



SEWERAGE BOARD OF LIMASSOL - AMATHUS (SBLA)

Limassol 15 April 2016
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PRESENTATION CONTENT

- Introduction
- Institutional Set Up and Legal Framework
- Project History and other Information
- European and other Research Programs
- Sewerage and Drainage Scheme of Limassol Amathus
- Steps towards promoting Renewable Resources
- Storm Water Scheme & Sustainable Urban Drainage Systems
- Financial Information
- Environmental Benefits



SEWERAGE BOARD OF LIMASSOL - AMATHUS (SBLA)

OUR MISSION

Construction, Operation and Maintenance of the Central Sewerage and Drainage System of Greater Limassol Area, with the objectives of

- improving the quality of life,
- Environmental preservation and
- Upgrading of hygienic conditions in the area.



SEWERAGE AND DRAINAGE PROJECT

Construction in stages:

- **Phase A:** Construction started in 1992
Completed in 1995
Cost: 70 million euro

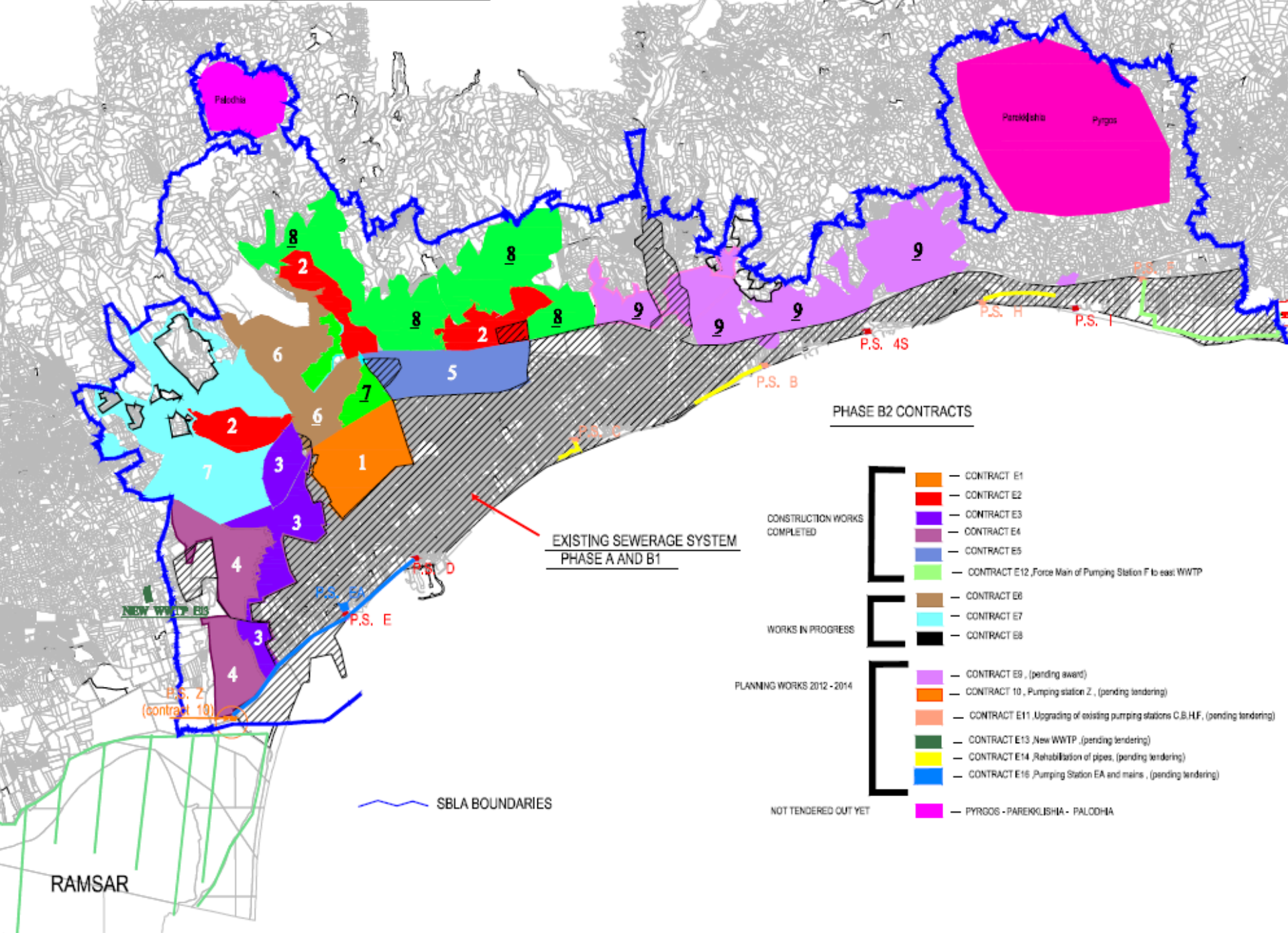
- **Phase B1:** Construction started in 2000
Completed in 2004
Cost: 50 million euro

