Región de Murcia

Water treatment and reuse

Consejería de Agricultura y Agua
Dirección General del Agua

February 21th 2012

MURCIA CITY

Región de Murcia

GENERAL PLAN FOR WASTEWATER RECLAMATION 2001-2010

OBJECTIVES

MORE WATER (FOR AGRICULTURE REUSE)

RECOVERY RIVER SEGURA (AND NATURE)

ENSURING WASTEWATER TREATMENT EU

(DIRECTIVE 91/ 271/CEE)

BASIC POLICIES

INFRASTRUCTURE BUILDING

WASTEWATER MANAGEMENT SYSTEM

INDUSTRIAL WASTEWATER

DISCHARGES CONTROL SEWER
AT SOURCE TREATMENT

INFRAESTRUCTURE

‘WHOLE’ COLLECTING SYSTEMS :

99% URBAN POPULATION CONNECTED TO TREATMENT

DESIGN CRITERIA FOR WW TREATMENT PLANTS

MBR WASTEWATER TREATMENT PLANTS

'SAN PEDRO PINATAR' MBR 20,000 m3/day

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SMALL WASTEWATER TREATMENT PLANT

TREATMENT TERTIARY

WASTEWATER TREATMENT PLANTS

47 LARGE WASTEWATER TREATMENT PLANTS

Treatment capacity: 540.000 m^3/d

Population capacity : 5 million

70 % Tertiary treatment capacity

50 SMALL WASTEWATER TREATMENT PLANTS

PROJECT COST

635 MILLION EUROS

CONSEJERÍA DE AGRICULTURA Y AGUA.

CONFEDERACIÓN HIDROGRAFICA DEL SEGURA (MINISTERIO MEDIO AMBIENTE)

AYUNTAMIENTOS

PROJET CO-FINANCED BY EUROPEAN UNION

COHESION FUND / ERDF

WASTEWATER MANAGEMENT SYSTEM

WASTEWATER RECLAMATION LEVY

'You contaminate, you pay'

REGIONAL AGENCY 'ESAMUR'

RESULTS

OVERALL CONTAMINATION LOAD TREATMENT PLANTS

WASTEWATER RECLAMATION AND REUSE 2010

TRATED WASTEWATER	111 Million m3
REUSED WATER (Directly o indirectly)	100 Million m3
REUSED / TRATED	90%

WATER QUALITY RIVER SEGURA LONGITUDINAL PROFILE

Source: CHS Confederación Hidrográfica del Segura 2011

A day of fishing in Murcia City .....

PESCA

VIVOS
PESCA

CEBOS VIVOS

SURFACE WATER QUALITY BY RIVER BASINS

Source: Ministerio de Medio Ambiente, Rural y Marino

RECOVERY WETLANDS

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