978	84.72	898	15.28	5,876
2005	5,819	84.10	1,098	15.90	6,917

DEVELOPMENT

The major development of the Board under the 10th Malaysia Plan included implementation of the following projects:

(1) The upgrading of Batu Kitang Water Treatment Plant 3 from 200 MLD to 400 MLD.

(2) The Board's projects are briefly outlined project as follows:

CONTRACT NO.	REMARKS
CON. 9/2015	Survey Works (Pipeline Survey) for the Supply, Delivery, Laying testing & Commissioning of Proposed Water Pipeline From Batu Kitang Water Treatment Plant to Samajaya Custom Checkpoint (M/S Jumkon M'sia – RM 210,676.06)
CON. 10/2015	Supply and Delivery of Spare Parts for M8 SIEMENS VSD for Batu Kitang Water Treatment Plant
CON. 11/2015	Proposed Construction, Completion x Commissioning of Booster Pumping station at KWB Matang Lower Reservoir & Ass. Works (M/S Per Works M'sia – RM 4,434,095.00) Consultant, M/S KTA (S) S/B
CON. 12/2015	Proposed Implementation of Booster Pumping Station to the Boards Existing Bukit Andau Reservoir at Lot 147 MTLD (M/S Hock Seng Lee Sdn. Bhd - RM14,250,000.00) Consultant : M/S Konsortium M'sia
CON. 13/2015	Cleaning Services for KWB Batu Kitang Water Treatment Plant & Associated Areas (M/S Rane Enterprise - RM 326,401.56)
CON. 14/2015	Grass Cutting & Cleaning of Perimeter Drain at KWB Batu Kitang Water Treatment Plant & Associated Areas (M/S Rane Enterprise – RM 108,000.00)
CON. 15/2015	Supply & Delivery of One unit Rubber Tyred Backhoe Loader – loading Shovel With Backhoe to KWB (M/S Lanco S/B - RM 196,100.00)
CON.16/2015	Supply & Delivery of one (1) unit new Heavy Duty Two Wheel Drive Vehicle with metal Cab & Water Tanker Body to KWB (M/S Regas Motor S/B - 316,728.00)
CON.17/2015	Supply & Delivery of Two (2) units New Two Wheel Drive 4 x 2 Double Cars Pick – up (Diesel / Petrol) EVW > 3900KG (From all Manufacturers) to KWB (M/S Regas Motor S/B – RM 236,360.80)
CON. 18/2015	Propose Upgrading & Rehabilitation of Batu Kitang Water Treatment Plant WTP Plant 3 (M5 & 6) - Treatment Plant (M/S Lim Aik Electrical S/B – RM 247,808.00)

CORPORATE INFORMATION

RURAL WATER SUPPLY

Under the 9th and 10th Malaysia Plan, the Rural Water Supply Schemes were implemented on turnkey basis through a 100% Federal Grant by the Federal Ministry of Rural & Regional Development, implemented under JKR (Sarawak) and supervises by the Board on technical matter.

MAIN EXTENSION

A total length of 103 km of new water mains ranging in size from 100mm to 600mm was laid in-house during the year. They were all laid by developers to serve housing estates and commercial developments.

NON-REVENUE WATER (NRW)

ACTIVE LEAKAGE CONTROL

Since 1993, leakage control programmes were implemented with the setting up of Leakage Control Zones (LCZ), each comprising of 200 to 2000 consumers. The leakage control zones have to be continuously monitored and its leakage level controlled and maintained at an achievable economic level. As at 31st December 2014, a total of 178 Leakage Control Zones had been set up within the Kuching Water Board Supply Network to monitor and manage leakage level of the Board's distribution network system. Since the implementation of active leakage control in year 1993, a total of 2,730 nos. of leaks from pipes and services and 933 nos. of water thefts had been detected and addressed.

NRW LEVEL & TARGET

The Board's Non-Revenue Water (NRW) level for the year was 31.00% as compared with the national average of about 40% and the nationally accepted satisfactory level of 25%. The Board targets to reduce the percentage of its NRW within the range of 2% - 3% annually from the present NRW level of about 31.00%, and to achieve an NRW level of 20% by the end of 2015, in line with the Ministry of Public Utilities/State Government's NRW target of 20% for all Water Authorities in the State by the same period.

APPROACH IN REDUCING NRW

The Board had implemented a holistic approach towards reducing its NRW by ensuring a faster renewal/upgrading of leakage prone pipelines, particularly asbestos cement pipelines, prompt detection and repair of all leakages, a continuous replacement of old water meters to minimize meter under-registration, quality design and construction of new distribution system, as well as pressure/flow monitoring and management of the distribution network system. Inculcating a culture of leakage reporting and other supply shortcomings, both within the Department and from the public, such

as through the introduction of “Friends of KWB” programme is part of the Board’s strategy to help achieve earlier detection and repair of leakages. During the year, a total of 5,463 numbers of leaks from pipes and services and 62 cases of water stealing were repaired and addressed.

The Board’s NRW Task Force Committee in the year 2000 had concluded that most of the NRW was attributed to leakages from the pipeline network system, particularly from the aged asbestos cement pipes. About 40% of the Board’s total pipelines then were of asbestos cement and they contributed to about 70% of all pipeline bursts. Replacement of leakage prone old asbestos cement and lead jointed cast iron pipes, with priority accorded to the worst areas, is one of the priorities in tracking NRW for the Board.

MAINS RENEWAL/UPGRADING

Commencing from year 2000, action was initiated to renew/upgrade the existing aged asbestos cement pipes and other old pipes in a more systematic manner. A total length of 77.88km of pipelines had been renewed/upgraded during the 9th Malaysia Plan (9MP). As at the end of 2014, 37.16% or about 223km of some 600 km of old asbestos cement and cast iron pipes had been renewed/upgraded.

Mains renewal involves high capital expenditure. Therefore, in order to ensure a more efficient and effective approach in the reduction of water loss from the distribution network system, replacement of aged and leak-prone water mains shall be prioritized accordingly based on pipe burst records and water loss flow measurements via district metering.

NRW MANAGEMENT PROGRAMME

NRW Management Programme for KWB has been in place since 2006. The Board needs to intensify its NRW reduction efforts, including better and more effective leakage control and management, as well as extensively implement of other NRW reduction and control strategies such as pressure management, district metering and GIS/Asset Management.

The scope of the Board’s NRW Management programme encompasses pressure management, meter replacement, mains and communication pipes renewal, district metering zones (DMZs), asset management and geographical information (GIS).

Kuching Water Board is committed to the Human Resource Development. For the year 2014, a total of RM 500,000 was allocated for training and related activities. This is to cater for the Board’s in house as well as the external training programmes.

CORPORATE INFORMATION

ISO 9001:2008 CERTIFICATION

The Board's ISO 9001: 2000 Quality Management System (QMS) was upgraded to ISO 9001: 2008 in the year of 2010. The recertification Audit was conducted by M/s Moody International. The ISO 9001: 2008 Certification was granted on 16th December 2009 and was extended for every three (3) years period. The certification will be expired on 15th December 2015.

VISITORS

A total of 226 visitors comprising of waterworks federal departments, engineers, consultants, health inspectors, overseas specialist, ViPs, students and teachers from school to university level visited the Batu Kitang and Matang Treatment Plants in 2014.



ACTIVITIES DURING THE YEAR 2014

KWB RAMAH TAMAH AIDILFITI 1345H



ACTIVITIES DURING THE YEAR 2014

Celebrating Raya with Ketua Kampung



ACTIVITIES DURING THE YEAR 2014

55th Kuching Water Board Annual Dinner



ACTIVITIES DURING THE YEAR 2014

55th Kuching Water Board Annual Dinner



LEMBAGA AIR KUCHING

FINANCIAL STAMENTS
31 DECEMBER 2014



FINANCIAL STATEMENTS

KUCHING WATER BOARD

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KUCHING WATER BOARD

(Incorporated under Water Ordinance 1994, Chapter 13, Laws of Sarawak)

(1st June 1995)

CORPORATE INFORMATION

CHAIRMAN

- Sate Financial Secretary
YBhg. Dato Sri Ahmad Tarmizi Bin Haji Sulaiman

BOARD MEMBERS

- Director of Public Works
Ir. Zuraimi Bin Haji Sabki
Permanent Secretary, Ministry Of Public Utilities
Tuan Haji Ubaidillah Bin Haji Abdul Latip
Director of Medical Services
Dr. Zulkifli Bin Jantan
Chairman, Padawan Municipal Council
Cr. Ir. Lo Khere Chiang (Up to 31.3.2014)
Encik Lau Ting Ping
Dr. Azizah Binti Abdullah
Encik Mahran Bin Jamel
Encik Lucas Yong Kuet Chong (Up to 31.03.2014)
Encik Chai Ming Lu
Encik Bong Joo Fook

GENERAL MANAGER : Encik Mohamad Sabari Bin Shakeran

REGISTERED ADDRESS : Kuching Water Board, Jalan Batu Lintang 93200
Kuching

BANKERS : CIMB Bank Berhad
RHB Bank Berhad

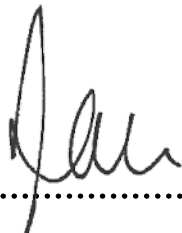
AUDITOR : Auditor General, Malaysia

FINANCIAL STATEMENTS

PENYATA Pengerusi dan Seorang Ahli Lembaga Pengarah

Kami, DATO SRI AHMAD TARMIZI BIN HAJI SULAIMAN, yang merupakan Pengerusi dan salah seorang Ahli Lembaga Pengarah LEMBAGA AIR KUCHING, dengan ini menyatakan bahawa, pada pendapat Lembaga Pengarah, lembaran imbangan, penyata pendapatan, penyata perubahan dalam ekuiti, dan penyata aliran wang tunai yang berikut ini berserta dengan nota-nota di dalamnya adalah disediakan untuk menunjukkan pandangan yang benar dan saksama berkenaan kedudukan LEMBAGA AIR KUCHING pada 31 Disember 2014 dan hasil kendaliannya dan aliran wang tunai bagi tahun yang berakhir pada tarikh tersebut

Bagi pihak Lembaga,



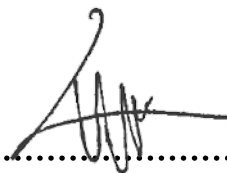
NAMA : DATO SRI AHMAD TARMIZI B.
HAJI SULAIMAN

GELARAN: Pengerusi

Tarikh : **15 APR 2015**

KUCHING

Bagi pihak Lembaga,



NAMA : IR.ZURAINI BIN HJ. SABKI

GELARAN : Ahli Lembaga

Tarikh : **15 APR 2015**

KUCHING

PENGAKUAN OLEH PEGAWAI UTAMA YANG BERTANGGUNGJAWAB KE ATAS PENGURUSAN KEWANGAN LEMBAGA AIR KUCHING

Saya, MOHAMAD SABARI BIN SHAKERAN pegawai utama yang bertanggungjawab ke atas pengurusan kewangan LEMBAGA AIR KUCHING, dengan ikhlasnya mengakui bahawa lembaran imbangan, penyata pendapatan, penyata perubahan dalam ekuiti dan penyata aliran wang tunai yang berikut ini berserta dengan nota-nota di dalamnya mengikut sebaik-baik pengetahuan dan kepercayaan saya, adalah betul dan saya membuat ikrar ini dengan sebenarnya mempercayai bahawa ianya itu adalah benar dan atas kehendak-kehendak Akta Akuan Berkanun, 1960.

Sebenarnya dan sesungguhnya
diakui oleh penama di atas
di KUCHING, SARAWAK
pada haribulan 2015

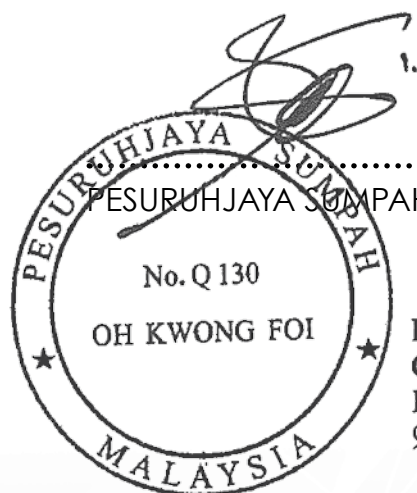
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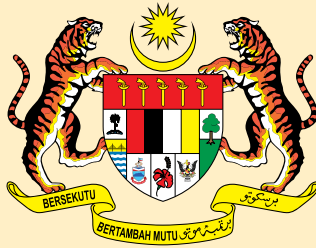
15 APR 2015

Di hadapan saya,



.....
PESURUHJAYA SARAWAK

D S Law Centre
Ground Floor, Lot 564
Lorong Rubber 6,
93400 Kuching, Sarawak.