- **Phase B2:** Construction started in 2006
Expected to be Completed by 2018-2020
Expected Cost: 370 million euro



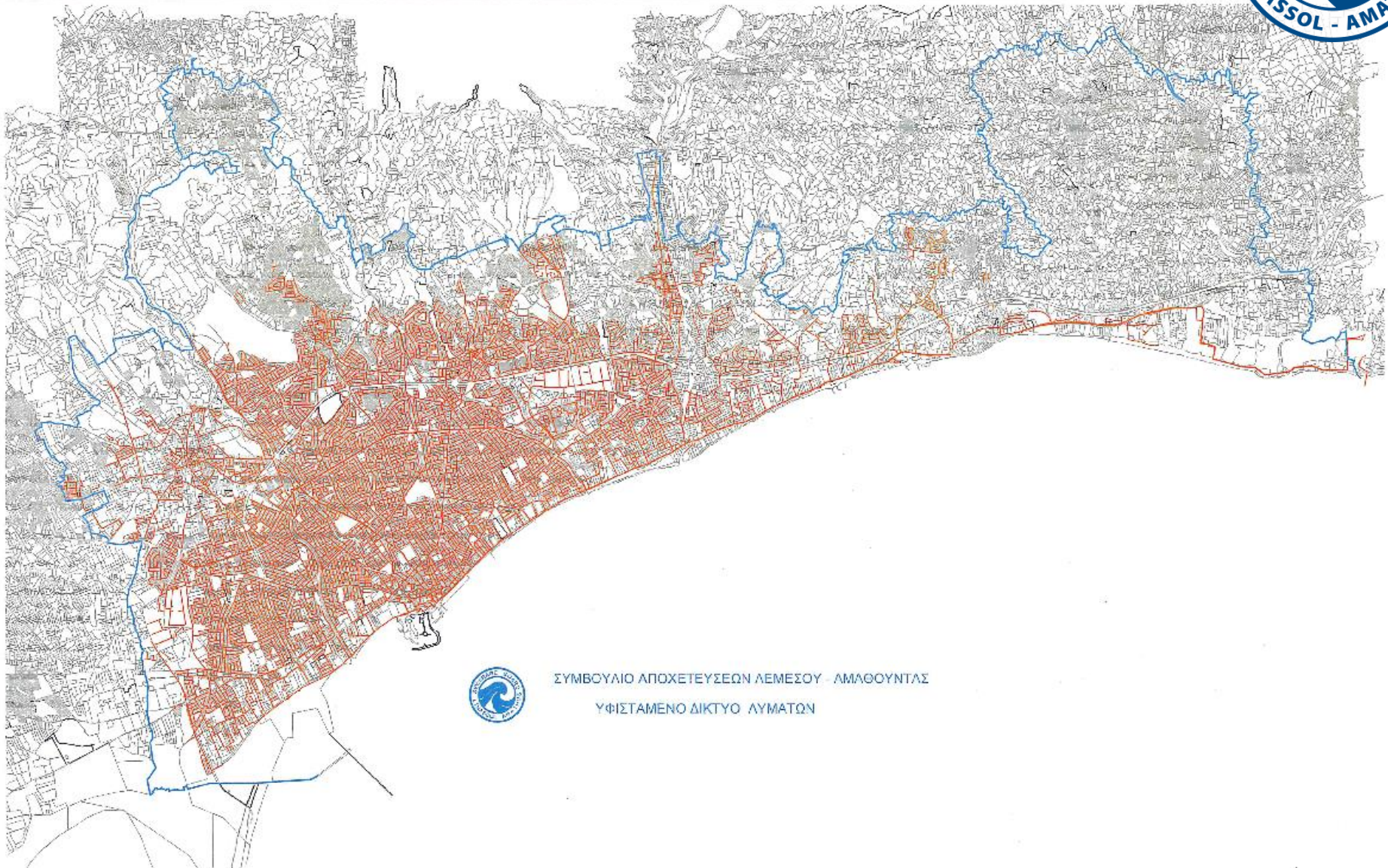
PHASE B2- MAJOR OBJECTIVES

- Extension of Sewerage Network to cover the entire SBLA area to about 900 km
- Extension of main collectors and pumping Infrastructure (upgrading of 9 and construction of additional 2 Pumping Stations)
- Extension & Upgrading of existing WWTP at Moni (in the east)
