

1st Revision of River Basin Management Plan Crete River Basin District (EL13)

SUMMARY





European Union European Regional Development Fund

HELLENIC REPUBLIC

MINISTRY OF ENVIRONMENT & ENERGY

SPECIAL SECRETARIAT FOR WATER

1st REVISION OF RIVER BASIN MANAGEMENT PLAN FOR THE CRETE RIVER BASIN DISTRICT (EL13)

PROJECT: DEVELOPMENT OF 1st REVISION OF RIVER BASIN MANAGEMENT PLANS OF 14 RIVER BASIN DISTRICT OF THE COUNTRY, ACCORDING TO THE SPECIFICATIONS OF THE DIRECTIVE 2000/60/EC, PURSUANT TO THE LAW 3199/2003 AS AMENDED AND IN FORCE AND THE PRESIDENTIAL DECREE 51/2007 / M.6: CRETE RIVER BASIN DISTRICT (GR13)

JOINT VENTURE: «1st REVISION OF RIVER BASIN MANAGEMENT PLAN FOR THE CRETE RIVER BASIN DISTRICT»

- ADVANCED ENVIRONMENTAL STUDIES CONSULTANT ENGINEERS S.A.
- KAPSALIS PANAGIOTIS
- KRITSOTSAKI MELPOMENI

CRETE RIVER BASIN DISTRICT (EL13)

Deliverable 22b Study M.6:

Summary with abstract of the final 1st Revision of River Basin Management Plan in English

Government Gazette approving the 1st Revision of the RBMP for the Crete RBD: 4666/B/29.12.2017

1st REVISION OF RIVER BASIN MANAGEMENT PLAN FOR THE CRETE RIVER BASIN DISTRICT (EL13)

Summary with abstract of the final 1st Revision of River Basin Management Plan in English

Table of Contents

1 IN	ITRODUCTION	1
1.1	General	1
1.2	Consultation	
2 DI	IFFERENCES IN RELATION TO THE 1 ST RIVER BASIN MANAGEMENT PLAN	6
2.1	Main differences in relation to the 1 st River Basin Management Plan	6
2.2	Record of the main differences	7
3 DI	ESCRIPTION OF THE RIVER BASIN DISTRICT - COMPETENT AUTHORITIES	. 10
3.1	River Basins	. 10
3.2	Competent Authorities	. 11
4 ID	ENTIFICATION OF WATER BODIES	. 16
4.1	Surface Water Bodies	. 16
4.2	Groundwater Bodies	. 26
4.3	Heavily Modified Water Bodies (HMWB) and Artificial Water Bodies (AWB)	. 30
4.4	Protected Areas	. 33
5 PF	RESSURES AND IMPACTS	. 39
5.1	Point sources of pollution	. 39
5.2	Diffuse sources of pollution	. 40
5.3	Hydromorphological pressures	. 42
5.3.1	Pressures related to Hydromorphology	42
5.3.2	Sand and gravel extraction	42
5.4	Water abstraction	. 42
5.5	Other pressures	. 43
5.6	Total pressures	. 45
5.7	Impact Assessment	. 46
5.7.1	Impact Assessment on Surface water bodies	46
5.7.2	Impact Assessment on Groundwater bodies	47
6 ST	ATUS OF WATER BODIES	. 52
6.1	Classification of the Status of Surface Water Bodies	. 52
6.1.1	Status assessment of River Water Bodies	52
6.1.2	Status assessment of Lake Water Bodies	55
6.1.3	Status assessment of Transitional Water Bodies	55
6.1.4	Status assessment of Coastal Water Bodies	56
6.2	Classification of the Status of Groundwater Bodies	. 70
7 EC	CONOMIC ANALYSIS OF WATER USES	. 75
7.1	Water service cost estimation - Financial Cost	. 75
7.1.1	Water services for public water supply and sewage collection/ treatment	75
7.1.2	2 Water services for Agricultural usage	76
7.2	Environmental and resource cost	. 77
7.2.1	Environmental cost estimation	. 77
7.2.2	Resource cost estimation	78
8 EN	VVIRONMENTAL OBJECTIVES - EXEMPTIONS	. 80
8.1	Summary of environmental Objectives and Exemptions	. 80
8.2	Deadline Extension (Article 4.4, Directive 2000/60 /EC)	. 80
8.3	Less stringent environmental objectives (Article 4.5, Directive 2000/60 /EC)	. 81
8.4	Temporary deterioration in the status of WBs (Article 4.6, Directive 2000/60 /EC)	. 81
8.5	New And Planned Water Resources Development Projects (Article 4.7, Directive 2000/60 /EC)	. 81
9 PF	ROGRAMME OF MEASURES	. 82
9.1	Introduction	. 82

9.2	Progress In Implementing The Programme Of Measures of the 1 st Management Plan	83
9.3	Basic and Supplementary Measures Programme	84
9.3.1	Actions implementing EU Directives (Group I of Basic Measures)	86
9.3.2	Basic Measures of other Categories (Group II of Basic Measures)	89
9.3.3	Supplementary measures	
10 N	XT STEPS	101
11 SU	IMMARIZED STATISTICS FOR CRETE RBD (EL13)	102

List of Tables

Table 2-1	Main differences of the 1 st Revision in relation to the 1 st RBMP
Table 3-1	River Basins of Crete RBD (EL13) 10
Table 3-2	Identity of the National Competent Authority
Table 3-3	Identity of the Regional Competent Authority
Table 3-4	Degree of involvement of the competent authorities in relation to the Directive
	2000/60/EC implication14
Table 4-2	Number of surface water bodies per River Basin of Crete RBD (EL13)
Table 4-2	New typology, according to European Decision 2013/480 / EC and MED GIG, for River
	WBs (not reservoirs) of Crete RBD (EL13)16
Table 4-3	Lake WBs and River HMWBs of lake type (reservoirs) of Crete RBD (EL13) 21
Table 4-4	Transitional WBs of Crete RBD (EL13)23
Table 4-5	Coastal WBs of Crete RBD (EL13)
Table 4-6	Ground Waterbodies of Crete RBD (EL13)
Table 4-7	Summary data for HMWBs in Crete RBD (EL13)
Table 4-8	Heavily Modified WBs of Crete RBD (EL13)
Table 4-9	Areas designated for the abstraction of water intended for human consumption 33
Table 4-10	Vulnerable Zones and WBs which are or may be subjected to Nitrates
Table 5-1	Total annual loads of BOD, N and P produced in RBs of Crete RBD (EL13) from point
	sources of pollution 40
Table 5-2	Total annual loads of BOD, N and P produced in RBs of Crete RBD (EL13) from diffuse
	sources of pollution 41
Table 5-3	Water per use to Crete RBD (EL13) 42
Table 5-4	Total annual loads of BOD, N and P produced in RBs of Crete RBD (EL13) from point and
	diffuse sources of pollution45
Table 5-5	Statistics for the risk assessment of non-achievement of surface water bodies objectives
	in RBs of Crete RBD (EL13) 46
Table 5-6	Quantitative and chemical status of GWBs per RB at Crete RBD (EL13)
Table 6-1	Status and differences in the status of river WBs between the 1^{st} RBMP and the 1^{st}
	Revision of RBMP
Table 6-2	Status and differences in the status of Lake WBs and reservoirs (Heavily Modified River
	Water Bodies) between the 1 st RBMP and the 1 st Revision of RBMP55
Table 6-3	Status and differences in the status of transitional WBs between the 1 st RBMP and the
	1 st Revision of RBMP
Table 6-4	Status and differences in the status of coastal WBs between the 1^{st} RBMP and the 1^{st}
	Revision of RBMP 56
Table 6-5	Status and differences in the status of GWBs between the 1 st RBMP and the 1 st Revision
	of RBMP70
Table 7-1	Public water supply financial cost recovery at RBs of Crete RBD (EL13)75
Table 7-2	Agricultural usage financial cost recovery at RBs of Crete RBD (EL13)
Table 7-3	Environmental cost per RB of Crete RBD (EL13)77
Table 7-4	Distribution of Environmental Cost per Water Use in the RBs of Crete RBD (EL13) 77
Table 7-5	Resource cost per RB of Crete RBD (EL13)78
Table 7-6	Distribution of Resource Cost per Water Use in the RBs of Crete RBD (EL13)78
Table 8-1	Objectives of surface WBs by 2021 80
Table 8-2	Objectives of GWBs by 2021 80

Table 8-3	Exceptions of WB's by 2021	D
Table 9-1	Number of Basic Measures of the 1 st Management Plan per action	3
Table 9-2	Summary of the implementation progress of the Basic Measures during the 15	st
	Management Plan	3
Table 9-3	Summary of the implementation progress of the Supplementary Measures during the	е
	1st Management Plan	4
Table 9-4	Provisions for the incorporation of the EU Directives into National Law	6
Table 9-5	Actions for the implementation of EU Directives	8
Table 9-6	Basic measures of other categories	9
Table 9-7	Waterbodies of the Crete RBD (EL13), for which the adoption of supplementary	y
	measures is considered necessary	6
Table 9-8	Supplementary measures	8
Table 11-1	Categories of WB per RB of Crete RBD (EL13) 102	2
Table 11-2	Typology of Surface WBs per RB of Crete RBD (EL13) 102	2
Table 11-3	Assessment (classification) results of WBs status per RB of Crete RBD (EL13)	

List of Charts

Chart 5-1	Total annual loads of BOD, N and P produced in RBs of Crete RBD (EL13) from point sources of pollution
Chart 5-2	Total annual loads of BOD, N and P produced in RBs of Crete RBD (EL13) from diffuse
	sources of pollution 41
Chart 5-3	Distribution of water needs per use for Crete RBD (EL13) 43
Chart 5-4	Total annual loads of BOD, N and P produced in RBs of Crete RBD (EL13) from point and
	diffuse sources of pollution
Chart 5-5	Risk assessment of non-achievement of surface water bodies objectives in RBs of Crete
	RBD (EL13)
Chart 7-1	Public water supply financial cost recovery at RBs of Crete RBD (EL13)75
Chart 7-2	Agricultural usage financial cost recovery at RBs of Crete RBD (EL13)76

List of Maps

Map 3-1	Crete River Basin District (EL13) and River Basins	10
Map 4-1	River WBs identified in Crete RBD (EL13) and typology	20
Map 4-2	Lake WBs and River HMWBs of lake type (reservoirs) of Crete RBD (EL13)	22
Map 4-3	Transitional WBs of Crete RBD (EL13)	23
Map 4-4	Coastal WBs of Crete RBD (EL13)	25
Map 4-5	Groundwater bodies of Crete RBD (EL13)	29
Map 4-6	Heavily Modified WBs of Crete RBD (EL13)	32
Map 4-7	WBs designated for the abstraction of water intended for human consumption (Article 3	7 of
	Directive 2000/60 / EC) of Crete RBD (EL13)	35
Map 4-8	Bathing waters of Crete RBD (EL13)	36
Map 4-9	Designated and proposed Vulnerable Zones of Crete RBD (EL13)	37
Map 4-10	Areas designated for the protection of habitats or species of Crete RBD (EL13) – Areas	s of
	Natura 2000 Network	38
Map 4-11	Areas designated for the protection of habitats or species of Crete RBD (EL13) – Small isla	and
	wetlands	38
Map 6-1	Ecological status/ potential of river WBs of Crete RBD (EL13)	58
Map 6-2	Chemical status of river WBs of Crete RBD (EL13)	59
Map 6-3	Total status of river WBs of Crete RBD (EL13)	60
Map 6-4	Ecological status of Lake WBs and ecological potential of lake type river WBs (reservoirs) of
	Crete RBD (EL13)	61
Map 6-5	Chemical status of Lake WBs and lake type river WBs (reservoirs) of Crete RBD (EL13)	62
Map 6-6	Total status of Lake WBs and lake type river WBs (reservoirs) of Crete RBD (EL13)	63
Map 6-7	Ecological status of transitional WBs of Crete RBD (EL13)	64

Map 6-8	Chemical status of transitional WBs of Crete RBD (EL13)	65
Map 6-9	Total status of transitional WBs of Crete RBD (EL13)	66
Map 6-10	Ecological status of coastal WBs of Crete RBD (EL13)	67
Map 6-11	Chemical status of coastal WBs of Crete RBD (EL13)	68
Map 6-12	Total status of coastal WBs of Crete RBD (EL13)	69
Map 6-13	Chemical status of GWBs of Crete RBD (EL13)	73
Map 6-14	Quantitative status of GWBs of Crete RBD (EL13)	74

ABBREVIATIONS

	ABBREVIATIONS
AR	At Risk
AWB	Artificial Water Body
BQEs	Biological Quality Elements
DA	Decentralized Administration
EU	European Union
GOLR	General Organization of Land Reclamation
GG	Government Gazette
GWB	Ground Waterbody
HMWB	Heavily Modified Water Body
JMD	Joint Ministerial Decision
LAA	Local Administration Authority
LOLR	Local Organizations of Land Reclamation
MD	Ministerial Decision
MED GIG	Mediterranean Intercalibration Team
MEE	Ministry of Environment & Energy
MEWSS	Municipal Enterprise for Water Supply and Sewerage
MP	Measurement Plan
NAT	Natural Water Body
NR	Not at Risk
NMWN	National Monitoring Water Network
OLR	Organizations of Land Reclamation
PAR	Probably At Risk
PD	Presidential Decree
PNR	Probably Not at Risk
RB	River Basin
RBD	River Basin District
RBMP	River Basin Management Plan
RU	Regional Unit
SCA	Special Conservation Area
SCI	Site of Community Interest
SPA	Special Protection Area
SSW	Special Secretariat for Water
SWB	Surface Water Body
WB	Water Body
WFD	Water Framework Directive
WWTP	Waste Water Treatment Plants

1 INTRODUCTION

1.1 General

Since the beginning of 2000, the European Union has a new policy regarding the management of water resources. Basic tool for the promotion of this new policy is the Water Framework Directive (WFD) 2000/60/EC.

The Greek Law was harmonised with the WFD with Law 3199/2003 (Government Gazette 280/A/2003) and the Presidential Decree 51/2007 (Government Gazette 54/A/2007).

River Basin Management Plans (RBMPs) for the **14 River Basin Districts (RBDs)** of the country was both a priority and a required step for the implementation of the WFD in Greece. These 14 River Basin Districts have been defined according to No.706/2010 Decision of the National Water Committee (GG 1383/B/2010 and GG 1572/B/2010 - correction of Annex II).

The 1st River Basin Management Plan for the Crete River Basin District (EL 13) was approved by the Decision No. 163/31.03.2015 (GG 570/B/2015) of National Water Committee.

The River Basin Management Plans of the River Basin Districts of the country are revised and updated every six years. The first River Basin Management Plans of each RBD of Greece, which have been approved, concern the 1st Management Cycle (2009-2015) and are valid until their revision. The Management Plans which are laid down with the 1st Revision of River Basin Management Plans of the country's 14 River Basin Districts, according to the specifications of the Directive 2000/60/EC, concern the 2nd Management Cycle (2016-2021).

The 1st Revision was implemented simultaneously for all 14 River Basin Districts of the country and consistence has been achieved regarding both the methodologies and the proposed Programme of Measures (Basic and Supplementary).

1.2 Consultation

Informing the public, in all stages of its implementation, is required by the Directive 2000/60/EC (Article 14), while active participation should be encouraged. All important issues should be discussed with all stakeholders, competent authorities and public via appropriate actions of consultation and participating procedures.

Everyone that affects the good status of waters of Crete River Basin District and is affected from it, was called to participate in the consultation process (indicatively decision making authorities, administrators, water users or consumers, experts).

The consultation on the 1st Revision of the RBMP for the Crete RBD lasted from November 2015 to December 2017 and included the following stages:

• **Stage A:** In November 2015, the planned tasks regarding the 1st Revision of the RBMP were posted to the website of the Greek Ministry of Environment and Energy (<u>www.ypeka.gr</u>). Also, a detailed timetable of these tasks was posted for the information of public.

- Stage B: In June 2016, the significant water management issues for each River Basin were posted to the website of the Greek Ministry of Environment and Energy. These issues included, the results of the National Monitoring Water Network (NMWN) for the RBD, the main pressures, the definition and listing of the competent authorities and bodies participating in the consultation. Basic common methodologies for the classification of the status of Water Bodies (WBs), the assessment of pressures and the determination of Heavily Modified Water Bodies (HMWBs) and the exemptions of Article 4 of Directive 2000/60/EC were also posted in December 2016.
- **Stage C:** In June 2017, the Draft of 1st Revision of the RBMP for the Crete RBD was posted to the webpage of Special Secretariat for Water (<u>http://wfdver.ypeka.gr</u>), as well as the relevant questionnaire. This stage also included the publication of the Strategic Environmental Impact Assessment.

The consultation was completed on 15/12/2017.

For the purpose of the consultation of the 1st Revision of the RBMPs of the country a website was implemented by the Special Secretariat for Water (SSW) (http://wfdver.ypeka.gr), with the capability of comment submissions (email and online comments posting), as well as the capability of filling the consultation questionnaire. Posting public comments regarding the published material was also possible via the same webpage. Also, in the same webpage there are available all the elements of the 1st RBMPs accompanied with their relevant geospatial data, concerning the WBs and their status, as well as other relevant data related to Water Resources Management like the National Registry of Surface and Groundwater Abstraction Points, the National Database of Wastewater Treatment Plants etc.

In addition to the above mentioned, during the consultation, the capability of intervention was given regarding the 1st Revision of the RBMPs via email, fax or by post, aiming at the submission of different opinions and information providing.

The consultation process of the Strategic Environmental Impact Assessment was implemented simultaneously with the consultation of the 1st Revision of the RBMP, a fact which significantly contributed to the configuration of the Final Plan.

Last but not least, workshops were organized during a two-day event for informing the public about the River Basin Management Plan and the Flood Risk Management Plan.

In total, 113 people took part, 10 of which actively intervened during the workshops, while 18 consultation questionnaires were filled. Additionally, 6 commentary texts were received, either via e-mail or as comments on the SSW website.

By assessing these questionnaires, the following conclusions came up:

1. The main mean of information for the participants was the SSW's invitation (60%). The most effective way for your information, with regards to the various Management Plan supportive documents to be published, is the use of e-mail services for sending information (46%) and the SSW's website for briefing and updates (41%).

- 2. The list of the social partners involved found on the website was not read by 55% of the participants, while 89% of them do not want to make any addition or correction on that list. In two questionnaires, the Real Estate Service and the Municipality of Amari were asked to be added on the social partners list.
- 3. No objections were made on the changes suggested with regards to the surface and ground water bodies. From the questionnaires filled the following suggestions are highlighted: Firsly, it should be environmentally monitored how the Aposelemis dam works could affect the aquifer of the surrounding area and especially the area of lerapetra. Secondly, the ground waterbody of the southern and eastern Diktis kart system should be checked.
- 4. The most important waterbody issues that need to be confronted during the Management Plan revision are prioritized as such:
 - ✓ The lack of drinking water of adequate quantity and of proper quality
 - ✓ The lack of irrigation water of adequate quantity and of proper quality
 - Problematic infrastructure in relation to drinking and irrigation works (e.g. old network, lack of water abstraction works, etc.)
 - ✓ Irrational management of water resources by the competent bodies
- 5. The most significant causes that complicate the confrontation of the above issues are prioritized as such:
 - ✓ Confrontation/overlap of jurisdiction between the competent bodies
 - ✓ Lack of authority coordination
 - ✓ Improper observance of the law
- 6. Addiotional issues are identified that should be furtherly investigated in the frame of the RBMP revision. The suggested issues arise are: the adaptation to climage change, the hierarchy of measures after the SWOT or COST BENEFIT ANALYSIS, the use of "grey" water, the cooperation of the competent services, the utilization of the recycled water by the wastewater treatment plants and the management of surface water bodies in relation in accordance to the technological capabilities available.
- 7. In relation to the question on how the drought-water shortage and Climate Change issues could be taken into account in the revised Management Plan, the following were suggested:
 - ✓ New approaches in relation to intervening with small dams, desalinations and better information provision
 - ✓ Proper management, new legal framework and implication of proper agricultural practice
 - ✓ Drilling new wells
 - ✓ Work desing for water saving and for encountering water resources waste
 - Examine high-risk scenarios and solutions such as the process desalination and "grey" waters

- ✓ Make good use of water resources that are not currently used, such as Almyros of Heraklion
- 8. The water-saving measures are prioritized in accordance to their effectiveness as such:
 - ✓ Proper information
 - ✓ Saving systems
 - ✓ Proper pricing policy
- 9. The most effective ways of informing the public and raising awareness are:
 - ✓ The transmission of information through in newspapers, on television and on the radio, along with the organization of related workshops
 - The use of social media networks
- 10. The main priorities for confronting the important management issues are:
 - ✓ Saving of water resources with infastructure improvement works (replacement of drinking and irrigating networks, recycling, etc.)
 - ✓ Pricing according the saying "the polluter pays"
 - ✓ Pollution reduction on the ground waterbodies

From the written and oral interventions made, certain adjustments on the Management Plan were made, which are related to the following issues:

- ✓ Classification of surface waterbodies status
- ✓ Drinking water demand
- ✓ Financial analysis issues
- ✓ Issues on the protection of water abstraction localities related to human consumption
- ✓ Integration of drought an climate change issues in the RBMP
- ✓ Indivudial issues in relation to certain pressure categories

The consultation process was designed and implemented based on the Directive regulations, that include a series of actions to ensure that both the public and competent bodies will have access to all the information available, aiming to their active participation with regards the 1st Revision of the River Basin Management Plan of the RBD. The main conclusions arose are:

- Satisfying participation of the Public Administration bodies
- Satisfying participation of the public and of NGO's
- High degree of environmental awareness with regards to water resources
- The consultation process is considered successful, since it highlighted all these points/problems/deficiencies that arose during the implication of the 1st RBMP of the Crete River-Basin District, it demonstrated the need for revision and it contributed to the final configuration of the 1st RBMP of the Crete River-Basin District.

In summary, all the changes and additions included in the 1st RBMP are the result of the consultation process and are related to the following:

- Update of data presented on the Management Plan, according to the information available and/or highlights that were taken into consideration during the consultation. These data are mostly related to water abstraction issues, but are also related to water usages, pressures and the waterbodies status, the delimitation of certain coastal and surface waterbodies, etc.
- Reform of the final Measure Programme that includes:
 - The recast of specific measures in relation to the concretization/specialization of restrictions and actions related to them
 - The correction of the implementation bodies of the measures
 - The differentiation on the description of certain measures for the inclusion of actions that have been already programmed by the implementation bodies and/or the available funding tools
 - The inclusion of targeted complementary measures for the achievement of certain and locally significant management objectives, the increase of the current knowledge and the improvement of the environmental and the aquatic conditions.

The consultation process, along with the results summarized above, are extensively described in the Detailed Documentation Text "Evaluation report of the consultation results".

2 DIFFERENCES IN RELATION TO THE 1st RIVER BASIN MANAGEMENT PLAN

2.1 Main differences in relation to the 1st River Basin Management Plan

The 1st Revision has significant changes and improvements in comparison to the 1st RBMP:

- It is based on the data of the National Water Monitoring Network for the 2012-2015 period
- The 1st Revision is being drawn up at the same time as the Flood Risk Management Plans in accordance with Directive 2007/60 /EC and synergy of actions and of programme of measures has being accomplished
- It is being drawn up at the same time as the programmes of measures for the achievement of the good environmental status of the marine waters of the country in accordance with the Directive 2008/56/EC and synergy of actions and of programme of measures has being accomplished
- It takes into account the National Strategy for Adaptation to Climate Change and incorporated actions of the National Strategy for Adaptation to Climate Change into the programme of measures
- It takes into account the results of actions that have been implemented so far in the context of increasing knowledge of water status and pressures, as well as the actions implemented to fill in the gaps identified in the 1st Management Plan
- It takes into account the new requirements arising from the Directive 2000/60/EC Guidance Documents published be the EU.
- It takes into account the results of the European Commission's Special Report on the Evaluation of Management Plans which was implemented as part of the European Parliament's briefing on the implementation of the Directive and is available on the EU's website
- It takes into account the new analytical methodologies for critical aspects of the implementation of WFD:
 - Analysis of anthropogenic pressures and their impacts on surface water bodies and groundwater bodies
 - Determination and criteria for assessment of hydromorphological alterations
 - o Determination of Heavily Modified (HMWB) and Artificial (AWB) Water Bodies
 - Determination of the "exemptions" from the achievement of the environmental objectives of Directive 2000/60/EC:
 - Determination of the "exemptions" of paragraphs 4 to 6 of Article 4 of Directive 2000/60/EC (4.4 4.6)
 - Determination of the "exemptions" of paragraph 7 of Article 4 of Directive 2000/60/EC (4.7), concerning new modifications
 - Assessment (classification) of surface water bodies status:
 - Assessment of the ecological and chemical status of river water bodies
 - Assessment of the ecological and chemical status of lake water bodies
 - Assessment of the ecological and chemical status of coastal and transitional water bodies
- It takes into account the new analytical national assessment methodologies for individual biological quality elements (BQEs) for each surface water category that have been approved by

the EU in the context of the intercalibration exercise carried out at European level. These methodologies concern the following:

- Analytical methodologies for the assessment of biological quality elements in rivers.
- Analytical methodologies for the assessment of biological quality elements in lakes.
- Analytical methodologies for the assessment of the biological quality elements in coastal and transitional waters.

All the analytical methodologies, which are also Analytical Documentation Documents of the 1st Revision of the RBMP, are available on the relevant website of the Special Secretariat for Water (http://wfdver.ypeka.gr/).

2.2 Record of the main differences

The following table summarizes the differences in each individual scope of the Revised RBMP in relation to the 1st RBMP, based on the previous paragraph and the obtained results.