**LAPORAN KETUA AUDIT NEGARA
MENGENAI PENYATA KEWANGAN
LEMBAGA AIR KUCHING
BAGI TAHUN BERAKHIR 31 DISEMBER 2014**

Laporan Mengenai Penyata Kewangan

Penyata Kewangan Lembaga Air Kuching bagi tahun berakhir 31 Disember 2014 telah diaudit oleh wakil saya yang merangkumi Lembaran Imbangan pada 31 Disember 2014 dan Penyata Pendapatan, Penyata Perubahan Dalam Ekuiti serta Penyata Aliran Tunai bagi tahun berakhir pada tarikh tersebut, ringkasan polisi perakaunan yang signifikan dan nota penjelasan lain.

Tanggungjawab Lembaga Pengarah Terhadap Penyata Kewangan

Lembaga Pengarah bertanggungjawab terhadap penyediaan dan persembahan penyata kewangan tersebut yang saksama selaras dengan piawaian pelaporan kewangan yang diluluskan di Malaysia dan Ordinan Badan Berkanun (Prosedur Kewangan Dan Perakaunan), 1995 (Pindaan 2004). Lembaga Pengarah juga bertanggungjawab terhadap kawalan dalaman yang ditetapkan perlu oleh pengurusan bagi membolehkan penyediaan penyata kewangan yang bebas daripada salah nyata yang ketara sama ada disebabkan oleh fraud atau kesilapan.

Tanggungjawab Juruaudit

Tanggungjawab saya adalah memberi pendapat terhadap penyata kewangan tersebut berdasarkan pengauditan yang dijalankan. Pengauditan telah dilaksanakan mengikut Akta Audit 1957 dan piawaian pengauditan yang diluluskan di Malaysia. Piawaian tersebut menghendaki saya mematuhi keperluan etika serta merancang dan melaksanakan pengauditan untuk memperoleh jaminan yang munasabah sama ada penyata kewangan tersebut bebas daripada salah nyata yang ketara.

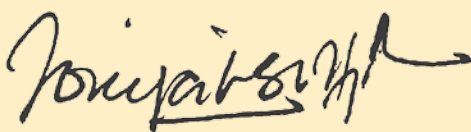
Pengauditan meliputi pelaksanaan prosedur untuk memperoleh bukti audit mengenai amaun dan pendedahan dalam penyata kewangan. Prosedur yang dipilih bergantung kepada pertimbangan juruaudit, termasuk penilaian risiko salah nyata yang ketara pada penyata

kewangan sama ada disebabkan oleh fraud atau kesilapan. Dalam membuat penilaian risiko tersebut, juruaudit mempertimbangkan kawalan dalaman yang bersesuaian dengan entiti dalam penyediaan dan persembahan penyata kewangan yang memberi gambaran yang benar dan saksama bagi tujuan merangka prosedur pengauditan yang bersesuaian tetapi bukan untuk menyatakan pendapat mengenai keberkesanan kawalan dalaman entiti tersebut. Pengauditan juga termasuk menilai kesesuaian polisi perakaunan yang dijuga pakai dan kemunasabahan anggaran perakaunan yang dibuat oleh pengurusan serta persembahan penyata kewangan secara menyeluruh.

Saya percaya bahawa bukti audit yang saya peroleh adalah mencukupi dan bersesuaian untuk dijadikan asas bagi pendapatan audit saya.

Pendapat

Pada pendapat saya, penyata kewangan ini memberikan gambaran yang benar dan saksama mengenai kedudukan kewangan Lembaga Air Kuching pada 31 Disember 2014 dan prestasi kewangan serta aliran tunai bagi tahun berakhir pada tarikh tersebut selaras dengan piawaian pelaporan kewangan yang diluluskan di Malaysia.

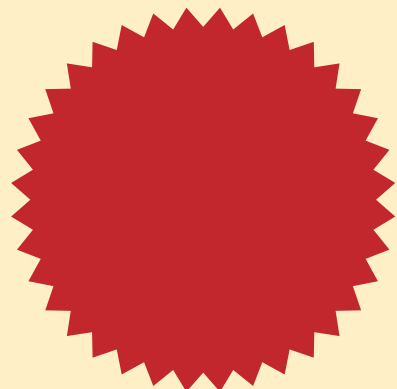


(TOIEYAH BINTI HAJI TIOH)

b.p. KETUA AUDIT NEGARA
MALAYSIA

PUTRAJAYA

TARIKH: 21 JUL 2015



FINANCIAL STATEMENTS

KUCHING WATER BOARD BALANCE SHEET

as at 31 December 2014

	Note	2014 RM	2013 RM
NON-CURRENT ASSETS			
Property, plant and equipment	6	624,781,047	592,492,962
Other investment	7	952,931	952,931
		<u>625,733,978</u>	<u>593,445,893</u>
CURRENT ASSETS			
Inventories	8	22,620,059	20,997,028
Trade receivables	9	10,757,955	11,956,877
Other receivables, deposits and prepayments	10	2,732,973	2,238,458
Fixed deposits	11	194,273,035	200,409,675
Cash and bank balances		12,353,362	14,344,975
		<u>242,737,384</u>	<u>249,947,013</u>
CURRENT LIABILITIES			
Trade payables		3,763,802	5,070,688
Other payables and accruals	12	22,405,855	33,253,631
Provision for employee benefits	13	102,954	299,371
Term loans	14	15,154,670	15,154,670
		<u>41,427,281</u>	<u>53,778,360</u>
NET CURRENT ASSETS			
		<u>201,310,103</u>	<u>196,168,653</u>
		<u>827,044,081</u>	<u>789,614,546</u>
Financed by :			
RESERVES			
	15	250,166,275	231,024,567
LONG TERM AND DEFERRED LIABILITIES			
Deferred income	16	344,415,635	309,721,568
Provision for employee benefits	13	1,630,046	1,571,629
Term loans	14	230,734,948	240,529,605
Deferred taxation	17	97,177	6,767,177
		<u>827,044,081</u>	<u>789,614,546</u>

The notes on pages 9 to 21 form an integral part of these financial statements.

KUCHING WATER BOARD
INCOME STATEMENT
for the year ended 31 December 2014

	Note	2014 RM	2013 RM
Revenue	18	93,374,667	91,257,770
Cost of production		<u>(49,431,786)</u>	<u>(46,344,911)</u>
Gross Profit		43,942,881	44,912,859
Other operating income	19	32,778,707	21,781,424
Distribution and selling cost		<u>(43,975,384)</u>	<u>(41,220,370)</u>
Administration cost	20	(17,422,561)	(16,790,300)
Other operating expenses		<u>(1,187,522)</u>	<u>(1,299,172)</u>
Profit From Operation	21	14,136,121	7,384,441
Finance cost		<u>(37,234)</u>	<u>(48,929)</u>
Profit before tax		<u>14,098,887</u>	<u>7,335,512</u>
Taxation	22	<u>5,042,821</u>	<u>2,649,742</u>
Net Profit For The Year After Taxation		<u>19,141,708</u>	<u>9,985,254</u>

The notes on pages 9 to 21 form an integral part of these financial statements.

FINANCIAL STATEMENTS

KUCHING WATER BOARD STATEMENT OF CHANGES IN EQUITY for the year ended 31 December 2014

	RESERVES RM
Balance as at 31 December 2012	161,303,104
Net profit for the year	9,985,254
Balance as at 31 December 2013 as previously stated	<u>171,288,358</u>
Change in Accounting policy with respect to the amortization of Capital Contribution received prior to 1998	<u>59,736,209</u>
Balance as at 31 December 2013 as restated	231,024,567
Net profit for the year	19,141,708
Balance as at 31 December 2014	<u><u>250,166,275</u></u>

The notes on pages 9 to 21 form an integral part of these financial statements.

KUCHING WATER BOARD
CASH FLOW STATEMENT
for the year ended 31 December 2014

	2014 RM	2013 RM
Cash Flows From Operating Activities		
Net profit before taxation	14,098,887	7,335,512
Adjustments for :-		
Depreciation and amortisation	40,389,448	39,441,804
Dividend received	(20,457)	(20,457)
Interest expense	37,234	48,929
Interest income	(6,508,714)	(6,209,598)
Gain on disposal of property, plant and equipment	(2,847,841)	(164,103)
Inventory written back	-	(175)
Allowances for employee benefits	112,072	544,515
Allowances for debtors	224,000	-
Transfer from deferred income	(21,643,519)	(13,396,251)
Tax paid	(1,750,000)	(2,091,858)
	<u>7,992,223</u>	<u>18,152,806</u>
Operating Profit Before Working Capital Changes	22,091,110	25,488,318
(Increase) / Decrease in inventories	(1,623,031)	1,015,996
Decrease in trade receivables	974,922	5,179,923
(Increase) / Decrease in other receivables, deposits and prepayments	(743,646)	1,226,629
(Decrease) / Increase in trade payables	(1,306,885)	879,928
(Decrease) / Increase in other payables and accruals	(10,847,776)	10,907,692
	<u>(13,546,416)</u>	<u>19,210,168</u>
Cash Generated From Operations	8,544,694	44,698,486
Interest paid	(37,234)	(48,929)
Net Cash Generated From Operating Activities	8,507,460	44,649,557
Cash Flows From Investing Activities		
Capital expenditure	(50,352,480)	(33,786,180)
Grants and capital contributions received	34,007,770	13,406,347
Interest received	6,630,595	6,132,517
Dividend received	20,457	20,457
Proceeds from disposal of property, plant and equipment	2,852,603	191,131
Net cash Used In Investing Activities	(6,841,055)	(14,035,728)
Cash Flows From Financing Activities		
Proceeds from term loans	3,972,778	18,000,000
Repayment of term loans	(13,767,436)	(13,891,391)
Net Cash (Used In) / Provided By Financing Activities	(9,794,658)	4,108,609
Net (Decrease) / Increase In Cash and Cash Equivalents	(8,128,253)	34,722,438
Cash And Cash Equivalents At Beginning Of Year	214,754,650	180,032,212
Cash And Cash Equivalents At End Of Year	<u>206,626,397</u>	<u>214,754,650</u>
Cash And Cash Equivalents Comprise:-		
Cash and bank balances	12,353,362	14,344,975
Fixed deposits	194,273,035	200,409,675
	<u>206,626,397</u>	<u>214,754,650</u>

The notes on pages 9 to 21 form an integral part of these financial statements.

FINANCIAL STATEMENTS

KUCHING WATER BOARD NOTES TO THE FINANCIAL STATEMENTS for year ended 31 December 2014

1 Principal Activity

The principal activity of the Board is to produce and distribute potable water to consumers within its supply areas.

2 Basis Of Preparation

The financial statements of the Board have been prepared in accordance with the applicable approved accounting standards in Malaysia.

3 Date Of Authorization For Issue

The financial statements were authorized for issue by the Board on 15 April 2015.

4 Financial Risk Management Policies

The Board is exposed to credit risk, interest rate risk and liquidity risk in the normal course of the Board's business. The Management's agreed policies for managing each of these risks are summarized below:-

a. Interest Rate Risk

Surplus funds are placed with government approved financial institutions with competitive and favourable interest rates.

b. Liquidity Risk

The Board monitors and maintains a level of cash and cash equivalents deemed adequate by Management to finance the Board's operations and to mitigate the effects of fluctuations in cash flows.

c. Credit Risk

Management has a credit policy in place and the exposure to credit risk is monitored on an ongoing basis. Customers are requested to place an initial deposit at the time of signing of the agreement for water supply. Their water supplies are disconnected if the customers default in payment within a stipulated time frame.

5 Significant Accounting Policies

a. Basis Of Accounting

The accounts of the Board are prepared under the historical cost convention and comply with approved accounting standards (MASB) and Private Entity Reporting Standards in Malaysia.

b. Revenue Recognition

Revenue from sales of water is recognised based on metered usage upon delivery of the water.

Interest income from placement of fixed deposit with approved financial institutions is accrued on a time apportioned basis.