- Construction of a new WWTP in the west at Kato Polemidia
- Construction of priority Storm Water Drainage & Flood Control Infrastructure and promotion of Sustainable Drainage Systems





Sewerage Network constructed 1992-2018



ΣΥΜΒΟΥΛΙΟ ΑΠΟΧΕΤΕΥΣΕΩΝ ΛΕΜΕΣΟΥ - ΑΜΑΘΟΥΝΤΑΣ
ΥΦΙΣΤΑΜΕΝΟ ΔΙΚΤΥΟ ΛΥΜΑΤΩΝ

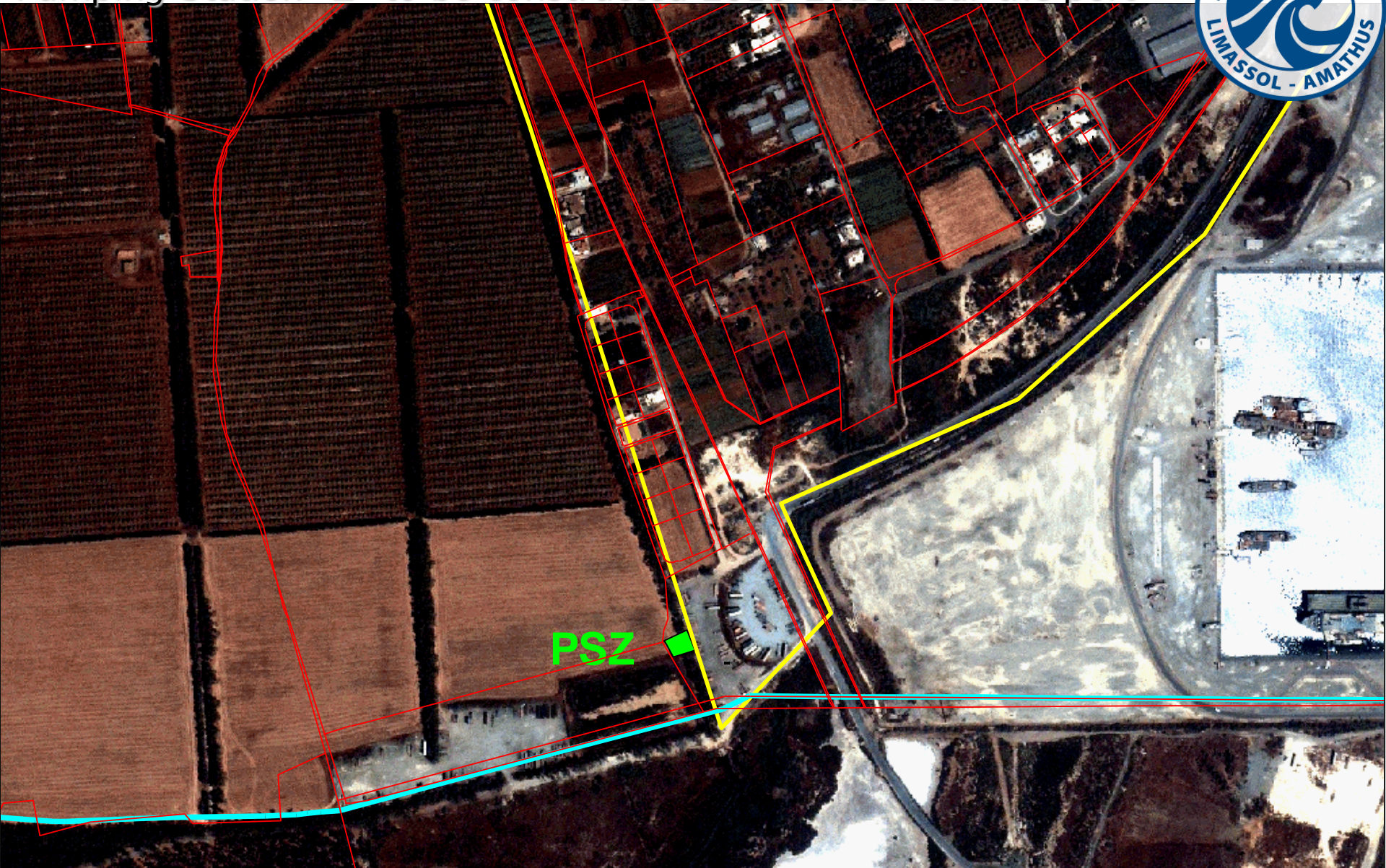
New WWTP in the west to be constructed 3 klm north of the port