Table 2-1Main differences of the 1st Revision in relation to the 1st RBMP

Scope of 1 st Revision /Activity	Differences in relation to the 1 st RBMP
COMPETENT AUTHORITIES	The competent authorities are not different from the 1 st RBMP. In the Revision, the inventory of key authorities / stakeholders involved in Water Management as outlined in the existing institutional framework is rationalized and presented based on the requirements of the new Guidance Document for reporting to EU (GD Reporting 2016).
DETERMINATION OF SURFACE WATER BODIES - TYPOLOGY	During the Revision, a new typology is being developed for river and lake WBs. Also, reservoirs are reported as River Heavily Modified WBs, but for their typology and classification the elements and tools for the lake WBs has been used, as lake WBs are the category of natural surface water bodies to which reservoirs are the most similar. Based on the above, the number of SWBs is reviewed. During the revision, the SWBs codes were modified. The GR at the beginning of the codes becomes EL for compatibility reasons with the EU databases.
DETERMINATION OF GROUNDWATER BODIES	The number of GWBs is reviewed based on the latest data from the NMWN and / or individual specific studies that have been implemented since the approval of the 1 st RBMP to date. During the revision, the GWBs codes were modified. The GR at the beginning of the codes becomes EL for compatibility reasons with the EU databases.
HEAVILY MODIFIED WATER BODIES (HMWBs) AND ARTIFICIAL WATER BODIES (AWBs)	Heavily Modified Water Bodies determined in the 1 st RBMP are reviewed on the basis of the new methodology that has been established and the data from the NMWN.
PROTECTED AREAS	The Register of Protected Areas from the 1 st RBMP, is revised based on: The new Natura 2000 sites proposed by the Greek Ministry of Environment and Energy based on the provisions of the Birds Directive (2009/147/EC) and Habitats Directive (92/43/EEC) The results of the Monitoring Program of Bathing Waters and the provisions of the Bathing Waters Directive (2006/7/EC) Other directives on water protection with stricter objectives such as the Drinking Water Directive (80/778/EEC, as amended by Directive 98/83/EC), the Directive for shellfish (2006/113/EC), the Directive for freshwater fish (2006/44 / EC), the Directive for protection from pollution caused by nitrates (91/676/EEC) and the Directive for urban waste water treatment (91/271/EEC). Newer data emerged from the approval of the 1 st RBMP and the relevant EU Guidance Documents.
PRESSURES AND IMPACTS	The assessment of pressures and impacts in the Revision is carried out on the basis of the new common methodology developed and the newer data from the approval of the 1 st RBMP. A significant difference is the assessment of the pressures on the hydromorphological characteristics of the Water Bodies for which a specific and analytical methodological approach has been developed.

Scope of 1 st Revision /Activity	Differences in relation to the 1 st RBMP
CLASSIFICATION OF SURFACE WATER BODIES' STATUS	 In the Revision, the classification of surface WBs' status is based on: the new methodological approaches developed by the National Scientific Committee of the SSW to determine the methods for classifying the ecological status of all categories of surface water bodies and adopted by the EU the data of the Monitoring Network of water bodies' status. For WBs that are not monitored, the classification of their status was performed by grouping based on their typology and pressures.
CLASSIFICATION OF GROUNDWATER BODIES' STATUS	The methodology for the classification of GWBs' status is not different from the 1 st RBMP. The classification of GWBs is based on the newest data of the NMWN
MONITORING NETWORK FOR WATER BODIES' STATUS	The Revision in relation to the 1 st RBMP includes the results of the NMWN with a larger number of samples for the 2012 - 2015 period for almost all Biological Quality Elements, Physico-chemical and Chemical Quality Elements as well as the hydromorphological quality elements of surface WBs. It also includes measurements of both the qualitative and the quantitative status of the GWBs
ECONOMIC ANALYSIS OF WATER USES	 The economic analysis of the water uses is based on the provisions of the new JMD 135275/22.05.17 "Adoption of general rules for costing and pricing of water services. Method and procedures for the recovery of the cost of water services in its various uses " the methodological tools resulted from the SSW project "Consultant on technical support and assistance of SSW in matters of organization, management and costing of water services"
ENVIRONMENTAL OBJECTIVES - EXCEPTIONS	During the Revision, the environmental objectives and exemptions were based on new methodological approaches developed in accordance with EU guidelines
PROGRAM OF MEASURES	 The Programme of Measures in this Revision of the RBMP includes the following new approaches in relation to the 1st RBMP: The specialization /restatement of the 1st RBMP measures, which are continuing in this Management Cycle The formulation of new measures to address the pressures on the WBs and the achievement of the objectives set. The correlation of measures with specific significant pressures identified in the RBD. The correlation of measures with Key Type Measures as defined by the EU and specific indicators to monitor their implementation progress. The correlation of measures with national actions to adapt to climate change as set out in the National Climate Change Adaptation Strategy (Greek Ministry of Environment and Energy, 2016)

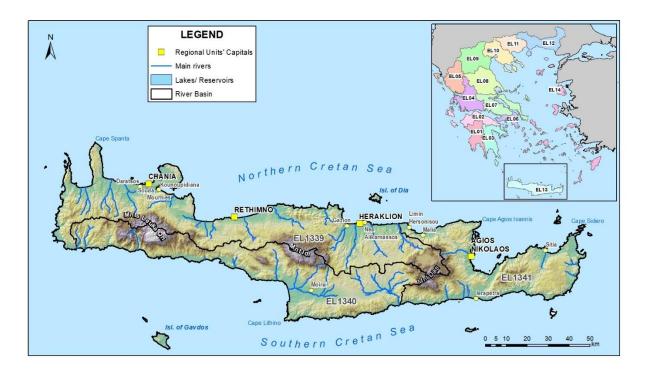
3 DESCRIPTION OF THE RIVER BASIN DISTRICT - COMPETENT AUTHORITIES

3.1 River Basins

The **Crete River Basin District** is the 13th of the 14 River Basin Districts of the Country, has the Code EL13 and consists of three (3) River Basins, which, according to the No 706/2010 Decision of the National Water Committee (GG 1383/B/2010), are the River Basin Rematon Voreiou Tmimatos Chanion-Rethymnou-Irakleiou (EL1339), the River Basin Rematon Notiou Tmimatos Chanion-Rethymnou-Irakleiou (EL1340) and the River Basin Rematon Anatolikis Kritis (EL1341)

	RB Name	Area	Elevation (m)		
RB Code		(km²)	Mean	Maximum	Minimum
EL1339	Northern Part of the Chania-Rethymno- Irakleio Streams	3.643,75	438,92	2.452,09	0
EL1340	Shouthern Part of the Chania- Rethymno-Irakleio Streams	2.798,03	475,15	2448,02	0
EL1341	Eastern Crete Streams	1.885,36	346,73	2122,66	0
EL13	River Basin District of Crete (EL13)	8.327,10	480,51	2.452,09	0

Table 3-1 River Basins of Crete RBD (EL13)



Map 3-1 Crete River Basin District (EL13) and River Basins

3.2 Competent Authorities

The competent authorities for the protection and management of water resources are defined by Law 3199/2003 (GG 280/A/2003), as amended and in force, for the Protection and Management of Water Resources, which harmonizes the National Law with the provisions of the WFD,. The competent authorities are:

The **National Water Committee**, is defined as the high level interministerial body and has the responsibility of policymaking for the management and protection of water resources of the country and consists of the Ministers of:

- a) Environment and Energy, as President,
- b) Infrastructure and Transport
- c) Economy
- d) Economy and Development
- e) Interior
- f) Health
- g) Rural Development and Food
- h) Administrative Reconstruction

In the Committee other Ministers may participate, after invitation of the President, if issues of their responsibilities are discussed, while the Minister of Foreign Affairs participates when issues regarding transboundary water bodies are discussed.

The **National Water Council**, delivers opinions to the National Water Committee for national programs related to the protection and management of the water resources of the country, while takes note of the Yearly Report, which the National Water Committee submits, regarding the status of water environment of the country, the implementation of the legislation for the protection and management of water resources, as well as the compatibility of Union's acquis. It consists of 26 members (parties and bodies representatives) and the Minister of Environment and Energy. The National Water Council is convened from its President at least once a year.

The **Special Secretariat for Water**, which has the responsibility of the implementation of the Programs for Protection and Management of Water resources of the country and the coordination of agencies and national bodies for each issue regarding the protection and management of water resources. The Secretariat, in collaboration with the Water Directorate of the Decentralized Administrations, sets up the national programmes for the protection and management of the water resources of the country and monitors and coordinates their implementation.

Official Name	Special Secretariat for Water		
Abbreviation	SSW		
Legal status	Single Administrative Division of the Ministry of Environment and Energy		
Provisions for its Creation and Definition of Competencies	 Law 3199/2003 (GG 280/A/2003) for the Protection and Management of Water Resources, as amended and in force, specially by Law 4117/2013 (GG 29/A/2013) and Law 4315/2014 (GG 269/A/2014) Presidential Decree 132/2017 (GG 160/A/2017) "Organization of the Ministry of Environment and Energy" in combination with the JMD 322/2013 "Organization of the Special Secretariat for Water of the Ministry of Environment, Energy and Climate Change" (GG B' 679), as in force. 		
Contact info			
Postal address	17 Amaliados st.		
Postal Code	11523		
City	Athens		
Country	Greece		
Webpage	http://www.ypeka.gr/ http://wfdver.ypeka.gr		
Telephone, e-mail	Tel. 210 6475102, 213 1515410 e-mail: info.egy@prv.ypeka.gr		

Table 3-2	Identity of the National Competent Authority
-----------	--

Additionally, on implementation issues of the WFD, the following Ministries are engaged: Ministry of Foreign Affairs, Ministry of Rural Development and Food, Ministry of Infrastructure and Transport, Ministry of Economy and Development, Ministry of Health, Ministry of Maritime Affairs and Island Policy, Ministry of Interior.

At a regional level, the competent authorities are:

The **Water Council of the Decentralized Administrations**, which, according to Article 6 of Law 3199/2003, as amended by Article 53 of Law 4423 (GG 182/A/2016), is established in each Decentralized Administration as an instrument for social dialogue and consultation on water protection and management issues. In case that the River Basin Management Plan is implemented by the Decentralized Administration, the Water Council of the Decentralized Administration is consulted before the approval of the Management Plan and advices Secretary General of the Decentralized Administration [or otherwise the Coordinator of Decentralized Administration, according to article 28 of Law 4325/2015 (GG 47/A/2015)] on every issue of water protection and management that he/she submits. Also, in this case, the Water Council of the Decentralized Administration, before issuing its opinion to the Management Plan, shall make it available, in order for the public to be informed of its content and participate in the consultation about it, within a deadline set by the Water Council.

The **Water Directorates of the Decentralized Administrations**, through which the Decentralized Administration's responsibilities for the protection and management of water are exercised.

Following the reorganization of the local administration authorities as a result of the administrative reforms of the "Kallikratis" plan, the Water Directorates of the former State Regions are now subordinated to the respective Decentralized Administrations. The Decentralized Administration of

Crete, which is responsible for all the RBs of Crete RBD (EL13), includes a Water Directorate, the Water Directorate of Crete. The Water Directorate is responsible for the protection and management of the waters in the Region of Crete and exercises the powers conferred on the Decentralized Administration in accordance with the current legislation.

	Decentralized Administration of Crete, Water Directorate of Crete
Official Name	
Abbreviation	WDC
Legal status	Organic Unit of the Decentralized Administration of Crete Falls under the General Directorate of Spatial and Environmental Policy
Provisions for its Creation and Definition of Competencies	 Law 3199/2003 (GG 280/A/2003) for the Protection and Management of Water Resources, as amended and in force, specially by Law 4117/2013 (GG 29/A/2013) and Law 4315/2014 (GG 269/A/2014). Law 3852/2010 (GG 87/A/2010) Kallikratis Plan, as in force. Presidential Decree 51/2007 for the definition of measures and processes for the complete protection and water management, according to the Directive 2000/60/EC. Presidential Decree 136 (GG 229/A/2010) "Organization of the Decentralized Administration of Crete". Decision of the National Water Committee 706/2010 (GG B' 1383/2-9-2010 "Definition of the River Basins of the country and of the competent Regions for their management and protection" and GG B' 1572/28-9-2010 correction of Annex II), as in force after the approval of the individual River Basin Management Plan of the country's River Basin Districts
Contact info	
Postal address	Kountourioti Square, 71202, Heraclion, Crete, Greece
Webpage	http://www.apdkritis.gov.gr/
Telephone, e-mail	Tel. 2813 404136 fax: 2813-404198
	e-mail:ydata@apdkritis.gov.gr e-mail: m.kritsotakis@apdkritis.gov.gr

 Table 3-3
 Identity of the Regional Competent Authority

In addition, Local Administration Authorities of Level A and B are involved in issues regarding the implementation of the WFD.

The table that follows provides a better image of the nature of the role of each competent authority per thematic object, in the frame of water management and protection.

	implica	ation					implication							
						Ro	les							
Authority	Pressure and impact analysis	Financial Analysis	Surface waterbodies monitoring	Ground waterbodies monitoring	Status assessment of surface waterbodies	Status assessment of ground waterbodies	RBMP instruction	MP instruction	Measurement implication	Participation of the public	Regulation enforcement	Implication coordination	Data submission to the EC	
Special Secretariat for Water of the Ministry of Environment & Energy	М	м	М	М	М	м	м	М	М	Μ	М	М	Μ	
Water Directorate of the Decentralized Administration	0	0	-	-	-	-	0	0	М	м	Μ	м	-	
Ministry of Foreign Affairs	-	-	-	-	-	-	-	-	ο	-	м	-	-	
Ministry of Rural Development & Food	-	-	-	-	-	-	-	-	м	-	ο	-	-	
Ministry of Infrastructure & Transport	-	-	-	-	-	-	-	-	М	-	0	-	-	
Ministry of Finance & Development	-	-	-	-	-	-	-	-	М	-	0	-	-	
Ministry of Health	-	-	-	-	-	-	-	-	М	-	0	-	-	
Ministry of Shipping & Island Policy	-	-	-	-	-	-	-	-	Μ	-	ο	-	-	
Ministry of Interior	-	-	-	-	-	-	-	-	М	-	0	-	-	
Municipalities	-	-	-	-	-	-	-	-	M	0	-	-	-	
Regions	-	-	-	-	-	-	-	-	М	0	0	-	-	

Table 3-4Degree of involvement of the competent authorities in relation to the Directive 2000/60/ECimplication

М	Main Role
0	Other Role
-	No Role

The competent authorities in a national, regional and local level are presented in the figure that follows.

Ministry of Environment and Energy, Special Secretariat for Water

1st Revision of the Management Plan of Crete River Basin District (EL 13)

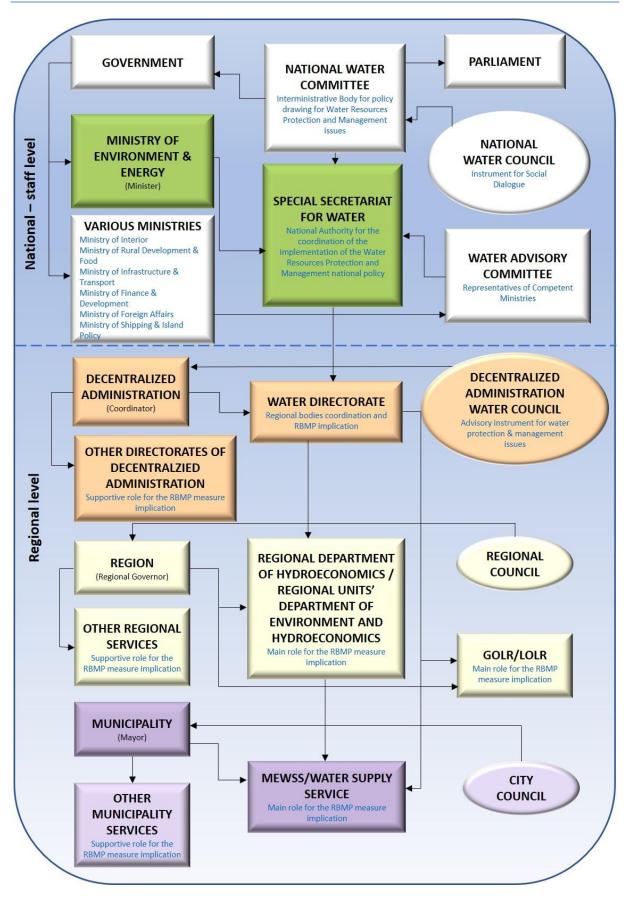


Figure 3-1 National, regional and local competent authorities

4 IDENTIFICATION OF WATER BODIES

4.1 Surface Water Bodies

Under the 1st Revision of the RBMP, a total of one hundred and fifty-three (153) surface water bodies were identified.

WB Type	RB EL1339	RB EL1340	RB EL1341	TOTAL RBD
River WBs*	63	44	16	123
Lake WBs	1	0	0	1
Transitional WBs	4	0	0	4
Coastal WBs	10	6	9	25
Total WBs	78	50	25	153

Table 4-1 Number of surface water bodies per River Basin of Crete RBD (EL13)

*Reservoirs included

The surface water bodies identified are presented to the following tables.

Table 4-2New typology, according to European Decision 2013/480 / EC and MED GIG, for River WBs
(not reservoirs) of Crete RBD (EL13)

No	WB Name	WB Code	Cate- gory	Length (km)	Immediate River Basin (km²)	Cumulative River Basin (km²)	Mean Annual Runoff (hm ³)	Туре
	RB o	f the Northern Part of the	e Chania-I	Rethymno	-Irakleio Strea	ms (EL1339)		
1	TSIHLIANOS	EL1339R000101001N	NAT.	9,07	32,12	32,12	2,23	R-M5
2	GIFLOS	EL1339R000201003N	NAT.	8,68	27,63	27,63	2,56	R-M1
3	GIFLOS	EL1339R000201058N	NAT.	6,04	11,08	77,71	6,55	R-M5
4	GIFLOS	EL1339R000202104N	NAT.	3,2	4,59	39	3,16	R-M1
5	GIFLOS	EL1339R000202205N	NAT.	5,9	34,41	34,41	2,77	R-M1
6	TAVRONITIS	EL1339R000301006N	NAT.	3,94	7,43	130,85	23,86	R-M5
7	TAVRONITIS	EL1339R000301007N	NAT.	4,1	15,3	52,01	16,22	R-M5
8	TAVRONITIS	EL1339R000301008N	NAT.	6,72	28,43	28,43	6,5	R-M1
9	TAVRONITIS	EL1339R000301057N	NAT.	1,68	2,1	49,91	14,87	R-M1
10	TAVRONITIS	EL1339R000302009N	NAT.	9,01	21,48	21,48	8,17	R-M1
11	TAVRONITIS	EL1339R000303110N	NAT.	17,8	56,12	56,12	7,11	R-M1
12	KERITIS	EL1339R000401011N	NAT.	4,29	17,03	180,26	84,94	R-M2
13	KERITIS	EL1339R000401012H	HMW B	1,9	2,79	17,92	67,2	R-M1
14	KERITIS	EL1339R000401114N	NAT.	10,99	80,26	145,32	16,53	R-M2
15	KERITIS	EL1339R000401115N	NAT.	2,41	65,05	65,05	8,27	R-M4
16	KERITIS	EL1339R000402013N	NAT.	2,25	15,12	15,12	67	R-M1
17	KOILIARIS	EL1339R000501016N	NAT.	0,85	2,61	130,94	12,76	R-M2
18	KOILIARIS	EL1339R000501017N	NAT.	3,9	61,64	61,64	6,62	R-M5
19	KOILIARIS	EL1339R000501059N	NAT.	1,42	10,16	128,33	12,58	R-M2
20	KOILIARIS	EL1339R000501060N	NAT.	0,56	0,48	118,17	11,84	R-M2

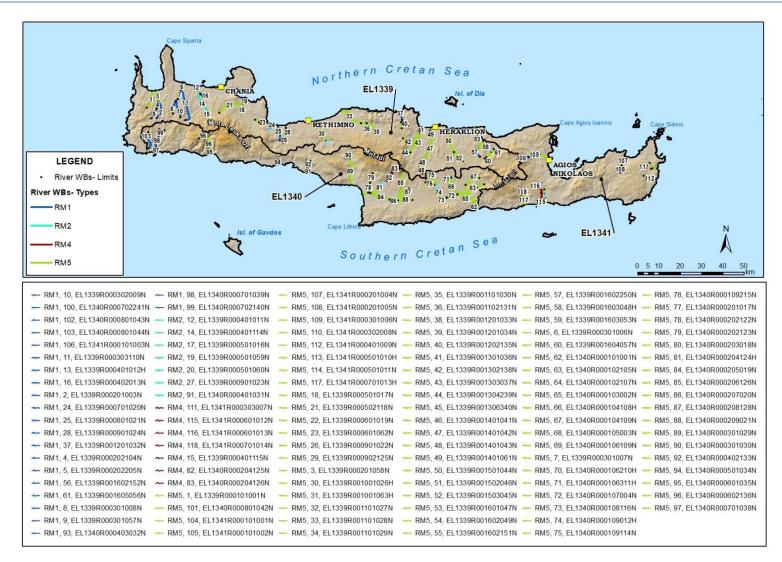
No	WB Name	WB Code	Cate- gory	Length (km)	Immediate River Basin (km²)	Cumulative River Basin (km²)	Mean Annual Runoff	Туре
21	KOILIARIS	EL1339R000502118N	NAT.	14,25	56,06	56,06	(hm³) 5,18	R-M5
21	ALMIROS	LL1339R000302118N	NAT.	14,23	50,00	50,00	5,10	
22	CHANION	EL1339R000601019N	NAT.	2,57	112,46	112,46	14,87	R-M5
23	ALMIROS CHANION	EL1339R000601062N	NAT.	4,33	26,48	138,94	18,04	R-M5
24	KOURNIOTIS	EL1339R000701020N	NAT.	2,97	9,17	18,22	2,03	R-M1
25	MOYSELAS	EL1339R000801021N	NAT.	7,43	49,31	49,31	4,96	R-M1
26	PETRES	EL1339R000901022N	NAT.	1,19	1,2	127,24	9,84	R-M5
27	PETRES	EL1339R000901023N	NAT.	1,76	4,63	126,04	9,74	R-M2
28	PETRES	EL1339R000901024N	NAT.	2,28	79,16	79,16	5,8	R-M1
29	PETRES	EL1339R000902125N	NAT.	6,81	42,25	42,25	3,56	R-M5
30	SFAKORIAKO	EL1339R001001026H	HMW B	10,66	42,85	103,61	17,84	R-M5
31	SFAKORIAKO	EL1339R001001063H	HMW B	1,93	18,32	121,94	19,2	R-M5
32	MILOPOTAMOS	EL1339R001101027N	NAT.	7,45	36,06	375,26	44,04	R-M5
33	MILOPOTAMOS	EL1339R001101028N	NAT.	9,96	135,96	339,21	40,58	R-M5
34	MILOPOTAMOS	EL1339R001101029N	NAT.	2,95	5,99	203,25	24,88	R-M5
35	MILOPOTAMOS	EL1339R001101030N	NAT.	8,94	96,3	96,3	10,59	R-M5
36	MILOPOTAMOS	EL1339R001102131N	NAT.	3,49	100,96	100,96	13,64	R-M5
37	FODELE	EL1339R001201032N	NAT.	4,21	13,02	44,3	3,58	R-M1
38	FODELE	EL1339R001201033N	NAT.	1,12	1,23	31,28	2,56	R-M5
39	FODELE	EL1339R001201034N	NAT.	4,35	21,64	21,64	1,82	R-M5
40	FODELE	EL1339R001202135N	NAT.	4,4	8,41	8,41	0,65	R-M5
41	GAZANOS	EL1339R001301036N	NAT.	3,02	22,74	182,17	6,87	R-M5
42	GAZANOS	EL1339R001302138N	NAT.	13,39	74,52	74,52	2,66	R-M5
43	GAZANOS	EL1339R001303037N	NAT.	12,29	27,97	84,91	3,54	R-M5
44	GAZANOS	EL1339R001304239N	NAT.	3,23	10,54	10,54	0,44	R-M5
45	GAZANOS	EL1339R001306340N	NAT.	1,67	46,39	46,39	2,14	R-M5
46	GIOFIROS	EL1339R001401041N	NAT.	1,7	6,95	189,76	26,63	R-M5
47	GIOFIROS	EL1339R001401042N	NAT.	17,31	103,91	170,85	25,55	R-M5
48	GIOFIROS	EL1339R001401043N	NAT.	6,34	66,93	66,93	10,92	R-M5
49	GIOFIROS	EL1339R001401061N	NAT.	3,1	11,96	182,81	26,27	R-M5
50	KARTEROS	EL1339R001501044N	NAT.	13,87	62,65	191,61	13,51	R-M5
51	KARTEROS	EL1339R001502046N	NAT.	4,76	55,02	55,02	, 3,71	R-M5
52	KARTEROS	EL1339R001503045N	NAT.	6,67	73,93	73,93	, 5,77	R-M5
53	APOSELEMIS	EL1339R001601047N	NAT.	8,42	14,73	122,19	15,39	R-M5
54	APOSELEMIS	EL1339R001602049N	NAT.	4,63	15,94	30,56	2,4	R-M5
55	APOSELEMIS	EL1339R001602151N	NAT.	2,1	1,27	6,57	0,53	R-M5
56	APOSELEMIS	EL1339R001602152N	NAT.	2,29	5,3	5,3	0,43	R-M1
57	APOSELEMIS	EL1339R001602250N	NAT.	2,62	8,05	8,05	0,6	R-M5
58	APOSELEMIS	EL1339R001603048H	HMW B	5,75	17,56	76,91	12,04	R-M5
59	APOSELEMIS	EL1339R001603053N	NAT.	3,52	19,63	21,2	3,34	R-M5
60	APOSELEMIS	EL1339R001604057N	NAT.	7,62	16,31	16,31	9,73	R-M5
61	APOSELEMIS	EL1339R001605056N	NAT.	1,63	1,57	1,57	0,26	R-M1
		f the Southern Part of the						

