A. KEY PERFORMANCE INDICATORS (KPIs)

WATER SERVICE (W)

A-1.0 KPI-W1 Domestic Connections (Monthly Report Card)

For KPI-W1, the unit of measure is the number of Domestic Water Connections of which:

No. of Domestic Water Connections = Residential + Semi-business + Urban Poor

- (Bulk meter and public faucets = 1 connection) (From Table 1 of Thames Report)

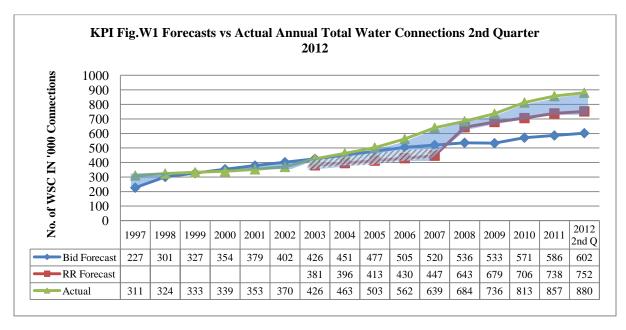
KPI Table W1a. Annual New Water Connection Targets

	2007	20	08	20	09	201	10*	201	11	201	12
INDICATORS	BASE	TARGET	ACTUAL	TARGET	ACTUAL	TARGET	ACTUAL	TARGET	ACTUA L	TARGET	ACTUA L 2nd Quarter
New Domestic Connections (W1)		46,344	44,301	35,196	51,806	24,115	52,346	30,882	32,916	12,047	15,131
Individualized Subdivisions/Bulk Accounts		-	-	-	-	-	1,754	-	5,135	-	512
Individualized Peoples' Organizations		-	-	-	-	-	17,707	-	510	-	96
Urban Poor Connections (Tubig Para Sa Barangay)	596,240	-	-	-	-	-	20,344	-	4,416	-	6,172
W1+ Individualizations and Urban Poor		-	-	-	-	-	92,151	-	42,077	-	21,911
Cumulative Domestic Connections		642,584	640,541	677,780	692,347	701,895	784,498	732,777	807,77 0	744,824	829,68 1
* Negative Adjustment of -19,705		•		•		•	764,793	-		-	
New Commercial/Industri al Connections (C/I)		No Target	527	1,970	605	2,441	1,660	1,474	1,062	1,470	643
Cumulative (C/I) Connections	42,826	-	43,353	44,796	43,958	47,237	45,618	48,711	50,211	50,181	50,854
* Positive Adjustment of 3,531		-	-	-	-	-	49,149	-		-	
Total New Water Service Connections (W1+C/I)		46,344	44,828	37,166	52,411	26,556	93,811	32,356	33,978	13,517	
Cumulative Total Water Service Connections (W1+C/I)	639,066	642,584	683,894	679,750	736,305	706,306	830,116	738,662	857,98 2	752,179	880,53 5
* Net Adjustment of - 16,173		-	-	-	-	-	813,943	-		-	

Sources: Manila Water 2008 Second Rate Rebasing Business Plan, Manila Water 2008, 2009 & 2010 Annual Reports, KPI+BEM Reports January to December 2011 and 2nd Quarter 2012

Notes: 1. RR Forecasts were adjusted considering the 2007 actual connections

- $2. \ \, \text{Target Domestic and C/I connections were assumed } 90/10 \text{ of the total new water connections}$
- Data Cleaning was conducted by MWCI in December 2010 which re-established the total number of Domestic Water Service Connection at 764,793 (previously reported as 784,497) and the total number of Commercial and Industrial Connections at 49,149 (previously reported as 45,618)



Sources: Manila Water 2008 Second Rate Rebasing Business Plan, Manila Water 2008, 2009 & 2010 Annual Reports, KPI+BEM Reports January to December 2011 and 2nd Quarter 2012

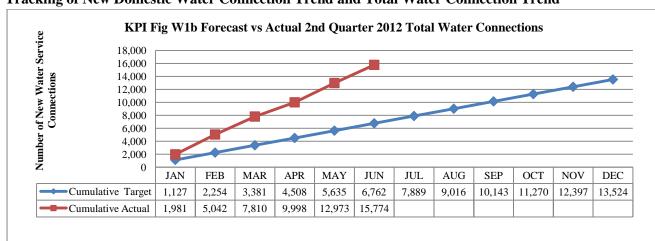
Actual Number of Water Service Connections exceed of RR Forecast

KPI Table W1b. 2012 Target vs Actual New Water Service Connections

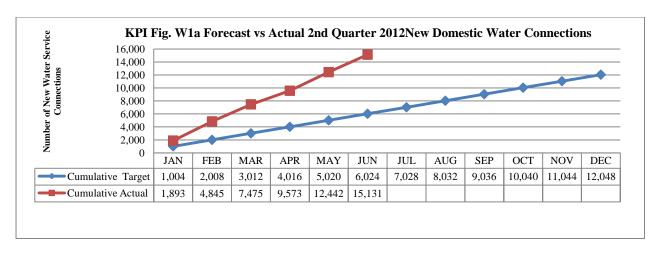
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total
RR													
Forecast													
	1,004	1,004	1,004	1,004	1,004	1,004	1,004	1,004	1,004	1,004	1,004	1,004	12,048
Domestic													
C/I	123	123	123	123	123	123	123	123	123	123	123	123	1,476
Actual													
	1,893	2,952	2,630	2,098	2,869	2,689	-	-	-	-	-	-	15,131
Domestic													,
C/I	88	109	138	90	106	112	-	-	-	-	-	-	643

Sources: Manila Water 2008 Business Plan &MWCI KPI+BEM Report Card January to June 2012

Tracking of New Domestic Water Connection Trend and Total Water Connection Trend



Sources: Manila Water 2008 Business Plan &MWCI KPI+BEM Report Card January to June 2012



Sources: Manila Water 2008 Business Plan &MWCI KPI+BEM Report Card January to June 2012

KPI-Evaluation 2012

1. KPI-W1 January to March 2012

Regular Program

- From January to June of Rebasing year 2012, Manila Water has installed a total of 15,131 domestic connections under its regular program. Majority or 39% of new accounts under the regular program reside the NCR particularly in Quezon City and in Pasig.
- At **15,131** new domestic connections, MWCI has already exceeded the KPI-W1 target **12,047** for **2012**.

Individualization of Bulk Selling Accounts

- From the 1st through the 2nd Quarter of 2012, Manila Water has individualized a total of **512** accounts previously under Subdivisions' Bulk Selling Schemes. Majority or **473** of these accounts reside in Cainta Rizal.
- Bulk selling is considered as an indirect service since the concessionaire has no control
 over the pricing, pressure, and quality of water supplied by the middlemen to its
 clientele.

Urban Poor Water Service Accounts

A total 6,172 accounts under the 'Tubig Para sa Barangay (TPSB)" program has been implemented within the 1st Quarter of Rebasing Year 2012. Majority of these accounts are from the expansion areas of Rodriguez, Antipolo and Binagonan. As of the first Quarter of Rebasing Year 2012, Manila Water maintains a total of 200,875 accounts under their "TPSB" program.

• The "Tubig Para sa Barangay" program provides access to customers who do not have security of tenure and belong to the economically marginalized sector of society.

The new connections under the regular program, individualizations and urban poor water service accounts add up to **21,911** new domestic connections installed from the 1st through the 2nd quarter of 2012. Given the beginning balance of **807,770** domestic accounts for 2012, the running total of domestic accounts being maintained by Manila Water now amounts to **829,681**.

The **829,681** domestic water service connections at the end of March 2012 represent a **3%** growth from the **807,770** number of domestic water service connections in 2011.

Along with **643** new commercial/industrial connections for the period in review, the concessionaire reports a total **of 50,854** commercial/industrial connections being maintained as of June 2012.

This brings the running total number of accounts installed by MWCI to **880,535** as of the 2nd Quarter of Rebasing Year 2012.

Compliance with KPI-W1 Targets

- As per Manila Water's 2008 Business Plan, a total of **142,442** (**136,537** domestic and **5,885** commercial and industrial) new water service connections were targeted for implementation from 2008 to Compliance Year 2011 (See KPI Table W1a. Annual New Water Connection Targets) An additional target of 12,047 was also set for 2012. These targets project the compliance year figures for domestic water service connections to be **752,179** at the end of Rebasing Year 2012.
- From January 2008 to December 2011, Manila water has connected a total of **181,369** new domestic water service connections under its regular program. This figure meets and exceeds the 2008 Business Plan Target of **136,537** domestic connections by **33%** or **44,832 connections**.
- The additional 15,131 domestic connections from the 1st through the 2nd Quarter of 2012 furthers the continued increase of Manila Water's domestic water service accounts. From January 2008 to March 2012, the Concessionaire has thus far installed 207,660 domestic connections supplemented by individualizations of accounts previously under bulk selling.

Water Service Coverage as of June 2012

• The **880,535** domestic connections being maintained by Manila Water as of the 2nd Quarter of Rebasing Year 2012 serves an equivalent **1.23M** household **or a** population of **6.4 M** (at **8.1 persons per connection as per the PAWS survey).**

• In terms of Service Coverage as per Manila Water's 2008 Business Plan, water service coverage determination for 2008-2011 shall be based upon the Households Approach Method see table below.

Water Service Coverage	2008	2009	2010	2011	2012 2nd Quarter
New Domestic Water Service Connections	44,301	51,806	92,151	42,977	21,911
Cumulative Domestic Water Service Connections*	640,541	692,347	764,793	807,770	829,681
Equivalent Population Served at 8.1 Persons per connection	5,188,382	5,608,011	6,194,823	6,542,937	6,720,416
Projected Population	6,055,730	6,152,234	6,248,191	6,338,380	6,437,930
Domestic Households served by Water Service Connections (Cumulative)	921,857	975,653	1,064,163	1,109,457	1,135,352
Net Service Households	1,040,370	1,056,813	1,073,166	1,088,536	1,110,682
Water Service Coverage	89%	92%	99%	102%	102%

- As of the 2nd Quarter of Rebasing Year 2012, the Water Service Coverage of Manila Water is at **102%** of the households in the east service area. (1,135,352 Households Served / 1,110,682 Service Households in the East Zone).
- That Manila Water's Service Coverage under the Households Approach Method exceeds 100% necessitates a review of the Households Method Framework. Subsequent adjustments must also be undertaken possibly in the parameters which form the basis of the Household Approach. In particular:
- Equivalent households served should be in line with the NSO operative definition for households to wit:

"Social unit consisting of a person or a group of persons who sleep in the same housing unit and have common arrangements in the preparation and consumption of food."

- Service population should be the resident domestic population per city/municipality. Figures should more or less be close to NSO projections for the year in question and must not include transient population such as boarders and stay-in workers.
- Furthermore, accounts under bulk selling schemes per city municipality should be enumerated and excised from the service population as they are not being served directly by the concessionaire. Accounts under Bulk selling schemes do not receive the full benefits of direct customers as they pay more and are not party to the after sales service of the concessionaires.
- Correlation between the number of persons per household and the number of persons per service connection must be made or in the absence of such correlation, the multiplier "5" should be used to convert connections into

population as this was the standard used by the old MWSS prior to privatization and also so as the percentage coverage do not exceed 100%.

