

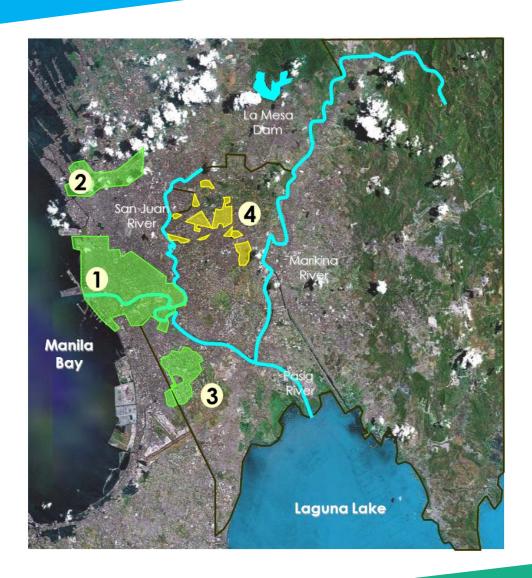
Expansion of Used Water Services under a Public Private Partnership (PPP) agreement in Metro Manila

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19 March 2018



Pre-1997, sewer coverage at 3%

- Manila's pre-WW2 sewer network
- 2. Dagat-Dagatan sewer network
- 3. Makati central business district sewer network
- 4. Scattered communal septic tanks in government housing estates
- More than 80% use septic tanks
 - Most improperly designed
 - Not regularly maintained
- The rest, esp the urban poor, had no access to sanitary facilities

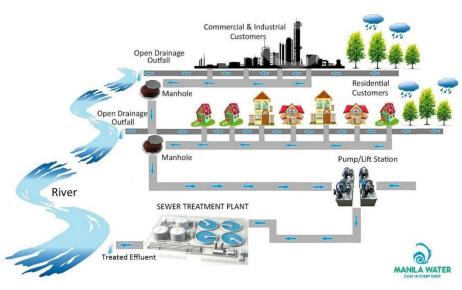






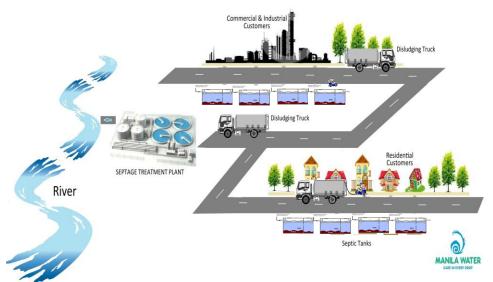
1997 Public Private Partnership





Separate Sewers

'ideal solution'