							Mean	
	M/D Nomo	W/P Code	Cate-	Length	Immediate	Cumulative	Annual	Turne
No	WB Name	WB Code	gory	(km)	River Basin (km ²)	River Basin (km ²)	Runoff	Туре
					(кт)	(кт)	(hm³)	
62	ANAPODARIS	EL1340R000101001N	NAT.	9,63	31,36	517,4	31,55	R-M5
63	ANAPODARIS	EL1340R000102105N	NAT.	9,3	17,32	93,75	2,47	R-M5
64	ANAPODARIS	EL1340R000102107N	NAT.	4,29	76,43	76,43	2,17	R-M5
65	ANAPODARIS	EL1340R000103002N	NAT.	1,8	1,94	392,29	27,68	R-M5
66	ANAPODARIS	EL1340R000104108H	HMW B	7,89	19,07	103,78	1,82	R-M5
67	ANAPODARIS	EL1340R000104109N	NAT.	9,65	84,71	84,71	1,49	R-M5
68	ANAPODARIS	EL1340R000105003N	NAT.	6,92	25,55	286,57	25,83	R-M5
69	ANAPODARIS	EL1340R000106109N	NAT.	7,36	18,81	54,41	3,47	R-M5
70	ANAPODARIS	EL1340R000106210H	HMW B	4,73	18,35	18,35	1,22	R-M5
71	ANAPODARIS	EL1340R000106311H	HMW B	4,41	17,25	17,25	1,16	R-M5
72	ANAPODARIS	EL1340R000107004N	NAT.	7,57	50,53	206,61	21,1	R-M5
73	ANAPODARIS	EL1340R000108116N	NAT.	3,4	61,75	61,75	3,59	R-M5
74	ANAPODARIS	EL1340R000109012H	HMW B	8,48	15,54	79,42	13,58	R-M5
75	ANAPODARIS	EL1340R000109114N	NAT.	7,47	25,29	25,28	4,56	R-M5
76	ANAPODARIS	EL1340R000109215N	NAT.	4,8	18,31	18,31	3,17	R-M5
77	GEROPOTAMOS	EL1340R000201017N	NAT.	3,68	15,21	578,39	45,51	R-M5
78	GEROPOTAMOS	EL1340R000202122N	NAT.	5,21	12,82	44,11	4,22	R-M5
79	GEROPOTAMOS	EL1340R000202123N	NAT.	5,56	31,28	31,28	3,27	R-M5
80	GEROPOTAMOS	EL1340R000203018N	NAT.	1,03	16,55	519,07	40,55	R-M5
81	GEROPOTAMOS	EL1340R000204124H	HMW B	7,1	13,19	103,6	9,88	R-M5
82	GEROPOTAMOS	EL1340R000204125N	NAT.	6,13	52,21	81,67	8,45	R-M4
83	GEROPOTAMOS	EL1340R000204126N	NAT.	6,49	29,46	29,46	3,05	R-M4
84	GEROPOTAMOS	EL1340R000205019N	NAT.	11,69	87,61	398,91	29,69	R-M5
85	GEROPOTAMOS	EL1340R000206126N	NAT.	16,94	44,77	44,77	7,02	R-M5
86	GEROPOTAMOS	EL1340R000207020N	NAT.	4,54	50,53	311,3	24,59	R-M5
87	GEROPOTAMOS	EL1340R000208128N	NAT.	8,8	26,98	26,98	1,96	R-M5
88	GEROPOTAMOS	EL1340R000209021N	NAT.	8,68	189,03	189,03	12,55	R-M5
89	PLATIS	EL1340R000301029N	NAT.	15,16	153,81	207,85	45,84	R-M5
90	PLATIS	EL1340R000301030N	NAT.	3,25	54,04	54,04	14,3	R-M5
91	KOYRTALIOTIS	EL1340R000401031N	NAT.	2,6	4,15	108,69	8,09	R-M2
92	KOYRTALIOTIS	EL1340R000402133N	NAT.	3,87	44,31	44,31	3,51	R-M5
93	KOYRTALIOTIS	EL1340R000403032N	NAT.	2,74	60,24	60,24	4,3	R-M1
94	RODAKINO	EL1340R000501034N	NAT.	1,86	10,22	10,22	0,81	R-M5
95	SAMARIAS FARAGGI	EL1340R000601035N	NAT.	2,22	5,27	51,2	6,52	R-M5
96	SAMARIAS FARAGGI	EL1340R000602136N	NAT.	13,55	45,92	45,92	5,85	R-M5
97	KAKODIKIANOS	EL1340R000701038N	NAT.	2,62	3,57	77,63	14,46	R-M5
98	KAKODIKIANOS	EL1340R000701039N	NAT.	9,01	21,41	74,06	14,09	R-M1
99	KAKODIKIANOS	EL1340R000702140N	NAT.	2,84	34,94	34,94	7,62	R-M1
100	KAKODIKIANOS	EL1340R000702241N	NAT.	2,43	17,71	17,71	3,26	R-M1
101	PELEKANIOTIS	EL1340R000801042N	NAT.	2,39	2,97	40,72	2,69	R-M5
102	PELEKANIOTIS	EL1340R000801043N	NAT.	6,09	17,19	37,75	2,54	R-M1

No	WB Name	WB Code	Cate- gory	Length (km)	Immediate River Basin (km²)	Cumulative River Basin (km²)	Mean Annual Runoff (hm ³)	Туре
103	PELEKANIOTIS	EL1340R000801044N	NAT.	3,65	20,56	20,56	1,46	R-M1
		RB of the Eas	stern Cret	e Streams	s (EL1341)			
104	ALMIROS LASITHIOU	EL1341R000101001N	NAT.	6,47	9,68	115,1	10,21	R-M5
105	ALMIROS LASITHIOU	EL1341R000101002N	NAT.	7,61	68,12	105,41	9,5	R-M5
106	ALMIROS LASITHIOU	EL1341R000101003N	NAT.	6,49	37,29	37,29	3,87	R-M1
107	PENTELIS	EL1341R000201004N	NAT.	5,11	59,3	126,88	10,96	R-M5
108	PENTELIS	EL1341R000201005N	NAT.	3,9	67,57	67,57	7,23	R-M5
109	HOHLAKIAS	EL1341R000301006N	NAT.	2,69	3,73	21,17	1,24	R-M5
110	HOHLAKIAS	EL1341R000302008N	NAT.	3,02	7,01	7,01	0,4	R-M5
111	HOHLAKIAS	EL1341R000303007N	NAT.	4,87	10,44	10,44	0,62	R-M4
112	ZAKROU FARAGGI	EL1341R000401009N	NAT.	7,22	49,53	49,53	3,14	R-M5
113	BRAMIANOS	EL1341R000501010H	HMW B	2,47	2,78	29,17	2,3	R-M5
114	BRAMIANOS	EL1341R000501011N	NAT.	2,41	16,67	16,67	1,3	R-M5
115	KALAMAFKIANO S	EL1341R000601012N	NAT.	4,95	9,91	35,03	6,8	R-M4
116	KALAMAFKIANO S	EL1341R000601013N	NAT.	6,01	25,12	25,12	4,2	R-M4
117	MIRTOS	EL1341R000701013H	HMW B	5,73	26,3	95,35	11,81	R-M5
118	MIRTOS	EL1341R000701014N	NAT.	2,81	69,05	69,05	6,9	R-M4

NAT.: Natural WB, HMWB: Heavily Modified WB



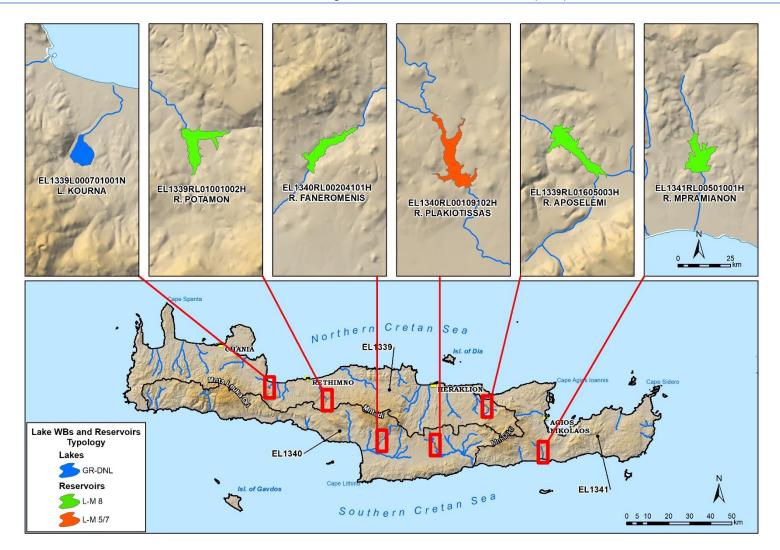


Map 4-1 River WBs identified in Crete RBD (EL13) and typology

No	WB Name	WB Code	Category	Area (km²)	Perimeter (km)	Туре		
	RB of the Nort	thern Part of the Chania-R	ethymno-Irakl	eio Streams	(EL1339)			
1	L. KOURNA	EL3901L000701001N	NAT.	0,72	3,7	GR-DNL		
2	R. POTAMON	EL1339RL01001002H	HMWB	1,12	9,70	L-M 8		
3	R. APOSELEMI	EL1339RL01605003H	HMWB	1,23	11,71	L-M 8		
	RB of the Sout	thern Part of the Chania-R	ethymno-Irakl	eio Streams	(EL1340)			
4	R. PLAKIOTISSAS	EL1340RL00109102H	HMWB	1,52	14,91	L-M5/7		
5	R. FANEROMENIS	EL1340RL00204101H	HMWB	0,86	7,99	L-M 8		
	RB of the Eastern Crete Streams (EL1341)							
6	R. MPRAMIANON	EL1341RL00501001H	HMWB	0,98	8,44	L-M 8		

Table 4-3 Lake WBs and River HMWBs of lake type (reservoirs) of Crete RBD (EL13)

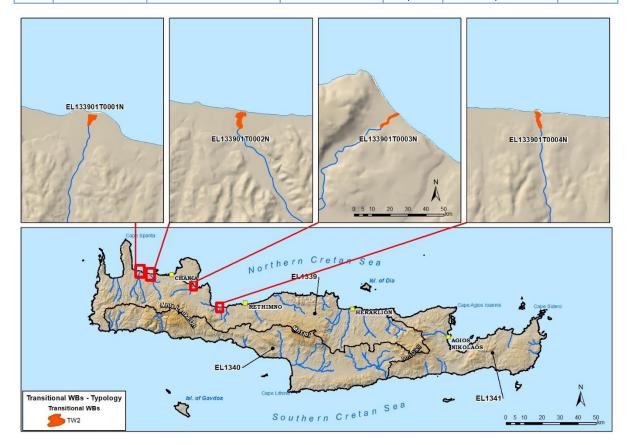
NAT.: Natural WB, HMWB: Heavily Modified WB



Map 4-2 Lake WBs and River HMWBs of lake type (reservoirs) of Crete RBD (EL13)

No	WB Name			Area (km²)	Perimeter (km)	Туре		
RB of the Northern Part of the Chania-Rethymno-Irakleio Streams (EL1339)								
1	TAYRONITIS	EL133901T0001N	NAT.	0,05	1,09	TW2		
2	KERITIS	EL133901T0002N	NAT.	0,08	1,88	TW2		
3	KOILIARIS	EL133901T0003N	NAT.	0,02	1,24	TW2		
4	MOUSELAS	EL133901T0004N	NAT.	0,03	1,01	TW2		

 Table 4-4
 Transitional WBs of Crete RBD (EL13)



Map 4-3 Transitional WBs of Crete RBD (EL13)

Table 4-5Coastal WBs of Crete RBD (EL13)

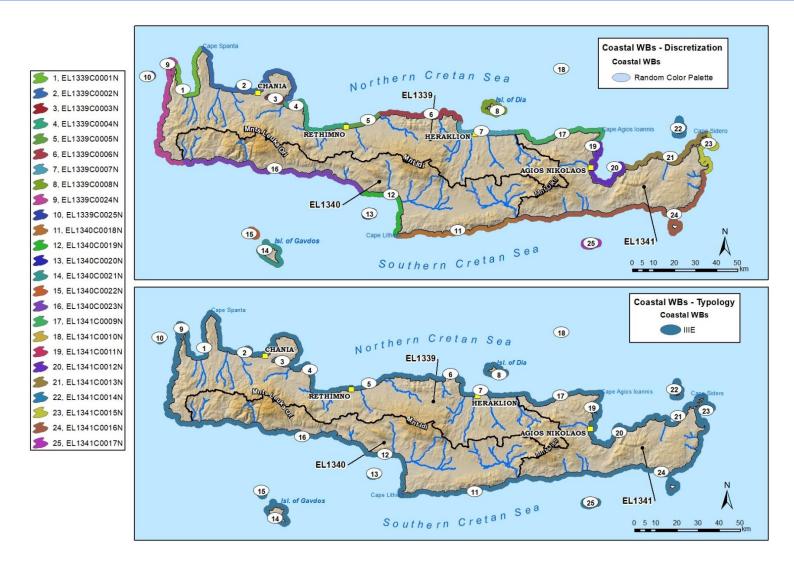
No	WB Name	WB Code	Category	Area (km²)	Perimeter (km)	Туре				
	RB of the Northern Part of the Chania-Rethymno-Irakleio Streams (EL1339)									
1	AKTES KOLPOU KISSAMOU	EL1339C0001N	NAT.	87,22	117,08	IIIE				
2	AKTES KOLPOU CHANION	EL1339C0002N	NAT.	165,13	219,10	IIIE				
3	ORMOS SOUDAS	EL1339C0003N	NAT.	23,20	37,20	IIIE				
4	ORMOS ALMYROU	EL1339C0004N	NAT.	87,12	118,12	IIIE				
5	AKTES RETHYMNOU	EL1339C0005N	NAT.	31,72	43,47	IIIE				
6	AKTES MPALI-FODELE	EL1339C0006N	NAT.	93,49	145,88	IIIE				
7	AKTES KOLPOU IRAKLEIOU	EL1339C0007N	NAT.	63,82	88,76	IIIE				
8	NISOS DIAS	EL1339C0008N	NAT.	57,54	64,16	IIIE				
9	AKTES STO NOTIO KRITIKO PELAGOS	EL1339C0024N	NAT.	152.22						
9	PELAGOS-VVD KRITI	EL1339C0024N	INAT.	153,33	232,91	IIIE				
10	MISOS GRAMVOUSA	EL1339C0025N	NAT.	15,77	17,09	IIIE				

Ministry of Environment and Energy, Special Secretariat for Water

No	WB Name	WB Code	Category	Area (km²)	Perimeter (km)	Туре
RB of the Southern Part of the Chania-Rethymno-Irakleio Streams (EL1340)						
11	AKTES NOTIOU KRITIKOU PELAGOUS - ASTEROUSIA	EL1340C0018N	NAT.	120,38	174,46	IIIE
12	AKTES KOLPOU MESSARAS	EL1340C0019N	NAT.	70,84	100,23	IIIE
13	NISI PAXIMADIA	EL1340C0020N	NAT.	25,92	29,42	IIIE
14	NISOS GAYDOS	EL1340C0021N	NAT.	70,09	86,00	IIIE
15	NISOS GAYDOPOULA	EL1340C0022N	NAT.	23,87	30,31	IIIE
16	AKTES STO NOTIO KRITIKO PELAGOS – CHANIA/RETHYMNO	EL1340C0023N	NAT.	188,44	266,88	IIIE
	RB of the Eastern Crete Streams (EL1341)					
17	KOLPOS MALION	EL1341C0009N	NAT.	100,67	136,78	IIIE
18	NISOS AVGO	EL1341C0010N	NAT.	12,28	13,28	IIIE
19	ORMOS ELOUNTAS	EL1341C0011N	NAT.	6,08	18,59	IIIE
20	KOLPOS AG. NIKOLAOU	EL1341C0012N	NAT.	106,76	143,81	IIIE
21	AKTES SITEIAS	EL1341C0013N	NAT.	112,35	164,71	IIIE
22	AKTES DIONYSIADON	EL1341C0014N	NAT.	48,03	52,88	IIIE
23	AKTES STO NOTIO KRITIKO PELAGOS- BAA KRITI	EL1341C0015N	NAT.	75,84	104,05	IIIE
24	AKTES NOTIOU KRITIKOU PELAGOUS - LASITHI	EL1341C0016N	NAT.	246,99	317,67	IIIE
25	AKTES NISOU CHRYSI	EL1341C0017N	NAT.	36,75	44,92	IIIE

1^{st} Revision of the Management Plan of Crete River Basin District (EL 13)





Map 4-4 Coastal WBs of Crete RBD (EL13)

4.2 Groundwater Bodies

Under the 1st Revision of the RBMP, the originally identified GWBs were reviewed. The RBD of Crete (EL13) consists of **91 identified GWB's** and are presented on the table that follows.

No	GWB Name	GWB Code	Area (km²)			
	RB of the Northern Part of the Chania-Rethymno-Irakleio Streams (EL1339)					
1	KARSTIKO TOPOLION	EL1300011	97,10			
2	KARSTIKO SFINARIOU	EL1300012	6,80			
3	PORODES KISSAMOU	EL1300021	38,09			
4	PORODES KAMPOU CHANION	EL1300022	278,39			
5	PORODES APOKORONOU	EL1300023	122,96			
6	KARSTIKO VD LEYKON OREON (AGIAS)	EL1300031	122,83			
7	KARSTIKO VOREION LEYKON OREON (STYLOU-ARMENON)	EL1300032	93,16			
8	KARSTIKO VA LEYKON OREON (KOURNA-GEORGIOUPOLIS)	EL1300033	125,00			
9	KARSTIKO GEORGIOUPOLIS	EL1300035	1,97			
10	KARSTIKO ARMENON-MALAKIOU- MOUNTROU-ARGYROUPOLIS	EL1300041	40,83			
11	KARSTIKO PARAKTIO GERANIOU	EL1300044	14,95			
12	PORODES VD RETHYMNOU	EL1300051	101,26			
	PORODES VA PARAKTIOU RETHYMNOU (KAMPOU RETHYMNOU-					
13	PRINOU-PERAMATOS)	EL1300052	48,22			
14	PORODES VA RETHYMNOU	EL1300053	137,10			
15	PORODES KENTRIKOU RETHYMNO	EL1300054	123,99			
16	KARSTIKO TALAION	EL1300061	83,40			
17	KARSTIKO VD. PSILOREITI	EL1300062	173,43			
18	KARSTIKO VA. PSILOREITI	EL1300063	217,91			
19	KARSTIKO KERIS-TYLISSOU	EL1300064	8,27			
20	PORODES VOREIO-KENTRIKIS LEKANIS IRAKLEIOU	EL1300071	434,67			
21	PORODES PARAKTIO VOREIOU IRAKLEIOU	EL1300072	108,45			
22	PORODES KASTELIOU	EL1300101	25,05			
23	KARSTIKO CHRYSOSKALITISSAS	EL1300172	14,84			
24	ROGMODES CHANION	EL1300190	581,17			
25	PORODES CHRYSOSKALITISSAS	EL1300200	27,56			
26	PORODES OROPEDIOU LASITHIOU	EL1300231	27,01			
27	ROGMODES PSILOREITI	EL1300250	295,20			
28	KARSTIKO GIOUCHTA	EL1300301	3,88			
29	KARSTIKO KAINOURGIOU CHORIOU-SMARIOU	EL1300311	69,10			
30	KARSTIKO PARAKTIO IRAKLEIOU-GOUVON-CHERSONISOU	EL1300312	56,86			
31	KARSTIKO PARAKTIO GRAMVOUSAS	EL1300321	25,53			
32	KARSTIKO PARAKTIO SPATHAS (RODOPOU)	EL1300322	78,35			
33	KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)	EL1300323	69,13			
34	KARSTIKO PARAKTIO APOKORONA	EL1300324	30,00			
	RB of the Southern Part of the Chania-Rethymno-Irakleio	Streams (EL1340)			
35	KARSTIKO NOTION LEYKON OREON	EL1300034	480,73			
36	KARSTIKO KALLIKRATI-ASIDEROTA	EL1300042	93,10			
37	KARSTIKO KEDROU	EL1300043	72,66			
38	PORODES NOTIOU RETHYMNOU	EL1300055	49,37			
39	KARSTIKO NA. PSILOREITI	EL1300065	167,41			
40	PORODES TYMPAKIOU	EL1300081	28,69			

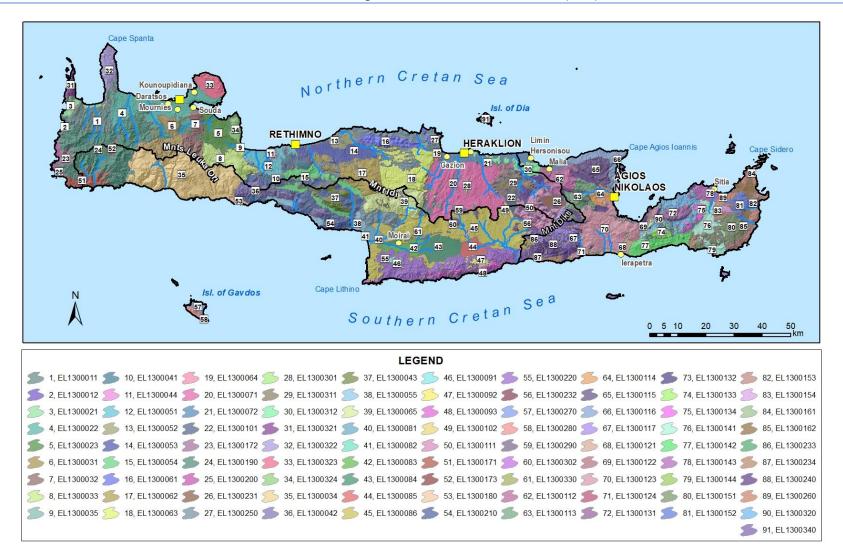
 Table 4-6
 Ground Waterbodies of Crete RBD (EL13)

No	GWB Name	GWB Code	Area (km²)
41	PORODES PARAKTIO TYMPAKIOU	EL1300082	6,35
42	PORODES MOIRON	EL1300083	55,89
43	PORODES GALIAS-VAGIONIAS-ASIMIOU	EL1300084	115,63
44	PORODES MESOCHORIOU	EL1300085	50,99
45	PORODES MESARAS-NOTIOU IRAKLEIOU	EL1300086	508,00
46	KARSTIKO POMPIAS-ALITHINIS	EL1300091	12,79
47	KARSTIKO PYRGOU-CHARAKA-FOURNOFARAGGOU	EL1300092	20,82
48	KARSTIKO PARAKTIO ASTEROUSION	EL1300093	69,63
49	PORODES ROUSOCHORION	EL1300102	9,67
50	KARSTIKO DYTIKIS DIKTIS	EL1300111	109,67
51	KARSTIKO PALAIOCHORAS	EL1300171	62,24
52	KARSTIKO KANTANOU	EL1300173	10,79
53	PORODES FRAGKOKASTELOU	EL1300180	11,12
54	ROGMODES RETHYMNOU	EL1300210	307,54
55	ROGMODES ASTEROUSION	EL1300220	281,43
56	PORODES EMPAROU-PANAGIAS	EL1300232	8,00
57	PORODES GAYDOU	EL1300270	17,03
58	KARSTIKO GAYDOU	EL1300280	15,46
59	ROGMODES GIOUCHTAS-OXY KEFALI (DAMANION - LARANIOU)	EL1300290	30,95
60	KARSTIKO DAMANION-LARANIOU	EL1300302	2,08
61	KARSTIKO GYPSON KRITIS	EL1300330	17,71
_	RB of the Eastern Crete Streams (EL1341)	1	,
62	KARSTIKO MALION-SELENAS	EL1300112	92,20
63	KARSTIKO VA. DIKTIS	EL1300113	86,73
64	KARSTIKO LAKONION-ALMYROU AG. NIKOLAOU	EL1300114	43,45
65	KARSTIKO FOURNIS-ELOUNTAS	EL1300115	80,96
66	KARSTIKO PARAKTIO SISIOU-MILATOU-ELOUNTAS	EL1300116	88,72
67	KARSTIKO ANATOLIKIS-NOTIAS DIKTIS	EL1300117	116,37
68	PORODES IERAPETRAS-KENTRIOU	EL1300121	27,74
69	PORODES PACHEIAS AMMOU-KALOU CHORIOU	EL1300122	27,00
70	PORODES IERAPETRAS-KALOU CHORIOU	EL1300123	260,24
71	PORODES MYRTOU	EL1300124	2,51
72	KARSTIKO ORNOU	EL1300131	51,87
73	KARSTIKO PARAKTIO MALAYRAS-PACHEIAS AMMOU	EL1300132	15,24
74	KARSTIKO THRYPTIS	EL1300133	35,40
75	KARSTIKO PEYKON - MARONIAS	EL1300134	28,92
76	PORODES SITEIAS-PAPAGIANNADON-AGIAS TRIADAS	EL1300141	94,25
77	PORODES KOUTSOURA-MAKRYGIALOU	EL1300142	94,40
78	PORODES SKOPIS-SITEIAS	EL1300143	51,83
79	PORODES GOUDOURA	EL1300144	2,34
80	KARSTIKO OREON ZAKROU	EL1300151	93,30
81	KARSTIKO VA. APOLIXEON OREON ZAKROU	EL1300152	44,28
82	KARSTIKO PARAKTIO ANATOLIKON APOLIXEON OREON ZAKROU	EL1300153	71,69
83	KARSTIKO OREON PIGIS ZOU	EL1300154	15,59
84	PORODES FOINIKODASOUS VAI	EL1300161	1,66
85	PORODES MONIS TOPLOU-PALAIKASTROU-XIROKAMPOU	EL1300162	63,67
86	PORODES ANO VIANNOU	EL1300233	0,98
87	POROUS KERATOKAMPOU-ARVIS	EL1300234	17,84
88	ROGMODES DIKTIS	EL1300240	271,23
89	ROGMODES OREON ZAKROU	EL1300260	78,00
90	ROGMODES ORNOU-THRYPTIS	EL1300320	125,65

Ministry of Environment and Energy, Special Secretariat for Water

1^{st} Revision of the Management Plan of Crete River Basin District (EL 13)

No	GWB Name	GWB Code	Area (km²)
91	NISIDES KRITIS	EL1300340	43,61



Map 4-5 Groundwater bodies of Crete RBD (EL13)

4.3 Heavily Modified Water Bodies (HMWB) and Artificial Water Bodies (AWB)

Applying the HMWB and AWB identification methodology to Crete RBD, **18 HMWBs (5 Reservoirs and 13 River WBs) were originally identified**. **Finally, 16 HMWBs (5 Reservoirs and 11 River WBs) were identified** in a total of **153 SWBs**. No Lake, Transitional or Coastal WBs were identified as HMWBs and no AWBs were identified.