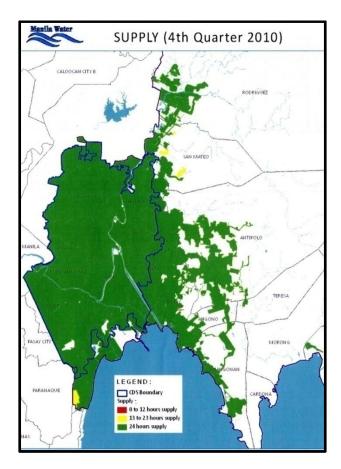
• Both population and household coverage that exceed 100% implies that the multiplier is too high or/or that the household groupings are not in-line with the NSO definition.

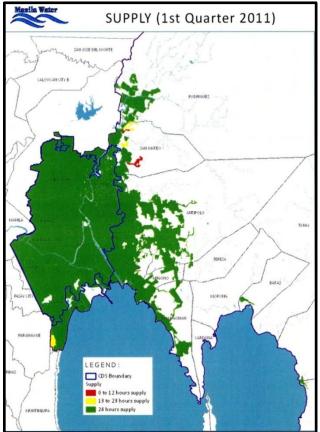
A-2.0 KPI-W2 Continuity of Supply

% of Total Hours @ 24 Hours Supply

- Base is number of connected customers served with 24 hours water supply (increasing in time)
- Excluding connected customers which cannot be served with 24 hours water supply

No. of Hours of	20	08	20	09	20	10	20	11	20	12
Supply	Target	Actual								
24 hours	98%	98%	98%	99%	98%	99%	98%	99%	98%	99.57%
Less than 24 hours	2%	2%	2%	1%	2%	1%	2%	1%	2%	0.43%





KPI-W2 Observations

Despite overshooting its total water service connection targets, table above shows that MWCI met its target of customers receiving 24 hours of water supply in 2008 at 98% and overshoots the same KPI-W2 targets from 2009 to 2011.

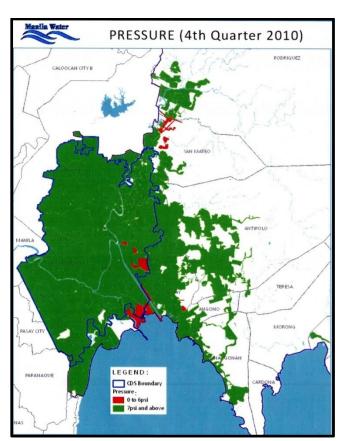
Likewise, it was recorded at EO June 2012 that 99.57% of the currently served customers in the East Zone were receiving 24 hours of water supply.

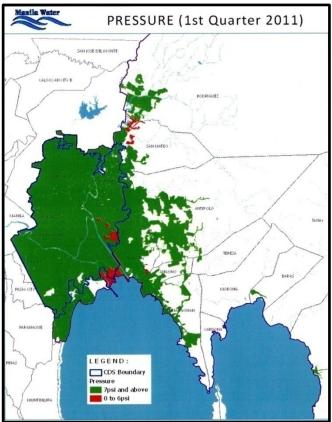
A-3.0 KPI-W3 Pressure of Water Supply

% Total Hours @ Minimum Pressure of 7 psi

- Base is number of connected customers served with 7 psi and above (increasing in time)
- Excluding connected customers which cannot be served with minimum 7 psi pressure

No. of Hours of	20	2008		2009		2010		2011		2012	
Supply	Target	Actual									
7 psi and above	76%	99%	78%	99%	80%	99%	82%	99%	85%	99%	
7 psi below	24%	1%	22%	1%	20%	1%	18%	1%	15%	1%	





KPI-W3 Observations

As in the case of KPI-W2, table above shows that MWCI overshoots its targets of customers (in percentage terms) receiving 7 psi and above pressure from 2008 to 2011.

As of EO June 2012, MWCI reported that 99.19% of its currently served areas have an access of 7 psi and above pressure of water supply. This is around 14 percentage points higher than its target of 85% for 2012. The average pressure in the East Zone was recorded at 19.49 psi for the period under review.

A-4.0 KPI-W4 Water Quality at Plant Outlet

This requires the Concessionaire to test for specified parameters at prescribed frequencies as set in the KPI Guide Doc. At the treatment plant or water treatment works, sampling frequencies are based on the average daily output from the treatment plant during the previous calendar year except where it is known that the current year's average daily output will be significantly different from the previous year's average daily output. Further, set sampling frequencies is also based on the assumption that water quality of the raw water source of is at least Class A based on DENR classification.

There is no requirement in the KPI Guide Doc to sample for some parameters at the water treatment works. However, when the Concessionaire has carried out determination for those some parameters and supplied the information as part of its compliance information, the number of determinations and any breaches of the standards have been included in the assessment of water quality.

The legal requirement on water companies at the treatment plant or water treatment works is 100% compliance with the Philippine National Standards for Drinking Water. The same has also been the target of Manila Water in its submitted and approved 2008 Business Plan.

Table W4 shows the summary of water quality at the ten (10) treatment plants/works operated by Manila Water in 2011.

Table W4 SUMMARY OF WATER QUALITY AT THE TREATMENT PLANT/ WTWs

	2008	2009	2010	2011	2012
NUMBER OF TPs/ WTWs OPERATED	11	12	12	10	
- with exceeding PCV	0	0	1	1	
- TP/ WTRs with PCV exceeded			Taytay	San Rafael	
TOTAL NUM, BER OF TESTS	20,726	37,376	32,755	19,822	
- w/ exceeding PCV	0	0	23	4	
PERFORMANCE, %	100.0	100.0	99.93	99.98	

PCV- prescribed concentration value set by the Phil. National Standards for Drinking Water

KPI-W4 Evaluation

Manila Water's Performance under W4 KPI- Water Quality at the Treatment Plant is based on the number of tests that exceeded the prescribed concentration value set in the PNSDW over the number of required number of test Manila Water has to carry out on its 10 operational TPs/WTWs. As shown in Table W4 above, Manila Water failed to meet its target of 100% passing on the quality of the product water at the treatment plant outlet based on the specified parameters for monitoring at the required sampling frequency.

The reduction in the required number of tests in 2011 compared to 2010 was due to the following:

- Taytay WTWs had been decommissioned since February 2011 due to the availability of surface water in the supply zone served by Taytay WTWs;
- Similarly, Aranzasu was also decommissioned since December 2011 due to the availability of surface water in its supply zone;
- San Rafael TP stopped its operation during the month of February due to its failure to meet total coliforms standard in January;
- Reduction on the required number of tests in some treatment plants;
- Molave and Tanguile WTWs had been merged with the Curayao WTWs where monitoring was conducted only at the effluent of Curayao WTWs;
- Increase in water quality rating in 2011 compared in 2010 may be due to sampling shortfalls observed in San Rafael TP, Manggahan, Jala-jala, and Aranzasu where it is considered significant due to reasons not known or disclosed by Manila Water to MWSS RO. The parameters where shortfalls were observed are the parameters that need to be treated or reduced so that the product water meets PNSDW standard and where improvements were done by Manila Water.

A-5.0 KPI-W5 Water Quality in the Distribution System (Supply Zone)

The indicator intends to provide an overall indication of the quality of water in the distribution as it arrives at the point of delivery to the consumer. The parameter is total coliforms which sampling frequency is based on the number of served population. Usually, the minimum required number of samples to be collected from validated regulatory sampling points (RSPs) is 20 + 1 sample for every 10,000 population or 1 sample for every 5,000 population depending on the number of the served population of each water source. Table W5 below is a summary of the bacteriological tests conducted by Manila Water in 2011.

Table W5. SUMMARY OF COMPLIANCE

SUPPLY ZONE/ DISTRIBUTION SYSTEM	2012	2011	2010	2009	2008
Balara Filters		<95%	<95%	<95%	<95%
San Rafael TP		<95%	<95%	<95%	<95%
Montalban DWs		<95%	<95%	<95%	<95%
Baras WTWs		<95%	<95%	<95%	<95%
Jala-jala TP		<95%	<95%	<95%	<95%
Taytay TP		<95%	<95%	<95%	<95%
OVERALL		<95%		<95 %	<95 %

KPI-W5 Evaluation

Based on Table W5 above, Manila Water consistently surpassed the minimum 95% passing on the bacteriological quality of supplied water in the distribution system. In order to evaluate satisfactory compliance of the service provider with regards to bacteriological, MWSS RO

also needs to look at the sampling frequency, which Manila Water was also able to surpass the minimum 100% PNSDW requirement.

A-6.0 KPI-W6 Sampling

The indicator gives a measure on the achievement of Manila Water to comply with the required sampling frequency for specified parameters at 1) at the treatment plants, 2) at the supply zones or distribution system, and 3) at the service reservoirs. Manila Water set 100% as its target for sampling

Table W6. SUMMARY ON SAMPLING

	Year 2012	Year 2011	Year 2010	Year 2009	Year 2008
Number of treatment Plant/ WTWs		10	12	12	12
- with sampling shortfall		5	0	0	Phase-in
- sampling freq compliance		50 %	100 %	100 %	Phase-in
Number of Supply Zone		7	6	5	5
- with sampling shortfall		0	0	0	Phase-in
- no sampling shortfall		100 %	100 %	100 %	Phase-in
Number of service reservoirs		22	20	18	
- with sampling shortfall		0	1	0	Phase-in
- no sampling shortfall		100%	95 %	100 %	Phase-in
OVERALL PERFORMANCE RATING		83.3%	98.3 %	100 %	Phase-in

KPI-W6 Evaluation

As shown in Table W6, Manila Water at 88.3 % failed to meet its 100% target on sampling due to sampling shortfall observed in 5 out of the 10 treatment plants the company operated in 2011, notwithstanding the numbers shown in Table W6-a below which are significantly more than the required number, Manila Water failed to achieve its target for the Jala-jala TP, because sampling frequency on TDS and hardness were not followed. Jala-jala TP is installed with advance treatment process- the reverse osmosis. There were parameters that were tested more than their required frequency while parameters that need to be monitored more frequent due to problems in elevated levels of manganese and iron in the source groundwater. Thus, MWSS RO considered the shortfall observed in 2011 significant. Refer to Table W6-a for the details.

Unlike in 2010 where sampling shortfall had been considered **not significant** because the shortfall occurred in the San Juan No. 2 reservoir where Manila Water did not conduct testing during the incident of dirty water; cleaning and disinfecting the said reservoir was undertaken

by Manila Water when the shortfall occurred. All other sampling requirements at the treatment plant, supply zone or distribution system were complied such as sampling at regular intervals.