Dividend income is recognised in the income statement when the shareholder's right to receive payment is established.

c. Work-In-Progress

Work-in-progress is valued at cost and where appropriate includes supervision expenses. Work-in-progress shall be capitalised when the asset is substantially functional and the date of capitalisation shall be based on the date of handing over to Kuching Water Board.

d. Property, Plant And Equipment And Depreciation

Property, plant and equipment are depreciated on the straight line method to write off the cost of the assets over their estimated useful lives. Fully depreciated assets are retained in the accounts at nominal value of RM1.00 until they are no longer in use and no further charge for depreciation is made in respect of these assets.

The estimated useful lives have been taken as follow:

Treatment plant, mains and ancillary works	25 years
Meters and pipes	10 - 20 years
Machinery, vehicles and equipment	5 years
Buildings and furniture	10 - 25 years

Leasehold land is amortised over the period of the respective leases.

Property, plant and equipment are written down to recoverable amount if the recoverable amount is less than their carrying value. Recoverable amount is the higher of an asset's net selling price and its value-in-use.

e. Other Investment

Other investment is stated at cost. A provision is made when permanent diminution has, in the opinion of the Board, arisen on the value of the investment.

f. Inventories

Inventories for capital projects and maintenance accounts are valued at cost, using the weighted average method.

g. Trade and Other Payables

Trade and other payables are stated at the amount which the Board has contracted or obligated to settle including any incidental legal expenses.

h. Allowance For Doubtful Debts

Known bad debts are written off and specific allowance is made for those considered to be doubtful.

i. Deferred Income

Certain consumers are required to contribute towards the cost of revenue-earning capital projects. These contributions together with government grants in respect of capital expenditures are credited to the deferred income account and released to the Income Statement on a straight line basis over the expected useful lives of the assets except for those relating to projects not yet completed.

The contribution in respect of Communication Pipes are amortized over 20 years, whereas the other types of contributions and government grants are amortized over 25 years.

j. Non-Capitalization of Borrowing Costs

Interest incurred on loans taken by the Board is treated as current operating expenses.

k. Cash Equivalents

Cash equivalents are short-term, highly liquid investments that are readily convertible to cash with insignificant risk of changes in value.

l. Financial Instruments

Financial instruments carried on the balance sheet include cash and bank balances, investment, receivables, payables and borrowings. The particular recognition methods adopted are disclosed in the individual accounting's policy statement associated with each item.

FINANCIAL STATEMENTS

m. Impairment Of Assets

The carrying values of assets, other than inventories, are reviewed at each balance sheet date to determine whether there is an indication of impairment. Impairment is measured by comparing the carrying values of the assets with their recoverable amounts.

The recoverable amount is the higher of an asset's net selling price and value-in-use. The net selling price is the amount obtainable from the sale as an asset at arm's length transaction. Value-in-use is the present value of estimated future cash flow expected to arise from the continuing use of an asset and from its disposal at the end of its useful life. Recoverable amount are estimated for individual assets or, if it is not possible, for the cash generating unit.

An impairment loss is recognised in the Income Statement for assets carried at cost, whenever the carrying amount of an asset exceeds its recoverable amount. When there is an indication that the impairment loss recognised in prior years for an asset no longer exists or has decreased, a reversal of this impairment loss will be recorded in the Income Statement.

n. Income Taxes

Income taxes on profit or loss for the year comprise current and deferred tax. Current tax is the expected amount of income taxes payable in respect of the taxable profit for the year and is measured using the tax rates that have been enacted at the balance sheet date.

Deferred taxation is calculated, using the liability method at the current tax rate in respect of all temporary differences between the carrying amount of an asset or liability in the balance sheet and its tax base including unused tax losses and capital allowances.

A deferred tax asset is recognised only to the extent that it is probable that taxable profit will be available against which the deductible temporary differences can be utilised. The carrying amount of a deferred tax assets is reviewed at each balance sheet date. If it is no longer probable that sufficient taxable profit will be available to allow the benefit of part or all of that deferred tax asset to be utilised, the carrying amount of the deferred tax asset will be reduced accordingly. When it becomes probable that sufficient taxable profit will be available such reduction will be reversed to the extent of the taxable profit.

o. Employee Benefits

(i) Short-term and Long-term Benefits

Wages, salaries, bonuses and social security contributions are recognized as expenses in the year in which the associated services are rendered by employees of the Board. Short-term accumulating compensated absences such as paid annual leave are recognized when services rendered by employees that increase their entitlement to future compensated absences and short-term non-accumulating compensated absences such as sick leave are recognized when absences occur.

Provision made in respect of other employee benefits which are not expected to be settled within 12 months, such as payment in lieu of untaken leave, are measured at the present value of the estimated future cash flows to be made by the Board in respect of services provided by employees up to the balance sheet date.

(ii) Defined Contribution Plan

As required by law, the Board makes contributions to the government pension scheme and the Employee Provident Fund. Such contributions are recognised as expenses in the income statement as incurred.

6 Property, Plant and Equipment

	Land RM	Treatment plant, mains & ancillary works RM	Meters and pipes RM	Machinery, vehicles and equipment RM	Buildings and furniture RM	Work in progress RM	Total RM
2014							
<u>Cost</u>							
Beginning of year	8,215,609	1,011,388,983	59,734,957	22,580,637	19,361,539	30,156,036	1,151,437,761
Additions	-	22,329,815	-	-	-	50,352,480	72,682,295
Disposals	(13,708)	-	-	(625,522)	(2,664)	-	(641,894)
Reclassification	-	18,011,381	4,289,630	1,326,318	167,933	(23,795,262)	-
End of year	8,201,901	1,051,730,179	64,024,587	23,281,433	19,526,808	56,713,254	1,223,478,162
<u>Accumulated Depreciation</u>							
Beginning of year	2,155,672	488,643,237	34,181,978	20,007,582	13,956,330	-	558,944,799
Charge for the year	127,317	35,967,732	2,873,122	929,667	491,610	-	40,389,448
Disposals	(11,526)	-	-	(623,980)	(1,626)	-	(637,132)
End of year	2,271,463	524,610,969	37,055,100	20,313,269	14,446,314	-	598,697,115
<u>Net book value</u>							
- end of year	5,930,438	527,119,210	26,969,487	2,968,164	5,080,494	56,713,254	624,781,047
- beginning of year	6,059,937	522,745,746	25,552,979	2,573,055	5,405,209	30,156,036	592,492,962
2013							
<u>Cost</u>							
Beginning of year	8,215,609	990,972,496	56,194,935	23,116,231	17,628,451	9,240,589	1,105,368,311
Additions	-	14,403,932	-	-	-	33,786,180	48,190,112
Disposals	-	-	(932,931)	(1,141,471)	(46,260)	-	(2,120,662)
Reclassification	-	6,012,555	4,472,953	605,877	1,779,348	(12,870,733)	-
End of year	8,215,609	1,011,388,983	59,734,957	22,580,637	19,361,539	30,156,036	1,151,437,761
<u>Accumulated Depreciation</u>							
Beginning of year	2,028,221	453,377,309	32,350,128	20,271,106	13,569,864	-	521,596,628
Charge for the year	127,451	35,265,928	2,738,723	877,558	432,144	-	39,441,804
Disposals	-	-	(906,873)	(1,141,082)	(45,678)	-	(2,093,633)
End of year	2,155,672	488,643,237	34,181,978	20,007,582	13,956,330	-	558,944,799
<u>Net book value</u>							
- end of year	6,059,937	522,745,746	25,552,979	2,573,055	5,405,209	30,156,036	592,492,962
- beginning of year	6,187,388	537,595,187	23,844,807	2,845,125	4,058,587	9,240,589	583,771,683

As at 31st December 2014 included in work-in-progress are leasehold land costing RM1,451,894.24 (RM1,461,456 in 2013). The titles to these leasehold land are in the process of being transferred to Kuching Water Board.

FINANCIAL STATEMENTS

7 Other Investment

	2014 RM	2013 RM
Unit Trust at Cost - Quoted in Malaysia	<u>952,931</u>	<u>952,931</u>
Market value of Unit Trust	<u>1,022,870</u>	<u>1,022,870</u>

Other investment consists of investment in unit trust from Amanah Saham Sarawak. At year end the market value of the unit trust is RM1.00 per unit.

8 Inventories

Pipes and fittings, meter, spare parts and chemical carried at cost	<u>22,620,059</u>	<u>20,997,028</u>
	<u>22,620,059</u>	<u>20,997,028</u>

9 Trade Receivables

Trade receivables	13,597,955	14,572,877
Less: Allowance for doubtful debts	<u>(2,840,000)</u>	<u>(2,616,000)</u>
	<u>10,757,955</u>	<u>11,956,877</u>
Allowance for doubtful debts		
As at 1 January	2,616,000	2,616,000
Additional Allowances	<u>224,000</u>	<u>-</u>
As at 31 December	<u>2,840,000</u>	<u>2,616,000</u>

10 Other Receivables, Deposits and Prepayments

Other receivables, deposits and prepayments	3,205,060	2,710,545
Less: Allowance for doubtful debts	<u>(472,087)</u>	<u>(472,087)</u>
	<u>2,732,973</u>	<u>2,238,458</u>

11 Fixed Deposits

All the Board's fixed deposits are placed with licensed banks approved by the Ministry of Finance Malaysia.

12 Other Payables and Accruals

Collateral and temporarily deposit	15,913,998	15,196,843
Other payable	5,554,302	15,558,738
Accruals	<u>937,555</u>	<u>2,498,050</u>
	<u>22,405,855</u>	<u>33,253,631</u>

13 Provision for Employee Benefits

	2014 RM	2013 RM
Balance as at 1 st January	1,871,000	1,365,000
Provision during the year	112,072	544,515
Utilisation of provision during the year	(250,072)	(38,515)
Balance at 31 st December	<u>1,733,000</u>	<u>1,871,000</u>
At 31 st December		
Current	<u>102,954</u>	<u>299,371</u>
Non-current:		
Later than 1 year but not later than 2 years	227,000	91,000
Later than 2 years but not later than 5 years	251,000	435,629
Later than 5 years	1,152,046	1,045,000
	<u>1,630,046</u>	<u>1,571,629</u>
	<u>1,733,000</u>	<u>1,871,000</u>

14 Term Loans

a) State Government Loan (Unsecured) This RM5.3 million loan bears an interest rate at 3% per annum and is repayable in 17 annuities commencing on 22nd February 2000.	839,582	1,241,126
(b) Federal Government Loan (Unsecured) This RM4.5 million loan is interest-free and is repayable in 20 annuities commencing on 26th November 1999.	900,000	1,125,000
(c) State Government Loan (Unsecured) This RM10 million loan is interest-free and is repayable in 17 annuities commencing on 11th June 2000.	1,176,475	1,764,710
(d) Federal Government Loan (Unsecured) This RM4.53 million loan is interest-free and is repayable in 20 annuities commencing on 25th January 2004.	1,181,780	1,408,280
(e) State Government Loan (Unsecured) This RM3 million loan is interest-free and is repayable in 17 annuities commencing on 26th February 2002.	705,890	882,360
(f) State Government Loan (Unsecured) This RM5 million loan is interest-free and is repayable in 17 annuities commencing on 26th February 2002.	1,176,466	1,470,584
(g) State Government Loan (Unsecured) This RM30 million loan is interest-free and is repayable in 17 annuities commencing on 22th January 2003.	8,823,540	10,588,245

FINANCIAL STATEMENTS

14 Term Loans (Continued)

	2014 RM	2013 RM
(h) State Government Loan (Unsecured) This RM2.7 million loan is interest-free and is repayable in 17 annuities commencing on 16th November 2003.	794,118	952,941
(i) State Government Loan (Unsecured) This RM3.868 million loan is interest-free and is repayable in 17 annuities commencing on 16th February 2002.	1,137,647	1,365,177
(j) State Government Loan (Unsecured) This RM35 million loan is interest-free and is repayable in 20 annuities commencing on 16th August 2003.	14,000,000	15,750,000
(k) State Government Loan (Unsecured) This RM4.6 million loan is interest-free and is repayable in 17 annuities commencing on 15th December 2003.	1,352,941	1,623,529
(l) Federal Government Loan (Unsecured) This RM4 million loan is interest-free and is repayable in 20 annuities commencing on 3rd February 2005.	2,000,000	2,200,000
(m) Federal Government Loan (Unsecured) This RM43.8million loan is interest-free and is repayable in annuities commencing on 26th January 2007.	26,280,000	28,470,000
(n) State Government Loan (Unsecured) This RM11.1million loan is interest-free and is repayable in 20 annuities commencing on 26th January 2008.	7,215,000	7,770,000
(o) Federal Government Loan (Unsecured) This RM8million loan is interest-free and is repayable in 20 annuities commencing on 26th January 2008.	5,200,000	5,600,000
(p) State Government Loan (Unsecured) This RM8million loan is interest-free and is repayable in 20 annuities commencing on 1st March 2008.	5,200,000	5,600,000
(q) State Government Loan (Unsecured) This RM6.4million loan is interest-free and is repayable in 20 annuities commencing on 21st April 2008.	4,047,696	4,336,817
(r) State Government Loan (Unsecured) This RM9.3million loan is interest-free and is repayable in 20 annuities commencing on 22nd October 2008.	5,238,675	5,641,650