	н	MWBs		AWBs	
WB Туре	WBs No	Area- Length Coverage (%)	WBs No	Area- Length Coverage (%)	
Lake WBs	0	0%	0	0%	
River WBs (no reservoirs)	11	9,2%	0	0%	
Reservoirs (River HMWBs)	5	100%	0	0%	
Transitional WBs	0	0%	0	0%	
Coastal WBs	0	0%	0	0%	

Table 4-7 Summary data for HMWBs in Crete RBD (EL13)

The water bodies which were finally identified as Heavily Modified are presented below for every River Basin of Crete RBD (EL13).

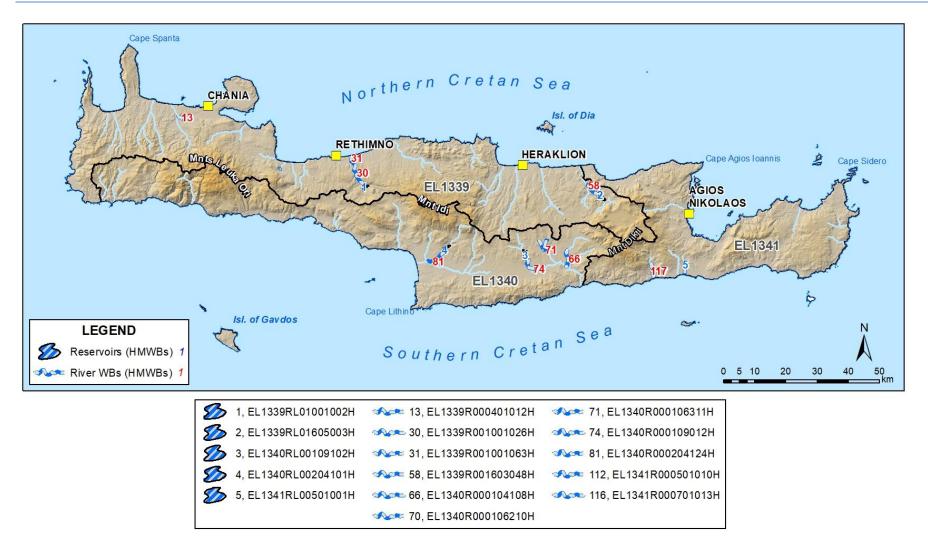
Table 4-8 Heavily Modified WBs of Crete RBD (EL13)

HMWB Code	HMWB Name	Туре	Length/ Area (km/km²)	Designated Use
RB of	the Northern Part of	the Chani	a-Rethymno-Irak	leio Streams (EL1339)
EL1339R000401012H	KERITIS	R-M1	1,90	Irrigation
EL1339RL01001002H	R. POTAMON	L-M 8	1,12	Irrigation, Public water supply
EL1339R001001026H	SFAKORIAKO	R-M5	10,66	Irrigation, Public water supply (from the upstream reservoir R. POTAMON)
EL1339R001001063H	SFAKORIAKO	R-M5	1,93	Irrigation, Public water supply (from the upstream reservoir R. POTAMON)
EL1339RL01605003H	R. APOSELEMI	L-M 8	1,23	Public water sypply
EL1339R001603048H	APOSELEMIS	R-M5	5,75	Public water supply from the upstream reservoir R. APOSELEMI
RB of	the Southern Part of	f the Chani	a-Rethymno-Irak	leio Streams (EL1340)
EL1340R000104108H	ANAPODARIS	R-M5	7,89	Irrigation (diversion to the Iniou dam), flood protection
EL1340R000106210H	ANAPODARIS	R-M5	4,73	Irrigation from the upstream reservoir Partiron
EL1340R000106311H	ANAPODARIS	R-M5	4,41	Irrigation from the upstream reservoir Amourgelon
EL1340RL00109102H	R. PLAKIOTISSAS	L-M5/7	1,52	Irrigation

Ministry of Environment and Energy, Special Secretariat for Water

HMWB Code	HMWB Name	Туре	Length/ Area (km/km²)	Designated Use
EL1340R000109012H	ANAPODARIS	R-M5	8,48	Irrigation from the upstream reservoir R. PLAKIOTISSAS (the operation of the irrigation network has not yet started)
EL1340RL00204101H	R. FANEROMENIS	L-M 8	0,86	Irrigation
EL1340R000204124H	GEROPOTAMOS	R-M5	7,10	Irrigation from the upstream reservoir R. FANEROMENIS
	RB of the	Eastern C	rete Streams (EL1	341)
EL1341RL00501001H	R. MPRAMIANON	L-M 8	0,98	Irrigation, Public water sypply
EL1341R000501010H	BRAMIANOS	R-M5	2,47	Irrigation, Public water supply from the upstream reservoir R. MPRAMIANON
EL1341R000701013H	MIRTOS	R-M5	5,73	Irrigation – Water transfer to reservoir R. MPRAMIANON

1st Revision of the Management Plan of Crete River Basin District (EL 13)



Map 4-6 Heavily Modified WBs of Crete RBD (EL13)

4.4 Protected Areas

According to the Article 6 of the Directive 2000/60/EC, Member States have to ensure the establishment of a register of all areas lying within each river basin district which have been designated as requiring special protection under specific Community legislation for the protection of their surface water and groundwater or for the conservation of habitats and species directly depending on water.

This register (Register of Protected Areas- RPA), includes all the water bodies which are identified by Annex V of Presidential Decree 51/2007.

The Register of Protected Areas includes, according to the Annex V of Presidential Decree 51/2007 the following types of protected areas:

Areas designated for the abstraction of water intended for human consumption, according to Article 7 of Presidential Decree 51/2007 (Article 7 of the Directive 2000/60/EC):

No	Area Code	Category	WB code	WB Name		
1	EL1300280A7	GWB	EL1300280	KARSTIKO GAYDOU		
2	EL1300093A7	GWB	EL1300093	KARSTIKO PARAKTIO ASTEROUSION		
3	EL1300092A7	GWB	EL1300092	KARSTIKO PYRGOU-CHARAKA- FOURNOFARAGGOU		
4	EL1300091A7	GWB	EL1300091	KARSTIKO POMPIAS-ALITHINIS		
5	EL1300117A7	GWB	EL1300117	KARSTIKO ANATOLIKIS-NOTIAS DIKTIS		
6	EL1300133A7	GWB	EL1300133	KARSTIKO THRYPTIS		
7	EL1300111A7	GWB	EL1300111	KARSTIKO DYTIKIS DIKTIS		
8	EL1300151A7	GWB	EL1300151	KARSTIKO OREON ZAKROU		
9	EL1300132A7	GWB	EL1300132	KARSTIKO PARAKTIO MALAYRAS- PACHEIAS AMMOU		
10	EL1300134A7	GWB	EL1300134	KARSTIKO PEYKON - MARONIAS		
11	EL1300302A7	GWB	EL1300302	KARSTIKO DAMANION-LARANIOU		
12	EL1300113A7	GWB	EL1300113	KARSTIKO VA. DIKTIS		
13	EL1300154A7	GWB	EL1300154	KARSTIKO OREON PIGIS ZOU		
14	EL1300152A7	GWB	EL1300152	KARSTIKO VA. APOLIXEON OREON ZAKROU		
15	EL1300131A7	GWB	EL1300131	KARSTIKO ORNOU		
16	EL1300311A7	GWB	EL1300311	KARSTIKO KAINOURGIOU CHORIOU- SMARIOU		
17	EL1300114A7	GWB	EL1300114	KARSTIKO LAKONION-ALMYROU AG. NIKOLAOU		
18	EL1300301A7	GWB	EL1300301	KARSTIKO GIOUCHTA		
19	EL1300043A7	GWB	EL1300043	KARSTIKO KEDROU		
20	EL1300042A7	GWB	EL1300042	KARSTIKO KALLIKRATI-ASIDEROTA		
21	EL1300312A7	GWB	EL1300312	KARSTIKO PARAKTIO IRAKLEIOU- GOUVON-CHERSONISOU		
22	EL1300112A7	GWB	EL1300112	KARSTIKO MALION-SELENAS		
23	EL1300115A7	GWB	EL1300115	KARSTIKO FOURNIS-ELOUNTAS		
24	EL1300062A7	GWB	EL1300062	KARSTIKO VD. PSILOREITI		
25	EL1300064A7	GWB	EL1300064	KARSTIKO KERIS-TYLISSOU		

Table 4-9 Areas designated for the abstraction of water intended for human consumption

Ministry of Environment and Energy, Special Secretariat for Water

1st Revision of the Management Plan of Crete River Basin District (EL 13)

No	Area Code	Category	WB code	WB Name		
26	EL1300063A7	GWB	EL1300063	KARSTIKO VA. PSILOREITI		
27	EL1300172A7	GWB	EL1300172	KARSTIKO CHRYSOSKALITISSAS		
28	EL1300116A7	GWB	EL1300116	KARSTIKO PARAKTIO SISIOU-MILATOU- ELOUNTAS		
29	EL1300034A7	GWB	EL1300034	KARSTIKO NOTION LEYKON OREON		
30	EL1300035A7	GWB	EL1300035	KARSTIKO GEORGIOUPOLIS		
31	EL1300033A7	GWB	EL1300033	KARSTIKO VA. LEYKON OREON (KOURNA- GEORGIOUPOLIS)		
32	EL1300324A7	GWB	EL1300324	KARSTIKO PARAKTIO APOKORONA		
33	EL1300011A7	GWB	EL1300011	KARSTIKO TOPOLION		
34	EL1300032A7	GWB	EL1300032	KARSTIKO VOREION LEYKON OREON (STYLOU-ARMENON)		
35	EL1300323A7	GWB	EL1300323	KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)		
36	EL1300340A7	GWB	EL1300340	NISIDES KRITIS		
37	EL1300171A7	GWB	EL1300171	KARSTIKO PALAIOCHORAS		
38	EL1300031A7	GWB	EL1300031	KARSTIKO VD. LEYKON OREON (AGIAS)		
39	EL1300322A7	GWB	EL1300322	KARSTIKO PARAKTIO SPATHAS (RODOPOU)		
40	EL1300321A7	GWB	EL1300321	KARSTIKO PARAKTIO GRAMVOUSAS		
41	EL1300012A7	GWB	EL1300012	KARSTIKO SFINARIOU		
42	EL1300173A7	GWB	EL1300173	KARSTIKO KANTANOU		
43	EL1300044A7	GWB	EL1300044	COASTAL GERANI KARST		
44	EL1300041A7	GWB	EL1300041	KARSTIKO ARMENON-MALAKIOU- MOUNTROU-ARGYROUPOLIS		
45	EL1300065A7	GWB	EL1300065	KARSTIKO NA. PSILOREITI		
46	EL1300061A7	GWB	EL1300061	KARSTIKO TALAION		
47	EL1339R000302009NA7	River WB	EL1339R000302009N	TAVRONITIS		
48	EL1339R000201003NA7	River WB	EL1339R000201003N	GIFLOS		
49	EL1339RL01001002HA7	River HMWB	EL1339RL01001002H	R. POTAMON		
50	EL1339RL01605003HA7	River HMWB	EL1339RL01605003H	R. APOSELEMI		
51	EL1341RL00501001HA7	River HMWB	EL1341RL00501001H	R. MPRAMIANON		
52	EL1339L000701001NA7	Lake WB	EL1339L000701001N	L. KOURNA		



Map 4-7 WBs designated for the abstraction of water intended for human consumption (Article 7 of Directive 2000/60 / EC) of Crete RBD (EL13)

Water Bodies designated as recreational waters including areas designated as bathing waters:

According to the Bathing Water Register (SSW, 2016) at Crete RBD (EL13) 157 bathing water areas were designated in 2016 at 18 Coastal WBs.

According to the Monitoring Program (2015), from the 157 bathing water areas, 156 were of excellent quality and 1 (area" Damnoni") was of at least sufficient quality.

With regardS to inland recreational waters, there are no designated recreational activities in the Crete RBD (EL13) and therefore no recreational waters are identified in both the 1st RBMP and this 1st Revision.



Map 4-8 Bathing waters of Crete RBD (EL13)

Nutrient-sensitive areas, including areas designated as vulnerable zones and areas designated as sensitive areas

Table 4-10Vulnerable Zones and WBs which are or may be subjected to Nitrates

	WBs v	vhich are or may be subjec	cted to Nitrates		
Vulnerable Zone Name	WB Code	WB Name	WB Category	RB	
Area of Geropotamos sub- basin, Messara, Crete EL1340NI01	EL1300083	PORODES MOIRON	GWB	EL1340	
Area of lerapetra EL1341NI02	EL1300121	PORODES IERAPETRAS- KENTRIOU	GWB	EL1341	

In the RBD there no areas designated as sensitive areas under Directive 91/271/EEC and no new ones are proposed in this Revision.



 1^{st} Revision of the Management Plan of Crete River Basin District (EL 13)



Areas designated for the protection of habitats or species where the maintenance or improvement of the status of water is an important factor in their protection, including relevant Natura 2000 sites.

At Crete RBD (EL13), from the 53 Natura 2000 sites, **36 sites** are finally included at the Register of Protected Areas (those for which the analytical methodology applied in the Analytical Documentation Document "Register of Protected Areas Revision" demonstrated to exhibit habitats or/ and species for which the protection and improvement of the status of water is an important factor in their protection). From the 36 sites, 26 are SAC sites, 9 are SPA sites and one is both SAC and SPA site. In three SAC sites, the recent modifications of the Natura 2000 sites were included. The rest (new or modifications of existing sites) related to proposed Sites of Community Importance (SCI) have not been included in this 1st Revision of the RBMP, as their adoption should be preceded by a biogeographical seminar and is a decision to be taken at European level.

The aforementioned Natura 2000 sites for the Crete RBD (EL13), are presented to Map 4-10 below.

Also, 69 small island wetlands are identified in Crete RBD (EL13), which were identified and protected under the Presidential Decree: "Adoption of a list of small island wetlands and setting conditions and restrictions for the protection and promotion of the small coastal wetlands included in it" (GG 229 / Issue of Forced Expropriations and Urban Issues / 2012). These wetlands have been integrated into the Register of Protected Areas and are maintained in this Revision (**Map 4 11**).

Ministry of Environment and Energy, Special Secretariat for Water 1^{st} Revision of the Management Plan of Crete River Basin District (EL 13)



Map 4-10 Areas designated for the protection of habitats or species of Crete RBD (EL13) – Areas of Natura 2000 Network



Map 4-11 Areas designated for the protection of habitats or species of Crete RBD (EL13) – Small island wetlands

Areas designated for the protection of economically significant aquatic species

At Crete RBD (EL13) there are no areas designated for the protection of economically significant aquatic species and no new ones are proposed in this revision.

5 PRESSURES AND IMPACTS

Anthropogenic pressures on waterbodies are defined as the amount of all human activities that do influence or could influence any waterbodies present in the area. These pressures are characterized as significant, since they threaten the WB's in relation to not achieving their environmental goals, according to the No 03 Guidance Document of the EU.

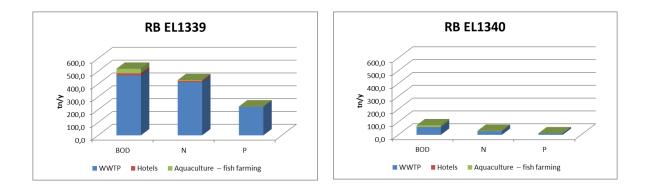
The sections following are presenting data and results of the anthropogenic pressure analysis conducted, during the 1st Revision of the RBMP's.

5.1 Point sources of pollution

All point sources of pollution that produce conventional pollutants (BOD, N, P) are included. The list with the pressure categories includes:

- Waste Water Treatment Plants (WWTP)
- Extrusion of sewage networks into a natural recipient
- Large hotels
- Industrial units
- Livestock facilities
- Aquaculture fish farming
- Leaks from Uncontrolled Waste Dumping Sites and Landfill Sites

From the above sources of pollution (where these appear or where sufficient data were found for their estimation), the annual surface pollution loads of BOD, N and P produced in the study area were derived. Pollutants produced by livestock units were treated as diffuse pressures and are taken into account in the corresponding section of this chapter.



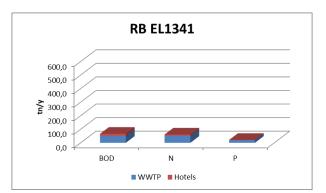


Chart 5-1 Total annual loads of BOD, N and P produced in RBs of Crete RBD (EL13) from point sources of pollution

Table 5-1
 Total annual loads of BOD, N and P produced in RBs of Crete RBD (EL13) from point sources of pollution

Point sources of pollution	BOD (tn/year)	N (tn/year)	P (tn/year)				
RB of the Northern Part of the	e Chania-Rethymno-Irakle	eio Streams (EL1339))				
Waste Water Treatment Plants (WWTP)	467,5	415,1	222,9				
Large hotels	16,3	9,8	1,3				
Aquaculture – fish farming	35,5	5,9	1,1				
TOTAL	519,3	430,8	225,3				
RB of the Southern Part of the Chania-Rethymno-Irakleio Streams (EL1340)							
Waste Water Treatment Plants (WWTP)	60,5	28,2	11,3				
Large hotels	0,6	0,4	-				
Aquaculture – fish farming	13,3	2,7	0,5				
TOTAL	74,4	31,3	11,7				
RB of the Eas	stern Crete Streams (EL13	341)					
Waste Water Treatment Plants (WWTP)	51,0	51,9	20,0				
Large hotels	15,3	9,2	1,2				
Aquaculture – fish farming	-	-	-				
TOTAL	66,3	61,1	21,2				
TOTAL RBD	660,0	523,2	258,2				

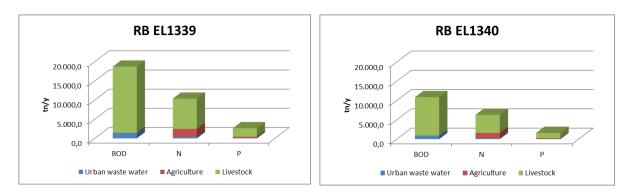
5.2 Diffuse sources of pollution

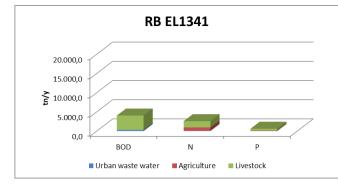
This section includes all diffuse sources of pollution that produce conventional pollutants (BOD, N, P). The list of categories of these pressures includes:

- Agriculture
- Urban waste water that do not end up in WWTPs
- Livestock (pastoral and sheltered)
- Other sources

From the above sources of pollution, the final annual surface pollution loads BOD, N and P produced in the study area were derived. Pollutants produced by livestock farms, although they are point sources of pollution, are counted in the diffuse sources and are taken into account in this section.

The total annual pollution loads of the sources mentioned above are presented on the chart and table that follow.





- Chart 5-2 Total annual loads of BOD, N and P produced in RBs of Crete RBD (EL13) from diffuse sources of pollution
- Table 5-2Total annual loads of BOD, N and P produced in RBs of Crete RBD (EL13) from diffuse sources
of pollution

Diffuse sources of pollution	BOD (tn/year)	N (tn/year)	P (tn/year)				
RB of the Northern F	Part of the Chania-Rethymno-	Irakleio Streams (EL1	339)				
Urban waste water	1.449,8	414,2	86,3				
Agriculture	-	2.066,2	346,2				
Livestock	17.270,6	7.883,9	2.218,5				
Other sources	-	931,6	90,2				
TOTAL	18.720,3	11.295,9	2.741,1				
RB of the Southern Part of the Chania-Rethymno-Irakleio Streams (EL1340)							
Urban waste water	910,6	260,2	54,2				
Agriculture	-	1.353,4	230,4				
Livestock	9.964,1	4.694,8	1.330,2				
Other sources	-	762,6	71,5				
TOTAL	10.874,7	7.071,0	1.686,3				
RB	of the Eastern Crete Streams	(EL1341)					
Urban waste water	302,1	86,3	18,0				
Agriculture	-	855,7	135,1				
Livestock	3.734,5	1.631,1	456,2				
Other sources	-	547,8	52,6				
TOTAL	4.036,6	3.120,9	661,9				
TOTAL RBD	33.631,6	21.487,8	5.089,4				

5.3 Hydromorphological pressures

5.3.1 Pressures related to Hydromorphology

In paragraph 4.3, projects that have caused hydromorphological alterations in surface water bodies resulting in their designation as Heavily Modified Water Bodies were presented per River Basin

5.3.2 Sand and gravel extraction

Sand and gravel extraction is the extraction of riverside sediments for the construction of technical works or for other purposes. Sand and gravel extraction, depending on the amount of sediments taken, can alter the geometric characteristics of the river bed and cause hydromorphological alterations of the particular water bodies.

There is no extensive sand and gravel extractions from river beds in Crete RBD(EL13).

5.4 Water abstraction

In the following table and chart, the total water abstraction for public water supply, irrigation, livestock and industry use are presented in the Crete RBD. From these data, it becomes clear that most of the water abstraction concerns irrigation, which accounts for 78% of the total water abstraction, followed by the public water supply reaching 21%. Livestock and industry account for only a small percentage of water abstraction (0,7% and 0,1% respectively).

Table 5-3 Water per use to Crete RB	3D (EL13)
-------------------------------------	-----------

78,10* 415,00** 4								
78,10* 415,00** 4,16 0,75								
* By the methodology applied in Chapter 5 of the Analytical Documentation "Analysis of anthropogenic pressures and their impacts on surface and ground water systems" is estimated at 127,65 million m ³ .								

** The theoretical (optimal) irrigation, as indicated by the cultivated land, amounts to 478,39 million m³.

Livestock Industry Public Water 0.68% 0.12% Supply 20.89% Irrigation 78.30%

1st Revision of the Management Plan of Crete River Basin District (EL 13)

Chart 5-3 Distribution of water needs per use for Crete RBD (EL13)

Demands for the various uses were described in Chapter 5 of the Analytical Documentation Document "Analysis of man-made pressures and their impacts on Surface water bodies and Groundwater bodies" amounting to 127,65 million m³. According to the methodology applied to this Analytical Documentation Document, for the estimation of the demand for the public water supply, a daily consumption per capita of 250 liters was used for the actual population together with the observed deficit and losses. Similarly, a daily consumption per night of 400 liters was used for the water demand of tourists. According to data from the Water Directorate of Crete, the aforementioned daily consumption already includes losses and therefore the water abstraction is estimated to be around 78.10 million m³.

According to the Licensing Registry of the Regulatory Authority for Energy (updated on March 2017), the current power generation licenses for hybrid power stations in Crete RBD (EL13) amount to 14 (<u>none of them is operational</u>). Hybrid stations (pumped storage) can be a pressure for water resources. However, detailed data are required to accurately assess their impact, which should be assessed in the light of Directive 2000/60/EC and the new methodology developed in the context of this revision "Identification of the "exceptions" of paragraph 7, Article 4 of Directive 2000/60/EC (4.7), on new modifications ".

5.5 Other pressures

Other pressures include:

- Runoff from mining activities (quarries, mines)
- Desalination units
- Harbors Marinas Navigation
- Artificial recharge of groundwater bodies

Runoff from mining activities (quarries, mines)

In most of the active quarries in the RBD there is aggregate extraction, most of which are located within quarry areas. The aggregates extracted include marble chips, marble dust, stones, etc.

In the industrial minerals quarries of the RBD, the extracted materials are mainly gypsum, clay and cement materials, flints etc. The largest industrial mines quarries concern surface gypsum quarries, with the most important in Stomio Vathis Bay (EL1339) and Altsi (EL1341).

The active quarries of marble and shale plaques generally occupy a small area, with the largest marble quarry located in Chordaki, Chania Cape (EL1339).

Desalination units

In Crete RBD (EL13), the largest desalination unit in operation are of MEWSS Maleviziou and of the company HYDROMINOIKI SA located in the Industrial Area of Heraklion. Both of these units are located within RB EL1339.

MEWSS Maleviziou operates a Desalination Unit (RO) with a capacity of 2,000 m³/day. The water is pumped from the boreholes of the area (GWB EL1300064 - KARSTIKO KERIS-TYLISSOU) and the waste is discharged into the sea (Coastal WB EL1339C0007N - AKTES KOLPOU IRAKLEIOU.)

The unit of HYDROMINOIKI SA operates with the reverse osmosis method and with a treatment capacity of 6.250 m³/day of raw water and produces 5.000 m³/day of drinking water. Raw material (raw brackish water) is pumped from boreholes in the Municipal unity of Alikarnassos (GWB EL1300072). The waste is directed through a borehole to the Groundwater body of the area (GWB EL1300072- PORODES PARAKTIO VOREIOU IRAKLEIOU).