Table W6-a. 2011 SAMPLING

Monitoring points	number	Required number of test	Number of test conducted	Sampling performance,	With sampling shortfall
Treatment plant/ water treatment works	10	14,001	19,828	50%	SRTP: in Jan- 13 events each of 7 check parameters requiring daily testing
					Jala-jala: from July to dec- 12 events for TDS and 3 events for hardness requiring 2/week and 1/week testing, respectively
					Manggahan: in Jan- 2 events each for IC/HPC/Cl/color/Fe/Mn/hardn ess requiring weekly testing
					Manggahan: in Jan- 2 events each for TC, HPC,CI, color,Fe, Mn, hardness requiring for weekly testing
					Manggahan: all in July , color- levent requiring weekly sampling; Fe & Mn: 2 events requiring for weekly testing
					Aranzasu: all in July to Aug: TC & Res Cl- 1 event each requiring weekly; Color- 3 events requiring weekly testing; Fe & Mn- 4 events each requiring weekly testing
					San Jose: Fe & Mn- 2 events each in July requiring weekly testing
Supply zone / distribution system	7	26,831	40,958	> 100%	
Service reservoir	22	7,034	7,212	> 100%	
W6. Performance				83.3%	

SEWERAGE + SANITATION (S1 and S2)

A-7.0 KPI-S1 Sewerage Connections

For KPI-S1, the unit of measure is the number of Domestic Sewer Connections of which:

No. of Domestic Sewer Connections = Res'l + Semi-business + Urban Poor

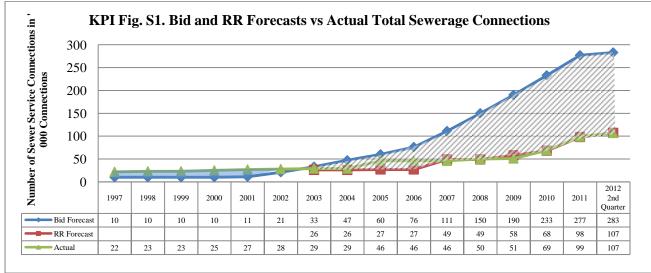
- (Bulk meter = 1 connection as Water Service)
- (From Thames Report)

KPI Table S1a. Annual New Domestic Sewer Connection Targets

Indicator	2007	20	08	20	09	20	10	20	11	2nd Qua	rter 2012
marcator	Base Year	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
S1 (Separate	46 522	12,000	4,100	9,000	177	10,000	18,110	30,700	30,350	7,300	1,568
and Combined Systems)	46,523	49,000	50,623	58,000	50,800	68,000	69,910	98,700	99,260	106,000	100,828

Sources: Manila Water 2008 Business Plan &MWCI KPI+BEM Report Card January to June 2012

2011 RR Target for sewerage connections should only be 98,700 and not 106,000. The corrections was based on Notes: 2011 Sewer Coverage Target (As reflected in Annex 2 of 2008 RR Approved Business Plan) that equivalent households of 98,700 sewerage connections is 144,300

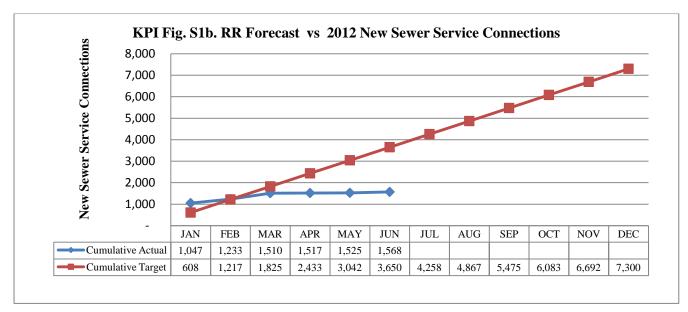


Sources: Manila Water 2008 Business Plan &MWCI KPI+BEM Report Card January to June 2012

Actual Number of Sewer Service Connections exceed of Bid Forecast

Reduction of Sewer Service Targets as per MWSS Board Resolution Board Resolution No. 512-2001 dated October 12, 2001

Tracking of New Sewer Connection Trend Manila Water 1st Quarter 2012



Sources: Manila Water 2008 Business Plan &MWCI KPI+BEM Report Card January to June 2012

KPI S-1 Evaluation

KPI S1 Evaluation

2008-2011

- From January 2008 to December 2011, Manila Water has accumulated a total of **52,737** new sewer service connections. This meets and exceeds the **52,177** KPI-S1 new sewer service connection targets for the second rate rebasing by **560** sewer service connections.
- Majority or 78% of the 52,737 new sewer service connections are under the Combined Sewer Service (CSS). These are located mostly in the cities of Makati, Marikina, Pasig, Quezon City, Taguig and the municipality of Cainta. The City of Taguig has the most number of households being served by the combined system at with 18,790 connections serving 24,364 households.
- The **52,737** new sewer service connections along with the 2007 base year balance of **46,523** brings Manila Water's total number of sewer service connection to **99,260**.

Rebasing Year 2012

- A total of 1,568 new sewer service connections (separate system) were implemented within the 1st through the 2nd Quarter of 2012. Majority of these accomplishments are from the NCR. MWCI was not able to meet the monthly targets from February to June of 2012 see KPI Fig. S1b. RR Forecast vs 2012 New Sewer Service Connections.
- This accomplishment is 21% in compliance with the 7,300 KPI-S1 Target for Rebasing Year 2012. To be able to meet said target, the concessionaire must be able to connect

- **5,791** additional connections within the third to fourth quarter of 2012 or a total of **965** connections per month.
- As of the end of June 2012, Manila Water maintains **100,828** sewer service connections in both separate and combined (CSS) configurations.
- Separate Sewer service pertains to connections within MWCI's central sewerage areas in Makati, Quezon City and Taguig in the NCR and Cainta in Rizal. Sewer Service to areas beyond the aforementioned is made possible through the Combined Sewer Service (CSS). Unlike the separate sewer service connections, the Combined (CSS) utilizes existing storm drains as conveyances for the collection and eventual treatment of wastewater. Note that the Combined Sewer Service is dependent upon the operation and capacities of new sewer treatment plants within the vicinity of the three river systems.

Sewer Service Coverage under the reduced target

- Sewer Service Coverage under the household framework increased by **6%** from 2008 to 2011. With an equivalent sewer service household of **146,237 against 1.10M** domestic households served by water, Manila Water concluded compliance year 2011 with a sewer service coverage of **13.19%** (see Actual Sewer Service Compliance table).
- Against the 2021 target of 15% population coverage (as per reduction of sewer service coverage see Reduction of Sewer Service Targets 2003-2011), Manila water's running total of 99,260 sewer service connections translates to an estimated 0.8M (at 8.1 persons per service connection as per the PAWS survey). The 08.M sewer service population garners a service coverage of 12%.

Sewer Service Coverage 2012

- In terms of service coverage, as per Manila Water's 2008 Business Plan, Sewer Service
 Coverage is represented by the ratio of households served by sewer and households
 served by water. Counterpart household information regarding sewer and water service
 have been provided by Manila Water based on the tabulations by their meter consumption
 analysts.
- The 2012 2nd Quarter total of **100,828** sewer connections serve an equivalent of **148,496** households (as per MWCI Jan-June 2012 KPI Report). This represents sewer service coverage of **13** % of **1,135,352** water served households.
- The 13% sewer service coverage for the 2nd Quarter of rebasing year 2012 also represents a growth of 5 % from the 8% 2007 base year sewer service coverage.

Sewer Coverage	2007	2008	2009	2010	2011	2012 2nd Quarter
New Sewer Service Connections		4,100	177	18,110	30,350	1,568
Cumulative Sewer Service Connections	46,523	50,623	50,800	68,910	99,260	100,828
Equivalent Households Served (Cumulative)	68,043	74,579	74,768	102,835	146,237	148,496
Domestic Households served by Water Service Connections (Cumulative)	875,619	921,85 7	975,653	1,064,16 3	1,109,45 7	1,135,35 2
Sewer Service Coverage	8%	8%	8%	10%	13%	13%

A-8.0 KPI-S2 Sanitation

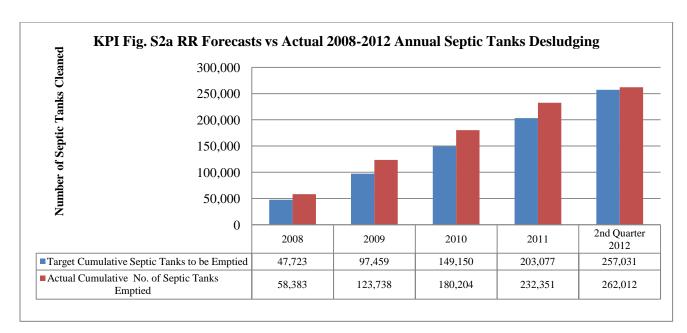
For KPI-S1, the unit of measure is the number of households desludged:

KPI Table S1. Annual Septic Tanks Desludging

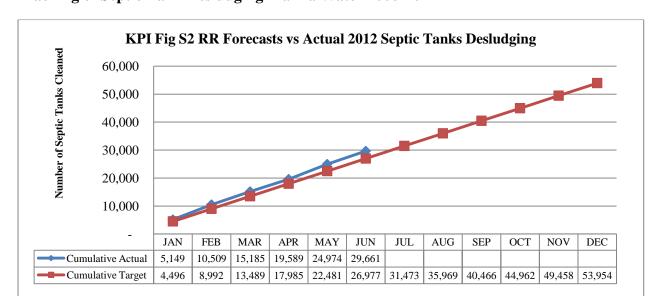
	0 0				
	2008	2009	2010	2011	2nd Quarter 2012
No. of Septic Tanks to be Emptied	50,235	52,353	54,412	56,765	56,794
Target % Requirement	95%	95%	95%	95%	95%
Target No. of Septic Tanks to be Emptied	47,723	49,735	51,691	53,927	53,954
Target Cumulative Septic Tanks to be Emptied	47,723	97,459	149,150	203,077	257,031
Actual No. of Septic Tanks Emptied	58,383	65,355	56,466	52,147	29,661
Actual Cumulative No. of Septic Tanks Emptied	58,383	123,738	180,204	232,351	262,012
% Accomplishment to Date to 2011 Target	29%	61%	89%	114%	

Note: Data taken from the approved KPIs+BEMs Report

Beginning balance for Year 2007 is 31,409 Septic Tanks Desludged



Sources: Manila Water 2008 Business Plan & MWCI KPI+BEM Report Card January 2008 to June 2012



Tracking of Septic Tank Desludging Manila Water 2008-2012

Sources: Manila Water 2008 Business Plan & MWCI KPI+BEM Report Card January to June 2012

KPI -S2 Evaluation 2007-2011

- KPI Table S2. Annual Septic Tanks Desludging shows Manila Water's compliance with the schedule of sanitation services from 2008 to 2011. The concessionaire offers desludging services all year round through schedules per city/municipality and by individual requests from water service subscribers.
- A total of **203,077** or 95% of **231,765** septic tanks was scheduled to be desludged from 2008 to 2011. In pursuit of this, annual targets for septic tank cleaning have been laid out from 2008 to 2011 (see KPI Table S2. Annual Septic Tanks Desludging). These annual targets represent the totality of septic tanks that the concessionaire has committed to clean through its **year-round sanitation service program**.
- From January 2008 to December 2011, Manila Water desludged a total of **232,351** septic tanks exceeding the 2011 S2 Compliance Year Target by **14%**
- The **232,351** number of septic tanks desludged has an equivalent households served of **900,019** (as reported by Manila Water). This meets and exceeds the 2008 Business Plan Target of 814,700 Households by 10% or **85,319** septic tanks cleaned. The **85,319** septic tanks cleaned represent requests for sanitation services beyond that of the scheduled number from 2008 to 2011.