14 Term Loans (Continued)

	2014 RM	2013 RM
(s) State Government Loan (Unsecured) This RM34.7million loan is interest-free and is repayable in 20 annuities commencing on 3rd November 2008.	15,218,450	16,389,100
(t) State Government Loan (Unsecured) This RM 4 million loan is interest-free and is repayable in 20 annuities commencing on 9th April 2009.	2,800,000	3,000,000
(u) State Government Loan (Unsecured) This RM 7.5 million loan is interest-free and is repayable in 17 annuities commencing on 10th February 2010.	5,294,118	5,735,294
(v) Federal Government Loan (Unsecured) This RM 8 million loan is interest-free and is repayable in 20 annuities commencing on 10th February 2009.	5,600,000	6,000,000
(w) Federal Government Loan (Unsecured) This RM 14 million loan is interest-free and is repayable in 20 annuities commencing on 29th April 2013.	12,600,000	13,300,000
(x) Federal Government Loan (Unsecured) This RM 27 million loan is interest-free and is repayable in 20 annuities commencing on 25th January 2013.	24,300,000	24,300,000
(y) Federal Government Loan (Unsecured) This RM 6.7 million loan is interest-free and is repayable in 20 annuities commencing on 13th January 2014.	6,365,000	6,700,000
(z) Federal Government Loan (Unsecured) This RM 49 million loan is interest-free and is repayable in 20 annuities commencing on 24th October 2016.	49,000,000	49,000,000
(za) Federal Government Loan (Unsecured) This RM 26 million loan is interest-free and is repayable in 20 annuities commencing on 27th December 2015	26,000,000	26,000,000
(zb) Federal Government Loan (Unsecured) This RM 5 million loan is interest-free and is repayable in 20 annuities commencing on 26th December 2015	5,000,000	5,000,000

FINANCIAL STATEMENTS

14 Term Loans (Continued)

	2014 RM	2013 RM
(zc) Federal Government Loan (Unsecured) This RM2,469,462 million loan is interest-free and is repayable in 20 annuities commencing on 26th December 2015.	2,469,462	2,469,462
(zd) Federal Government Loan (Unsecured) This RM5,305,380 million loan is interest-free and is repayable in 20 annuities commencing on 29th December 2016.	3,972,778	-
Total as at 31 December	<u>245,889,618</u>	<u>255,684,275</u>
Less: Repayment due within 12 months	<u>(15,154,670)</u>	<u>(15,154,670)</u>
Repayment due after 12 months	<u>230,734,948</u>	<u>240,529,605</u>

15 Reserves

Being a Statutory Body, the Board does not have shareholder's fund and the reserve is represented by the Boards' retained earning.

16 Deferred Income

Deferred income represents government grants and capital contributions by consumers towards the cost of capital projects as follow:

(a) Government Grant		
Balance at 1 st January	19,879,269	16,066,389
Received during the year	25,430,000	5,000,000
Released to the Income Statement	<u>(2,204,320)</u>	<u>(1,187,120)</u>
Balance at 31 st December	<u>43,104,949</u>	<u>19,879,269</u>
(b) Capital Contributions		
Balance at 1 st January	289,842,299	338,977,361
Received during the year	30,907,586	22,810,278
Released to the Income Statement	<u>(19,439,199)</u>	<u>(12,209,131)</u>
Balance at 31 st December as previously stated	301,310,686	349,578,508
Less : Changes in Accounting Policy	<u>-</u>	<u>(59,736,209)</u>
Balance at 31 st December as Restated	<u>301,310,686</u>	<u>289,842,299</u>
Total Deferred Income	<u>344,415,635</u>	<u>309,721,568</u>

16 Deferred Income (continued)

An adjustment of RM59,736,209 to the Statement Of Changes in Equity for the year 2013 represent the effect of a change in accounting policy with respect to the treatment of capital contribution received prior to 1998. The change in accounting policy is made to enable the Board to fully adopt the Income method rather than the capital method in the treatment of this contribution. This change in accounting policy has been accounted for retrospectively. The comparative Statements Of Changes in Equity for 2014 has been restated to conform to the changed policy. The effect of the change to the Income Statement in 2014 is an increase of RM5,973,621 in amount release to the Income Statement.

	2014 RM	2013 RM
17 Deferred Taxation		
Balance at 1st January	6,767,177	10,969,165
Transfer to Income Statement	(6,670,000)	(4,201,988)
Balance at 31st December	<u>97,177</u>	<u>6,767,177</u>
The deferred taxation arises as a result of :		
Deferred tax liability		
Property, Plant and Equipment capital allowance in excess of depreciation	118,537,218	117,528,222
Deferred tax assets		
Unabsorbed capital allowance	(118,440,041)	(110,761,045)
	<u>97,177</u>	<u>6,767,177</u>
18 Revenue		
Water Sales	<u>93,374,667</u>	<u>91,257,770</u>
19 Other Operating Income		
Income from related water services	1,758,176	1,991,015
Income from other sources	9,377,012	6,394,159
Deferred income on capital contribution	21,643,519	13,396,250
	<u>32,778,707</u>	<u>21,781,424</u>
20 Administration Cost		
Finance department expenses	4,491,545	4,264,367
Administrative department expenses	12,017,758	11,689,033
Depreciation	913,258	836,900
	<u>17,422,561</u>	<u>16,790,300</u>

FINANCIAL STATEMENTS

	2014 RM	2013 RM
21 Profit From Operation		
The following items have been charged/(credited) in arriving at the profit from operation :		
Depreciation on property, plant and equipment	40,389,448	39,441,804
Dividend from other investment	(20,457)	(20,457)
Transfer from deferred income	(21,643,519)	(13,396,250)
Interest income	(6,508,714)	(6,209,598)
Board members' remuneration	42,520	44,920
Gain on disposal of property, plant & equipment	(2,847,841)	(164,103)
Auditor's remuneration	26,128	26,128
Allowances for doubtful-debts	224,000	-
Inventory written-off	-	377,715
Inventory written back	-	(176)
Rental	58,080	58,080

22 Taxation

Current year taxation in respect of:

(a) investment and interest income	1,627,179	1,552,246
(b) decrease in Provision for Deferred Taxation	(6,670,000)	(4,201,988)
	<u>(5,042,821)</u>	<u>(2,649,742)</u>

The numerical reconciliation between the average effective tax rate and the applicable tax rate are as follow:-

	%	%
Applicable tax rate	<u>25.00</u>	<u>25.00</u>
Tax effect in respect of:-		
Expenses not deductible for tax purposes	1.44	5.56
Tax Exempt Income	<u>(62.21)</u>	<u>(67.04)</u>
Average Effective Tax Rate	<u>(35.77)</u>	<u>(36.48)</u>

The YB Minister of Finance had under Section 127(3)(b) of the Income Tax Act 1967 granted the Board exemption, since the year of assessment 2001, in respect of the followings:

- (a) allocations given by State or Federal Government in the form of grants for operating expenses;
- (b) allocations given by State or Federal Government in the form of grants or loan for development expenditure ; and
- (c) any other donations or contributions received by the Board.

A further exemption, Income Tax (Exemption No.22) Order 2006, effective from year of assessment 2006 was also granted to the Board by the YB Minister of Finance under the

22 Taxation (continued)

same Section in respect of the followings:

- (a) income relating to the allocations given by the Federal and State Government in the form of grants or subsidies, and
- (b) the income received in respect of an amount chargeable and collectible from any person in accordance with the provision of the Act regulating the Board; or
- (c) any donation or contribution received.

23 Financial Instruments**a. Interest Risk**

The interest rate risk that financial instruments' value will fluctuate as a result of changes in the market interest rates and the effective weighted interest rate on classes of financial assets and financial liabilities are as follows:

	Less than 1 year RM	1 to 5 years RM	More than 5 years RM	Total RM	Effective interest rate during the year
Financial Assets					
Fixed deposit	194,273,035	-	-	194,273,035	3.2% - 3.83%
Financial Liability					
Loan	16,828,143	89,090,939	139,970,535	245,889,618	3%

b. Credit Risk

The carrying amount of cash and cash equivalents, trade receivables and other receivables represent the Board's maximum exposure to credit risk. At the balance sheet date, there were no significant concentrations of credit risk.

c. Fair Values

The fair values of the financial assets and liabilities approximate their carrying values except: -

	Carrying Amount RM	Fair Value RM
Asset		
Other Investment	952,931	1,022,870

The following methods and assumptions are used to estimate the fair value of each class of financial instruments.

i. Deposit, Cash And Bank Balances

The carrying amount of cash and bank balances approximates fair value due to the relatively short term maturity of these instruments.

ii. Trade And Other Receivables And Payables

The historical cost carrying amount of receivable and payables subject to normal trade credit terms approximates fair value. The carrying amounts of other receivables and payables are reasonable estimates of fair value because of their short maturity.

FINANCIAL STATEMENTS

23 Financial Instruments (continued)

c. Fair Values

iii. Other Investment

The fair value of publicly traded instrument is based on the quoted market prices prevailing on that day.

iv. Borrowings

The carrying amount of both short and long term borrowings approximate the fair value because the loans are interest free and for those loans that bear interest the interest rates are fixed and the interest amount had been accrued and capitalised to the loan.

v. Long Term Employee Benefits

The carrying value of the long term employee benefits approximate the fair value determined using discounted cash flow analysis based on fixed deposit interest rate.

24 Capital Commitments

Contracts for developments and indents for purchases entered into by the Board but not provided for in the accounts as at 31 December 2014 amounted to approximately RM130,097,029 (2013: RM209,872,417).

25 Staff Information

	2014	2013
Number of staff	<u>625</u>	<u>625</u>
	RM	RM
Staff cost comprises:		
(i) Staff salaries, bonus and allowances	25,102,349	24,360,051
(ii) Provision for employee benefits – Golden Hand Shake	154,755	544,515
(iii) Others	<u>1,048,601</u>	<u>913,217</u>
Contribution under defined contribution plan :		
(i) Employee Provident Fund	379,091	386,550
(ii) Government pension scheme	<u>2,182,404</u>	<u>2,065,981</u>

26 Currency

All amounts are stated in Ringgit Malaysia.

27 Comparative Figure

Certain comparative figure have been adjusted to conform to current year presentation.