Harbors - Marinas – Navigation

Along the coastline of Crete RBD, there are a number of port facilities, which mainly concern ports of local importance, fishing shelters and marinas. The main port system of Crete includes two ports of international interest, one port of national importance and two ports of major interest. The most port facilities are located on the coastline of RB EL1339, two ports of international interest, one National Port and a number of smaller port facilities. On the coastline of RB EL1340 a number of port facilities that concern ports of local importance is located. On the coastline of RB EL1341 there are a number of ports, marinas and fishing shelters and two ports of major Interest.

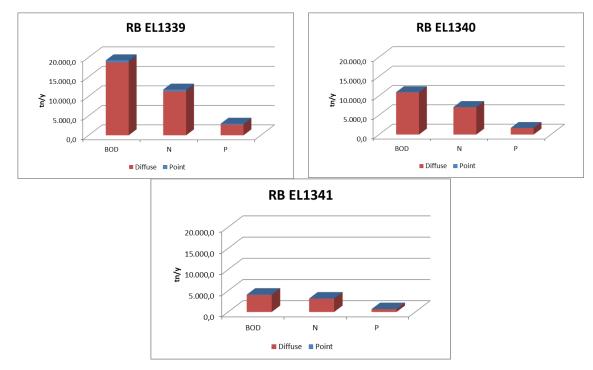
Artificial recharge of groundwater bodies

In the Crete RBD (EL13), several artificial recharge projects have been carried out, with the most important ones at the area of the western Messara plain and at the GWB PORODES MYRTOU (EL1300124). There are several small-scale projects scattered around the island that support the local aquifers.

Groundwater level and groundwater quantiy variation as a result of subsurface exploitation or major underground construction works

In the Crete RBD (EL13), no such works or activities are taking place that would lead to groundwater level and groundwater quantity variations.

5.6 Total pressures



From point and diffuse sources of pollution and the other pressures the total annual loads BOD, N and P produced in the study area were derived, as shown below.

- Chart 5-4 Total annual loads of BOD, N and P produced in RBs of Crete RBD (EL13) from point and diffuse sources of pollution
- Table 5-4Total annual loads of BOD, N and P produced in RBs of Crete RBD (EL13) from point and
diffuse sources of pollution

Sources of pollution	BOD (tn/year)	N (tn/year)	P (tn/year)			
RB of th	e Northern Part of the Chania	a-Rethymno-Irakleio Streams (EL1339)			
Point	519,29	430,75	225,29			
Diffuse	18720,31	11295,88	2741,12			
TOTAL	19.239,60	11.726,63	2.966,41			
RB of the Southern Part of the Chania-Rethymno-Irakleio Streams (EL1340)						
Point	74,40	31,31	11,71			
Diffuse	10874,68	7070,98	1686,31			
TOTAL	10.949,08	7.102,29	1.698,03			
	RB of the Eastern Cr	ete Streams (EL1341)				
Point	66,30	61,10	21,20			
Diffuse	4036,59	3120,90	661,93			
TOTAL	4.102,89	3.181,99	683,13			
TOTAL RBD	34.291,58	22.010,91	5.347,57			

5.7 Impact Assessment

5.7.1 Impact Assessment on Surface water bodies

For the impacts assessment and the characterization of WBs based on the probability of achieving the environmental objectives of the Directive, the following were assessed per water body:

- Pressure intensity from sources of pollution and abstractions: high (H), medium (M), low (L)
- The available data and the results of the monitoring program
- Expert judgment, when no data is available.

Taking into account the above criteria, the WBs were ranked by the probability of achieving the environmental objectives of the Directive. Summary data on the Impact Assessment is presented below.

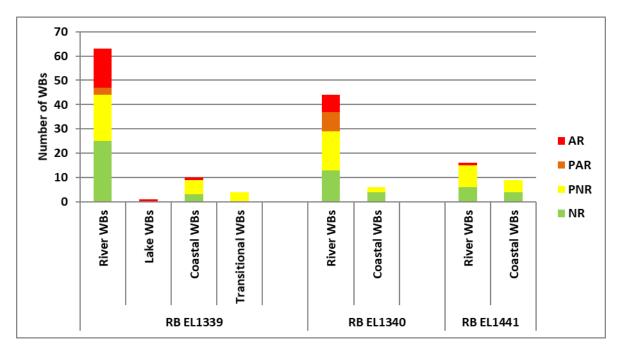


Chart 5-5 Risk assessment of non-achievement of surface water bodies objectives in RBs of Crete RBD (EL13)

Table 5-5Statistics for the risk assessment of non-achievement of surface water bodies objectives in
RBs of Crete RBD (EL13)

	Risk assessment categories*						TOTAL		
	Ν	NR PNR		NR	P	AR	A	IUIAL	
WB type	Number of WBs	Number of WBs (%)	Number of WBs	Number of WBs (%)	Number of WBs	Number of WBs (%)	Number of WBs	Number of WBs (%)	Number of WBs
	RB of the Northern Part of the Chania-Rethymno-Irakleio Streams (EL1339)								
River WBs	25	40%	19	30%	3	5%	16	25%	63
Lake WBs							1	100%	1
Coastal WBs	3	30%	6	60%			1	10%	10
Transitional WBs			4	100%					4
TOTAL	28	36%	29	37%	3	4%	18	23%	78

Ministry of Environment and Energy, Special Secretariat for Water

1st Revision of the Management Plan of Crete River Basin District (EL 13)

			Ris	sk assessme	nt categori	es*			TOTAL
	NR		P	PNR		PAR		R	TOTAL
WB type	Number of WBs	Number of WBs (%)	Number of WBs						
RB of the Southern Part of the Chania-Rethymno-Irakleio Streams (EL1340)									
River WBs	13	30%	16	36%	8	18%	7	16%	44
Coastal WBs	4	67%	2	33%					6
TOTAL	17	34%	18	36%	8	16%	7	14%	50
		RB	of the East	tern Crete S	treams (EL1	L 341)			
River WBs	6	38%	9	56%			1	6%	16
Coastal WBs	4	44%	5	56%					9
TOTAL	10	40%	14	56%	0	0%	1	4%	25

* For the assessment of the risk of failure to achieve the objectives, the following categories are distinguished: At Risk -AR, possibly at risk (PAR), possibly not at risk (PNR), not at risk (NR)

5.7.2 Impact Assessment on Groundwater bodies

In Crete RBD (EL13) were identified 91 GWBs, the status of which is presented below. Of these, 9 are in poor chemical status and 9 in poor quantitative status.

No	GWB Code	GWB Name	Quantitativ e status	Decline water levels tendency	Chemica I status	Quality problems	Pollutants tendency
		RB of the Northern Part of	the Chania-Ret	hymno-Irakle	eio Streams	(EL1339)	
1	EL1300011	KARSTIKO TOPOLION	Good	-	Good		-
2	EL1300012	KARSTIKO SFINARIOU	Good	-	Good		-
3	EL1300021	PORODES KISSAMOU	Good	-	Good	Local salinity intrusion	-
4	EL1300022	PORODES KAMPOU CHANION	Good	-	Good	Local nitrates presence	-
5	EL1300023	PORODES APOKORONOU	Good	-	Good		-
6	EL1300031	KARSTIKO VD. LEYKON OREON (AGIAS)	Good	-	Good		-
7	EL1300032	KARSTIKO VOREION LEYKON OREON (STYLOU-ARMENON)	Good	-	Good		-
8	EL1300033	KARSTIKO VA. LEYKON OREON (KOURNA- GEORGIOUPOLIS)	Good	-	Good		-
9	EL1300035	KARSTIKO GEORGIOUPOLIS	Good	-	Good		-
10	EL1300041	KARSTIKO ARMENON- MALAKIOU- MOUNTROU- ARGYROUPOLIS	Good	-	Good		-
11	EL1300044	KARSTIKO PARAKTIO GERANIOU	Good	-	Good		-

Table 5-6 Quantitative and chemical status of GWBs per RB at Crete RBD (EL13)

12 EL1300051 PORODES VD. RETHYMNOU Good - Good - 13 EL1300052 RETHYMNOU-PRINOU- RETHYMNOU-PRINOU- RETHYMNOU-PRINOU- RETHYMNOU Good - Good Intrusion - nitrates presence - 14 EL1300052 PORODES VA.RETHYMNOU Good - Good - - 15 EL1300054 PORODES VA.RETHYMNOU Good - Good - - 16 EL1300054 PORODES RETHYMNOU Good - Good - - 17 EL1300054 KARSTIKO VA.PSILOREITI Good - Good - - 19 EL1300064 KARSTIKO VA.PSILOREITI Good - Bood - - 20 EL1300071 PORODES VOREIO- KENTRIKIS LEKANIS Good - Bood - - 21 EL1300072 PORODES VOREIO- KENTRIKIS KENES Bood - Bood - - 22 EL1300071 PORODES VARTIKO KENTS Bood - Bood - 23 EL1300072 PORODES PARAKTIO Poor - Bood - - 24 EL1300011 PORODES RATTIKO Sood	No	GWB Code	GWB Name	Quantitativ e status	Decline water levels tendency	Chemica I status	Quality problems	Pollutants tendency
13EL130052PARATIOU RETHYMNOU (KAMPOU RETHYMNOU, PRINOU- PERAMATOS)Good-GoodLocal shinity intrusion - nitrates presence-14EL130053PORODES VA.RETHYMNOUGood-Good-Good-15EL130054RARTIKO TALAIONGood-Good16EL130065KARSTIKO TALAIONGood-Good17EL130066KARSTIKO TALAIONGood-Good18EL130066KARSTIKO VA.PSILOREITIGood-Good19EL130066KARSTIKO VA.PSILOREITIGood-Good20EL1300071KENTRIKISLEKANIS IRAKLEIOUGood-Good21EL1300172KARSTIKO KERIS- VOREIO- IRAKLEIOUPoor-PoorSalinity intrusion-22EL1300172KARSTIKO CHRYSOSKALTISSASGood-Good23EL1300172KARSTIKO CHRYSOSKALTISSASGood-Good24EL1300201PORODES CANEDIOU LASTHIOGood-Good25EL1300211ROGODES PSILOREITI CHRYSOSKALTISSASGood-Good26EL1300211ROGNOES PSILOREITI CHRYSOSKALTISSASGood-Good27EL1300211KARSTIKO PARAKTIO CHRYSOSKALTISSASGood	12	EL1300051		Good	-	Good		-
14 EL1300053 VA.RETHYMNOU Good - Good - 15 EL1300054 RETHYMNOU Good - Good - 16 EL1300051 KARSTIKO TALAION Good - Good - 17 EL1300061 KARSTIKO VD. PSILOREITI Good - Good - 18 EL1300064 KARSTIKO VA.PSILOREITI Good - Good - 19 EL1300072 PORODES VOREIO- IRAKLEIOU Poor - Poor Salinity intrusion - 20 EL1300072 PORODES PARAKTIO VOREIOU IRAKLEIOU Poor - Poor Salinity intrusion - 21 EL1300072 PORODES PARAKTIO VOREIOU IRAKLEIOU Poor - Good - - 22 EL1300172 KARSTIKO CHRYSOSKALTISSAS Good - Good - - 23 EL1300172 KARSTIKO CHRYSOSKALTISSAS Good - Good - - 24 EL1300200 PORODES PISILOREITI Good - Good - - 25 EL1300210 KARSTIKO GIOUCHTA Good - Good - -	13	EL1300052	PARAKTIOU RETHYMNOU (KAMPOU RETHYMNOU-PRINOU-	Good	-	Good	intrusion - nitrates	-
15 EL1300054 RETHYMNOU Good - Good - 16 EL1300051 KARSTIKO TALAION Good - Good - 17 EL1300062 KARSTIKO VD. Good - Good - 18 EL1300063 KARSTIKO VA.PSILOREITI Good - Good - - 19 EL1300071 PORDES VOREIO- RAKLEIOU Poor - Poor - 20 EL1300072 PORODES VOREIO- RAKTIKO KARSTIKO KARSTIKO - 21 EL1300072 PORODES PARAKTIO Poor - Poor - 22 EL1300172 PORODES KASTELIOU Poor - Good Local nitrates presence - 23 EL1300172 CARSTIKO CHANION Good - Good - - 24 EL1300172 PORODES CHANION Good - Good - - 25 EL1300231 PORODES CHANION Good - Good - - 26 EL1300231 ROGMODES PSILOREITI Good - Good - - 27 EL1300311	14	EL1300053		Good	-	Good		-
17EL1300062KARSTIKO PSILOREITIVD. PSILOREITIGood-Good-18EL1300063KARSTIKO VA. PSILOREITI TYLISSOUGood-Good-Good-19EL1300064KARSTIKO KARSTIKO TYLISSOUKRINS TYLISSOUPOOR-PoorPoor-20EL1300071KENTRIKIS KARSTIKO VOREIOU IRAKLEIOUPORODES PORODES VOREIOU VOREIOU IRAKLEIOUPoor-Poor-Poor21EL1300172PORODES ASTELIOU VOREIOU IRAKLEIOUPoor-GoodLocal nitrates presence-22EL1300101PORODES KASTELIOU CHRYSOSKALITISSASGood-Good23EL1300172CHRYSOSKALITISSAS CHRYSOSKALITISSASGood-Good24EL1300190ROGMODES CHANION PORODES CHRYSOSKALITISSASGood-Good25EL1300231PORODES OROPEDIOU LASITHIOUGood-Good26EL1300230ROGMODES PSILOREITI CHARSTIKO GIOUCHTA CHARSTIKO PARAKTIO CHARSTIKO PARAKTIO GRAMVOUSASGood-Good30EL1300312KARSTIKO PARAKTIO CRARTIKO PARAKTIO GRAMVOUSASGood-Good31EL1300322KARSTIKO PARAKTIO KARSTIKO PARAKTIO SPATHAS (RODOPOU)Good-Good33EL1300323KARSTIKO PARAKTIO KARSTIKO PARAKTIO SPAT	15	EL1300054		Good	-	Good		-
17EL1300062PSILOREITIGood-Good-18EL1300063KARSTIKO VA.PSILOREITIGood-Good-19EL1300064KARSTIKO VA.PSILOREITIGood-PoorSalinity intrusion-20EL1300071PORODES RAKLEIOUVOREIO- RAKLEIOUGood-Good-21EL1300072PORODES RAKLEIOUPORODES VOREIOU IRAKLEIOUPoor-PoorSalinity intrusion-22EL1300101PORODES KASTELIOUPoor-GoodLocal nitrates presence-23EL1300172KARSTIKO CHRYSOSKALITISSASGood-Good24EL1300190ROGMODES CHANION CHRYSOSKALITISSASGood-Good25EL1300201PORODES CHRYSOSKALITISSASGood-Good26EL1300211PORODES OROPEDIOU LASITHIOUGood-Good27EL1300250ROGMODES PSILOREITI KARSTIKO GIOUCHTA CHORIOU-SMARIOU CHORIOU-SMARIOUGood-Good30EL1300311KARSTIKO RASTIKO GRAMVOUSASPoor-PoorSalinity intrusion-31EL1300321KARSTIKO RASTIKO PARAKTIO GRAMVOUSASGood-Good32EL1300322KARSTIKO RASTIKO PARAKTIO GRAMVOUSASGood-Good33EL130032	16	EL1300061	KARSTIKO TALAION	Good	-	Good		-
19EL1300064KARSTIKO TVLISSOUKARSTIKO TVLISSOUKERIS- POORPoorSalinity intrusion-20EL1300071KARSTIKO IRAKLEIOUOGod-Good-Good-21EL1300072PORODES VOREIOU IRAKLEIOU VOREIOU IRAKLEIOUPcor-PoorSalinity intrusion-22EL1300101PORODES KASTELIOU VOREIOU IRAKLEIOUPcor-GoodLocal nitrates presence-23EL1300172KARSTIKO CHRYSOSKALITISSASGood-Good24EL1300190ROGMODES CHANION CHRYSOSKALITISSASGood-Good25EL1300200PORODES CHRYSOSKALITISSASGood-Good26EL1300211PORODES OROPEDIOU LASITHIOUGood-Good27EL1300210KARSTIKO KARSTIKO GIOUCHTAGood-Good28EL1300311KARSTIKO GIOUCHTA RANTIKO GIOUCHTAGood-Good29EL1300312KARSTIKO PARAKTIO RAKTEIOU-GOUVON- CHERSONISOUPoor-Good31EL1300321KARSTIKO PARAKTIO SPATHAS (RODOPOU)Good-Good32EL1300323KARSTIKO PARAKTIO SPATHAS (RODOPOU)Good-Good33EL1300324KARSTIKO PARAKTIO SPATHAS (RODOPOU)Good-Good- <td>17</td> <td>EL1300062</td> <td></td> <td>Good</td> <td>-</td> <td>Good</td> <td></td> <td>-</td>	17	EL1300062		Good	-	Good		-
19EL1300064TYLISSOUPOOLPOOLintrusion-20EL1300071KENTRIKISLEKANISGood-GoodGood21EL1300072PORODESPARAKTIO VOREIOU IRAKLEIOUPoor-PoorSalinity intrusion-22EL1300101PORODES KASTELIOUPoor-GoodLocal nitrates presence-23EL1300172KARSTIKO CHRYSOSKALITISSASGood-Good24EL1300190ROGMODES CHANION CHRYSOSKALITISSASGood-Good25EL1300200PORODES CHRYSOSKALITISSASGood-GoodLocal nitrates presence-26EL1300231PORODES OROPEDIOU LASITHIOUGood-GoodLocal salinity intrusion-29EL1300311KARSTIKO RANDURGIOU CHORIOU-SMARIOUGood-Good30EL1300312KARSTIKO RANSTIKO RANSTIKO CHERSONSOUGood-Good-Salinity intrusion-31EL1300321KARSTIKO RANTIKO RANTIKO CHERSONSOUGood-Good32EL1300322KARSTIKO RANT	18	EL1300063	KARSTIKO VA. PSILOREITI	Good	-	Good		-
20EL1300071KENTRIKIS IRAKLEIOULEKANIS PORODESGood-Good21EL1300172PORODES VOREIOU IRAKLEIOUPoor-PoorPoor-Poor-22EL1300101PORODES KASTELIOUPoor-GoodLocal nitrates presence-23EL1300172KARSTIKO CHRYSOSKALITISSASGood-Good24EL1300190ROGMODES CHANIONGood-Good25EL1300200PORODES CHRYSOSKALITISSASGood-Good26EL1300231PORODES CHRYSOSKALITISSASGood-GoodLocal nitrates presence-27EL1300250ROGMODES PSILOREITI LASITHIOUGood-Good28EL1300301KARSTIKO GIOUCHTAGood-Good29EL1300311KARSTIKO PARAKTIO RARKTIO CHORIOU-SOMARIOUGood-Good30EL1300312KARSTIKO PARAKTIO RAMVOUSASGood-Good-Salinity intrusionYes31EL1300321KARSTIKO PARAKTIO RARKTIKO PARAKTIO SPATHAS (RODOPOU)Good-Good33EL1300323KARSTIKO PARAKTIO RARKTIKO PARAKTIO RARKTIKO PARAKTIO SPATHAS (RODOPOU)Good-Good34EL1300324KARSTIKO PARAKTIO KARSTIKO PARAKTIO SPATHAS (RODOPOU)Good	19	EL1300064		Poor	-	Poor		-
21EL1300072VOREIOU IRAKLEIOUPOOT-POOTintrusion-22EL1300101PORODES KASTELIOUPoor-GoodLocal nitrates presence-23EL1300172KARSTIKO CHRYSOSKALITISSASGood-Good24EL1300190ROGMODES CHANIONGood-Good25EL1300200PORODES CHRYSOSKALITISSASGood-Good26EL1300231PORODES OROPEDIOU LASITHIOUGood-GoodLocal nitrates presence-27EL1300250ROGMODES PSILOREITI CHORIOUSGood-Good28EL1300311KARSTIKO GIOUCHTAGood-Good29EL1300312KARSTIKO PARAKTIO CHORIOU-SMARIOUGood-Good30EL1300312KARSTIKO PARAKTIO GRAMVOUSASGood-Good31EL1300321KARSTIKO PARAKTIO GRAMVOUSASGood-Good32EL1300323KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good33EL1300324KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good34EL1300324KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good	20	EL1300071	KENTRIKIS LEKANIS	Good	-	Good		-
22EL1300101PORODES KASTELIOUPoor-Goodpresence-23EL1300172KARSTIKO CHRYSOSKALITISSASGood-Good24EL1300190ROGMODES CHANIONGood-Good25EL1300200PORODES CHRYSOSKALITISSASGood-Good26EL1300231PORODES OROPEDIOU LASITHIOUGood-GoodLocal nitrates presence-27EL1300250ROGMODES PSILOREITI LASITHIOUGood-GoodLocal salinity intrusion-28EL1300311KARSTIKO GIOUCHTA KAINOURGIOU CHORIOU-SMARIOUGood-Good29EL1300312KARSTIKO PARAKTIO IRAKLEIOU-GOUVON- CHERSONISOUFoor-FoorSalinity intrusion-30EL1300312KARSTIKO PARAKTIO IRAKLEIOU-GOUVON- CHERSONISOUGood-Good31EL1300321KARSTIKO PARAKTIO AKARSTIKO PARAKTIO AKOTIRIOU (SOUDAS)Good-Good33EL1300323KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good34EL1300324KARSTIKO PARAKTIO AKRTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good	21	EL1300072		Poor	-	Poor	•	-
23EL1300172CHRYSOSKALITISSASGood-Good24EL1300190ROGMODES CHANIONGood-Good25EL1300200PORODES CHRYSOSKALITISSASGood-Good-Good-26EL1300231PORODES OROPEDIOU LASITHIOUGood-GoodLocal nitrates presence-27EL1300250ROGMODES PSILOREITI LASITHIOUGood-GoodLocal salinity intrusion-28EL1300311KARSTIKO GIOUCHTA KAINOURGIOU CHORIOU-SMARIOUGood-Good30EL1300312KARSTIKO GRAMVOUSASPARAKTIO GRAMVOUSASGood-Good31EL1300321KARSTIKO SPATHAS (RODPOU)Good-Good33EL1300323KARSTIKO KARSTIKO SPATHAS (RODPOU)Good-Good34EL1300324KARSTIKO KARSTIKO KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good	22	EL1300101	PORODES KASTELIOU	Poor	-	Good		-
25EL1300200PORODES CHRYSOSKALITISSASGood-GoodLocal nitrates presence-26EL1300231PORODES OROPEDIOU LASITHIOUGood-GoodLocal nitrates presence-27EL1300250ROGMODES PSILOREITIGood-GoodLocal salinity intrusion-28EL1300301KARSTIKO GIOUCHTAGood-Good29EL1300311KARSTIKO PARAKTIO CHERSONISOUGood-Good30EL1300312KARSTIKO PARAKTIO GRAMVOUSASPoor-PoorSalinity intrusionYes31EL1300321KARSTIKO PARAKTIO GRAMVOUSASGood-Good32EL1300322KARSTIKO PARAKTIO SPATHAS (RODOPOU)Good-Good33EL1300323KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good34E11300324KARSTIKO PARAKTIO KARSTIKO PARAKTIOGood-Good	23	EL1300172		Good	-	Good		-
25EL1300200CHRYSOSKALITISSASGood-Good-Good-26EL1300231PORODES OROPEDIOU LASITHIOUGood-GoodCoal nitrates presence-27EL1300250ROGMODES PSILOREITIGood-GoodLocal salinity intrusion-28EL1300301KARSTIKO GIOUCHTAGood-Good29EL1300311KARSTIKO PARAKTIO CHORIOU-SMARIOUGood-Good30EL1300312KARSTIKO PARAKTIO IRAKLEIOU-GOUVON- CHERSONISOUPoor-PoorSalinity intrusionYes31EL1300321KARSTIKO PARAKTIO SPATHAS (RODOPOU)Good-Good33EL1300323KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good34E11300324KARSTIKO PARAKTIO KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good-	24	EL1300190	ROGMODES CHANION	Good	-	Good		-
26EL1300231LASITHIOUGood-Goodpresence-27EL1300250ROGMODES PSILOREITIGood-GoodLocal salinity intrusion-28EL1300301KARSTIKO GIOUCHTAGood-Good29EL1300311KARSTIKOGood-Good20EL1300311KAINOURGIOU (CHORIOU-SMARIOU)Good-Good30EL1300312KARSTIKO PARAKTIO (RAKETIOU-GOUVON- CHERSONISOUPoor-PoorSalinity intrusionYes31EL1300321KARSTIKO PARAKTIO (RARSTIKO PARAKTIO SPATHAS (RODOPOU)Good-Good33EL1300323KARSTIKO PARAKTIO (AKROTIRIOU (SOUDAS)Good-Good34EL1300324KARSTIKO PARAKTIO (ARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good	25	EL1300200		Good	-	Good		-
27EL1300250ROGMODES PSILOREITIGood-Goodintrusion-28EL1300301KARSTIKO GIOUCHTAGood-Good-Good-29EL1300311KARSTIKO CHORIOU-SMARIOUGood-Good-Good-30EL1300312KARSTIKO IRAKLEIOU-GOUVON- CHERSONISOUPoor-Poor-PoorSalinity intrusionYes31EL1300321KARSTIKO RAKTIO GRAMVOUSASPARAKTIO GRAMVOUSASGood-Good32EL1300322KARSTIKO SPATHAS (RODOPOU)PARAKTIO AKROTIRIOU (SOUDAS)Good-Good34EL1300324KARSTIKO KARSTIKO KARSTIKO KARSTIKO KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good	26	EL1300231		Good	-	Good		-
29EL1300311KARSTIKO KAINOURGIOU CHORIOU-SMARIOUGood-Good-30EL1300312KARSTIKO IRAKLEIOU-GOUVON- CHERSONISOUPoor-PoorSalinity intrusionYes31EL1300321KARSTIKO GRAMVOUSASPARAKTIO GRAMVOUSASGood-Good32EL1300322KARSTIKO PARAKTIO SPATHAS (RODOPOU)Good-Good33EL1300323KARSTIKO AKROTIRIOU (SOUDAS)Good-Good34EL1300324KARSTIKO AKROTIRIOU (SOUDAS)Good-Good	27	EL1300250	ROGMODES PSILOREITI	Good	-	Good		-
29EL1300311KAINOURGIOU CHORIOU-SMARIOUGood-Good-30EL1300312KARSTIKO PARAKTIO IRAKLEIOU-GOUVON- CHERSONISOUPoor-PoorSalinity intrusionYes31EL1300321KARSTIKO PARAKTIO GRAMVOUSASGood-Good32EL1300322KARSTIKO PARAKTIO SPATHAS (RODOPOU)Good-Good33EL1300323KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good34EL1300324KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good	28	EL1300301	KARSTIKO GIOUCHTA	Good	-	Good		-
30EL1300312IRAKLEIOU-GOUVON- CHERSONISOUPoor-PoorSalinity intrusionYes31EL1300321KARSTIKO PARAKTIO GRAMVOUSASGood-Good32EL1300322KARSTIKO PARAKTIO SPATHAS (RODOPOU)Good-Good33EL1300323KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good34EL1300324KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)Good-Good	29	EL1300311	KAINOURGIOU	Good	-	Good		-
31 EL1300321 GRAMVOUSAS Good - Good - Good - - Good -	30	EL1300312	IRAKLEIOU-GOUVON-	Poor	-	Poor		Yes
32 EL1300322 SPATHAS (RODOPOU) Good - Good - 33 EL1300323 KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS) Good - Good - 34 EL1300324 KARSTIKO PARAKTIO Good - Good -	31	EL1300321		Good	-	Good		-
33 EL1300323 AKROTIRIOU (SOUDAS) Good - Good - 34 EL1300324 KARSTIKO PARAKTIO Good - Good -	32	EL1300322		Good	-	Good		-
34 FL1300324 KARSTIKO PARAKTIO Good - Good -	33	EL1300323		Good	-	Good		-
APOKORONA GOOD - GOOD - GOOD - GOOD - GOOD - GOOD	34	EL1300324	KARSTIKO PARAKTIO	Good	-	Good		-