KPI -S2 Evaluation 2ndQuarter 2012

Rebasing year 2012, represents the first in a five year cycle concluding on December 2016 succeeding annual targets shall be determined during the 3rd rate rebasing of 2012.
 It is expected that the ensuing target number of septic tanks to be desludged will also expand based on the increase in new water service connections within the last five years.

- At an average of **4,944** septic tanks per month, Manila Water has cleaned a total of **29,661** tanks within the first through the second quarter of Rebasing Year 2012.
- Compared to their performance in 2011, the concessionaire's on-going sanitation program has managed to provide service to nearly all of the cities and municipalities under the east zone except for Jala-jala and Tanay. MWCI reports an equivalent service household of 116,639 to their first quarter S2 accomplishment.
- The **29,661** septic tanks cleaned in the from the 1st through the 2nd Quarter of 2012 is **55%** in compliance with the **53,954 KPI-S2 Target**. To be able to meet said target, MWCI must be able to clean **24,293** septic tanks within the 3rd to 4th quarter of 2012.
- Within the context of the 1.135 M households served by domestic water service connections, sanitation service coverage as of the end of June 2012 is at 5%.

Sanitation Service Coverage

Sanitation	2007	2008	2009	2010	2011	2nd Quarter 2012
Septic Tanks Desludged (KPI-S2)	31,409	89,792	155,147	211,613	263,760	29,661
Cumulative Septic Tanks Desludged	31,409	121,201	276,348	487,961	751,721	
Equivalent Households Served (Cumulative)	105,109	293,375	584,844	826,870	1,004,935	53,954
Domestic Households served by Water Service Connections (Cumulative)	875,619	921,857	975,653	1,064,163	1,109,457	1,135,352
Sanitation Service Coverage	12%	32%	60%	78%	91%	5%

A-9.0 KPI-S3 Wastewater Effluent Standards

The indicator measures the effectiveness of the sewage treatment function as carried out on the effluent from orthodox sewerage systems and community sewerage systems. As set in the KPI Guide Doc, each Regulatory sample is analyzed for five parameters, namely, biochemical oxygen demand (BOD), chemical oxygen demand (COD), total coliforms (TC), total suspended solids (TSS) and oil & grease (O&G).

Performance on Wastewater Effluent Standards is determined at the end of each year in each sewage treatment plant (STP) the Manila Water operates. Performance is evaluated based on sampling frequency requirement and effluent standards, as follows -

- 1st Requirement on sampling frequency has to be complied. Sampling frequency is based on average discharge volume
- 2nd Effluent quality shall be evaluated using the standards set in the KPI Guide Doc on Wastewater Monitoring as the sum of the corresponding full weight of each of the five (5) parameters mentioned in the above. Test results on all samples collected separately or jointly by MWCI and MWSS RO are used in the evaluation. All samples refer to both the test results from the initial and repeat sampling conducted separately or jointly collected by the Regulator and Manila Water. Provided, the required number of samples has been complied, only STP garnering percentile rating for the year of not less than 95% shall be considered

with Satisfactory Performance. However, evaluation will be based on adjusted number of samples when a written request for NO SAMPLING due to justifiable cause has been received by MWSS RO at least a day before the scheduled date of sampling at a particular STP. Table S6 found below summarizes the performance of Manila Water.

Table S6 found below summarizes the performance of Manila Water in 2008 to 2011.

Table S6. Wastewater Quality

	Year 2012	Year 2011	Year 2010	Year 2009	Year 2008
Number of sewage treatment plants		36	34	30	30
- with sampling shortfall		0	0	0	0
- with no sampling shortfall		100%	100%	100 %	100%
- with < 95 % compliance		0	0	11	6
- with compliance \geq 95 %		100%	100%	63%	80% *
Performance		100 %	100 %	63% (failed)	80% (failed)

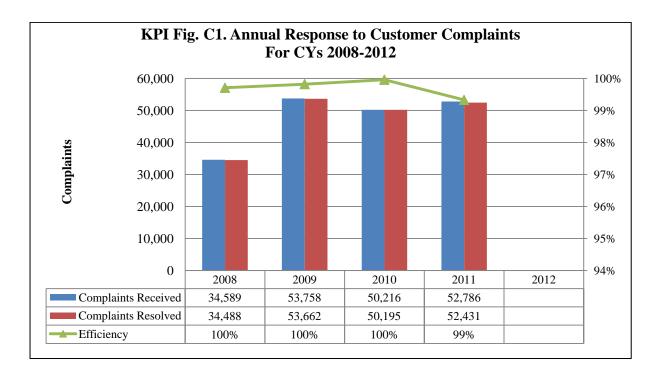
^{* -} In 2008, compliance was determined based on the number of samples that failed in any of the 5 KPI parameters. Failure in any of the 5 parameters in any sample had been considered failure to meet target.

KPI-S3 Evaluation

Manila Water exceeded the minimum 95% performance rating on Wastewater Effluent Standards as shown in Table S6. All the thirty six (36) STPs operated by Manila Water in 2011 met the minimum Performance rate of 95% set by the MWSS RO in the KPI Guide Doc on Wastewater Monitoring. It is noted also that sampling requirement also set in the same Document was also complied in each of the 36 STPs during the year in review.

CUSTOMER SERVICE (C)

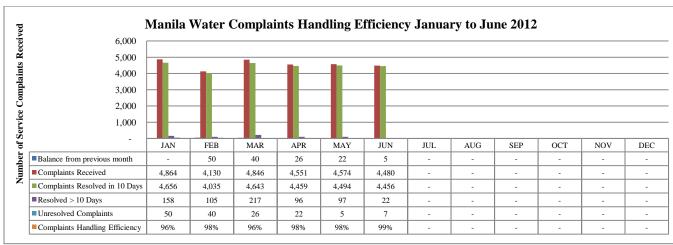
A-10.0 KPI-C1 Response to Customer Service Complaints



KPI Table C1. Response to Customer Service Complaints

Number of Service Complaints 2012	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Balance from previous month	-	50	40	26	22	5	-	1	-	1	-	-
Complaints Received	4,864	4,130	4,846	4,551	4,574	4,480	-	-	-	-	-	-
Complaints Resolved in 10 Days	4,656	4,035	4,643	4,459	4,494	4,456	-	-	-	-	-	-
Resolved > 10 Days	158	105	217	96	97	22	-	-	-	-	-	-
Unresolved Complaints	50	40	26	22	5	7	-	-	-	-	-	-
Complaints Handling Efficiency	96%	98%	96%	98%	98%	99%	-	-	-	-	-	-

Sources: Manila Water 2008 Business Plan &MWCI KPI+BEM Report Card: January to June 2012



Sources: Manila Water 2008 Business Plan &MWCI KPI+BEM Report Card January to March 2012

KPI -C1 Evaluation

KPI C1 is the indicator which denotes complaints handling efficiency, the parameters for C1 are the number of complaints received per month and the number of complaints resolved within 10 days. Complaints handling efficiency is the ratio of complaints resolved within 10 days with the number of complaints received in a month through the concessionaire's Customer Service Information System (CSIS). As per the 2008 Business Plan, the standard for complaints handling efficiency rate is 95% of all service complaints received per month.

From the 1st through the 2nd Quarter of 2012, Manila Water received a total of 27,445 service complaints out of this number 26,743 or 97% have been resolved in less than 10 days. Consequently, complaints handling efficiency rate from January to June was above the 95% standard.

The second quarter of 2012 ends with five service complaints pending resolution.

A-11.0 KPI-C2 Response to Billing Complaints

Received by the Concessionaires (Data from the KPI Report)

The term 'billing complaints' refers to any written, telephone or direct contact with customers about billing issues.

The speed on which the Concessionaires respond to billing complaints serves as the basis of the Regulatory Office in evaluating the performance of the Concessionaires on this respect.

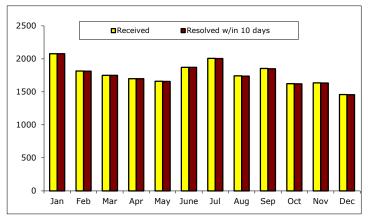
Table below shows the number of billing including meter related complaints received and resolved by MWCI from January to December 2011.

							2011						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total
Balance													
(Previous	1	1	_	_	2	_	_	_	_	_	_	_	1ª
Month)	1												1
Received (This													
Month)	1615	1453	1515	1573	2140	2323	2065	1988	1997	1924	2044	2337	22974
Total	1616	1454	1515	1573	2142	2323	2065	1988	1997	1924	2044	2337	22975
Resolved													
Within 10 days	1615	1452	1512	1563	2140	2318	2065	1986	1993	1906	1963	2292	22805
Beyond 10 Days	ı	2	3	8	2	5	1	2	4	18	81	45	170
% Resolved													
w/in 10 Days	99.9	99.9	99.9%	99.4	99.9	99.8	100.0	99.8	99.8	99.1	96.0	98.1	99.3
Balance (This Month)	1	-	-	2	_	_	-	_	_	-	-	_	

a - Balance from December 2010

MWCI received a total of 22,974 billing and meter related complaints in 2011 of which 22,805 or 99% were resolved within the 10 days standard time. This exceeded the 90% target.

Received by the MWSS Regulatory Office (Data from the CSR Database)



Below are data on billing and meter related complaints received in 2011 by the MWSS Regulatory Office (MWSS-RO) thru the Customer Service Regulation (CSR). Received complaints were endorsed to the concerned Concessionaires for appropriate action as part of the Standard Operating Policy (SOP). These include (1) application of average billing (2) rate classification (3) abrupt increase in consumption / excessive billing and (4) billing computation procedure, whereas meter related complaints include stolen meters along with defective meters, which consequently resulted also to billing complaints.

• CSR endorsed a total of 22 billing and meter related complaints received from MWCI customers in 2011. Out of this number, 21 complaints or 95% were resolved with an average resolution time (date resolved – date endorsed) of 22 days, far beyond the 10 days standard time required by the RO. This was also not consistent with MWCI's KPI report that majority (99%) of the received complaints were resolved within 10 days as shown in Table A-1 above.