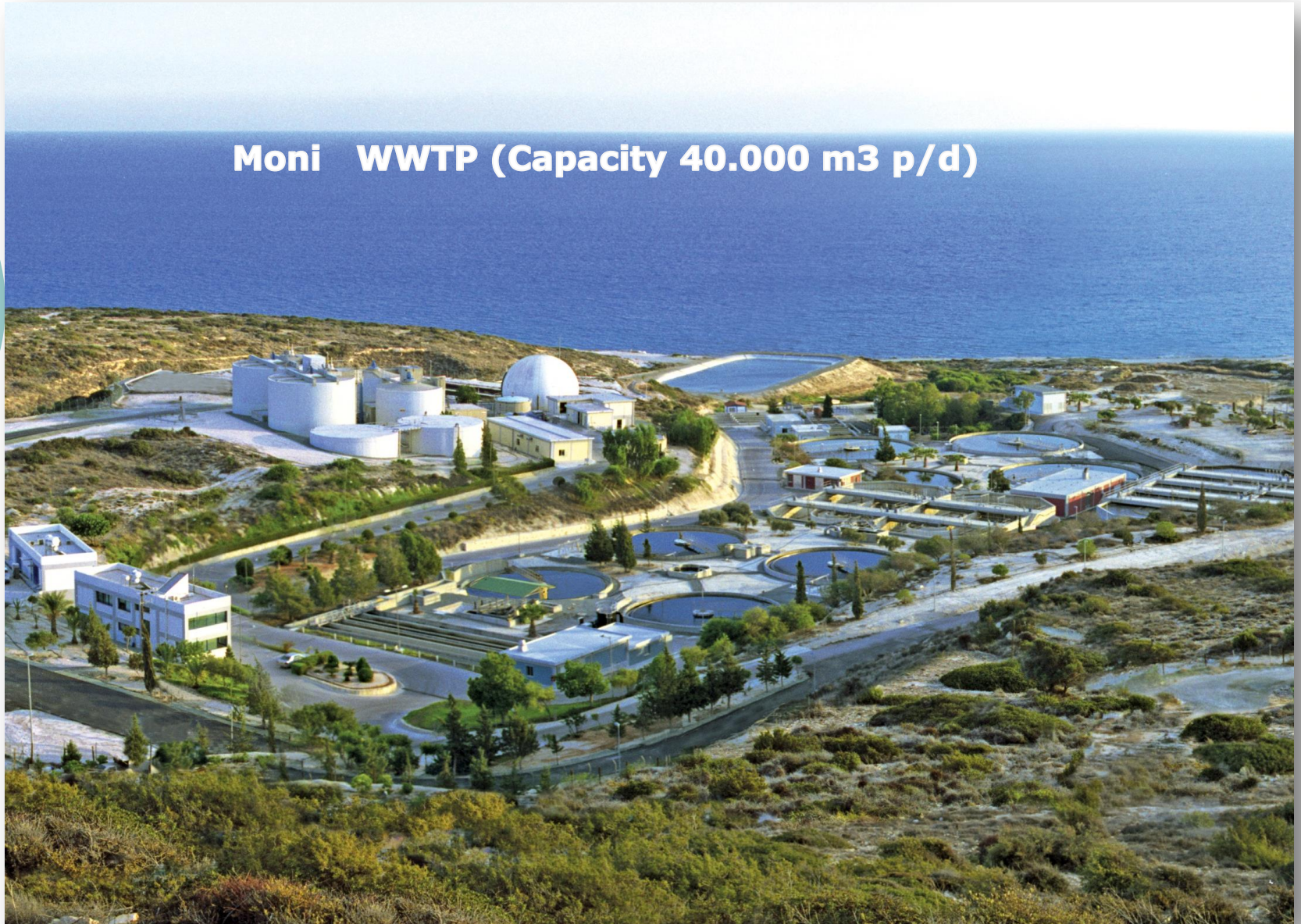
- Kato Polemidia Waste Water Treatment Plant.
- Capacity: 13.000m³ p/day
- Membrane Bioreactor (MBR) Technology.
- Budgeted cost: 22 million euro
- Full re-use of effluent, biogas and sludge