No	GWB Code	GWB Name	Quantitativ e status	Decline water levels tendency	Chemica I status	Quality problems	Pollutants tendency
35	EL1300034	KARSTIKO NOTION LEYKON OREON	Good	-	Good		-
36	EL1300042	KARSTIKO KALLIKRATI- ASIDEROTA	Good	-	Good		-
37	EL1300043	KARSTIKO KEDROU	Good	-	Good		-
38	EL1300055	PORODES NOTIOU RETHYMNOU	Good	-	Good		-
39	EL1300065	KARSTIKO NA. PSILOREITI	Good	-	Good		-
40	EL1300081	PORODES TYMPAKIOU	Good	-	Good	Local nitrates presence	-
41	EL1300082	PORODES PARAKTIO TYMPAKIOU	Poor	-	Poor	Salinity intrusion	-
42	EL1300083	PORODES MOIRON	Poor	Yes	Poor	Nitrates presence	-
43	EL1300084	PORODES GALIAS- VAGIONIAS-ASIMIOU	Good	-	Good	Local nitrates presence	-
44	EL1300085	PORODES MESOCHORIOU	Good	-	Good	Local nitrates presence	-
45	EL1300086	PORODES MESARAS- NOTIOU IRAKLEIOU	Good	-	Good	Local nitrates presence	-
46	EL1300091	KARSTIKO POMPIAS- ALITHINIS	Good	-	Good		-
47	EL1300092	KARSTIKO PYRGOU- CHARAKA- FOURNOFARAGGOU	Good	-	Good		-
48	EL1300093	KARSTIKO PARAKTIO ASTEROUSION	Good	-	Good	Local salinity intrusion	-
49	EL1300102	PORODES ROUSOCHORION	Poor	-	Poor	Nitrates presence	Yes
50	EL1300111	KARSTIKO DYTIKIS DIKTIS	Good	-	Good		-
51	EL1300171	KARSTIKO PALAIOCHORAS	Good	-	Good		-
52	EL1300173	KARSTIKO KANTANOU	Good	-	Good		-
53	EL1300180	PORODES FRAGKOKASTELOU	Good	-	Good		-
54	EL1300210	ROGMODES RETHYMNOU	Good	-	Good		-
55	EL1300220	ROGMODES ASTEROUSION	Good	-	Good		-
56	EL1300232	PORODES EMPAROU- PANAGIAS	Good	-	Good		-
57	EL1300270	PORODES GAYDOU	Poor	-	Poor	Salinity intrusion	-
58	EL1300280	KARSTIKO GAYDOU	Good	-	Good		-
59	EL1300290	ROGMODES GIOUCHTAS-OXY KEFALI (DAMANION - LARANIOU)	Good	-	Good		-

No	GWB Code	GWB Name	Quantitativ e status	Decline water levels tendency	Chemica I status	Quality problems	Pollutants tendency
60	EL1300302	KARSTIKO DAMANION- LARANIOU	Good	-	Good		-
61	EL1300330	KARSTIKO GYPSON KRITIS	Good	-	Good		-
		RB of the	Eastern Crete S	treams (EL13	841)		
62	EL1300112	KARSTIKO MALION- SELENAS	Good	-	Good	Local salinity intrusion	-
63	EL1300113	KARSTIKO VA. DIKTIS	Good	-	Good		-
64	EL1300114	KARSTIKO LAKONION- ALMYROU AG. NIKOLAOU	Good	-	Good		-
65	EL1300115	KARSTIKO FOURNIS- ELOUNTAS	Good	-	Good		-
66	EL1300116	KARSTIKO PARAKTIO SISIOU-MILATOU- ELOUNTAS	Good	-	Good		-
67	EL1300117	KARSTIKO ANATOLIKIS- NOTIAS DIKTIS	Good	-	Good		-
68	EL1300121	PORODES IERAPETRAS- KENTRIOU	Good	-	Poor	Nitrates presence	-
69	EL1300122	PORODES PACHEIAS AMMOU-KALOU CHORIOU	Good	-	Good	Local salinity intrusion	-
70	EL1300123	PORODES IERAPETRAS- KALOU CHORIOU	Good	-	Good		-
71	EL1300124	PORODES MYRTOU	Good	-	Good		-
72	EL1300131	KARSTIKO ORNOU	Good	-	Good		-
73	EL1300132	KARSTIKO PARAKTIO MALAYRAS-PACHEIAS AMMOU	Good	-	Good		-
74	EL1300133	KARSTIKO THRYPTIS	Good	-	Good		-
75	EL1300134	KARSTIKO PEYKON - MARONIAS	Good	-	Good		-
76	EL1300141	PORODES SITEIAS- PAPAGIANNADON- AGIAS TRIADAS	Good	-	Good		-
77	EL1300142	PORODES KOUTSOURA- MAKRYGIALOU	Good	-	Good		-
78	EL1300143	PORODES SKOPIS- SITEIAS	Good	-	Good	Local salinity intrusion	-
79	EL1300144	PORODES GOUDOURA	Poor	-	Poor	Salinity intrusion	-
80	EL1300151	KARSTIKO OREON ZAKROU	Good	-	Good		-
81	EL1300152	KARSTIKO VA. APOLIXEON OREON ZAKROU	Good	-	Good		-

No	GWB Code	GWB Name	Quantitativ e status	Decline water levels tendency	Chemica I status	Quality problems	Pollutants tendency
82	EL1300153	KARSTIKO PARAKTIO ANATOLIKON APOLIXEON OREON ZAKROU	Good	-	Good		-
83	EL1300154	KARSTIKO OREON PIGIS ZOU	Good	-	Good		-
84	EL1300161	PORODES FOINIKODASOUS VAI	Good	-	Good		-
85	EL1300162	PORODES MONIS TOPLOU- PALAIKASTROU- XIROKAMPOU	Good	-	Good		-
86	EL1300233	PORODES ANO VIANNOU	Good	-	Good		-
87	EL1300234	PORODES KERATOKAMPOU-ARVIS	Good	-	Good		-
88	EL1300240	ROGMODES DIKTIS	Good	-	Good		-
89	EL1300260	ROGMODES OREON ZAKROU	Good	-	Good		-
90	EL1300320	ROGMODES ORNOU- THRYPTIS	Good	-	Good		-
91	EL1300340	NISIDES KRITIS	Good	-	Good		-

6 STATUS OF WATER BODIES

6.1 Classification of the Status of Surface Water Bodies

6.1.1 Status assessment of River Water Bodies

In Crete RB (EL13) **118 River WB's** are identified. The table that follows presents the ecological and chemical status of those bodies, along with any differences found between the 1st and the Revised RBMP.

Table 6-1Status and differences in the status of river WBs between the 1st RBMP and the 1st Revision of
RBMP

		Ecological Sta	atus/Potential	Chemic	al Status
WB Code	WB Name	1 st RBMP	1 st Revision of RBMP	1 st RBMP	1 st Revision of RBMP
RB of t	he Northern Part of the	Chania-Rethym	no-Irakleio Strea	ms (EL1339)	
EL1339R000101001N	TSIHLIANOS	Unknown	Moderate	Unknown	Good
EL1339R000201003N	GIFLOS	High	Good	Unknown	Good
EL1339R000201058N	GIFLOS	Good	Good	Unknown	Good
EL1339R000202104N	GIFLOS	Unknown	Good	Unknown	Good
EL1339R000202205N	GIFLOS	Unknown	Good	Unknown	Good
EL1339R000301006N	TAVRONITIS	Unknown	Poor	Unknown	Good
EL1339R000301007N	TAVRONITIS	Unknown	Good	Unknown	Good
EL1339R000301008N	TAVRONITIS	Unknown	Good	Unknown	Good
EL1339R000301057N	TAVRONITIS	Unknown	Good	Unknown	Good
EL1339R000302009N	TAVRONITIS	Unknown	Good	Unknown	Good
EL1339R000303110N	TAVRONITIS	Good	Good	Unknown	Good
EL1339R000401011N	KERITIS	Unknown	Good	Good	Good
EL1339R000401012H	KERITIS	Unknown	Unknown	Unknown	Good
EL1339R000401114N	KERITIS	Good	Good	Unknown	Good
EL1339R000401115N	KERITIS	Good	Good	Unknown	Good
EL1339R000402013N	KERITIS	Unknown	Good	Unknown	Good
EL1339R000501016N	KOILIARIS	Good	Good	Unknown	Good
EL1339R000501017N	KOILIARIS	Unknown	Good	Unknown	Good
EL1339R000501059N	KOILIARIS	High	Good	Unknown	Good
EL1339R000501060N	KOILIARIS	Unknown	Good	Unknown	Good
EL1339R000502118N	KOILIARIS	Unknown	Good	Unknown	Good
EL1339R000601019N	ALMIROS CHANION	Moderate	Good	Unknown	Good
EL1339R000601062N	ALMIROS CHANION	Moderate	Good	Unknown	Good
EL1339R000701020N	KOURNIOTIS	Unknown	Good	Unknown	Good
EL1339R000801021N	MOYSELAS	High	Good	Unknown	Good
EL1339R000901022N	PETRES	Unknown	Good	Unknown	Good
EL1339R000901023N	PETRES	Unknown	Good	Unknown	Good
EL1339R000901024N	PETRES	High	Good	Unknown	Good
EL1339R000902125N	PETRES	Unknown	Good	Unknown	Good
EL1339R001001026H	SFAKORIAKO	Good	Unknown	Unknown	Good
EL1339R001001063H	SFAKORIAKO	Moderate	Unknown	Unknown	Good
EL1339R001101027N	MILOPOTAMOS	Unknown	Poor	Unknown	Good
EL1339R001101028N	MILOPOTAMOS	Moderate	Moderate	Unknown	Good
EL1339R001101029N	MILOPOTAMOS	Unknown	Good	Unknown	Good

		Ecological Sta	atus/Potential	Chemical Status		
WB Code	WB Name	1 st RBMP	1 st Revision of RBMP	1 st RBMP	1 st Revision of RBMP	
EL1339R001101030N	MILOPOTAMOS	Good	Good	Unknown	Good	
EL1339R001102131N	MILOPOTAMOS	Unknown	Good	Unknown	Good	
EL1339R001201032N	FODELE	Moderate	Good	Unknown	Good	
EL1339R001201033N	FODELE	Unknown	Good	Unknown	Good	
EL1339R001201034N	FODELE	Unknown	Good	Unknown	Good	
EL1339R001202135N	FODELE	Unknown	Good	Unknown	Good	
EL1339R001301036N	GAZANOS	Moderate	Moderate	Unknown	Good	
EL1339R001302138N	GAZANOS	Unknown	Moderate	Unknown	Good	
EL1339R001303037N	GAZANOS	Unknown	Poor	Unknown	Good	
EL1339R001304239N	GAZANOS	Good	Good	Unknown	Good	
EL1339R001306340N	GAZANOS	Unknown	Moderate	Unknown	Good	
EL1339R001401041N	GIOFIROS	Moderate	Moderate	Unknown	Good	
EL1339R001401042N	GIOFIROS	Unknown	Moderate	Unknown	Good	
EL1339R001401043N	GIOFIROS	Moderate	Moderate	Unknown	Good	
EL1339R001401061N	GIOFIROS	Unknown	Moderate	Unknown	Good	
EL1339R001501044N	KARTEROS	Moderate	Poor	Unknown	Good	
EL1339R001502046N	KARTEROS	Poor	Poor	Unknown	Good	
EL1339R001503045N	KARTEROS	Poor	Poor	Unknown	Good	
EL1339R001601047N	APOSELEMIS	Unknown	Good	Unknown	Good	
EL1339R001602049N	APOSELEMIS	Moderate	Good	Unknown	Good	
EL1339R001602151N	APOSELEMIS	Unknown	Good	Unknown	Good	
EL1339R001602152N	APOSELEMIS	High	Good	Unknown	Good	
EL1339R001602250N	APOSELEMIS	Unknown	Good	Unknown	Good	
EL1339R001603048H	APOSELEMIS	Unknown	άγνωστο	Unknown	Good	
LL1339R001003046H	APOSELEIVIIS	Moderate/	Αγνωστο	Unknown	Good	
EL1339R001603053N	APOSELEMIS	Moderate/	Moderate	/Good/	Good	
22133310010030351		Unknown	Woderate	Unknown	Good	
EL1339R001604057N	APOSELEMIS	New WB	Good	New WB	Good	
EL1339R001605056N	APOSELEMIS	Good	Good	Unknown	Good	
	he Southern Part of the			1	Good	
EL1340R000101001N	ANAPODARIS	Unknown	Moderate	Unknown	Good	
EL1340R000102105N	ANAPODARIS	Moderate	Moderate	Unknown	Good	
EL1340R000102105N	ANAPODARIS	Moderate	Moderate	Unknown	Good	
EL1340R000102107N	ANAPODARIS	Unknown	Moderate	Unknown	Good	
EL1340R000103002N	ANAPODARIS	Unknown	Unknown	Unknown	Good	
EL1340R000104108H	ANAPODARIS	Unknown	Good	Unknown	Good	
EL1340R000104109N EL1340R000105003N	ANAPODARIS	Unknown	Good	Unknown		
EL1340R000105003N EL1340R000106109N		Unknown			Good	
	ANAPODARIS		Good	Unknown	Good	
EL1340R000106210H	ANAPODARIS	Unknown	Unknown	Unknown	Good	
EL1340R000106311H	ANAPODARIS	Unknown	Unknown	Unknown	Good	
EL1340R000107004N	ANAPODARIS	Unknown	Good	Unknown	Good	
EL1340R000108116N	ANAPODARIS	Unknown	Good	Unknown	Good	
EL1340R000109012H	ANAPODARIS	Good	Unknown	Unknown	Good	
EL1340R000109114N	ANAPODARIS	Unknown	Good	Unknown	Good	
EL1340R000109215N	ANAPODARIS	Moderate	Good	Unknown	Good	
EL1340R000201017N	GEROPOTAMOS	Unknown	Moderate	Unknown	Good	
EL1340R000202122N	GEROPOTAMOS	Unknown	Good	Unknown	Good	
EL1340R000202123N	GEROPOTAMOS	Unknown	Good	Unknown	Good	

		Ecological Sta	tus/Potential	Chemic	al Status
WB Code	WB Name	1 st RBMP	1 st Revision of RBMP	1 st RBMP	1 st Revision of RBMP
EL1340R000203018N	GEROPOTAMOS	Unknown	Moderate	Unknown	Good
EL1340R000204124H	GEROPOTAMOS	Moderate	Unknown	Unknown	Good
EL1340R000204125N	GEROPOTAMOS	High	Good	Unknown	Good
EL1340R000204126N	GEROPOTAMOS	High	High	Unknown	Good
EL1340R000205019N	GEROPOTAMOS	Unknown	Moderate	Unknown	Good
EL1340R000206126N	GEROPOTAMOS	Moderate	Moderate	Unknown	Good
EL1340R000207020N	GEROPOTAMOS	Unknown	Moderate	Unknown	Good
EL1340R000208128N	GEROPOTAMOS	Unknown	Moderate	Unknown	Good
EL1340R000209021N	GEROPOTAMOS	Unknown	Moderate	Unknown	Good
EL1340R000301029N	PLATIS	Unknown	Good	Unknown	Good
EL1340R000301030N	PLATIS	Unknown	Good	Unknown	Good
EL1340R000401031N	KOYRTALIOTIS	Unknown	Good	Unknown	Good
EL1340R000402133N	KOYRTALIOTIS	Unknown	Good	Unknown	Good
EL1340R000403032N	KOYRTALIOTIS	High	Good	Unknown	Good
EL1340R000501034N	RODAKINO	High	Good	Unknown	Good
EL1340R000601035N	SAMARIAS FARAGGI	Moderate	Good	Unknown	Good
EL1340R000602136N	SAMARIAS FARAGGI	Good/Good	High	Unknown/ Unknown	Good
EL1340R000701038N	KAKODIKIANOS	Unknown	Good	Unknown	Good
EL1340R000701039N	KAKODIKIANOS	High	Good	Unknown	Good
EL1340R000702140N	KAKODIKIANOS	High	Good	Unknown	Good
EL1340R000702241N	KAKODIKIANOS	Unknown	Good	Unknown	Good
EL1340R000801042N	PELEKANIOTIS	Unknown	Good	Unknown	Good
EL1340R000801043N	PELEKANIOTIS	Unknown	Good	Unknown	Good
EL1340R000801044N	PELEKANIOTIS	High	Good	Unknown	Good
	RB of the East	ern Crete Stream	ns (EL1341)		
EL1341R000101001N	ALMIROS LASITHIOU	Unknown	Good	Unknown	Good
EL1341R000101002N	ALMIROS LASITHIOU	Unknown	Good	Unknown	Good
EL1341R000101003N	ALMIROS LASITHIOU	Unknown	Good	Unknown	Good
EL1341R000201004N	PENTELIS	Unknown	Moderate	Unknown	Good
EL1341R000201005N	PENTELIS	Unknown	Good	Unknown	Good
EL1341R000301006N	HOHLAKIAS	Unknown	Good	Unknown	Good
EL1341R000302008N	HOHLAKIAS	Unknown	Good	Unknown	Good
EL1341R000303007N	HOHLAKIAS	Unknown	Good	Unknown	Good
EL1341R000401009N	ZAKROU FARAGGI	High	Good	Unknown	Good
EL1341R000501010H	BRAMIANOS	Unknown	Unknown	Unknown	Good
EL1341R000501011N	BRAMIANOS	Unknown	Good	Unknown	Good
EL1341R000601012N	KALAMAFKIANOS	Unknown	Good	Unknown	Good
EL1341R000601013N	KALAMAFKIANOS	Unknown	Good	Unknown	Good
EL1341R000701013H	MIRTOS	Unknown	Unknown	Unknown	Good
EL1341R000701014N	MIRTOS	High	Good	Unknown	Good

6.1.2 Status assessment of Lake Water Bodies

In the RB examined **1 Lake** and **5 Reservoirs (lake type river HMWB's)** have been identified. The table that follows presents the ecological and chemical status of those bodies, along with any differences found between the 1st and the Revised RBMP.

Table 6-2Status and differences in the status of Lake WBs and reservoirs (Heavily Modified River Water
Bodies) between the 1st RBMP and the 1st Revision of RBMP

		Ecological S	Status/Potential	Chemical Status			
WB Code	WB Name	1 st RBMP	1 st Revision of RBMP	1 st RBMP	1 st Revision of RBMP		
RB of th	e Northern Part of the C	hania-Rethyn	nno-Irakleio Strea	ms (EL1339)			
EL1339L000701001N	L. KOURNA	Unknown	Moderate	Unknown	Good		
EL1339RL01001002H	R. POTAMON	Unknown	Unknown	Unknown	Good		
EL1339RL01605003H	R. APOSELEMI	Unknown	Unknown	Unknown	Good		
RB of th	e Southern Part of the C	hania-Rethyn	nno-Irakleio Strea	ms (EL1340)			
EL1340RL00109102H	R. PLAKIOTISSAS	Unknown	Unknown	Unknown	Good		
EL1340RL00204101H	R. FANEROMENIS	Unknown	Good and above	Unknown	Good		
RB of the Eastern Crete Streams (EL1341)							
EL1341RL00501001H	R. MPRAMIANON	Unknown	Good and above	Unknown	Good		

6.1.3 Status assessment of Transitional Water Bodies

In the RB examined **4 transitional WB's** have been identified. The table that follows presents the ecological and chemical status of those bodies, along with any differences found between the 1st and the Revised RBMP.

Table 6-3Status and differences in the status of transitional WBs between the 1st RBMP and the 1stRevision of RBMP

		Ecological S	Status/Potential	Chemical Status			
WB Code	WB Name	1 st RBMP RBMP		1 st RBMP	1 st Revision of RBMP		
RB of the Northern Part of the Chania-Rethymno-Irakleio Streams (EL1339)							
EL133901T0001N	TAYRONITIS	Unknown	Unknown	Unknown	Good		
EL133901T0002N	KERITIS	Unknown	Unknown	Unknown	Good		
EL133901T0003N	KOILIARIS	Unknown	Unknown	Unknown	Good		
EL133901T0004N	MOUSELAS	Unknown	Unknown	Unknown	Good		

6.1.4 Status assessment of Coastal Water Bodies

In the RB examined **24 coastalWB's** have been identified. The table that follows presents the ecological and chemical status of those bodies, along with any differences found between the 1st and the Revised RBMP.