							2011						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total
Balance													
(Previous	-	-	2	-	1	1	-	-	1	1	3	1	-
Month)													
Received (This													
Month)	-	3	3	1	-	3	1	1	2	5	2	1	22
Total		3	5	1	1	4	1	1	3	6	5	2	22
Resolved		1	5	-	-	4	1	-	3	3	4	1	21
% Resolved	-	33	100	-	-	100	100	-	67	50	80	50	95
Ave. Res. Time													
(in Days)	-	2	25	-	-	26	10	-	30	13	27	7	22
Unresolved /													
Active	-	2	-	1	1	-	-	1	1	3	1	1	1
Ave. Age of													
Unresolved	-	19	-	18	49	-	-	16	2	15	6	37	37

- Based on the agreement with the Concessionaires, complaints resolved within the 10 days standard time, but which date of resolution fell outside the reference period were also included in the above data. This is to capture all complaints received during the reference period which were resolved within 10 days irrespective of the date of resolution.
- In order not to drastically affect the average resolution time of normal / regular complaints, above data from both Concessionaires exclude complaints concerning request for individual connections by Subdivisions and Peoples Organization (POs) and other policy related issues such as (1) request for the downgrading of rate classification of churches and housing quarters in military

bases (2) refund of overpayment resulting from the delay in the implementation of IRR on the Billing Scheme for High-rise and other Multiple Dwellings and (3) reconnection fee for permanently disconnected water connection received by CSR since these require much longer resolution time. These complaints comprised 14% of the total billing complaints received by CSR from MWCI customers in 2011.

A-12.0 KPI-C3 Response to Request for New Service Connections

This indicator measures the concessionaires' compliance with respect to response time to customers' request for new service connection from the date of application up to the issuance of notification to the customer of the proposed connection charge as provided under Article 9.5.1 of the Concession Agreement (CA).

• MWCI received a total of 50,068 applications for new water service connection in 2011 of which 100% were responded and communicated within the 5 days standard time.

							2010						
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Balance (Previous Month)													-
New application received	4042	4343	3841	3328	4327	3115	3529	3768	4680	4580	3084	7431	50068
Total													
New application responded and communicated w/in 5 days	4042	4343	3841	3328	4327	3115	3529	3768	4680	4580	3084	7431	50068
% Responded	100	100	100	100	100	100	100	100	100	100	100	100	100.0
Balance (This Month)				-						-			

A-13.0 KPI-C4 Installation of New Water Service Connections

Article 9.5.1 of the CA further provides that such request for new connection shall be carried out by the concessionaires as promptly as maybe practicable following the customer's written acceptance of the proposed connection charge. Hence, this indicator measures the concessionaires' compliance with respect to waiting time for the installation of new service connection from the date of completion / submission of all pertinent documents and payment of connection fees by the customer.

							2011						
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Balance (Previous Month)	5817	6521	5902	5594	5113	5974	6417	6507	7554	7041	7520	7202	5817 ^b
New application responded and communicated in C3	4042	4343	3841	3328	4327	3115	3529	3768	4680	4580	3084	7431	50068
Total	9859	10864	9743	8922	9440	9089	9946	10275	12234	11621	10604	14633	55885
New connection installed w/in 7 days	3104	3357	3340	2894	3344	2564	2489	2700	5009	3725	3134	2442	38102
New connection installed beyond 7 days	60	59	53	ı	17	18	14	4	14	33	11	9	292

% installed within 7 days to total installed as reported in W1	98.1	98.3	98.4	100.0	99.5	99.3	99.4	99.9	99.7	99.1	99.7	99.6	99.2
Total Installed (from W1)	6521	5902	5594	5113	5974	6417	6507	7554	7041	7520	7202	11846	11846
Balance (This Month)	5817	6521	5902	5594	5113	5974	6417	6507	7554	7041	7520	7202	5817 ^b

b - Balance from December 2010

W1 a							2011						
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Water Service Connection Installed	3164	3416	3393	2894	3361	2582	2503	2704	5023	3758	3145	2451	38394

a- Excluding Subdivisions and POs converted from bulk to individual connection

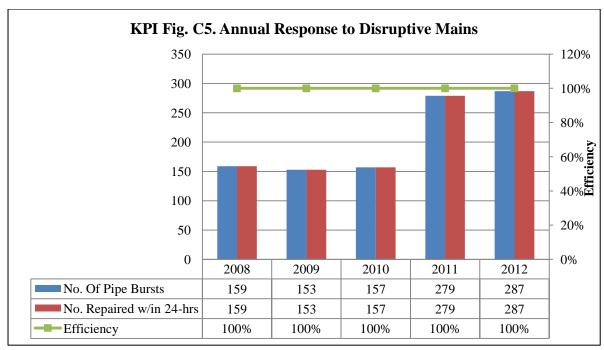
- Out of the received applications in 2011, MWCI installed a total of 38,102 new water service connections within the required time of 7 days upon payment of connection fees and completion / submission of pertinent documents. This accounted for 99% of the 38,394 total installed water connections as reported in W1 Water Service connection, hence, surpassing the 95% target. These data however, exclude subdivisions and POs which were converted from bulk to individual connections as this process requires much longer time since certain issues need to be addressed first prior to the said conversion.
- The balance of 11,846 processed applications have yet to be installed as of the end of the
 period upon customers' completion of the necessary requirements such as excavation
 permits, payments, etc. May we emphasize that total workload to be reported under C4
 must include only processed applications with complete requirements and paid
 connection fees.
- Note that result of the 2011 PAWS survey disclosed that the average waiting time for the installation of a new connection after payment of required fees and completion / submission of all necessary documents is 23.55 days for MWCI (Refer to Section 2.2.1.4 of the PAWS Year V Report). This is much longer than the 7 days standard time and inconsistent with the KPI reports of both concessionaires in 2011 that majority of installed connections were done within 7 days. Further, complaints on the delay in the installation of new service connection accounts for 6,853 or 13% of the 52,786 total service complaints received by MWCI in 2011 (Refer to Annex C1-E of the KPI Report).

A-14.0 KPI-C5 Response to Disruptive Mains Failure

For KPI-C5, the unit of measure is % Repaired within 24 hours of reporting:

$$\% \ Repaired = \frac{No. \ of \ Repaired \ Disruptive \ Mains*Failure}{No. \ of \ Reported \ Disruptive \ Mains*Failure} \ x \ 100$$

Note: Mains greater than 300mm are excluded in this KPI.



Note: 2012 figure is as of June 2012

KPI Table C5b. 2012 Response to Disruptive Mains

		2012												
	J	F	M	A	M	J	J	A	S	0	N	D	YTD	
Actual no. of pipe bursts	68	45	43	39	45	47								
Actual no. of repaired within 24 hours	68	45	43	39	45	47								
% Repaired within 24 hours	100 %	100 %	100 %	100 %	100 %	100 %							100%	

KPI-C5 Observation

KPI Table C5a shows the actual number of 159, 153 and 157 pipe bursts (with diameter of 300 mm and below) within the East Concession Area for CYs 2008, 2009 and 2010, respectively. This translates to an average of 13 pipe bursts per month in the East Concession Area for CYs 2008 through 2010. However, in 2011, the actual number of pipe bursts was recorded at 279 or 23 pipe bursts per month. MWCI shall explain to RO such circumstance as it is expected that as the Concessionaire exerts effort to lower its NRW, the incidence of disruptive mains should have also been going down.

Moreover, the report for KPI-C5 could have been more appreciated had the MWCI provided the list of the pipe bursts with location, size and type of material since 2009 in order to determine the bursting frequency.

As of EO June 2012, the actual number pipe bursts was recorded at 287 or an average of 48 bursts per month. It is only halfway of 2012, however, the aforementioned number had already exceeded the incidence of burstings in 2011 and doubled the figure for 2008 to 2010.

B. BUSINESS EFFICIENCY MEASURES

REVENUE AND COLLECTION/INCOME (IN)

B-1.0 BEM-IN1 Billed Volume

Formula:

Monthly Actual as % Forecast

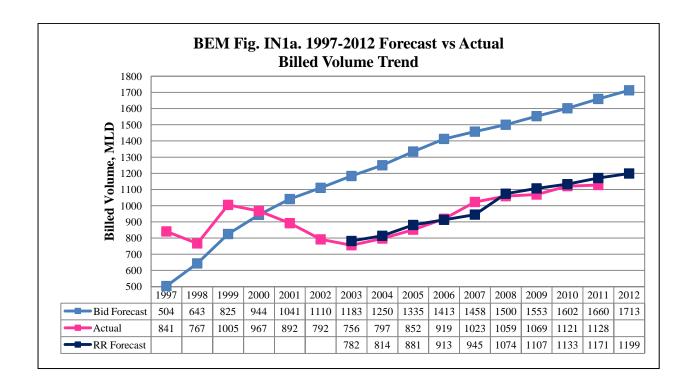
$$= \frac{Actual \ Billed \ Volume}{Forecast \ Billed \ Volume} x100$$

Cumulative Actual as % Forecast

$$= \frac{Actual\ Cummulative\ Billed\ Volume}{Forecast\ Cummulative\ Billed\ Volume} x100$$

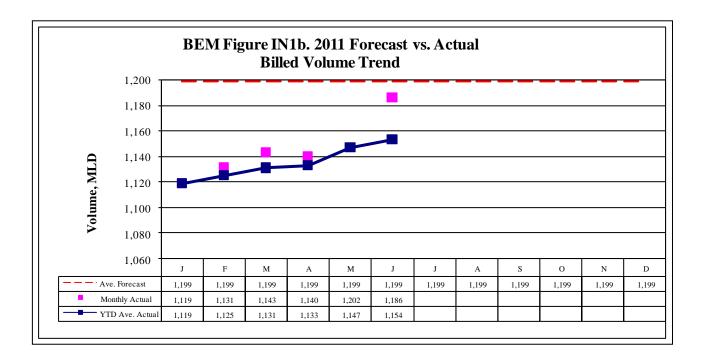
BEM Table IN1a. Annual Average Billed Volume Forecast* (MLD)

20	008	20	09	20	10	20	11	20	12
Target	Actual								
1074	1059	1107	1069	1133	1121	1171	1128	1199	



BEM Table IN1b. 2012 Monthly Billed Volume Forecast vs Actual (MLD)

	J	F	M	A	M	J	J	A	S	О	N	D	AYTD
Forecast	1,199	1,199	1,199	1,199	1,199	1,199	1,199	1,199	1,199	1,199	1,199	1,199	1,199
Actual	1,119	1,131	1,143	1,140	1,202	1,186							
Monthly Actual as % Forecast	93.3%	94.3%	95.3%	95.1%	100.3	98.9%							
Cumulative Actual as % Forecast	93.3%	93.8%	94.3%	94.5%	95.7%	96.2%							



BEM-IN1 Evaluation

The billed volume, reported in million cubic meters (MCM) and in million liters per day (MLD), indicates the volume of water sold by the company for the period. As per its approved Business Plan, MWCI's average billed volume target for the CY 2011 is 1,199 MLD.

As of EO June 2012, the year-to-date (YTD) average actual billed volume registered at 1,154 MLD which is still 46 MLD lower than the target 2012 average billed volume of 1,199 MLD. In terms of total billed volume in million cubic meters (MCM), the total billed volume of the East Zone as of EO June 2012 was registered at 211 MCM. This is 227 MCM lower or around 48% of the total billed volume target for the year under review of 438 MCM.