PERFORMANCE
INDICATORS

2014

FINANCIAL STATEMENTS

PERFORMANCE INDICATORS 2014

	Financial Performance Indicator	2013	2014
1	Average O & M cost increase % Average increase in water production cost	1.00 4.4	6.0 6.7
2	Unit Production Cost (sen) Total O&M cost/ Total cum water produced	0.64	0.65
3	Average Cost of Water Sold (sen) Total O&M/ Total cum water sold	0.98	1.02
4	Average Tariff (sen) (RM) Total Revenue/ Total cum water sold	1.05	0.84
5	Operating Ratio Total O&M/ Total Revenue (exclude interest)	0.99	0.96
6	Ratio of Total Domestic Consumption/ Total Industrial Consumption	1.13	1.07
7	Ratio of Total Revenue of Domestic Consumption/ Total Revenue of Industrial Consumption	0.71	0.67
8	Collection Efficiency (%) Total Annual Collection/ Total Annual Billings	105.60	102
9	Average Collection Period of Debts (days) Total Debt x 365 days/ Total billed	49	51



FINANCIAL PERFORMANCES

	2010	2011	2012	2013	2014
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Basic Statistic

Water Sales	87,158	86,690	90,033	91,258	93,375
Total Revenue	101,895	104,819	109,555	113,039	126,154
Operating Expenditure	91,010	94,868	105,051	105,704	112,055
Net Profit	12,794	9,951	7,143	9,985	19,142
Long Term Loan	190,913	223,364	238,470	255,684	245,890

Performance Ratio

Net Profit Ratio	12.60%	9.50%	6.50%	8.80%	15.10%
Current Ratio	3.9	5.0	5.5	4.6	5.9
Return on Total Net Asset	2.70%	2.00%	0.90%	1.20%	2.20%
Long Term Debt to Equity (Reserves)	0.4	0.6	0.7	0.7	0.9

Appendix

Description

1	Kuching Water Board Organization Chart
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12	Annual Water Sales 2005 – 2014
13	Analysis of Consumers Connections, Consumption and Revenue for 2014
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15	Percentage of NRW for Years 2005 – 2014
16	KWB New Water Connections 2005 – 2014
17	KWB Mains Laid 2005 – 2014
18	Scale of Water Charges
19	Statutory Boundary of Kuching Water Board

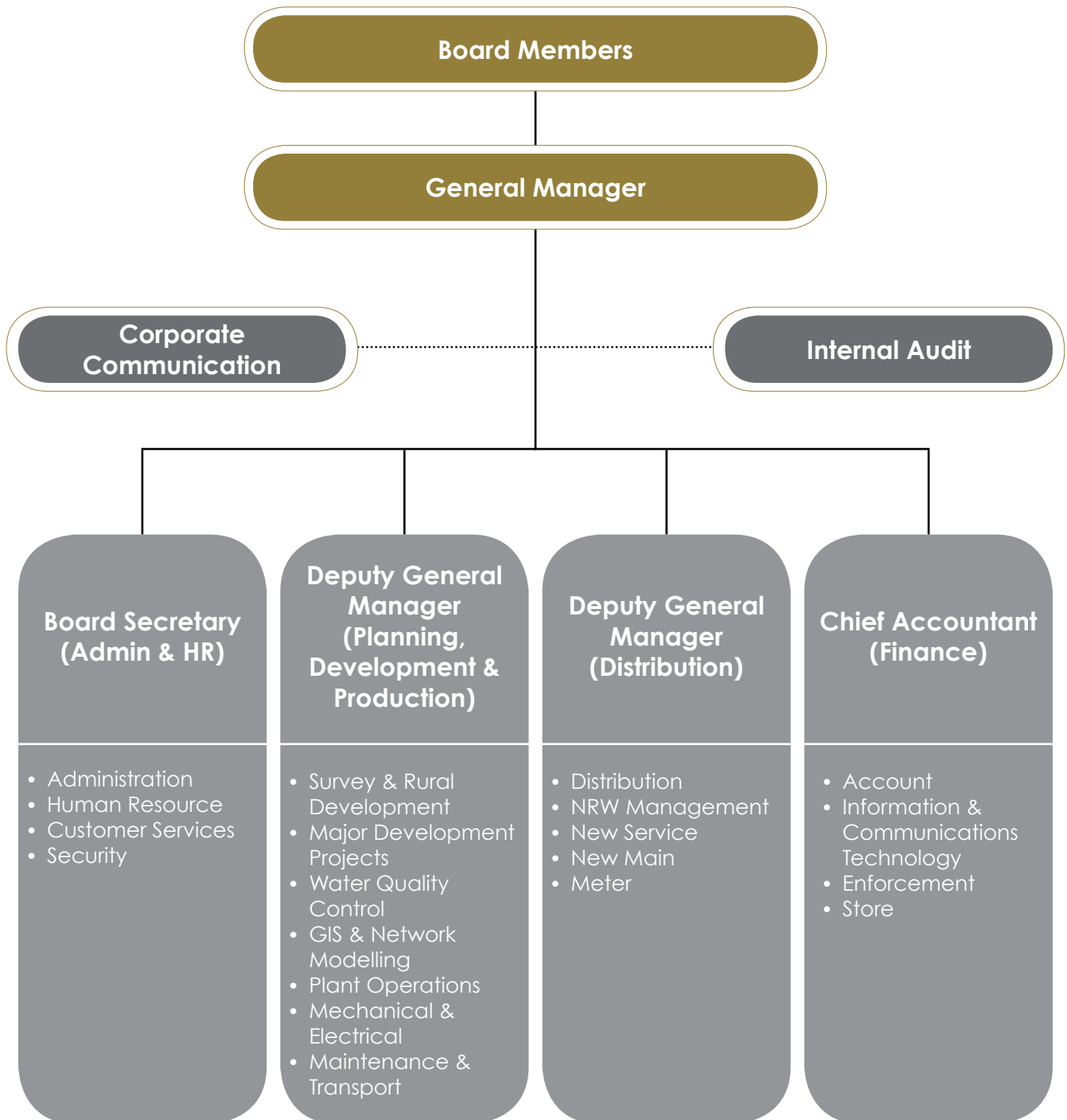


APPENDIX

APPENDIX 1

Kuching Water Board Organization Chart

KWB ORGANIZATIONAL CHART



APPENDIX

APPENDIX 2

Human Resources Training 2014

Type of Trainings	No. Attended
1) External Training (119 Programmes) Local & Overseas	315 Officers (Scale A & Support Group)
2) Inhouse Training (20 Programmes) Inhouse Programmes:-	679 Officers (Scale A & Support Group)
a) Business Writing 1 st Session 7 th – 8 th January 2014 KWB/Farwide Sdn Bhd At Merdeka Palace Hotel, Kuching 2 nd Session 2 nd - 3 rd April 2014 KWB/Farwide Sdn Bhd At Harvour View Hotel, Kuching	48 Officers (Scale B)
b) Bengkel Asas Kumpulan Inovatif dan Kreatif (KIK) 11 th – 12 th February 2014 At Conference Room, LAK	12 Officers Scale A & Support Group)
c) Construction Safety, Risk Assessment and Risk Control 19 th – 20 th February 2014 LAK/Constrich Field Company At CIDB Malaysia, Jalan Sultan Tengah	17 Officers (Scale A & Support Group)
d) Taklimat Kesedaran Pengurusan Kewangan Berhemah 27 th February 2014 LAK/Kumpulan Maybank At Board Room, LAK	20 Officer (Support Group)
e) Kursus Dalaman “Bengkel Penyediaan Manual Prosedur Kerja (MPK) 18 th – 19 th March 2014 LAK/ Smart Management Development At Harvour View Hotel, Kuching	26 Officers (Support Group)
f) Seminar on “An Overview of the Latest Procedures in Contract Management in JKR Sarawak 19 th March 2014 JKR Senior Quantity Surveyor, En, Kii Ing Ching At Dormani Hotel, Kuching	20 Officers (Scale A & Support Group)
g) KWB Lab On Drought Contingency Plan 24 th – 26 th March 2014 LAK At Dormani Hotel, Kuching	22 Officers (Scale A & Support Group)

Type of Trainings	No. Attended
h) Kursus Dalaman "Fail Meja, Lembaga Air Kuching" 1st Session 26th – 27th March 2014 LAK/Smart Management Development At Grand Continental, Kuching At Grand Continental, Kuching 2nd Session 29th – 30th April 2014 LAK/Smart Management Development At Merdeka Palace, Kuching 3rd Session 20th – 21st May 2014 LAK/Smart Management Development At Harvour View Hotel, Kuching 4th Session 8th – 9th July 2014 LAK/Smart Management Development At Harvour View Hotel, Kuching	105 Officers (Scale A & Support Group)
i) Latihan Sistem Penfluoridaan Loji 1,2 & 3 Rawatan Air Batu Kitang 1st Session 10th – 11th April 2014 Cipta Wawasan Maju Sdn Bhd/LAK At Dewan Syarahan Loji Batu Kitang	2 Officers Support Group)
j) Kursus Dalaman "Safety and Health At Workplace Course" 1st Session 16th – 17th April 2014 Smart Management Development At Hotel Harvour View, Hotel 2nd Session 27th – 28th August 2014 Smart Management Development At Hotel Harvour View, Hotel 3rd Session 27th – 28th August 2014 Smart Management Development At Hotel Harvour View, Hotel 4th Session 19th – 20th November 2014 Smart Management Development At Hotel Harvour View, Hotel	102 Officers (Support Group)
k) Kursus Pertolongan Cemas 1st Session 25th – 26th April 2014 Malaysian Red Crescent Society At Banglo Waling-Waling Jalan Maxwell 2nd Session 19th - 20th September 2014 Malaysian Red Crescent Society At Banglo Waling-Waling Jalan Maxwell	27 Officers (Scale A & Support Group)
l) Kursus Dalaman "Service From The Heart - Customer Service Empowerment Workshop" 3rd – 4th May 2014 SMT Learning Solutions / LAK At Harvour View Hotel, Kuching	22 Officers (Support Group)
m) ABB Lunch and Learn for Kuching Water Board 24th June 2014 ABB Malaysia Sdn Bhd / LAK At Batu Kitang Water Plant	10 Officers (Scale A & Support Group)

APPENDIX

Type of Trainings		No. Attended
n)	Kursus Dalaman "Program Persediaan Persaraan" 25 th – 26 th June 2014 LAK Management Officers At Hotel Harvour View, Kuching	26 Officers (Support Group)
o)	Siemen PLC (Programmable Logic Controller) Training 16 th – 17 th July 2014 LAK / Syarikat Kejuruteraan Impian At Dewan Syarahan Loji Pembersihan Air Batu Kitang	5 Officers (Scale A & Support Group)
p)	Training For Servicing of Mechanical Water Meter By M/S George Kent 22 nd September 2014 Syuhadajaya (1988) Sdn Bhd / LAK At Bintawa Store	17 Officers (Support Group)
q)	Taklimat Good and Services Tax (GST) 5 th November 2014 LAK / Kastam Diraja Malaysia At Pullman Hotel, Kuching	15 Officers (Scale A & Support Group)
r)	Revision of Service Request LAB 13 th – 14 th November 2014 LAK At Dormani Hotel, Kuching	36 Officers (Support Group)
s)	Latihan Pengendalian Klorin 1st Session 3 rd December 2014 LAK At Dewan Syarahan Loji Batu Kitang 2 nd Session 4 December 2014 LAK At Dewan Syarahan Loji Batu Kitang	74 Officers (Scale A & Support Group)
t)	Lab On The Proposal Taking Over Of Asajaya Water Supply Area 8 th – 9 th December 2014 LAK At Hotel Harbour View, Kuching	43 Officers (Scale A & Support Group)
3)	Industrial Training	Attachment
	Degree	
	- Bachelor in Civil Engineering	3 Students
	- Bachelor in Cognitive Science	1 Student
	Diploma	
	- Diploma in Management Multimedia	1 Student
	- Diploma in Land & Survey	1 Student
	- Diploma in Health Care	2 Students
	Certificate	
	- Sijil Pelan Seni Bina	2 Students
4)	Kursus Peralihan (Army)	2 Army officers
		Enforcement Distribution (Rotation)

APPENDIX 3

Water Production & Gross Consumption - 2014

Month	PRODUCTION (ML)							CONSUMPTION (ML)					
	Batu Kiang Plant				Matang Plant ¹	Total Production (ML)	Daily Total Production			Total Consumption	Daily Total Consumption		
	Modules 1 & 2	Modules 3 & 4	Modules 5 & 6	Modules 7 & 8			Average	Minimum	Maximum		Average	Minimum	Maximum
Jan	1,082,009	2,595,570	4,397,195	6,074,830	281,480	14,431,084	465,519	452,156	495,374	14,440,310	465,816	448,783	493,895
Feb	925,929	2,446,340	3,992,635	5,553,820	281,480	13,200,204	471,436	448,664	488,481	13,208,132	471,719	449,970	487,097
March	1,039,494	2,795,540	4,387,973	6,052,230	281,480	14,556,717	469,572	447,558	492,584	14,560,686	469,7	448,783	493,87
April	988,772	2,584,600	4,269,496	5,764,730	281,480	13,889,078	462,969	437,539	487,900	13,903,639	463,455	437,266	486,398
May	1,022,090	2,587,330	4,347,338	6,270,060	281,480	14,508,298	468,010	450,351	491,443	14,515,342	468,237	451,706	483,668
June	993,740	2,694,930	4,116,901	5,859,450	265,590	13,930,611	464,354	417,952	490,378	13,936,284	464,543	410,31	486,116
July	1,047,710	2,843,160	4,086,076	6,132,300	279,210	14,388,456	464,144	426,494	483,155	14,417,321	465,075	433,382	481,633
Aug	494,810	2,692,100	5,038,873	5,747,120	281,480	14,254,383	459,819	414,092	489,647	14,285,341	460,817	429,691	481,022
Sept	570,414	2,423,920	5,110,834	5,925,110	272,400	14,302,678	476,756	457,107	494,370	14,320,690	477,356	462,467	496,47
Oct	533,778	2,489,300	5,058,196	6,264,060	281,480	14,626,814	471,833	448,132	490,948	14,653,255	472,686	456,415	496,619
Nov	491,812	2,490,320	5,001,014	6,068,290	272,400	14,323,836	477,461	470,034	485,762	14,331,839	477,728	468,23	493,976
Dec	548,497	3,299,480	4,690,648	6,269,850	281,480	15,089,955	486,773	462,879	528,063	15,098,595	487,051	467,119	523,577
Total (ML)	9,739,055	31,942,590	54,497,179	71,981,850	3,341,440	171,502,114				171,671,434			
Average Daily (mid)	26,682	87,514	149,307	197,211	9,155	469,869				470,333			