Table 6-4Status and differences in the status of coastal WBs between the 1st RBMP and the 1st Revision of
RBMP

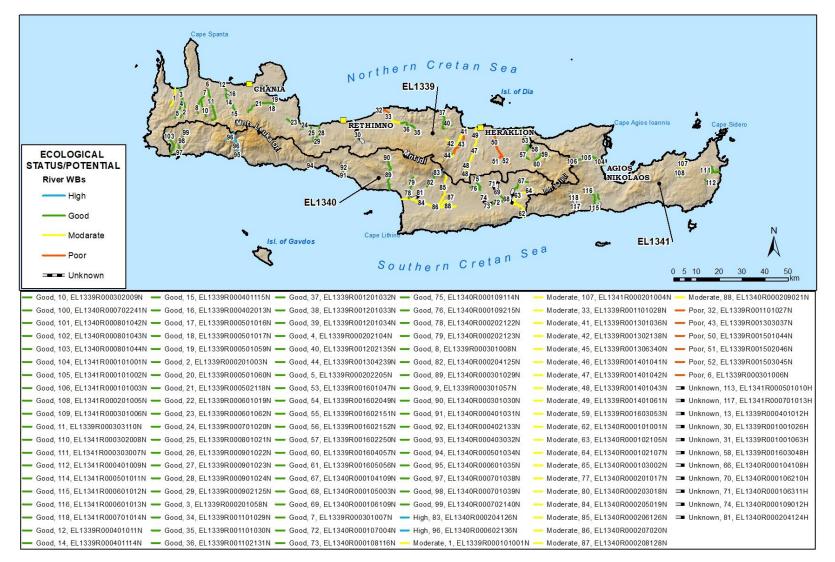
		Ecological Sta	atus/Potential	Chemica	al Status
WB Code	WB Name	1 st RBMP	1 st Revision of RBMP	1 st RBMP	1 st Revision of RBMP
RB of th	ne Northern Part of the	Chania-Rethyn	nno-Irakleio Str	eams (EL1339)	
EL1339C0001N	AKTES KOLPOU KISSAMOU	Good	Good	Unknown	Good
EL1339C0003N	ORMOS SOUDAS	Unknown	Moderate	Unknown	Good
EL1339C0004N	ORMOS ALMYROU	Good	Good	Unknown	Good
EL1339C0005N	AKTES RETHYMNOU	Good	Good	Unknown	Good
EL1339C0006N	AKTES MPALI- FODELE	Good	Good	Unknown	Good
EL1339C0007N	EYRYTEROS KOLPOS IRAKLEIOU	Unknown	Good	Unknown	Good
EL1339C0008N	NISOS DIA	Good	Good	Unknown	Good
EL1339C0024N	AKTES STO NOTIO KRITIKO PELAGOS PELAGOS - VDD KRITI	Good	Good	Unknown	Good
EL1339C0025N	NISOS GRAMVOUSA	Υψηλή	Υψηλή	Unknown	Good
RB of th	ne Southern Part of the	Chania-Rethyn	nno-Irakleio Stro	eams (EL1340)	
EL1340C0018N	AKTES NOTIOU KRITIKOU PELAGOUS - ASTEROUSIA	Good	Good	Unknown	Good
EL1340C0019N	AKTES KOLPOU MESSARAS	Good	Good	Unknown	Good
EL1340C0020N	NISOI PAXIMADIA	Υψηλή	Υψηλή	Unknown	Good
EL1340C0021N	NISOS GAYDOS	Υψηλή	Υψηλή	Unknown	Good
EL1340C0022N	NISOS GAYDOPOULA	Υψηλή	Υψηλή	Unknown	Good
EL1340C0023N	AKTES STO NOTIO KRITIKO PELAGOS – CHANIA/RETHYMNO	Good	Good	Unknown	Good
	RB of the East	tern Crete Strea	ams (EL1341)		
EL1341C0009N	KOLPOS MALION	Good	Good	Unknown	Good
EL1341C0010N	NISIS AVGO	Υψηλή	Υψηλή	Unknown	Good
EL1341C0011N	ORMOS ELOUNTAS	Unknown	Good	Unknown	Good
EL1341C0012N	KOLPOS AG. NIKOLAOU	Good	Good	Unknown	Good
EL1341C0013N	AKTES SITEIAS	Good	Good	Unknown	Good
EL1341C0014N	AKTES DIONYSIADON	Υψηλή	Υψηλή	Unknown	Good

Ministry of Environment and Energy, Special Secretariat for Water

		Ecological Status/Potential		Chemical Status	
WB Code	WB Name	1 st RBMP	1 st Revision of RBMP	1 st RBMP	1 st Revision of RBMP
EL1341C0015N	AKTES STO NOTIO				
	KRITIKO PELAGOS -	Good	Good	Unknown	Good
	VAA KRITI				
EL1341C0016N	AKTES NOTIOU				
	KRITIKOU	Good	Good	Unknown	Good
	PELAGOUS - LASITHI				
EL1341C0017N	AKTES NISOU	Υψηλή	Υψηλή	Unknown	Good
	CHRYSI				

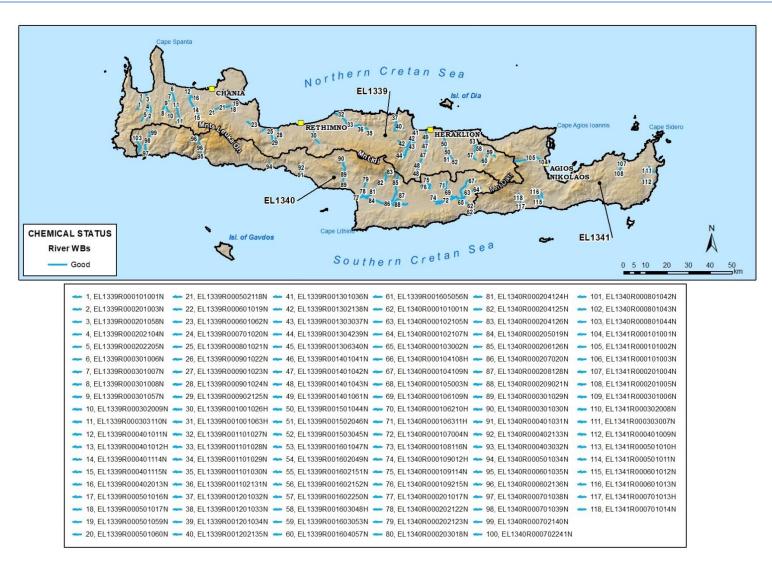
 1^{st} Revision of the Management Plan of Crete River Basin District (EL 13)

1st Revision of the Management Plan of Crete River Basin District (EL 13)



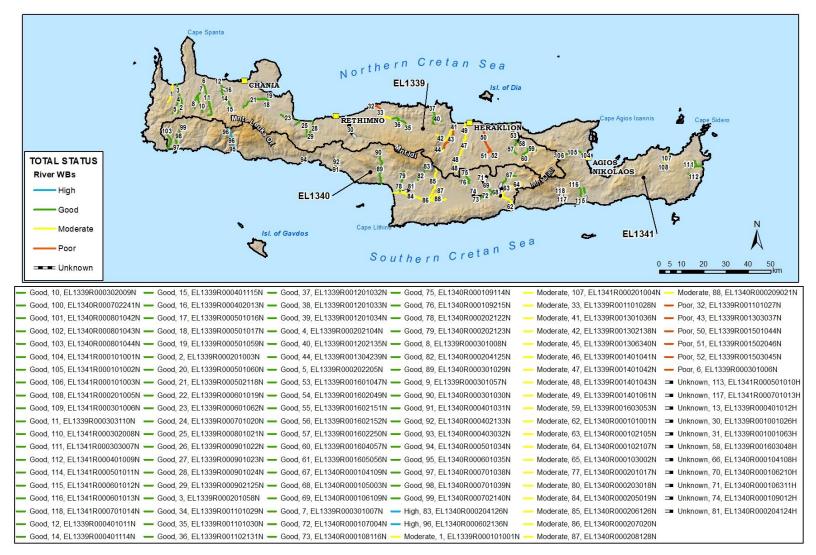
Map 6-1 Ecological status/ potential of river WBs of Crete RBD (EL13)



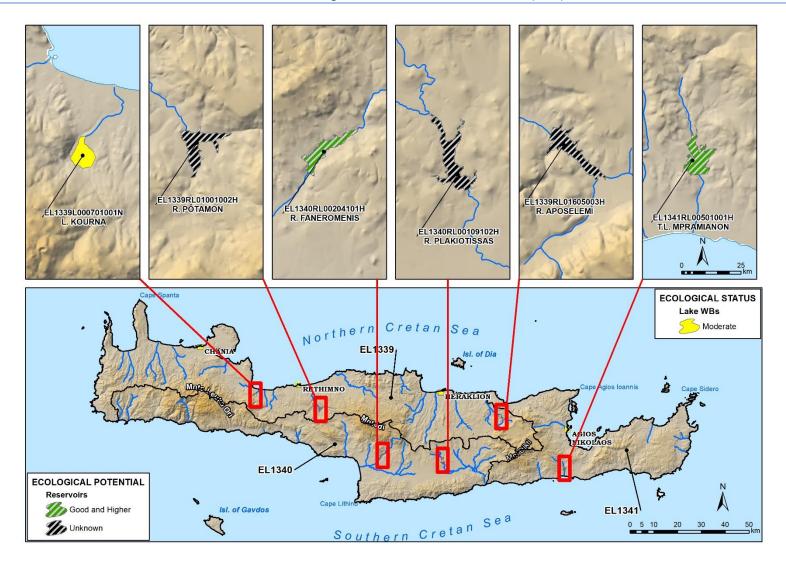


Map 6-2 Chemical status of river WBs of Crete RBD (EL13)

1st Revision of the Management Plan of Crete River Basin District (EL 13)

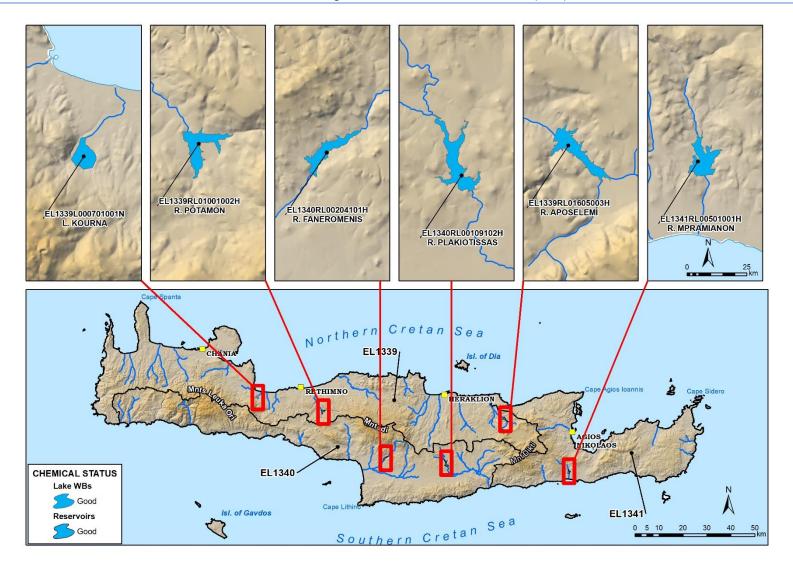


Map 6-3 Total status of river WBs of Crete RBD (EL13)



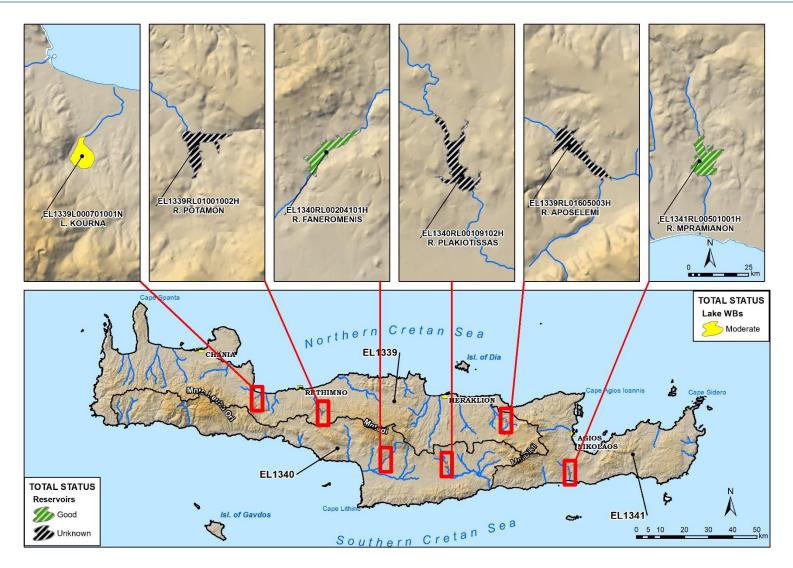
Map 6-4 Ecological status of Lake WBs and ecological potential of lake type river WBs (reservoirs) of Crete RBD (EL13)

Summary of 1st Revision of River Basin Management Plan in English



Map 6-5 Chemical status of Lake WBs and lake type river WBs (reservoirs) of Crete RBD (EL13)

Summary of 1st Revision of River Basin Management Plan in English

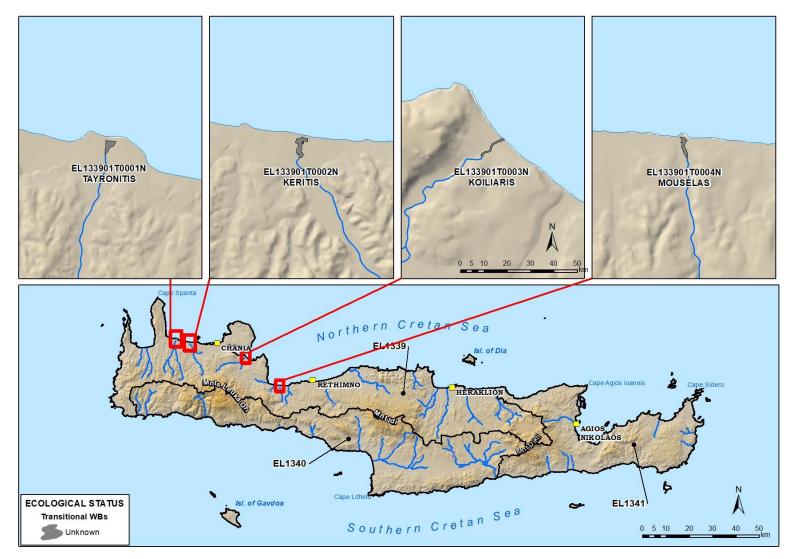


Map 6-6 Total status of Lake WBs and lake type river WBs (reservoirs) of Crete RBD (EL13)

Summary of 1st Revision of River Basin Management Plan in English

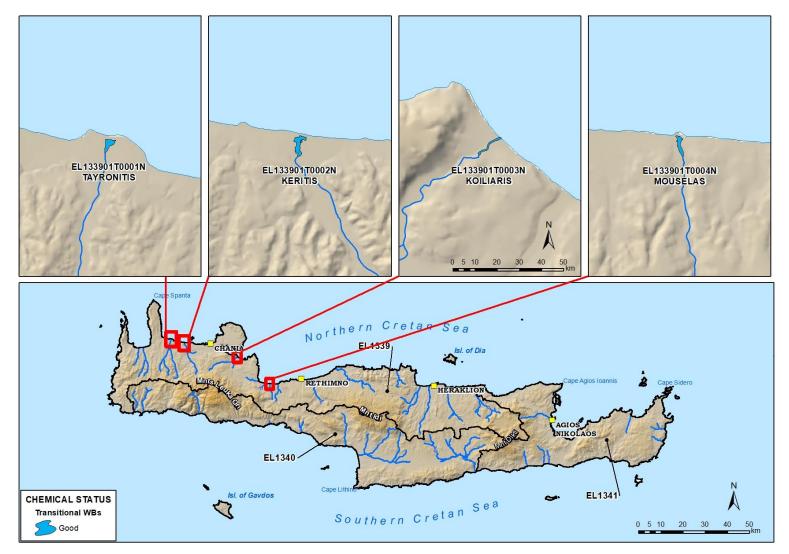
Ministry of Environment and Energy, Special Secretariat for Water

1st Revision of the Management Plan of Crete River Basin District (EL 13)



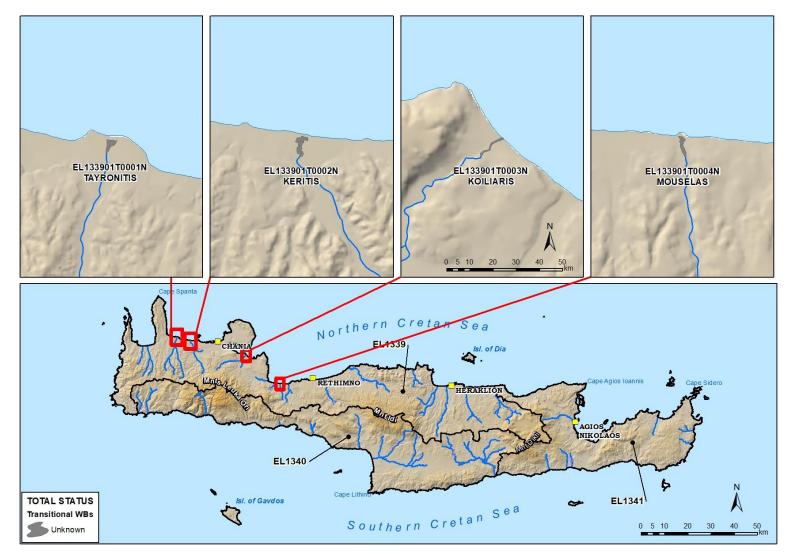
Map 6-7 Ecological status of transitional WBs of Crete RBD (EL13)

1st Revision of the Management Plan of Crete River Basin District (EL 13)



Map 6-8 Chemical status of transitional WBs of Crete RBD (EL13)

1st Revision of the Management Plan of Crete River Basin District (EL 13)



Map 6-9 Total status of transitional WBs of Crete RBD (EL13)





Map 6-10 Ecological status of coastal WBs of Crete RBD (EL13)





Map 6-11 Chemical status of coastal WBs of Crete RBD (EL13)





Map 6-12 Total status of coastal WBs of Crete RBD (EL13)

6.2 Classification of the Status of Groundwater Bodies

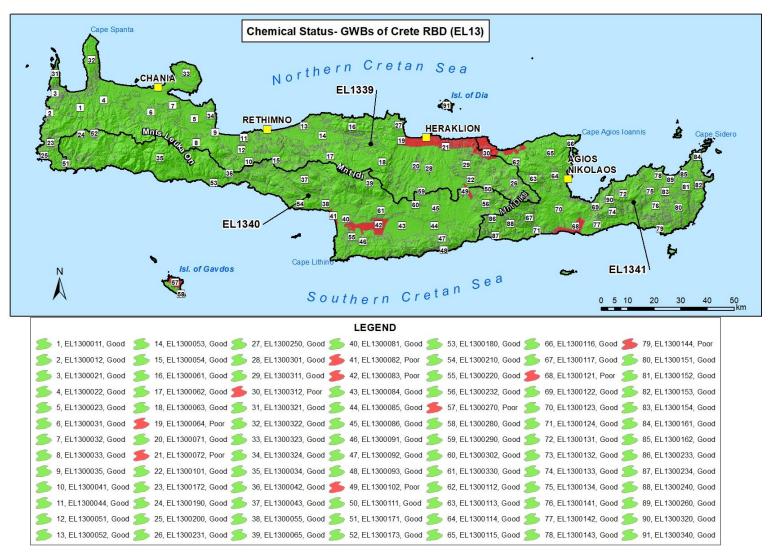
In Crete RB (EL13) **91 Groundwater Bodies** have been identified. The table that follows presents the ecological and chemical status of those bodies, along with any differences found between the 1st and the Revised RBMP. The chemical and ecological status of these GWB is additionally presented on the maps that follow.

		1 st R	BMP	1 st Revision of RBMP		
	GWB Name	Chemical	Quantitative	Chemical	Quantitative	
GWB Code		status	status	status	status	
	RB of the Northern Part of the	Chania-Rethyr	nno-Irakleio Str	eams (EL1339)		
EL1300011	KARSTIKO TOPOLION	Good	Good	Good	Good	
EL1300012	KARSTIKO SFINARIOU	Good	Good	Good	Good	
EL1300021	PORODES KISSAMOU	Good	Good	Good	Good	
EL1300022	PORODES KAMPOU CHANION	Good	Good	Good	Good	
EL1300023	PORODES APOKORONOU	Good	Good	Good	Good	
EL1300031	KARSTIKO VD. LEYKON OREON (AGIAS)	Good	Good	Good	Good	
EL1300032	KARSTIKO VOREION LEYKON OREON (STYLOU-ARMENON)	Good	Good	Good	Good	
EL1300033	KARSTIKO VA. LEYKON OREON (KOURNA-GEORGIOUPOLIS)	Good	Good	Good	Good	
EL1300035	KARSTIKO GEORGIOUPOLIS	Good	Good	Good	Good	
EL1300041	KARSTIKO ARMENON-MALAKIOU- MOUNTROU-ARGYROUPOLIS	Good	Good	Good	Good	
EL1300044	KARSTIKO PARAKTIO GERANIOU	Good	Good	Good	Good	
EL1300051	PORODES VD. RETHYMNOU	Good	Good	Good	Good	
EL1300052	PORODES VA. PARAKTIOU RETHYMNOU (KAMPOU RETHYMNOU-PRINOU- PERAMATOS)	Good	Good	Good	Good	
EL1300053	PORODES VA.RETHYMNOU	Good	Good	Good	Good	
EL1300054	PORODES KENTRIKOU RETHYMNOU	Good	Good	Good	Good	
EL1300061	KARSTIKO TALAION	Good	Good	Good	Good	
EL1300062	KARSTIKO VD. PSILOREITI	Good	Good	Good	Good	
EL1300063	KARSTIKO VA. PSILOREITI	Good	Good	Good	Good	
EL1300064	KARSTIKO KERIS-TYLISSOU	Poor	Poor	Poor	Poor	
EL1300071	PORODES VOREIO-KENTRIKIS LEKANIS IRAKLEIOU	Good	Good	Good	Good	
EL1300072	PORODES PARAKTIO VOREIOU IRAKLEIOU	Poor	Poor	Poor	Poor	
EL1300101	PORODES KASTELIOU	Good	Poor	Good	Poor	
EL1300172	KARSTIKO CHRYSOSKALITISSAS	Good	Good	Good	Good	
EL1300190	ROGMODES CHANION	Good	Good	Good	Good	
EL1300200	PORODES CHRYSOSKALITISSAS	Good	Good	Good	Good	
EL1300231	PORODES OROPEDIOU LASITHIOU	Good	Good	Good	Good	
EL1300250	ROGMODES PSILOREITI	Good	Good	Good	Good	
EL1300301	KARSTIKO GIOUCHTA	Good	Good	Good	Good	

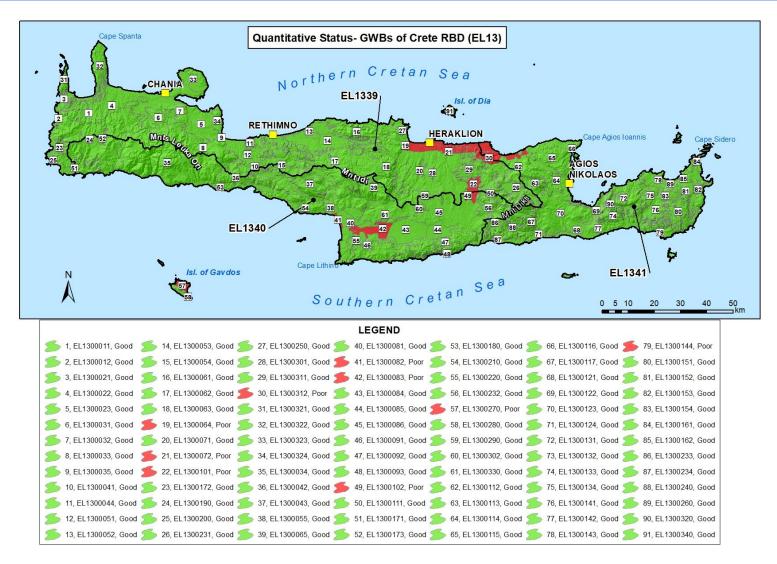
	Table 6-5	Status and differences in the status of GWBs between the 1 st RBMP and the 1 st Revision of RBMP
--	-----------	--

		1 st	RBMP	1 st Revision of RBMP		
GWB Code	GWB Name	Chemical Quantitative		Chemical	Quantitative	
		status	status	status	status	
EL1300311	KARSTIKO KAINOURGIOU CHORIOU-SMARIOU	Good	Good	Good	Good	
EL1300312	KARSTIKO PARAKTIO IRAKLEIOU- GOUVON-CHERSONISOU	Poor	Poor	Poor	Poor	
EL1300321	KARSTIKO PARAKTIO GRAMVOUSAS	Good	Good	Good	Good	
EL1300322	KARSTIKO PARAKTIO SPATHAS (RODOPOU)	Good	Good	Good	Good	
EL1300323	KARSTIKO PARAKTIO AKROTIRIOU (SOUDAS)	Good	Good	Good	Good	
EL1300324	KARSTIKO PARAKTIO APOKORONA	Good	Good	Good	Good	
	RB of the Southern Part of the	Chania-Rethy	mno-Irakleio Stre	eams (EL1340)		
EL1300034	KARSTIKO NOTION LEYKON OREON	Good	Good	Good	Good	
EL1300042	KARSTIKO KALLIKRATI-ASIDEROTA	Good	Good	Good	Good	
EL1300043	KARSTIKO KEDROU	Good	Good	Good	Good	
EL1300055	PORODES NOTIOU RETHYMNOU	Good	Good	Good	Good	
EL1300065	KARSTIKO NA. PSILOREITI	Good	Good	Good	Good	
EL1300081	PORODES TYMPAKIOU	Good	Good	Good	Good	
EL1300082	PORODES PARAKTIO TYMPAKIOU	Poor	Poor	Poor	Poor	
EL1300083	PORODES MOIRON	Poor	Poor	Poor	Poor	
EL1300084	PORODES GALIAS-VAGIONIAS- ASIMIOU	Good	Good	Good	Good	
EL1300085	PORODES MESOCHORIOU	Good	Good	Good	Good	
EL1300086	PORODES MESARAS-NOTIOU IRAKLEIOU	Good	Good	Good	Good	
EL1300091	KARSTIKO POMPIAS-ALITHINIS	Good	Good	Good	Good	
EL1300092	KARSTIKO PYRGOU-CHARAKA- FOURNOFARAGGOU	Good	Good	Good	Good	
EL1300093	KARSTIKO PARAKTIO ASTEROUSION	Good	Good	Good	Good	
EL1300102	PORODES ROUSOCHORION	Poor	Poor	Poor	Poor	
EL1300111	KARSTIKO DYTIKIS DIKTIS	Good	Good	Good	Good	
EL1300171	KARSTIKO PALAIOCHORAS	Good	Good	Good	Good	
EL1300173	KARSTIKO KANTANOU	Good	Good	Good	Good	
EL1300180	PORODES FRAGKOKASTELOU	Good	Good	Good	Good	
EL1300210	ROGMODES RETHYMNOU	Good	Good	Good	Good	
EL1300220	ROGMODES ASTEROUSION	Good	Good	Good	Good	
EL1300232	PORODES EMPAROU-PANAGIAS	Good	Good	Good	Good	
EL1300270	PORODES GAYDOU	Poor	Poor	Poor	Poor	
EL1300280	KARSTIKO GAYDOU	Good	Good	Good	Good	
EL1300290	ROGMODES GIOUCHTAS-OXY KEFALI (DAMANION - LARANIOU)	Good	Good	Good	Good	
EL1300302	KARSTIKO DAMANION-LARANIOU	Good	Good	Good	Good	
EL1300330	KARSTIKO GYPSON KRITIS	Good	Good	Good	Good	
		tern Crete Stre				
EL1300112	KARSTIKO MALION-SELENAS	Good	Good	Good	Good	
EL1300113	KARSTIKO VA. DIKTIS	Good	Good	Good	Good	
EL1300114	KARSTIKO LAKONION-ALMYROU AG. NIKOLAOU	Good	Good	Good	Good	

		1 st F	RBMP	1 st Revi	sion of RBMP
GWB Code	GWB Name	Chemical status	Quantitative status	Chemical status	Quantitative status
EL1300116	KARSTIKO PARAKTIO SISIOU- MILATOU-ELOUNTAS	Good	Good	Good	Good
EL1300117	KARSTIKO ANATOLIKIS-NOTIAS DIKTIS	Good	Good	Good	Good
EL1300121	PORODES IERAPETRAS-KENTRIOU	Poor	Good	Poor	Good
EL1300122	PORODES PACHEIAS AMMOU- KALOU CHORIOU	Good	Good	Good	Good
EL1300123	PORODES IERAPETRAS-KALOU CHORIOU	Good	Good	Good	Good
EL1300124	PORODES MYRTOU	Good	Good	Good	Good
EL1300131	KARSTIKO ORNOU	Good	Good	Good	Good
EL1300132	KARSTIKO PARAKTIO MALAYRAS- PACHEIAS AMMOU	Good	Good	Good	Good
EL1300133	KARSTIKO THRYPTIS	Good	Good	Good	Good
EL1300134	KARSTIKO PEYKON - MARONIAS	Good	Good	Good	Good
EL1300141	PORODES SITEIAS- PAPAGIANNADON-AGIAS TRIADAS	Good	Good	Good	Good
EL1300142	PORODES KOUTSOURA- MAKRYGIALOU	Good	Good	Good	Good
EL1300143	PORODES SKOPIS-SITEIAS	Good	Poor	Good	Good
EL1300144	PORODES GOUDOURA	Poor	Poor	Poor	Poor
EL1300151	KARSTIKO OREON ZAKROU	Good	Good	Good	Good
EL1300152	KARSTIKO VA. APOLIXEON OREON ZAKROU	Good	Good	Good	Good
EL1300153	KARSTIKO PARAKTIO ANATOLIKON APOLIXEON OREON ZAKROU	Good	Good	Good	Good
EL1300154	KARSTIKO OREON PIGIS ZOU	Good	Good	Good	Good
EL1300161	PORODES FOINIKODASOUS VAI	Good	Good	Good	Good
EL1300162	PORODES MONIS TOPLOU- PALAIKASTROU-XIROKAMPOU	Good	Good	Good	Good
EL1300233	PORODES ANO VIANNOU	Good	Good	Good	Good
EL1300234	PORODES KERATOKAMPOU-ARVIS	Good	Good	Good	Good
EL1300240	ROGMODES DIKTIS	Good	Good	Good	Good
EL1300260	ROGMODES OREON ZAKROU	Good	Good	Good	Good
EL1300320	ROGMODES ORNOU-THRYPTIS	Good	Good	Good	Good
EL1300340	NISIDES KRITIS	Good	Good	Good	Good



Map 6-13 Chemical status of GWBs of Crete RBD (EL13)



Map 6-14 Quantitative status of GWBs of Crete RBD (EL13)

7 ECONOMIC ANALYSIS OF WATER USES

7.1 Water service cost estimation - Financial Cost

7.1.1 Water services for public water supply and sewage collection/ treatment

The total financial cost of public water supply and sewage collection/ treatment in Crete RBD (EL13) amounts to $65.767.264 \in$. The recovery of the financial cost at RBD level is 90,77%, with the revenue at \notin 59,5 million versus cost at \notin 65,8 million.