B-2.0 BEM-IN2 Revenue Collection Rate

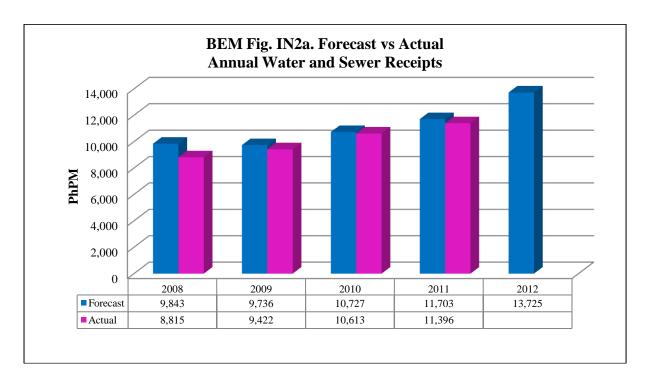
Formula:

$$\% \ Collection \ Efficiency = \frac{Collection \ on Current \ Month \ Billings}{Current \ Month \ Billings} x 100$$

BEM Table IN2a. Annual Water and Sewer Receipts Forecast

20	08	20	09	20	10	20	11	20	12
Target Actual		Target Actual		Target Actual		Target	Actual	Target	Actual
9,843	8,815	9,736	9,422	10,727	10,613	11,703	11,396	13,725	

^{**}CY 2010 based on MWCI CA Renewal/Extension of Final Business Plan in Million Pesos adjusted with "C" factor



^{**} CY 2010 based on MWCI CA Renewal/Extension of Final Business Plan in Million Pesos

The CY 2012 forecast of P 11,336 million as stated in the CA Renewal/Extension of MWCI Business Plan was adjusted to reflect the approved "C" in the basic water rate across the board, resulting to Php 13,725 million business plan receipts for CY 2012.

As of December 2011, submitted audited financial statements indicated cash flows from operating activities – water of Php 11.396 million, which relates to 97.4% of the adjusted forecasted receipts for the year 2011.

On the other hand, as of June 2012, submitted unaudited financial statements indicated cash flow from operating activities – water of Php 6.60 million, which already relates to 48% of the adjusted forecasted receipt for year 2012.

BEM Table IN2c. 2012 Monthly Billing vs. Collection

		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Current Collection (In P Million)	P	1,098	1,234	1,261	1,208	1,315	1,316						
Current Billing (In P Million)	P	1,130	1,256	1,196	1,260	1,305	1,308						
Collection Efficiency (Actual)		97.15%	98.24%	105.42 %	95.87%	100.82 %	100.62 %						
Collection Efficiency (Forecast)		95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%
Year to Date (Actual)		97.15%	97.73%	100.3%	99.14%	99.50%	99.70%						

The Approved CA Renewal/Extension MWCI Financial Annex Assumptions table shows a uniform 5% Bad Debts allowance on Revenues from 2008 to 2022 which means that the target collection efficiency is a uniform 95% throughout the concession period.

BEM-IN2 Evaluation

MWCI continues to perform well, in terms of their collection. Using the year-to-date efficiency rate, for the CY 2012, collection efficiency rate was pegged at more or less 100%. This indicates that the company is less likely to experience short-term liquidity problems and provide opportunities for short-term investments.

It bears to stress that the original formula of considering collections on current billings is amended to consider collections on current billings and arrearages (previous billings). The more important indicator is the year-to-date efficiency rate as it better reflects performance with timing difference considered.

OPERATIONAL EXPENDITURES (OP)

B-3.0 BEM-OP1 Labor

Formula:

Monthly Actual as % Forecast

$$= \frac{Actual\ Monthly\ Personnel\ Cost}{Forecast\ Monthly\ Personnel\ Cost}\ x\ 100$$

Cumulative Actual as % Forecast

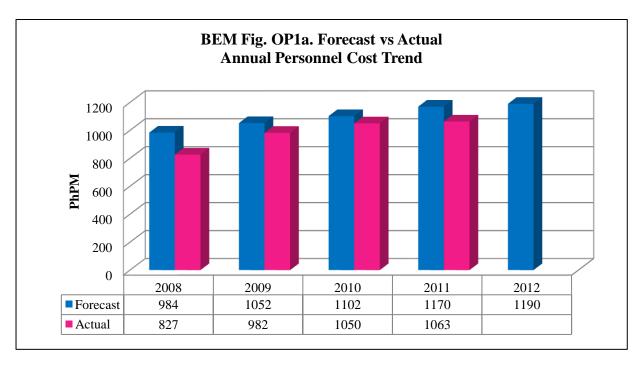
$$= \frac{Actual\ Cumulative\ Personnel\ Cost}{Forecast\ Cumulative\ Personnel\ Cost}\ x\ 100$$

BEM Table OP1a. Annual Personnel Cost Forecast*

20	08	20	09	20	10	20	11	20	12
Target	Actual								
984	827.3	1,052	982	1,102	1,050	1,170	1,063	1,190	

^{**}CY 2008-2009 based on December 2007 MWCI Final Business Plan in Million Pesos, inflation adjusted

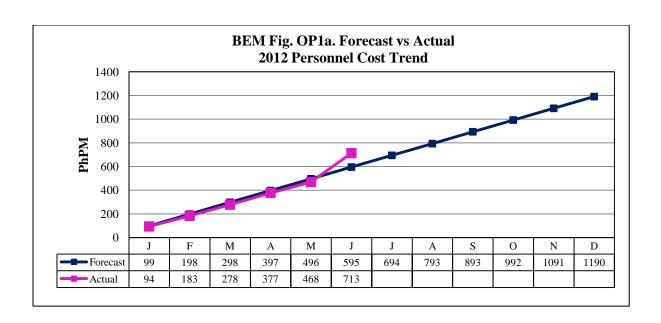
^{**}CY 2010 and 2011 based on MWCI CA Renewal/Extension of Final Business Plan



The personnel cost forecast of P1,052 million stated in the CA Renewal/Extension of MWCI Business Plan adjusted to reflect the inflation rate, which resulted to P1,190 million personnel cost forecast for CY 2012. Inflation adjusted personnel cost forecast was divided by 12 months, which resulted to a monthly personnel cost of Php 99.18 million.

BEM Table OP1b. Labor Forecast vs Actual

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Headcount (Forecast)		1,732	1,732	1,732	1,732	1,732	1,732	1,732	1,732	1,732	1,732	1,732	1,732
Headcount (Actual)		1,565	1,587	1,604	1,608	1,629	1,635						
Personnel Cost (Forecast) (in P Million)	P	99.18	99.18	99.18	99.18	99.18	99.18	99.18	99.18	99.18	99.18	99.18	99.18
Personnel Cost (Actual) (in P Million)	Р	94	89	95	99	91	244						
Monthly Actual as % of Forecast		94.78%	89.73%	95.78%	99.82%	91.75%	246.01%						
Cum. Actual as % of Forecast		94.78%	92.25%	93.43%	95.03%	94.37%	119.65%						
Personnel Cost / Head (Forecast)	P	57,264	57,264	57,264	57,264	57,264	57,264	57,264	57,264	57,264	57,264	57,264	57,264
Personnel Cost / Head (Actual)	P	60,063	56,081	59,227	61,567	55,862	149,235						



BEM-OP1 Evaluation

As of June 2012, the actual personnel headcount is lower than the forecast headcount. However, personnel cost have a staggering increase from P91M in May 2012 to P244M in June 2012. Actual cost per personnel as of June 2012 is P149, 235. As per Manila Water's report to SEC, this attributed to the accrual of expenses for the organizational restructuring program to be implemented in the 3rd quarter of 2012.

The cumulative actual personnel cost as of June 2012 is P713M. This is higher than the targeted cumulative monthly personnel cost of P595M. However, actual amounts are still subject to reconciliation with the information that will be presented in the 2012 annual audited financial reports.

MWCI registered a 1,635 headcount with 880 thousand water service connections, as of June 2012. This resulted at a productivity ratio of 1.86 employees per 1,000 water service connections.

MWCI shall explain in writing the reason/s for the significant increase in labor cost.

Starting CY 2010, the productivity ratio was computed based on water service connection rather than household connection.

B-4.0 BEM-OP2 Power

Formula:

Monthly Actual as % Forecast

$$= \frac{Actual\ Monthly\ Power\ Cost}{Forecast\ Monthly\ Power\ Cost}\ x\ 100$$

Cumulative Actual as % Forecast

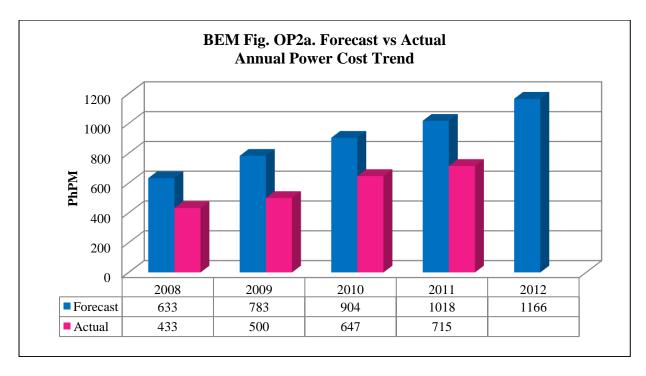
 $= \frac{Actual\ Cumulative\ Power\ Cost}{Forecast\ Cumulative\ Power\ Cost}\ x\ 100$

BEM Table OP2a. Annual Power Cost Forecast*

20	008	20	09	20	10	20	11	20	12
Target	Target Actual		Actual	Target	Actual	Target	Actual	Target	Actual
633	433	783	500	904	647	1,018	715	1166	

**CY 2008-2009 based on December 2007 MWCI Final Business Plan in Million Pesos, inflation adjusted

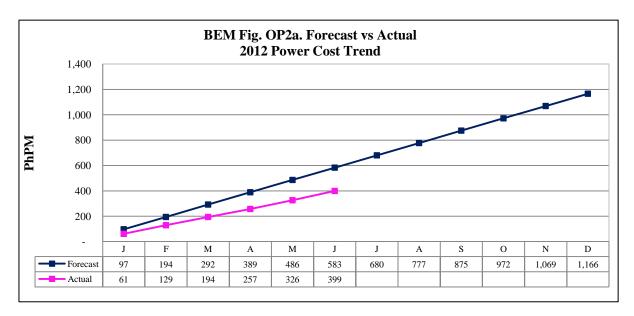
^{**}CY 2010 and 2011 based on MWCI CA Renewal/Extension of Final Business Plan



Power cost forecast of P1,031 million stated in the CA Renewal/Extension of MWCI Business Plan was adjusted to reflect the inflation rate which resulted to P1,166 million power cost forecast for CY 2012. Inflation adjusted power cost forecast was divided by 12 months, which resulted to a monthly cost of Php 97 million.