Total Metered Consumption : 109,277,858 megalitres

Max Daily Gross Consumption : 528,063

Min Daily Gross Consumption : 414,092

* Note - ML : Million Liter
MLD : Million Liter Per Day

APPENDIX

APPENDIX 4

Water Consumption Analysis - 2014

Month	Domestic			Domestic / Commercial			Commercial			Standpipes			Processed			Total	
	Metered Consumption	No. of Services	%	Metered Consumption	No. of Services	%	Metered Consumption	No. of Services	%	Metered Consumption	No. of Services	%	Metered Consumption	No. of Services	%	Metered Consumption	No. of Services
Jan	4,754,365	137,292	51.96	1,674,400	2,085	18.30	2,671,449	18,282	29.20	24,074	84	0.26	25,045	16	0.27	9,149,333	157,759
Feb	4,958,639	137,139	52.87	1,640,255	2,094	17.49	2,735,345	18,358	29.16	22,633	83	0.24	22,051	15	0.24	9,378,923	157,689
Mar	4,238,913	129,981	52.50	1,593,692	2,006	19.74	2,202,745	17,205	27.28	22,395	66	0.28	15,987	14	0.20	8,073,732	149,272
Apr	4,272,572	130,058	52.94	1,331,671	1,961	16.50	2,421,858	16,529	30.01	21,409	90	0.27	22,843	17	0.28	8,070,353	148,655
May	4,934,497	138,898	52.47	1,568,240	2,053	16.67	2,857,840	18,732	30.39	18,986	80	0.20	25,610	14	0.27	9,405,173	159,777
Jun	5,184,622	141,232	51.04	1,588,257	2,259	15.64	3,330,723	19,941	32.79	22,017	80	0.22	32,243	19	0.32	10,157,862	163,531
Jul	4,320,148	136,890	53.54	1,408,088	2,058	17.45	2,297,069	17,720	28.47	16,933	75	0.21	27,219	16	0.34	8,069,457	156,759
Aug	5,163,629	132,616	51.34	1,652,387	2,033	16.43	3,189,884	17,477	31.71	21,332	78	0.21	30,787	16	0.31	10,058,019	152,220
Sep	4,617,411	140,261	50.70	1,733,800	2,102	19.04	2,711,465	18,951	29.77	16,850	86	0.19	28,337	16	0.31	9,107,863	161,416
Oct	4,999,544	145,228	52.12	1,581,390	2,127	16.49	2,972,767	19,418	30.99	14,841	78	0.15	23,759	18	0.25	9,592,301	166,869
Nov	4,549,533	139,738	48.64	1,689,472	2,112	18.06	3,072,231	19,069	32.85	17,874	80	0.19	23,477	14	0.25	9,352,587	161,013
Dec	4,522,402	132,142	51.03	1,615,564	2,014	18.23	2,681,512	17,836	30.26	18,617	75	0.21	24,160	17	0.27	8,862,255	152,084
Total :	56,516,275			19,077,216			33,144,888			237,961			301,518			109,277,858	

APPENDIX 5

Consumers' Normal Monthly Consumption - 2014

CONSUMPTION (M3)	DOMESTIC		COMMERCIAL/ DOMESTIC		COMMERCIAL		STANDPIPES		PROCESSED	
	No. of Consumers	%	No. of Consumers	%	No. of Consumers	%	No. of Consumers	%	No. of Consumers	%
0.000	11,206	8.47	166	8.17	2,668	15.26	6	7.59	1	6
0.001 - 5.000	10,226	7.73	254	12.53	3,795	21.71	4	4.95	0	1
5.001 - 10.000	9,679	7.32	250	12.3	2,018	11.54	1	1.43	0	2
10.001 - 15.000	11,883	8.98	171	8.44	1,227	7.02	0	0.44	1	4
15.001 - 20.000	13,044	9.86	147	7.25	866	4.95	1	1.65	0	3
20.001 - 25.000	12,902	9.75	127	6.26	683	3.9	0	0.44	1	5
25.001 - 30.000	11,681	8.83	112	5.5	553	3.16	1	1.76	0	2
30.001 - 35.000	9,958	7.53	95	4.69	470	2.69	1	1.21	0	2
35.001 - 40.000	8,240	6.23	79	3.91	399	2.28	1	0.99	0	2
40.001 - 45.000	6,647	5.02	70	3.43	355	2.03	1	0.88	0	1
45.001 - 50.000	5,212	3.94	61	2.99	316	1.81	1	1.1	0	1
50.001 - 100.000	17,652	13.34	298	14.68	1,773	10.14	12	15.4	2	10
100.001 - 150.000	2,422	1.83	95	4.66	736	4.21	7	9.35	1	6
150.001 - 200.000	643	0.49	41	2.02	386	2.21	7	9.24	0	1
200.001 - 250.000	276	0.21	21	1.06	241	1.38	5	6.6	0	1
250.001 - 300.000	146	0.11	12	0.61	158	0.9	3	4.51	0	1
300.001 - 350.000	96	0.07	5	0.25	112	0.64	4	5.39	0	0
350.001 - 400.000	61	0.05	5	0.25	86	0.49	4	4.62	0	1
400.001 - 450.000	44	0.03	3	0.12	63	0.36	4	5.39	0	0
450.001 - 500.000	32	0.02	2	0.09	54	0.31	3	3.96	0	0
OVER 500.000	230	0.17	16	0.79	527	3.01	10	13.09	8	52
Grand Total :	132,278	100	2,029	100	17,486	100	76	100	15	100

APPENDIX

APPENDIX 6

Kuching Water Board Raw Water Quality - Extracted from the Report of Chemistry Department for the Year 2014

Parameter	Location	Recommended Criteria	Raw Water			
			Batu Kintang Intakes	Sungai Cina	Matang Dam	Sebubut Basin
No. of Samples Analysed			12	12	12	12
Group I Parameter						
pH (H+)		5.5 - 9.0	6.9	6.8	5.9	6.0
Color (Hazen)		300	42	<10	12	27
Turbidity (NTU) 1		000	31	1.0	1.4	5.2
Group II Parameter (unit in ppm)						
TDS at 105 - 110oC		1500	33	15	<10	<10
Total Organic Carbon			4.65	3.78	4.25	5.37
Chemical Oxygen Demand COD		10	-	-	-	-
Biochem. Oxygen Demand BOD		6	<2	<2	<2	<2
Ammonia (N)		1.5	<0.1	<0.1	0.1	<0.1
Nitrate (N)		10	1.0	<0.5	<0.5	<0.5
Detergent (MBAS)		1.0	-	-	-	-
Total Hardness (CaCO ₃)		500	33	6	<5	<5
Fluoride (F)		1.5	<0.1	<0.1	<0.1	<0.1
Chloride (Cl)		250	1	2	1	2
Iron (Fe)		1.0	0.49	0.04	0.25	0.49
Manganese (Mn)		0.2	0.04	<0.01	0.02	0.03
Group III Parameter (unit in ppm)						
Arsenic (As)		0.05	<0.001	<0.001	<0.001	<0.001
Mercury (Hg)		0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd)		0.005	<0.0002	<0.0002	<0.0002	<0.0002
Lead (Pb)		0.1	<0.001	<0.001	<0.001	<0.001
Chromium (Cr)		0.05	<0.002	<0.002	<0.002	<0.002
Silver (Ag)		0.05	<0.002	<0.002	<0.002	<0.002
Copper (Cu)		1.0	0.001	0.002	0.002	0.001
Zinc (Zn)		1.5	0.006	0.005	0.009	0.009
Magnesium (Mg)		150	0.97	0.49	0.38	0.34
Sodium (Na)		200	1	2	<1	<1
Selenium (Se)		0.01	<0.001	<0.001	<0.001	<0.001
Sulphate (SO ₄)		400	<5	<5	<5	<5
Group IV Parameter (unit in ppb)						
Alpha-BHC			<0.020	<0.020	<0.020	<0.020
Beta-BHC			<0.020	<0.020	<0.020	<0.020
Lindane / Gamma-BHC	2		<0.020	<0.020	<0.020	<0.020
Delta-BHC			<0.020	<0.020	<0.020	<0.020
Heptachlor	0.03		<0.005	<0.005	<0.005	<0.005
Heptachlor-Epoxide	0.03		<0.005	<0.005	<0.005	<0.005
Alpha-Endosulfan			<0.020	<0.020	<0.020	<0.020
Beta-Endosulfan			<0.020	<0.020	<0.020	<0.020
Endosulfan-Sulfate			<0.020	<0.020	<0.020	<0.020
4,4-DDE			<0.020	<0.020	<0.020	<0.020
4,4-DDD			<0.020	<0.020	<0.020	<0.020
4,4-DDT	2		<0.020	<0.020	<0.020	<0.020
Aldrin	0.03		<0.005	<0.005	<0.005	<0.005
Dieldrin	0.03		<0.005	<0.005	<0.005	<0.005
Endrin			<0.020	<0.020	<0.020	<0.020
Metaoxychlor	20		<0.020	<0.020	<0.020	<0.020
Endrin-Aldehyde			<0.020	<0.020	<0.020	<0.020
Alpha-Chlordane	0.2		<0.020	<0.020	<0.020	<0.020
Gamma-Chlordane	0.2		<0.020	<0.020	<0.020	<0.020

APPENDIX

Parameter \ Location	National Guidelines for Drinking Water Quality	Treated Water								
		Batu Kintang								Matang Plant
		Plant 1	Plant 2		Plant 3		Plant 4			
		M 1 & 2	M 3	M 4	M5	M6	M7	M8		
Group IV Parameter (unit in ppb)										
Alpha-BHC	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Beta-BHC	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Lindane / Gamma-BHC 2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Delta-BHC	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Heptachlor	0.03	<0.005	<0.005	<0.005	0.011	0.009	0.010	0.009	<0.005	
Heptachlor-Epoxide	0.03	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Alpha-Endosulfan	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Beta-Endosulfan	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Endosulfan-Sulfate	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
4,4-DDE		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
4,4-DDD		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
4,4-DDT	2	<0.020	0.035	0.023	0.030	0.033	<0.020	0.028	<0.020	
Aldrin	0.03	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Dieldrin	0.03	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Endrin		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Metaoxychlor	20	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Endrin-Aldehyde		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Alpha-Chlordane	0.2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Gamma-Chlordane	0.2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	