Pumping Station "Z" to be constructed 2016-2018 near the port



Moni WWTP (Capacity 40.000 m³ p/d)



Phase A: Commissioned in 1995

Phase B: Extension commissioned in 2007



Sustainable Urban Drainage Systems (SUDS)

An Environmental Approach

Master Plan 1995

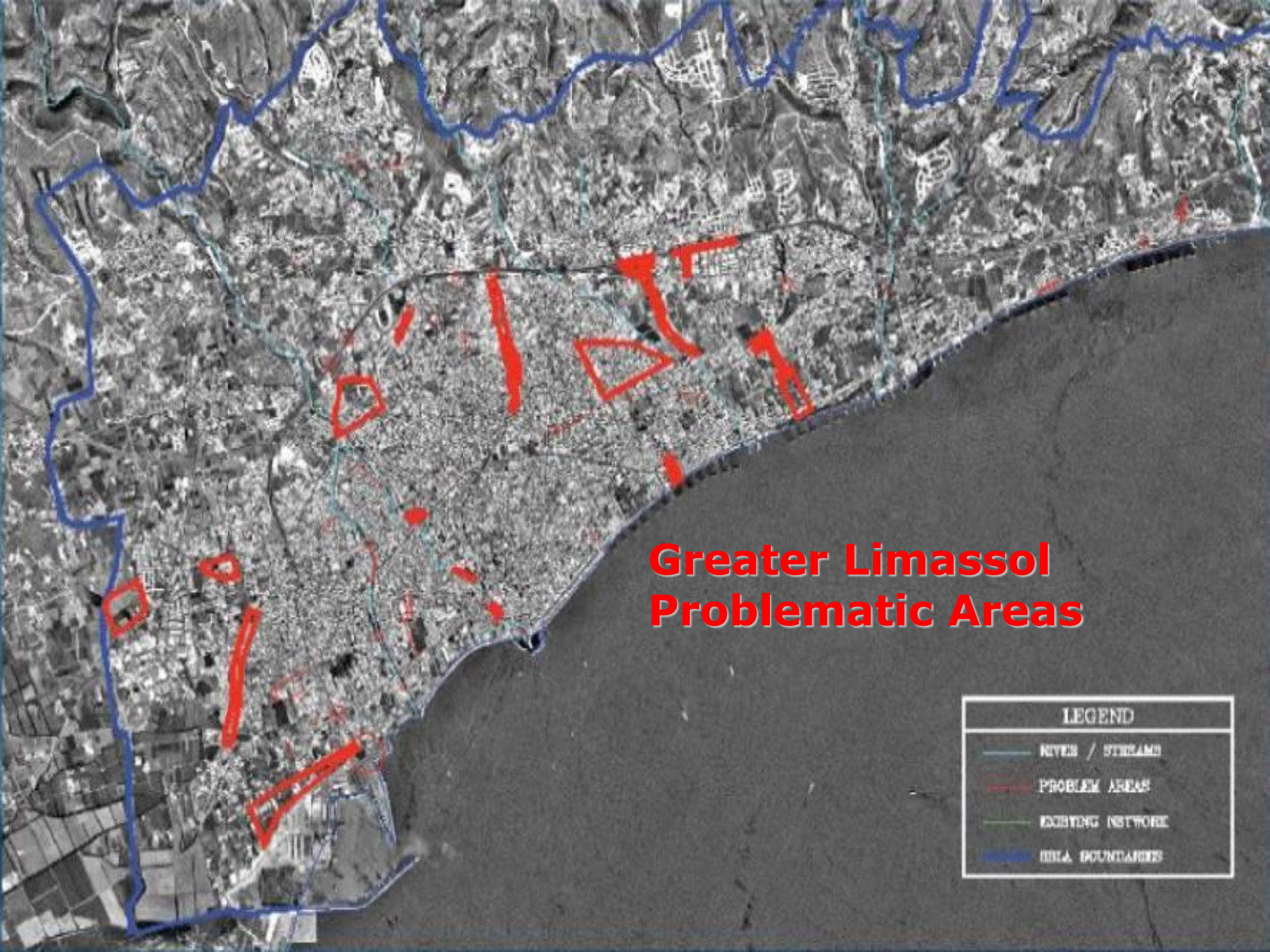
Master Plan 2002

Sustainable Urban Drainage
Systems 2007

Storm in Limassol

October 2013

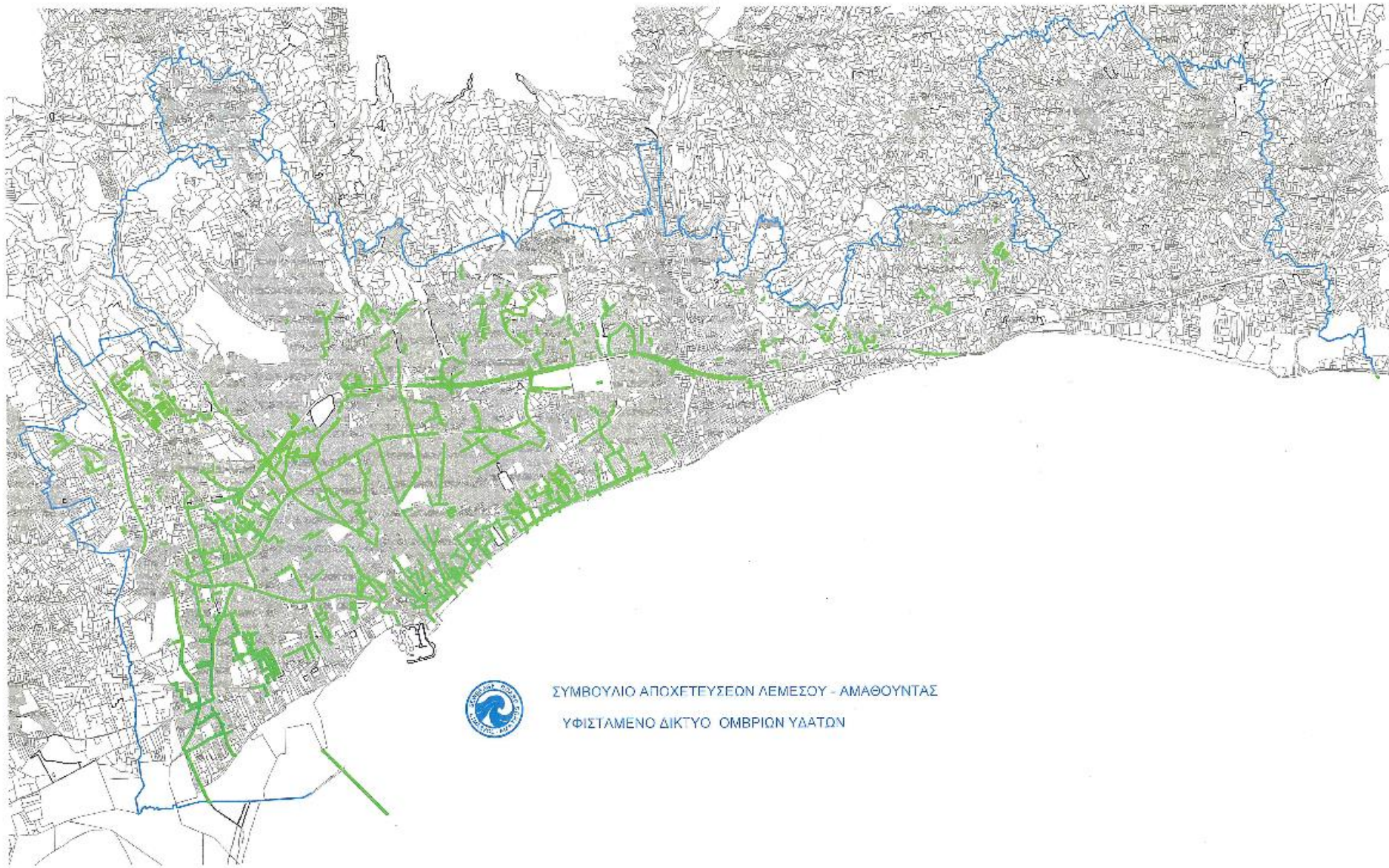




Greater Limassol Problematic Areas

LEGEND	
	RIVER / STREAM
	PROBLEM AREAS
	EXISTING NETWORK
	MUN. BOUNDARIES

Drainage Works Completed and in Progress 2016





Storm Water Scheme Implementation Cost

PHASE	Implementation Plan	Investment in million Euro