BEM Table OP2b. 2012 Monthly Power Cost Forecast vs Actual

		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Power Cost (Forecast)(In P M)	Р	97	97	97	97	97	97	97	97	97	97	97	97
Power Cost (Actual) (In P M)	Р	61	68	66	63	69	73						
Power Cost (Cumulative Forecast) (In P M)	Р	97	194	292	389	486	583	679	776	873	970	1067	1164
Power Cost (Cumulative Actual) (In P M)	Р	61	129	194	257	326	499						
Monthly Actual as % of Forecast		63%	70%	68%	65%	71%	72%						
Cum. Actual as % of Forecast		63%	66%	67%	66%	67%	68%						



BEM-OP2 Observation

During CY 2012, MWCI have consumed a higher monthly kilowatt hour usage compared to the forecasted amount. MWCI forecasted its kwh usage at 71 million, which average at 5.92 million per month. As of EO December 2011, cumulative actual power consumption was pegged at 89.40 million kwh costing P714.61 million. Whereas, for the month of June 2012, actual kWh usage reached 8.24, which is 4% higher than the average monthly forecasted kwh.

However, despite higher actual kwh usage, MWCI's power cost is lower. The aggregate actual power cost as of December 2011 is P715 million which is only 70% of the inflation adjusted targeted forecast of P1,018 million. On the other hand, as per June 2012 quarterly unaudited financial statement, the cash flow re: power, light, water amounts to Php 620 million which is 53% of the targeted power expenditure for CY 2012.

Nevertheless, actual amounts are still subject to reconciliation with the information presented in the 2011 annual audited financial reports.

MWCI shall explain in writing the reason/s for the significant savings in power cost.

B-5.0 BEM-OP3 Total Controllable OPEX

Formula:

Monthly Actual as % Forecast

$$= \frac{Actual\ Monthly\ Total\ Other\ Controllable\ Operating\ Expenses}{Forecast\ Monthly\ Total\ Other\ Controllable\ Operating\ Expenses}\ x\ 100$$

Cumulative Actual as % Forecast

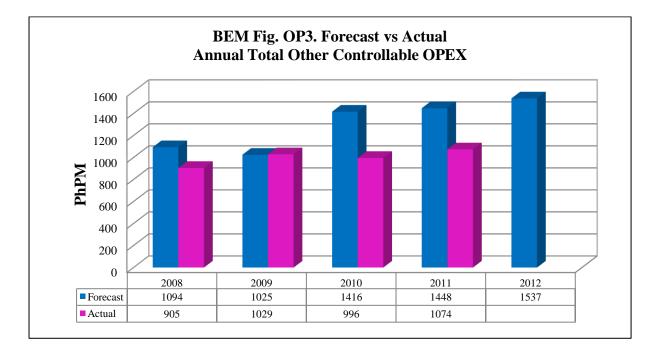
$$= \frac{Actual\ Cumulative\ Total\ Other\ Controllable\ Operating\ Expenses}{Forecast\ Cumulative\ Total\ Other\ Controllable\ Operating\ Expenses}\ x\ 100$$

BEM Table OP3a. Annual Total Other Controllable Operating Expense (Cash Items exc. Interest Expense) Forecast*

20	008	2009		20	10	20	11	20	12
Target	Target Actual		Actual	Target Actual		Target	Actual	Target	Actual
1,094	905	1,025	1,029	1,416	996	1,448	1,074	1,537	

^{**}CY 2008-2009 based on December 2007 MWCI Final Business Plan in Million Pesos, inflation adjusted

^{**}CY 2010 and 2011 based on MWCI CA Renewal/Extension of Final Business Plan

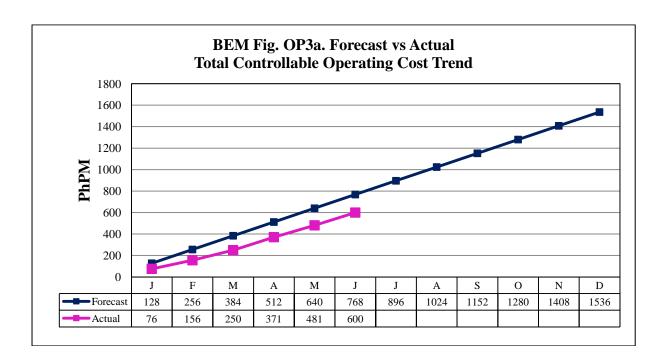


Total Controllable Operating Expense Forecast was derived by deducting uncontrollable cost (i.e. regulatory cost and taxes and licenses), labor and power cost which are analyze separately, Corporate Income taxes and non cash expenses.

Total Controllable Operating Expenses forecast of P1, 358 million net of taxes stated in the CA Renewal/Extension Business Plan of MWCI was adjusted to reflect the inflation adjusted total controllable cost of P1, 537 million.

BEM Table OP3b. Controllable Operating Expense Forecast vs Actual

		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Total Controllable Opex (Forecast)(In P M)	P	128	128	128	128	128	128	128	128	128	128	128	128
Total Controllable Opex (Actual)(In P M)	P	76	80	94	121	110	119						
Cumulative Controllable Opex (Actual)(In P M)		76	156	250	371	481	600						
Cumulative Controllable Opex (Forecast) (In P M)		128	256	384	512	640	768	896	1,024	1,152	1,280	1,408	1,536
Monthly Actual as % of Forecast		59%	63%	73%	95%	86%	94%						
Cum. Actual as % of Forecast		59%	61%	65%	72.5%	75.2%	78.3%						



BEM-OP3 Evaluation

Actual controllable operating cost incurred as of June 2012 is P600 million, which is 26% greater than the adjusted cumulative monthly forecast of P768 million. Monthly controllable operating expense forecast was derived by dividing the inflation adjusted annual amount of P 1,537 million for CY 2012 by 12 months which resulted to P128 million per month.

However, these amounts are still subject to reconciliation with the information presented in the 2011 annual audited financial reports.

CAPITAL EXPENDITURES (CA)

B-6.0 BEM-CA1 Total Capital Expenditure

Formula:

Monthly Actual as % Forecast

$$= \frac{Actual\ Monthly\ Total\ Capital\ Expenses}{Forecast\ Monthly\ Total\ Capital\ Expenses}\ x\ 100$$

Cumulative Actual as % Forecast

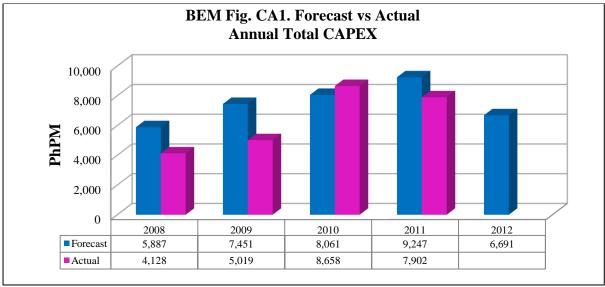
$$= \frac{Actual \ Cumulative \ Total \ Capital \ Expenses}{Forecast \ Cumulative \ Total \ Expenses} \ x \ 100$$

BEM Table CA1a. Annual Total Concessionaire Capital Expenditure Forecast*

20	08	20	09	20	10	20	11	20	12
Target	Target Actual		Target Actual		Target Actual		Actual	Target	Actual
5,887	4,128	7,451	5,019	8,061	8,658	9,247	7,902	6,691	

^{**}CY 2008-2009 based on December 2007 MWCI Final Business Plan in Million Pesos, inflation adjusted

^{**}CY 2010 and 2011 based on MWCI CA Renewal/Extension of Final Business Plan



^{*}CY 2008-2009 based on December 2007 MWCI Final Business Plan in Million Pesos

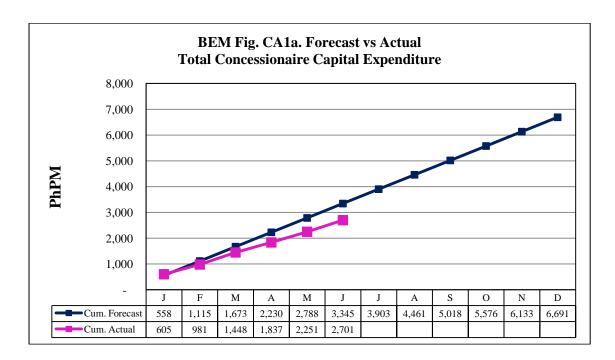
^{**}CY 2010-2012 based on Approved MWCI CA Renewal/Extension

BEM Table CA1b. Monthly CAPEX Forecast vs. Actual

		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Total Capex (Forecast) (In P M)	P	558	558	558	558	558	558	558	558	558	558	558	558
Total Capex (Actual) (In P M)	P	605	376	468	389	414	450						
Cumulative Capex (Actual) (In P M)	P	605	981	1,448	1,837	2,251	2,701						
Cumulative Capex (Forecast) (In P M)	P	558	1,116	1.674	2,232	2,790	3,348	3,906	4,464	5,022	5,580	6,138	6,696
Monthly Actual as % of Forecast		108%	67%	84%	70%	74%	81%						
Cum. Actual as % of Forecast		108%	88%	87%	82%	81%	81%						

Total forecasted capital expenditures forecast of P5,914 million stated in CA Renewal/Extension of MWCI Business Plan was adjusted to reflect the inflation rate, which resulted to a forecasted total CAPEX of P6,691 million for 2012.

Monthly Capital Expense Forecast was derived by dividing the inflation adjusted annual amount of P 6,691 million Concessionaire CAPEX forecast for 2012 by 12 months which resulted to P 558 million per month.



BEM-CA1a Evaluation

The cumulative CAPEX disbursement as of June 2012 of P2, 701 million, reflects 81% of its targeted cumulative forecast of P3,348 million. However, the actual amount will still be subject to reconciliation with the information that will be presented in the 2012 annual audited financial reports.

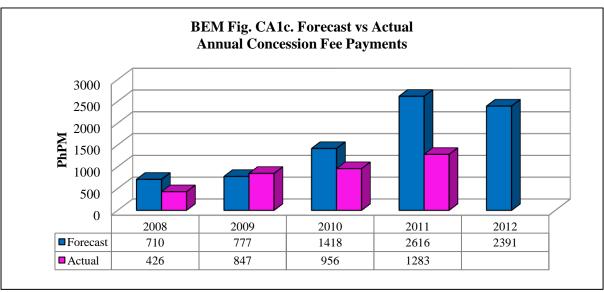
Further analysis of CAPEX disbursement is recommended based on the submitted CAPEX Report.