Note : * number of violation

APPENDIX 8

Treatment Plants and Pumping Stations 2014

Item	Particulars	Batu Kintang Plant					Remarks
		Plant 1 Modules 1 & 2	Plant 2 Modules 3 & 4	Plant 3 Modules 5 & 6	Plant 4 Modules 7 & 8	Matang Plant	
1	Total Production, ML	9,739.055	31,942.590	54,497.179	71,981.850	3,341.040	171,501.714
2	Production cost per 1,000 Litres		16.911	22.507	15.615	36.761	19.26
3	Plant Operation:Average	23:55	23:55	23:55	23:55	23:55	
	Daily Hours : Minimum	21:53	21:53	21:53	21:53	21:33	
	: Maximum	24:00	24:00	24:00	24:00	24:00	
4	Chemical Consumption (Kgs)						
	Aluminium Sulphate	482,835.41	1,047,509.85	2,256,182.40	1,884,342.19	29,798.73	5,700,668.58
	Hydrated Lime	190,674.38	523,502.96	1,104,146.02	1,133,820.60	40,682.75	2,992,826.71
	Liquid Chlorine [Post]	72,765.29	180,614.35	237,457.79	267,005.00	7,979.60	765,822.03
	Liquid Chlorine [Intm]	-	-	-	-	1,690.40	1,690.40
	Anydrous Ammonia	10,080.64	25,346.35	65,600.82	63,114.37	2,264.67	166,406.85
	Sodium Silicofluoride	8,783.74	15,222.54	27,250.00	40,268.09	1,495.00	93,019.37
	Sodium Silicate	-	-	-	-	4,245.60	4,245.60
	Sodium Bicarbonate	-	-	-	-	1,273.69	1,273.69
	Polymer Coagulant	275.01	337.51	950.01	425.00	-	1,987.53
	Polymer Flocculant	584.23	1,355.78	1,345.66	1,973.87	-	5,259.54
	Aluminium ChloroHydrate	-	-	33,105.60	-	-	33,105.60
	Polyaluminium Chloride (PAC)	-	-	-	569,099.13	-	569,099.13
5	Electricity Consumption (KWH)		7,557,270	26,728,018	17,912,977	422,031	52,620,296
6	Pumping Hours	Hours	Mins	Hours	Mins	Hours	Mins
(a)	Raw Water Pumps						
	No.1			7,317	5	7,335	30
	No.2					412	10
	No.3			4,658	30	8,388	45
	No.4	8,506	15	145	15	1,769	5
	No.5			5,359	50	6,291	5
	No.6					4,546	51
	No.7					5,714	10
	No.8					5,059	25
	No.9						
	Pumping Hours	Hours	Mins	Hours	Mins	Hours	Mins

APPENDIX

Item	Particulars	Batu Kitang Plant								Remarks	
		Plant 1 Modules 1 & 2		Plant 2 Modules 3 & 4		Plant 3 Modules 5 & 6		Plant 4 Modules 7 & 8			Matang Plant
(b)	Treated Water Pumps										
	No.1	3,970	50	6,897	5	5,888	35	6,424	50		
	No.2	3,153	0	3,098	45	6,360	0	2,892	33		
	No.3	1,061	39	6,641	55	5,562	20	5,529	25		
	No.4	2,497	20	7,286	50	6,317	25	5,382	25		
	No.5	969	10			2,741	35	4,988	15		
	No.6					7,768	35	5,122	0		
	No.7					7,546	20	3,678	10		
	No.8					5,725	50	6,439	35		
	No.9							1,788	20		
(c)	Lowlift Pumps (Raw Water)										
	No.1	88	55	68	10						
	No.2	35	5	31	20						
7	Plant Operating Hours	1,591	15	288	0	1,632	40	1,653	5		
8	Water Filter Backwashing			0.000		0.000		945.845		82.890	
9	Maximum Daily Output Megalitres	51.131 29.01.14	130.700 17.12.14		185.575 30.08.14		211.960 14.05.14		9.080 (Estimate)		
	Minimum Daily Output Megalitres	12.620 28.08.14	62.600 31.08.14		104.541 05.03.14		164.430 31.08.14		9.080 (Estimate)		
10	Nos.of Pipe Burst 400mm dia DI (R/WSg.Cina) 375mm dia CI Matang Main	-	-		-		-		-		
11	Sesco Power Failure Trip	6 3	6 4		6 4		6 4		11		
12	No. of Visitors	226									
13	Total Rainfall (mm)	3,375.1								2,682.0	Matang Dam

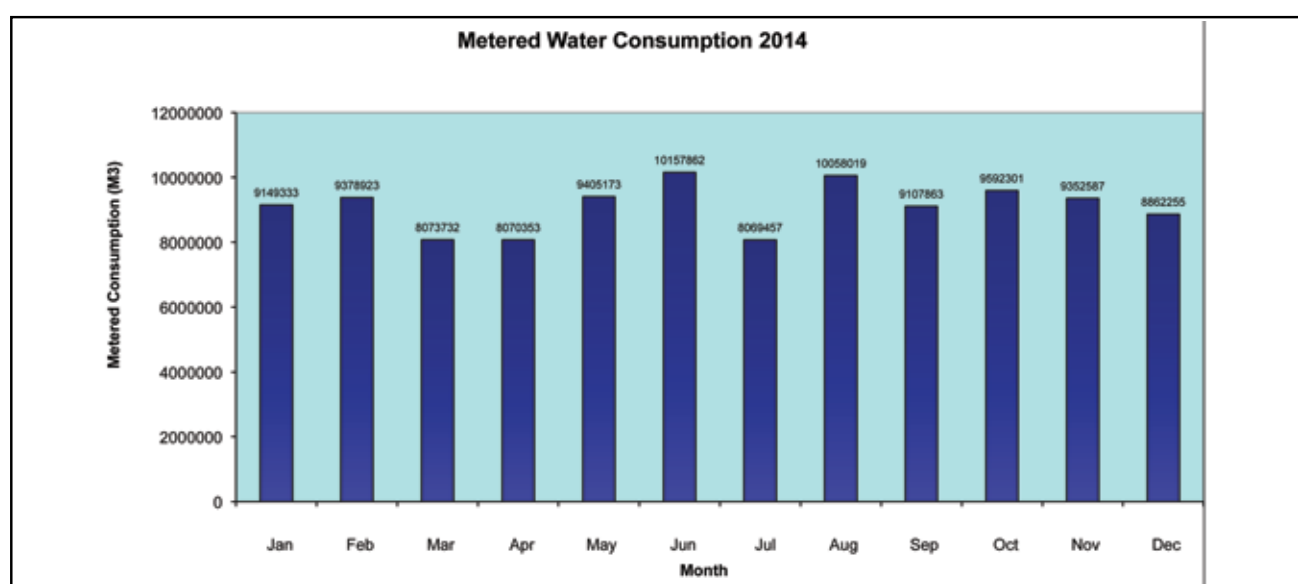
APPENDIX 9

Summary of Pipe Lengths Laid (m) by Developers for 2014

Month	100mm D.I	150mm D.I	200mm D.I	250mm D.I	300mm D.I	400mm D.I	450mm D.I	600mm D.I	160mm HDPE	225mm HDPE	280mm HDPE
Jan	140	2529	120	294							
Feb		684	276								
Mar		550	170								
Apr	1208	2559.3	1367.4	570	1332				1230	1749	
May	240	30	1095								
Jun		829	1459	1416			1477	5140			2393
Jul		522.91	907.96								
Aug		1026.54	195								
Sep	36	1363.7	988		345				40		
Oct		2120	946		204	285			186	177	
Nov		4439.5	10381.38	3495.5	4066				1899		
Dec		180									
Total	1624	16833.95	17905.74	5775.5	5947	285	1477	5140	3355	1926	2393