PHASE A (SBLA PROJECTS) Completed	1992-1995	3,0
PHASE B1 (SBLA PROJECTS) Completed	2002-2005	16,0
PHASE B2 (SBLA PROJECTS) Completed	2008-2013	24,0
PHASE B2 (GOVERNMENT PROJECTS)	2009-2016	30,0
PHASE B3 (SBLA PROJECTS)	2016-2019	26,3
RETENTION PONDS	2014-2019	10,7
TOTAL		110,0

Statement of Financial Position

as at 31 December 2015



	2015 Unaudited	2014	2013	2012
Assets		€	€	€
Non current assets				
Fixed assets	217.800.002	215.342.896	198.915.007	189.024.803
Investments	678.990	990.958	917.555	-
	218.478.992	216.333.854	199.832.562	189.024.803
Current assets				
Stocks	1.283.785	1.154.434	1.245.387	1.269.271
Debtors and prepayments	22.223.435	22.043.554	30.961.653	25.267.280
Cash at bank and in hand	82.091.783	77.919.371	76.779.847	85.627.418
Deferred expenditure	-	-	-	43.701
	105.599.003	101.117.359	108.986.887	112.207.670
Total assets	324.077.995	317.451.213	308.819.449	301.232.473
Equity and liabilities				
Reserves	143.938.076	129.676.550	120.273.987	132.599.284
Non current liabilities				
Loans	165.576.132	170.891.115	176.206.097	158.462.087
Pension fund	2.362.860	2.362.860	1.607.856	(279.101)
	167.938.992	173.253.975	177.813.953	158.182.986
Current liabilities				
Creditors and accrued expenses	6.885.757	9.205.186	6.892.572	6.340.218
Bank overdraft	188	521	146	522.807
Loans - amount due within one year	5.314.982	5.314.981	3.838.791	3.587.178
	12.200.927	14.820.688	10.731.509	10.450.203