BEM Table CA1c. Annual Concession Fee Payments

20	08	20	09	20	10	20	11	20	12
Target	Target Actual		Actual	Target Actual		Target	Actual	Target	Actual
710	426	777	847	1,418	956	2,616	1,283	2,391	

^{**} CY 2008-2009 based on December 2007 MWCI Final Business Plan in Million Pesos

^{**}CY 2010-2012 based on Approved MWCI CA Renewal/Extension

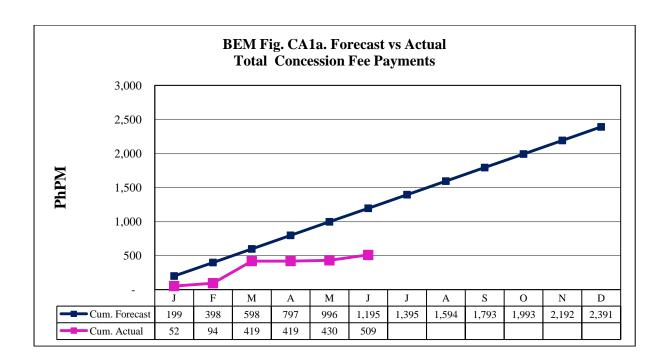


^{*}CY 2008 – 2009 Approved 2007 Business Plan

BEM Table CA1d. Monthly Concession Fee Payment Forecast vs. Actual

<u> </u>						_ 00,							
		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Total Concession Fees (Forecast)(In P M)	Р	199	199	199	199	199	199	199	199	199	199	199	199
Total Concession Fees (Actual) (In P M)	P	52	42	325	0.00	11	79						
Cumulative Concession Fees (Actual) (In P M)	P	52	94	419	419	430	509						
Cumulative Concession Fees (Forecast) (In P M)	P	199	398	598	797	996	1195	1,395	1,594	1,793	1,993	2,192	2,391
Monthly Actual as % of Forecast		26%	21%	163%	0%	5%	40%						
Cum. Actual as % of Forecast		26%	24%	70%	53%	43%	43%						_

^{**}CY 2010 – 2012 Approved CA Renewal/Extension



BEM-CA1b Evaluation

Total forecasted concession fee payments of P2,113 million stated in the Approved CA Renewal/Extension of MWCI Business Plan was adjusted to reflect the inflation rate, which resulted to a forecasted total concession fee payment of P2,391 million for CY 2012.

Monthly Concession Fee payments Forecast was derived by dividing the annual inflation adjusted amount of P 2,391 million Concession Fee payments forecast for 2012 by 12 months resulted to P199 million per month.

Per KPI BEMs Report as of June 2012, concession fee paid totaled P509 million, which is 21% of the inflation adjusted forecasted amount of P2,391 million for the year 2012.

Actual figures used were based on KPI-BEMs report submitted thus, such figures are subject to reconciliation with audited financial statement.

B-7.0 BEM-CA2 Physical Accomplishment

The report on this BEM shall refer to the actual percent completion of CAPEX as per Business Plan and shall be consistent as the summary of the CAPEX Accomplishment Report (CAR) of MWCI.

BEM-CA2 Evaluation

B-8.0 BEM-CA3 Financial Accomplishment

BEM Table CA3. 2010 Monthly Financial Accomplishment-Key Projects and Headlines

	2011 TE	2010 YTD Actual	Variance, %	2011 Actua Disburseme	•
	Budget, PhPM	Disbursement, PhPM	, штапес, ,	Jan-June	Jan-Dec
I. RELIABILITY	5,292	4,922.26		1,864.73	3,553.79
I-1. Service Sustainability	3,289	4,259.95		2,299.87	4,182.69
1.1 Water supply facilities maintenance	924	1,695.75	+93%	701.91	1,559.80
1.1.1 Water Supply Facilities	467				
1.2 Network	885	1,518.74		402.66	760.40
1.3 Wastewater	185	736.82	+256%	179.85	283.09
1.6 Overhead CAPEX	625	308.64		325.75	296.48
I-2 Earthquake Contingency	664	657.26		254.56	654.01
I-3 Angat Reliability	1,338	5.05	-97%	-	-
II. EXPANSION	6,985	3,735.69		1,248.99	4,348.53
II-1 New Water Sources	1,664	1,179.37		665.48	1,664.16
1.1 Interim Projects	831			-	
1.1.1 RPWSIP (Angono-Binangonan Project)	820			-	
1.2 Long Term Projects	1,500			-	
1.2.3 Rodriguez Water Treatment Plant	577			-	
II-2 Network Expansion	441	1,264.73	+319%	461.04	1,587.69
II-3 Wastewater	4,197	1,257.07		212.23	1,096.68
3.3 Manila Third Sewerage Project	1,501				
3.4 Master Plan for Sewerage and Sanitation	2,672				
3.3.8 Marikina River Basin Catchment Area	=			-	
II.4 Bulacan Project	-			-	
II.5 RO-PAWS/Data Loggers	16	34.50		-	
Others (Cash Advances)				(165.21)	
Total CAPEX	12,277	8,657.95		3,113.72	7,902.32

Notes: 2010 Approved TE Budget of PhP 7,453 M was adjusted to 2010 prices using an average inflation rate of 7.12% Brown filled cells are Key Projects while blue filled cells are headlines

BEM-CA3 Evaluation

The actual CAPEX disbursements of MWCI from January to December 2010 amounted to PhP 8,658 Million or +8% of the inflated to 2010 approved budget of PhP 7,984 Million. However, upon scrutiny, it was found out that the headlines Water Supply Facilities Maintenance, Wastewater (under reliability), Angat Reliability and Network Expansion were not within the +/-15% range. (See table above). Section 3, item d (i) of MWSS-RO Resolution No. 07-25-A-CA states that **prior approval of the MWSS-RO shall be obtained for any deviation in the +/- 15% range.** Likewise, Section 3, item d (ii) of the same resolution provides that in case of expenditures in excess of 15%, incurred without the prior approval of the MWSS-RO, **the same shall be deemed as neither prudent nor efficient and shall be disallowed.**

NON-REVENUE WATER (NRW)

B-9.0 BEM-NR1 Non-Revenue Water

Formula:

<u>Production – Billed Volume</u> Total No. of Connections Liters per Connection Per Day (LPCPD)

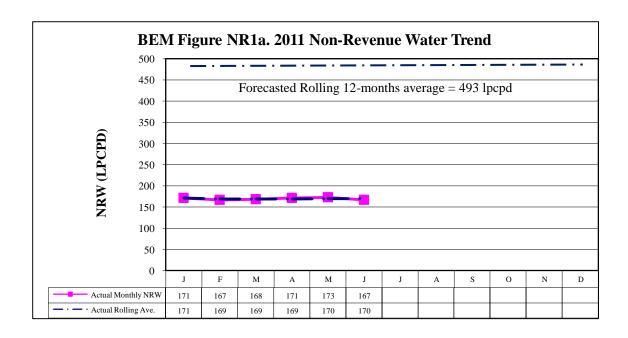
BEM Table NR1a. Annual Forecast and Actual NRW in Liters per Connection Per Day

		Base 2007	2008	2009	2010	2011	2012
Average Production (MLD)	Target	1,387	1,432	1,476	1,511	1,561	1,598
	Actual	1,378	1,341	1,316	1,287	1,277	
Average Billed Volume (MLD)	Target	1,040	1,074	1,107	1,133	1,171	1,199
	Actual	1,023	1,059	1,084	1,121	1,128	
Average NRW (MLD)	Target	347	358	369	378	390	400
	Actual	354	281	232	166	149	
Average Connection	Target	618,022	664,365	732,503	759,058	791,414	804,932
	Actual		664,973	713,689	787,722	838,421	
NRW in Liters per Connection per Day	Target	561	539	504	498	493	497
	Actual		423	325	211	179	

BEM Table NR1b. 2012 Rolling 12-Month NRW in Liters per Connection per Day

BEIT Tuo		0. 201	_ 10111	5	111011111	1 11 1	III DIC	or b per	Comin	CHOIL	or Day			_
	1	F	M	A	M	J	J	A	S	0	N	D	YTD	
Actual Production (MLD)	1,267	1,276	1,289	1,289	1,354	1,333							1,301	
Actual Billed Volume (MLD)	1,119	1,131	1,143	1,140	1,202	1,186							1,154	
Actual NRW (MLD)	148	145	146	149	152	147							148	
Cumulative Total Water Connections	863,214	866,613	869,926	873,085	877,390	880,535							871,749	
Actual NRW in LPCD	171	167	168	171	173	167							170	

Notes: 1. Actual production data from January-July were revised by MWCI in the Annual KPIs/BEMs report
2. The decrease in total water connections in December was due to data clean-up by MWCI



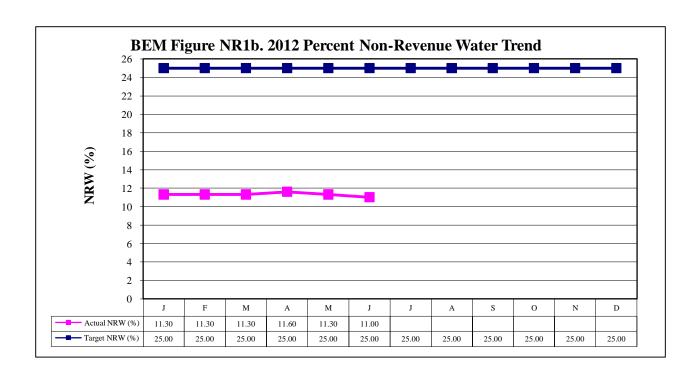
BEM Table NR1c. Annual NRW Volume Reduction Target (MLD)

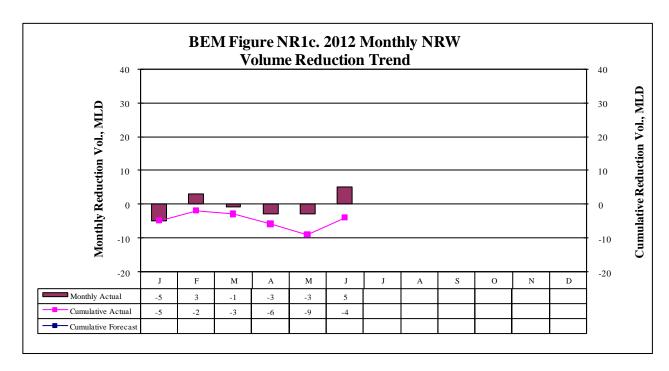
				6 (,		
	Actual* EO Dec-07	2008	2009	2010	2011	2012	
Production Target	1367	1432	1476	1511	1561	1598	
Billed Vol. Target	1040	1074	1107	1133	1171	1199	
NRW, %	24	25	25	25	25	25	
NRW Vol., MLD	327	358	369	378	390	400	Total
NRW Vol. Reduction Target		(31)	(11)	(9)	(12)	(10)	(73)

It can be observed from table above that the NRW volume reduction target of MWCI from 2008-2012 is negative meaning the NRW volume is increasing. In fact, there is an increase of 73 MLD in the NRW volume from 2008-2012.

BEM Table NR1d. Actual NRW Reduction Volume

	Dec.	2012											
	'11*	J	F	M	A	M	J	J	A	S	О	N	D
NRW Volume this Month	143	148	145	146	149	152	147						
NRW Volume Gain this Month		(5)	3	(1)	(3)	(3)	5						
Cumulative Reduction		(5)	(2)	(3)	(6)	(9)	(4)						





NRW Evaluation

BEM Figure NR1b above shows the NRW of MWCI to be recorded at 11.00% as of EO June 2012. This is 14 percentage points lower than its target to maintain its NRW at 25% level. In terms of Liters Per Connection Per Day (LPCPD), MWCI's rolling average as of EO June 2012 was recorded at 170 LPCPD as shown in BEM Figure NR1a above.

This is within the internationally accepted standard of 200 LPCPD and below.