APPENDIX 10

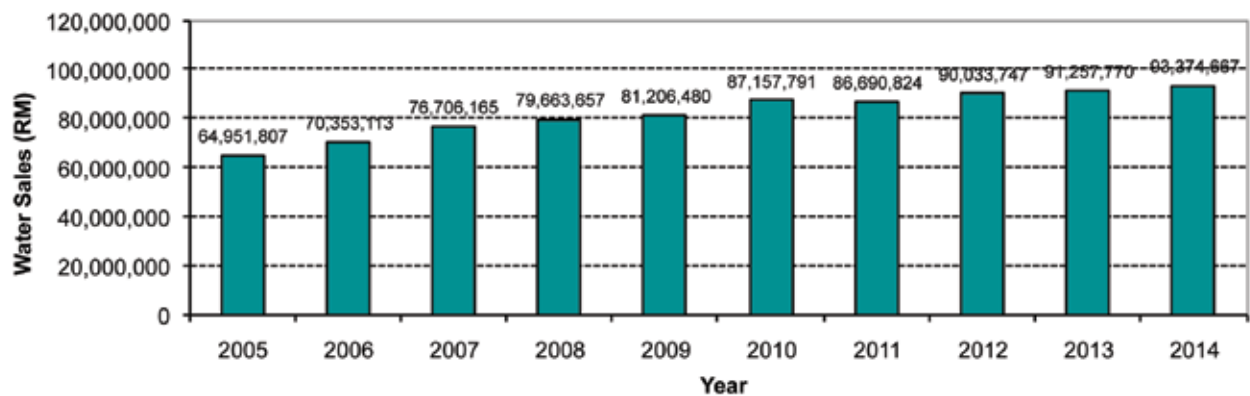
Metered Water Consumption – 2014



APPENDIX

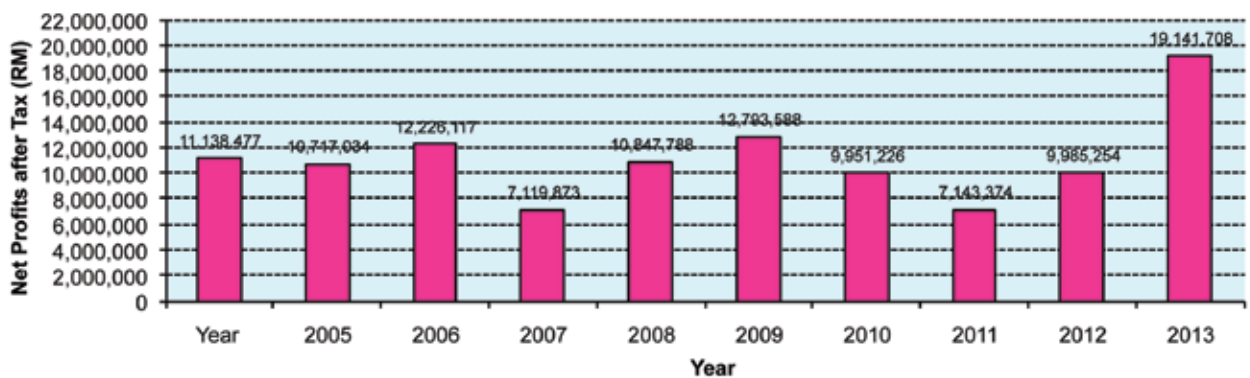
APPENDIX 11

Profitability Trend 2005 - 2014



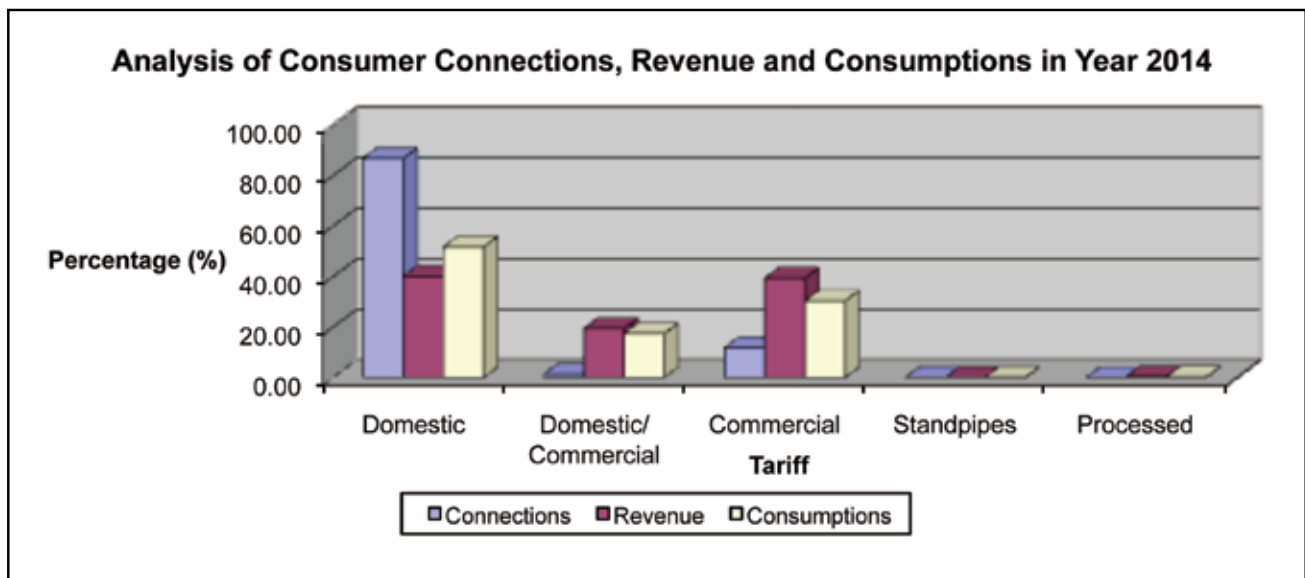
APPENDIX 12

Annual Water Sales 2005 - 2014



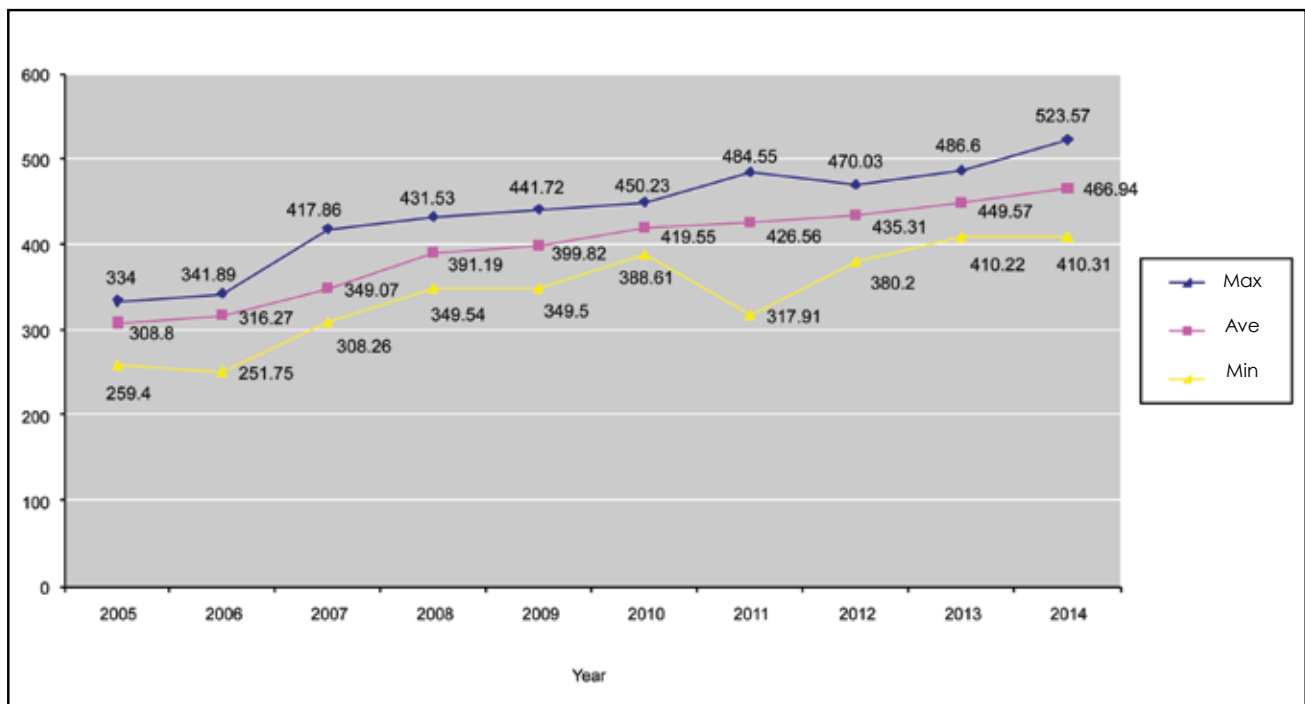
APPENDIX 13

Analysis of Consumers Connections, Consumption and Revenue for 2014



APPENDIX 14

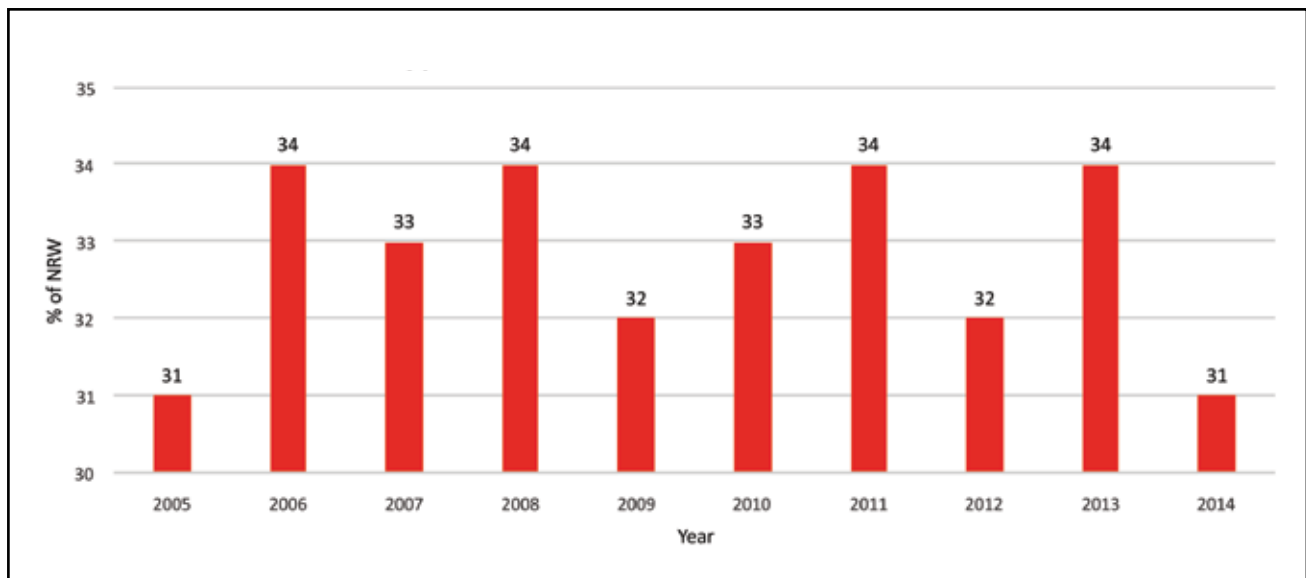
Daily Water Production 2005 - 2014



APPENDIX

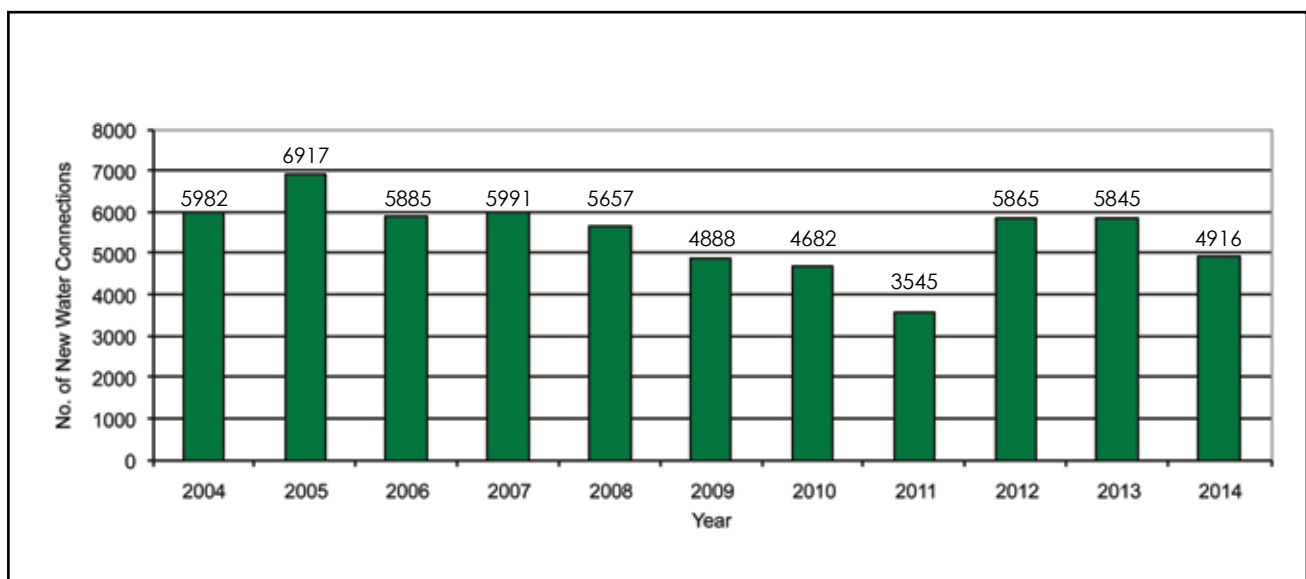
APPENDIX 15

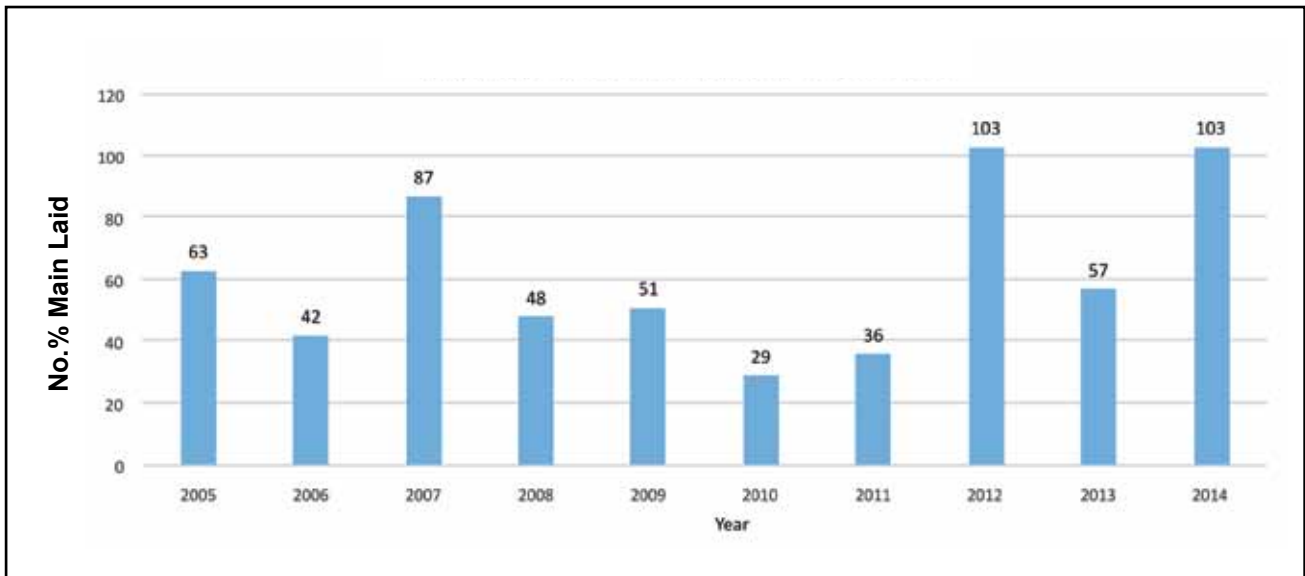
Percentage of NRW for Years 2005 - 2014



APPENDIX 16

KWB New Water Connections 2005 - 2014



APPENDIX 17**KWB Mains Laid 2005 - 2014**

APPENDIX

APPENDIX 18

Scale of Water Charges Effective From 1st January 1992

Domestic Rate	Per 1,000 Litre
Minimum Charge in any one month	RM 4.40
1,000 to 15,000 litres in any one month	RM 0.48
In excess of 15,000 litres but not exceeding 50,000 litres in any one month	RM 0.72
The excess over 50,000 litres in any one month	RM 0.76
Domestic/Commercial Rate	
Minimum Charge in any one month	RM 18.70
1,000 to 25,000 litres in any one month	RM 0.83
The excess over 25,000 litres in any one month	RM 0.95
Commercial Rate	
Minimum Charge in any one month	RM 22.00
1,000 to 25,000 litres in any one month	RM 0.97
The excess over 25,000 litres in any one month	RM 1.06
Special Commercial Rate for Water Processed for Sale	
Minimum Charge in any one month	RM 27.50
1,000 to 25,000 litres in any one month	RM 1.21
The excess over 25,000 litres in any one month	RM 1.33
Public Standpipes	RM 0.43
Water Collected at Depot (Customer's Transport)	RM 0.43
Water to Ship	RM 1.70
Meter Rents	Per Month or Part of a Month
15 mm	RM 0.55
20 mm	RM 1.65
25 mm	RM 2.20