Statement of Total Comprehensive Income 2015

	2015 Unaudited	2014	2013	2012
Income	€	€	€	€
Sewerage charges	19.602.928	19.713.716	18.526.686	17.694.436
Service charges	5.107.151	4.221.261	3.570.823	3.281.946
Interest receivable	1.164.590	1.457.641	1.623.345	3.871.068
House connection charges	141.391	233.173	1.212.543	1.085.261
Other income	133.656	121.705	120.467	676.685
	26.149.716	25.747.496	25.053.864	26.609.396
Grants Amortisation and Fair Value Adj.	1.088.032	1.463.841	(2.279.779)	1.212.596
Expenses reimbursed by Government	1.543.671	1.915.652	2.003.954	2.344.111
Loss on sale of fixed assets	(3.235)	(11.904)	(249)	(9.335)
Total Income	28.778.185	29.115.085	24.777.790	30.156.768
Expenditure				
Operation and maintenance expenses	4.988.564	5.295.324	5.953.203	6.827.012
Administrative expenses	2.828.683	2.866.278	2.940.942	3.246.339
Interest payable	1.033.647	1.508.660	1.412.803	1.501.564
Impairment loss on deposits and				
Actuarial Gains/Losses	-	741.338	21.523.430	(506.719)
Depreciation	8.200.000	8.154.906	8.147.733	7.613.702
	17.050.894	17.083.830	39.978.111	18.681.898
(Deficit)/Surplus for the year before exchange diff.	11.727.291	10.548.579	(15.200.321)	11.474.870
Exchange differences	-	-	-	(4.604)
Surplus for the year	11.727.291	10.548.579	(15.200.321)	11.470.266
Accumulated surplus brought forward	96.185.677	85.637.098	100.837.419	89.367.153
Accumulated surplus carried forward	107.912.968	96.185.677	85.367.098	100.837.419



Summarised Statement of Sources and Applications of Funds (period 2013-2020)

	€ m.
Gross Internal Funds (including CPB haircut losses)	108,8
Debt Service (Principal repayment and interest)	(113,7)
Loan Disbursements	151,0
Government Grants and Expenditure reimbursed	58,7
Capital expenditure	(191,6)
Other inflows/(outflows) (including BOC haircut)	(2,8)
Increase/(Decrease) in Cash	10,4
Cash and cash equivalents as at 1 st January 2013	85,1
Cash and cash equivalents as at 31 st December 2020	95,5



Rates and Charges

Basic Principles

- Full cost recovery approach (Legal requirement)
- Close monitoring and annual review – Loan Agreement Covenant
- Based on actual financial needs in order to cover
 - (a) Current and committed investment needs (at least 20%)
 - (b) Debt servicing needs
 - (c) Administration, Operation and Maintenance of the system in operation
- Thresholds on charges and rates approved by the House of Representatives
- Actual annual rates approved by the Board of Management (provided: within the approved thresholds)
- Average collectability within the year of imposition: 90%
- No Bad Debt allowed
- Polluter pays principle



Current Situation

Strengths and Weaknesses

Strengths

- Small organisation concentrated on a specific objective
- Not sizeable staff employed
- Outsourcing of most services
- More localised entity – Better customer service
- Subject to greater pressure for cost reductions and better service
- Simple and easily manageable set up
- More flexible than Government Departments



Current Situation

Strengths and Weaknesses

Weaknesses

- Restriction in available resources
- Lack of in house specialisation and expertise of the existing resources
- Large scale economies cannot be optimised
- Large Board of Management consisting entirely of elected persons
- Slow decision making process and less flexibility
- Rigidity of Legal Framework
- Slow moving interaction with many Government Departments
- Reaction to changes, subject to many restrictions and procedures



Specific Environmental Benefits from the operation of the Sewerage System in Limassol

- **Increased Efficiency** in water resources management
- **Treated Effluent Reuse in Agriculture, Gardening, Industrial and other purposes.** Effluent reuse by 2016 -13 million m³
- **Groundwater and Environmental preservation**
- **Clean Beaches** (Blue Flag in all beaches)
- **Bio Solids reused in agriculture** for soil improvement and/or as a Fuel Supplement in the neighboring Cement Factory
- **Green Energy Generation** - Biogas reused for Electricity and Thermal Energy Generation
- **Sustainable Economic** development and tourism
- **Upgrading quality** of Life & Health conditions



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