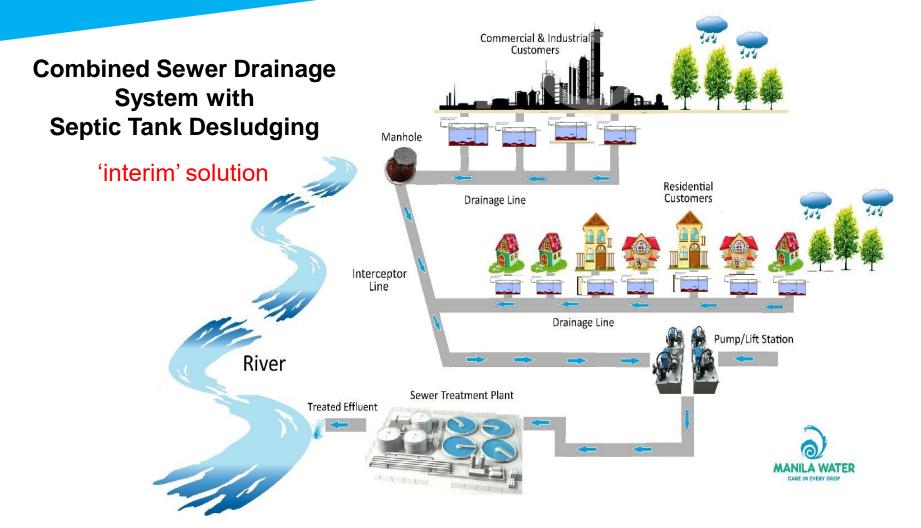


Household Septic Tank Desludging

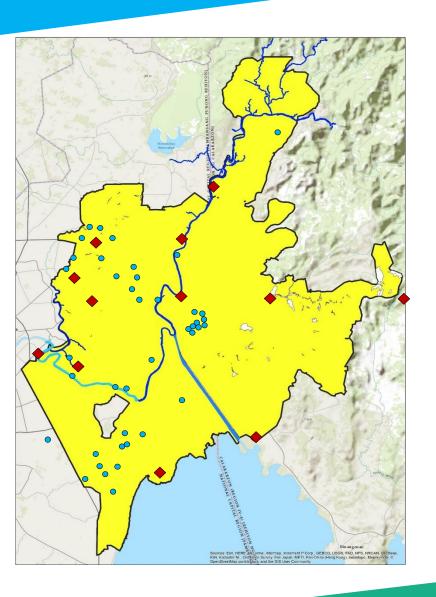
'quick wins in pollutant removal'

Used Water Service Expansion Strategy









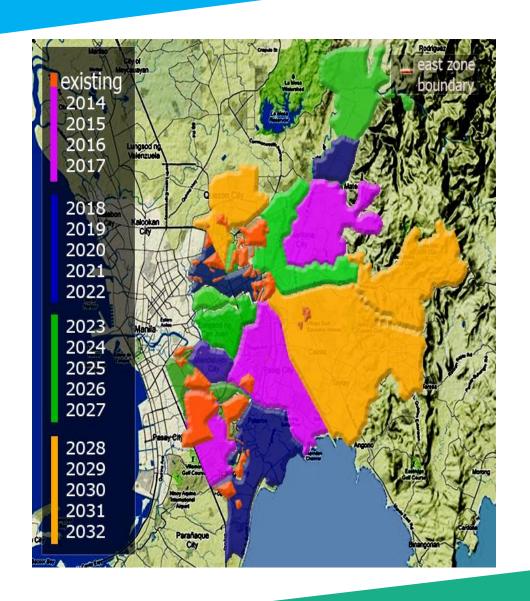
	Description	Count	Total Capacity (m³/day)
	Operating facilities	39	312,261
	On-going construction	1	100,000
•	Future facilities	14	847,050
	TOTAL	54	1,259,311

In 2017, Manila Water's used water facilities diverted

6,417 tons of BOD

from the waterways of Metro Manila.





2018 - 2037	Capacity
Makati-Manila	93mld
Mandaluyong West	57mld
San Mateo – Rodriguez	103mld
QC West	62mld
Taguig Central	117mld
QC East	25mld
QC South	15mld
SJ South	36mld
Marikina South	20mld
QC North	90mld
Antipolo	60mld
East of Manggahan	190mld

Current Status and Plans

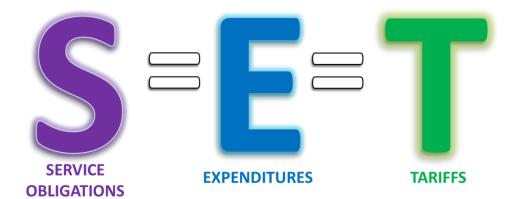


Full Cost Recovery:
Tariff-Setting
Mechanisms

CONCESSION AGREEMENT 'Regulation by Contract'

Performance-Based Metrics

Dispute Resolution via Arbitration





Availability of land for treatment plants and right of way for sewer lines

Changes and inconsistency in environmental regulation

5

Adequate numbers of WW experts & contractors

Impact of on water tariff

Public support and willingness to pay

3

Execution Challenges



'Lakbayan' Water Trail Tour







'Toka Toka' Advocacy

- IPA-DESLUDGE O IPASIPSIP
 ANG POSO NEGRO NG BAHAY
- SEWER LINE NG Manila Water
- MAGTAPON NG BASURA
 SA TAMANG PARAAN
 - SUPORTAHAN ANG MGA PROYEKTO NG
 Manila Water SA KOMUNIDAD





NAGAMIT NA TUBIG, GAWING TUBIG NA OKS!



Summary

- Our Public Private Partnership contracts have clear service obligations and targets, and allow full cost recovery of expenditures through the water tariff.
- Approaches for expansion of used water services will evolve in time: from septic tank management, to combined sewers, to separate sewers.
- Involvement of key partners such as regulators and community leaders are essential for changing mindsets.





Replicating Successes in Water Supply and Used Water