RB	Total financial cost (€)	Average financial cost per unit (€/m³)	Total revenue (€)	Average revenue per unit (€/m3)	Financial cost recovery
EL1339	53.482.486	1,00	46.704.068	0,87	87,33%
EL1340	5.085.341	1,02	4.504.286	0,90	88,57%
EL1341	7.199.437	1,14	8.246.366	1,31	114,54%
TOTAL RBD	65.767.264	1,01	59.454.720	0,92	90,77%

 Table 7-1
 Public water supply financial cost recovery at RBs of Crete RBD (EL13)

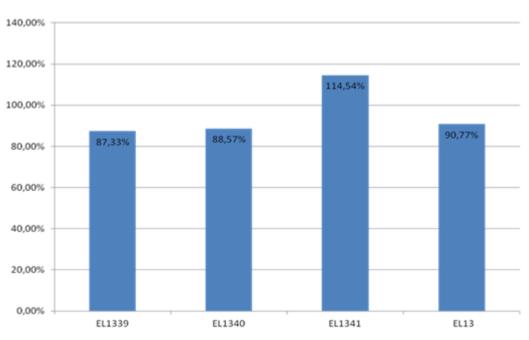


Chart 7-1 Public water supply financial cost recovery at RBs of Crete RBD (EL13)

With regards to the industry, it is estimated that the weighted consumption is 750.000 m³. In the RB examined (EL13), the water service providers operating for the industry are mainly water suppliers, such as the Cretan Development Organization and Municipal Enterprises for Water Supply and Sewerage (MEWSS). For those areas MEWSS' do not operate, Municipalities offer water supply services. The weighted water price for industrial use is estimated as $1 \notin /m^3$.

7.1.2 Water services for Agricultural usage

The total financial cost of Water services for Agricultural usage in Crete RBD (EL13) was estimated at 9.599.660 \in . The recovery of the financial cost at RBD level is 82,72%, with the revenue at \in 7,9 million versus cost at \notin 9,6 million.

RB	Total financial cost (€)	Average financial cost per unit (€/m³)	Total revenue (€)	Average revenue per unit (€/m3)	Financial cost recovery
EL1339	4.152.260	0,14	3.618.367	0,12	87,14%
EL1340	1.955.394	0,07	1.991.623	0,07	101,85%
EL1341	3.492.007	0,14	2.330.775	0,10	66,75%
TOTAL RBD	9.599.660	0,12	7.940.765	0,10	82,72%



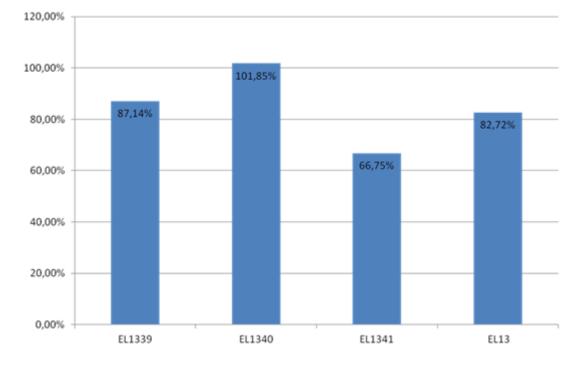


Chart 7-2 Agricultural usage financial cost recovery at RBs of Crete RBD (EL13)

7.2 Environmental and resource cost

7.2.1 Environmental cost estimation

The environmental cost at RBD level amounts to $212.000 \in (\text{Table 7-3})$. 69.4% is attributed to the RB of the Northern Part Chania-Rethymno-Irakleio Streams (EL1339), 26.3% to the RB of the Southern Part Chania-Rethymno-Irakleio Streams (EL1340) and 4.3% to the RB of the Eastern Crete Streams (EL1341). The environmental cost per unit at RBD level is estimated at 0.0001 \notin /m³.

Table 7-3 Environmental cost per RB of Crete RBD (EL13)

RB	Total environmental cost (€)	Environmental cost per unit (€/m ³)
RB of the Northern Part of the Chania-Rethymno-Irakleio Streams (EL1339)	147.220	0,0001
RB of the Southern Part of the Chania-Rethymno-Irakleio Streams (EL1340)	55.684	0,0001
RB of the Eastern Crete Streams (EL1341)	9.096	0,00002
TOTAL RBD	212.000	0,0001

Table 7-4 Distribution of Environmental Cost per Water Use in the RBs of Crete RBD (EL13)

Environmental Cost	Public water supply	Livestock	Irrigation	Industry	Total
RB of the Northern Pa	rt of the Cha	nia-Rethymno	o-Irakleio Stre	eams (EL1339)	
Total cost for all years of measures implementation (€)	98.882	625	47.360	353	147.220
Annual cost per use (€)	24.721	156	11.840	88	36.805
Participation of the use (%) in total annual cost	67,17%	0,42%	32,17%	0,24%	100,00%
Annual Cost per unit (€/m³)	0,0003	0,0001	0,0001	0,000001	0,0001
RB of the Southern Pa	rt of the Cha	nia-Rethymno	o-Irakleio Stre	eams (EL1340)	
Total cost for all years of measures implementation (€)	4.836	363	50.289	196	55.684
Annual cost per use (€)	1.209	91	12.572	49	13.921
Participation of the use (%) in total annual cost	8,68%	0,65%	90,31%	0,35%	100,00%
Annual Cost per unit (€/m³)	0,0001	0,0001	0,0001	0,0000004	0,0001
RB of	f the Eastern	Crete Stream	s (EL1341)		
Total cost for all years of measures implementation (€)	0	18	9.078	0	9.096
Annual cost per use (€)	0	4	2.269	0	2.274
Participation of the use (%) in total annual cost	0,0%	0,20%	99,80%	0,0%	100,00%
Annual Cost per unit (€/m³)	0	0,00001	0,00002	0	0,00002

In the RB of the Northern Part Chania-Rethymno-Irakleio Streams (EL1339), 67,17% of the total annual cost of the RB is attributed to public water supply, 0,42% to livestock, 32,17% to irrigation and finally 0,24% to the industry.

With regards to the RB of the Shouthern Part Chania-Rethymno-Irakleio Streams (EL1340), 8,68% of the total annual cost is attributed to public water supply, 0,65% to livestock, 90,31% to irrigation and 0,35% to the industry.

Finally, the total annual cost of the RB of the Eastern Crete Streams (EL1341) is attributed to irrigation (99,80%) and to livestock (0,20%).

7.2.2 Resource cost estimation

The resource cost at RBD level amounts to $198.000 \in ($ **Table 7-5**). 78,4% is attributed to the RB of the Northern Part of Chania-Rethymno-Irakleio Streams (EL1339), 21.2% to the RB of the Southern Part of Chania-Rethymno-Irakleio Streams (EL1340) and 0,4% to the RB of the Eastern Crete Streams (EL1341). The resource cost per unit at RBD level is estimated at $0.0001 \notin m^3$.

 Table 7-5
 Resource cost per RB of Crete RBD (EL13)

RB	Total resource cost (€)	Annual resource cost per unit (€/m ³)
RB of the Northern Part of the Chania-Rethymno-Irakleio Streams (EL1339)	155.176	0,0001
RB of the Southern Part of the Chania-Rethymno-Irakleio Streams (EL1340)	42.072	0,0001
RB of the Eastern Crete Streams (EL1341)	752	0,000001
TOTAL RBD	198.000	0,0001

The resource cost distribution per usage is presented in the table that follows.

Table 7-6 Distribution of Resource Cost per Water Use in the RBs of Crete RBD (El

Resource Cost	Public water supply	Livestock	Irrigation	Industry	Total	
RB of the Northern P	art of the Chania-	Rethymno-Ira	kleio Streams	(EL1339)		
Total cost for all years of measures implementation (€)	27.779	60	126.953	385	155.176	
Annual cost per use (€)	6.945	15	31.738	96	38.794	
Participation of the use (%) in total annual cost	17,90%	0,04%	81,81%	0,25%	100,00%	
Annual Cost per unit (€/m³)	0,0001	0,00001	0,0002	0,0003	0,0001	
RB of the Southern Part of the Chania-Rethymno-Irakleio Streams (EL1340)						
Total cost for all years of measures implementation (€)	1.075	21	40.969	7	42.072	
Annual cost per use (€)	269	5	10.242	2	10.518	
Participation of the use (%) in total annual cost	2,55%	0,05%	97,38%	0,02%	100,00%	
Annual Cost per unit (€/m³)	0,00002	0,000005	0,0001	0,000006	0,0001	
RB	of the Eastern Cret	te Streams (EL	1341)			
Total cost for all years of measures implementation (€)	0	0,42	751	0,09	752	
Annual cost per use (€)	0	0,10	188	0,02	188	

Ministry of Environment and Energy, Special Secretariat for Water

1st Revision of the Management Plan of Crete River Basin District (EL 13)

Resource Cost	Public water supply	Livestock	Irrigation	Industry	Total
Participation of the use (%) in total annual cost	0,00%	0,06%	99,93%	0,01%	100,00%
Annual Cost per unit (€/m³)	0,00	0,000003	0,000002	0,000003	0,000001

In the RB of the Northern Part of the Chania-Rethymno-Irakleio Streams (EL1339), 17,90% of the total annual environmental cost of the RB is attributed to public water supply, 0,04% to livestock, 81,81% to irrigation and finally 0,25% to the industry.

With regards to the RB of the Shouthern Part of the Chania-Rethymno-Irakleio Streams (EL1340), 2,55% of the total annual cost is attributed to public water supply, 0,05% to livestock, 97,38% to irrigation and 0,02% to the industry.

Finally, the total annual cost of the RB of the Eastern Crete Streams (EL1341) is attributed to irrigation (99,93%), to the industry (0,01%) and to livestock (0,06%).

8 ENVIRONMENTAL OBJECTIVES - EXEMPTIONS

8.1 Summary of environmental Objectives and Exemptions

The following table summarizes the objectives for the 153 surface WBs of Crete RBD (EL13) by 2021:

Table 8-1Objectives of surface WBs by 2021

Objective	Number of surface WBs
No deterioration in good and high ecological status / potential	103
No deterioration in good chemical status	153
Achievement of good ecological status	1
Achievement of good chemical status	0
Determination of ecological status/potential	18
Determination of chemical status	0
Exemption - Article 4.4	47
Exemption - Article 4.5	0
Exemption - Article 4.6	0
Exemption - Article 4.7	3

The following table summarizes the objectives for the 91 GWBs of Crete RBD (EL13) by 2021:

Table 8-2Objectives of GWBs by 2021

Objective	Number of GWBs
No deterioration in good quantitative status	82
No deterioration in good chemical status	82
Achievement of good quantitative status	0
Achievement of good chemical status	0
Exemption - Article 4.4– quantitative status	9
Exemption - Article 4.4– chemical status	9
Exemption - Article 4.5	0
Exemption - Article 4.6	0
Exemption - Article 4.7	0

8.2 Deadline Extension (Article 4.4, Directive 2000/60 /EC)

Table 8-3Exceptions of WB's by 2021

	Exception		
	Category	Subcategory	of WBs
Ecological status of WBs	Article 4.4/ Deadline extension	Technical feasibility. Solving the problem requires more time than is available.	46
Ecological status of WBs	Article 4.4/ Deadline extension	Technical feasibility. There is no information about the cause of the problem and therefore the solution cannot be detected	1
Quantitative status of GWBs	Article 4.4/ Deadline extension	Technical feasibility. Solving the problem requires more time than is available.	9
Chemical status of GWBs	Article 4.4/ Deadline extension	Technical feasibility. Solving the problem requires more time than is available.	9

8.3 Less stringent environmental objectives (Article 4.5, Directive 2000/60 /EC)

In this revision of the RBMP less stringent environmental objectives are not set for any GWB or surface WB. This exemption category will be reviewed in the next revision of the RBMP, taking into account new monitoring data and after the assessment of technically feasible measures.

8.4 Temporary deterioration in the status of WBs (Article 4.6, Directive 2000/60 /EC)

The status of GWBs and SWBs is not temporarily deteriorate in this revision of the RBMP. This exemption category will be reviewed in the next revision of the RBMP, taking into account new monitoring data and after the assessment of technically feasible measures.

8.5 New And Planned Water Resources Development Projects (Article 4.7, Directive 2000/60 /EC)

In the 1st revision of the RBMPs the assessment process of the potential subsumption in paragraph 7 of Article 4 of Directive 2000/60/EC was determined for WBs which are affected by planned projects.

For this aim a special analytical methodology was drawn up, which is available via the relevant webpage of Special Secretariat for Water <u>http://wfdver.ypeka.gr/</u>. The implementation of subsumption process in article 4.7 is described in detail. This process is valid from the approval of the current RBMP and refers to planned projects for which no environmental licensing request has been submitted, or, in cases which based on the current legislature, Decision for the Approval of Environmental Terms is not needed, or no permission request for construction/establishment/ operation is submitted to the competent authorities.

In the 1st RBMP, five (5) river WBs were defined, which based on the provisions of article 4.7 are considered as exemptions due to new modifications caused from projects. In the current 1st revision of the RBMP, from five (5) WBs of the 1st RBMP which have been subsumed under the provisions of Article 4.7, the following three (3) river WBs still remain under the above referred provisions:

- EL1339R001401042N
- EL1340R000301029N
- EL1340R000301030N

9 PROGRAMME OF MEASURES

9.1 Introduction

The Programme of Measures is part of the Management Plan, it constitutes a "mechanism" for the achievement of the environmental objectives set in it and aims in:

- the prevention of deterioration, the improvement and the remediation of surface water bodies, the achievement of "Good" ecological and chemical status, and the mitigation of the pollution through the discharge and the emission of hazardous substances.
- the protection, the improvement and the remediation of groundwater bodies' status, the prevention of their pollution and the deterioration of their status in order to achieve balance between abstraction and discharge.
- the conservation of Protected Areas

The measures are divided into **Basic** and **Supplementary**.

The **Basic Measures**, according to par. 3 of Article 11 of the Directive are the minimum requirements to be met and include:

- Measures for the implementation of Community and national legislation on water protection (Group I).
- Other basic measures (**Group II**). These measures are releted to the basic principles of community and national legislation on water management and related to the horizontal implementation of actions per water bodies groups, in order to achieve or maintain Good status.

The **Supplementary Measures** are established and implemented in addition to the Basic Measures, in order to achieve the objectives identified in accordance with Article 4 of Directive 2000/60/EC. Member States may establish further supplementary measures for additional protection or improvement of the status of the water bodies of the Directive.

9.2 Progress In Implementing The Programme Of Measures of the 1st Management Plan

The programme of measures of the 1st RBMP included 46 Basic Measures.

Table 9-1 Number of Basic Measures of the 1st Management Plan per action

Actions related to measures	Measure number
Administrative acts	16
Constructions	1
Studies	7
Measures related to administrative acts but demand more more study or expertise research	7
Measures related to services/concultancy actions	15
Total	46

Table 9-2Summary of the implementation progress of the Basic Measures during the 1st Management
Plan

Measure category	Total number of Measures	Number of measures completed	Number of measures in progress/under construction	Number of measures that have not commenced
Measures to Implement the Cost Recovery Principle of Water Services (Article 9)	3	1	0	2
Measures to Promote Efficient and Sustainable Use of Water, in order not to jeopardize the Achievement of the Objectives of the Directive (Article 4)	12	2	5	5
Measures for the Protection of Water for Human Consumption (Article 7)	7	1	3	3
Measures for the Control of Surface and Groundwater Abstractions	6	1	3	2
Measures to Control and License the Artificial Recharge of GWBs	2	0	0	2
Measures for Point Sources of Pollution	7	3	3	1
Measures for Diffuse Sources of Pollution	3	0	1	2
Measures to Address Adverse Effects on the Status of Surface WB's, in particular by Hydromorphological Alterations	3	1	0	2
Specific Measures for Priority Substances and Other Pollutants	1	0	0	1
Measures for the Protection against Pollution Incidents due to Accidents/Extreme Natural Phenomena	2	0	1	1
Total	46	9	16	21

In addition to the Basic Measures above, the Measure Programme of the 1st RBMP includes **45 Supplementary Measures** related to 11 measure categories of the Directive 2000/60/EC. The number of measures per category, along with their implementation progress are summarized on the table that follows.

Measure category	Total number of Measures	Number of measures completed	Number of measures in progress/under construction	Number of measures that have not commenced
Measures related to Administrative Legislation	1	0	0	1
Abstraction Control	6	0	6	0
Pollutant Emission Control	6	0	1	5
Codes of Good Agricultural Practice	2	0	1	1
Efficiency and Reuse Measures	1	0	1	0
Artificial Recharge of Aquifers	2	0	1	1
Reconstitution and Restoration of Wetland Areas	7	1	0	6
Construction Works	8	0	4	4
Research, Development and Demonstration Projects	6	1	0	5
Educational Measures	3	0	2	1
Post-Negotiation Environmental Agreements	3	0	0	3
Total	45	2	16	27

Table 9-3Summary of the implementation progress of the Supplementary Measures during the 1st
Management Plan

9.3 Basic and Supplementary Measures Programme

Measure Implementation Timeline

In relation to the referring to the Measure Implementation Timeline, these are distinguished as:

- Short-term, which can be immediately applied.
- Mid-term, for which a preparation period is required for their implementation. This period estimated up to 2 years.
- Long-term, for which the preparation and/or construction period of measures exceeds the period of 2 years.

With regards to the mid-term and long-term implementation measures, the competent bodies responsible for the implementation should include in their immediate schedule all these acts needed for the maturation of the actions of measures, with the scope of including them in funding programmes. For the implementation progress of the programme, Water Directorates and the SSW should inform the competent bodies involved to design a wholistic time schedule for the action implementation, within their administrative boundaries of competence.

Bodies for measure implementation

In relation to the bodies for the implementation of measures, the following clarifications are made:

- For every measure its implementation body is mentioned. All the bodies responsible for supervising the programme implementation are defined by law, and these are the SSW and the Water Directorates of the Decentralized Administrations.
- The SSW coordinates and supervises the implementation of measures which are executed by Ministries and/or bodies of the Central Government. The Water Directorate coordinates and

supervises the implementation of measures that are executed by regional services and/or bodies.

- The selection of the implementation bodies was made based on their competence, as it came up from the current institutional framework and the public administration structure.
- Reference on the implementation bodies is made on the basis of the senior administrative level of each body. In cases where lower administrative levels are referred to (e.g. Directorate or Department), this reference should only be indicative. The implementation body is the only one responsible for the inner distribution of competences for the implementation of measures based on the services provided. Additionally, the body should define the means and human resources needed for the implementation of its obligations.
- It is clarified that for the measures and actions the competent Water Directorate of the Decentralized Administration is referred to as implementation body, in cases where it would be incapable of implementing any phase or stage or even the measure as a whole, for any reason, this could be implemented in coordinaton with the SSW or with other competent services of the Decentralized Administration and the Administrative Regions.
- Regarding the implementation of the current Measure Programme, the spatial competence of the Regions and Decentralized Administrations, excluding the Water Directorates, is taking place within their administrative boundaries.
- In cases where more that one body is referred to, the first one is the implementation body of the measure and the following are supplementary.
- The National Water Committee, according to the No.706/2010 Decision (GG 1383/B/2010 and GG 1572/B/2010 correction of Annex II) and the approval of the various River Basin Management Plans, defines the competent Decentralized Administrations per River Basin for each River Basin District of the country.
- According to the No. 160817/20.12.2016 Decision of MEE (AΔA: 7ΔΠΘ4653Π8-8ΓP), the members of the Regional Task Team for each RBD were defined, which is responsible for the coordination of the measure implementation in the RBD level.
- The measures could be also implemented by additional bodies, provided that this is predicted by the current institutional framework.

New projects and activities

It is clarified that in cases where during the current Programme of Basic and Supplementary Measures, prohibitions or restrictions or certain requirements for "new" projects or activities are predicted, these do not refer to projects or activities or extension/modifications which, during the time the 1st Revision of the RBMP was in force, are either in progress or under construction or they belong to more than one of the following cases:

- An approval of environmental terms has been granted or a positive advise by the competent Water Directorate of the Decentralized Administration has been given, during the Environmental licensing process.
- 2. A permit application has been submitted, in relation to the execution of water utilization projects or to water usage, and has not been rejected from the request body.
- 3. They have not been included in funding programmes.

- 4. The execution permit of the projects or activities has been expired, but their execution has not been commenced and renewal is requested, while their technical characteristics have not been changed.
- 5. An administrative act for the project implementation has been occur, which provides the capability for the permit process of the project to advance.

In cases where projects fall into case 5 above, the Water Directorate could set additional specific terms/measures for the project or activity installation, with the scope of protecting the related WB's and according to the 1st Revision predictions.

In case of serious reservations and doubts by the Water Directorate of the Decentralized Administration with regards to the inclusion or not og a certain project/activity in one of the above cases, the SSW should be consulted.

It is clarified that the current projects mentioned in the RBMP are not related to the current ones or the current water usages mentioned in the JMD 146896/2014 (completed water abstraction works or usages before 27-10-2014).

9.3.1 Actions implementing EU Directives (Group I of Basic Measures)

The following table lists the provisions for the incorporation of the EU Directives into National Law. In the column of directives the amendments to these Directives from 2000 onwards are also mentioned.

DIRECTIVE	INCORPORATION INTO NATIONAL LAW
Bathing Water Directive (2006/7/EC)	JMD 8600/416/E103/23.02.2009 (GG 356/B/2009) concerning the "quality and management measures of Bathing waters in compliance with the provisions of Directive 2006/7/EC "concerning the management of bathing waters quality and repealing Directive 76/160/EEC"" as amended and in force.
Birds Directive (2009/147/ EC) and Habitats Directive (92/43/EEC)	JMD 37338/1807/E103/1.9.2010 (GG 1495/B/2010) "Determination of measures and procedures for the conservation of wild birdfauna and its habitats, in compliance the provisions of Directive 79/409/EEC "on the conservation of wild birds", of the European Council of 2 April 1979 as codified in Directive 2009/147/EC" and its amending JMD 8353/276/E103/2012 (GG 415/B/2010) JMD 33318/3028/11.12.1998 (GG 1289/B/1998) "Determination of measures and procedures for the conservation of natural habitats and wild fauna and flora" and its amendment JMD 14849/853/E103/2008 (GG 645/B/2008) in compliance with the Directive 92/43/EEC "on the conservation of natural habitats and of wild fauna and flora". Law 3937/2011 (GG 60/A/2011) "Biodiversity conservation and other provisions" JMD 50743/2017 (GG 4432/B/2017) "Revision of the national list of sites of the Natura 2000 European Ecological Network"
Drinking Water (Directives 98/83/EC, 2015/1787/EU)	JMD no. C1 (d)/ 67322/06.09.2017 (GG 3282/B/2017) "Quality of water intended for human consumption in compliance with the provisions of Directive 98/83/EC of 3 November 1998 as amended with Directive 2015/1787/EU (L260/7.10.2015)"
Environmental Impact Assessment from Projects/ Activities	Law 4014/2011 (GG 209/A/2011) "Environmental licensing of projects and activities, regulation of arbitrary in connection with the creation of an

Table 9-4	Provisions for the incorporation of the EU Directives into National Law
	riovisions for the incorporation of the Lo Directives into wational Law

Ministry of Environment and Energy, Special Secretariat for Water

1st Revision of the Management Plan of Crete River Basin District (EL 13)

DIRECTIVE	INCORPORATION INTO NATIONAL LAW
(Directives 2011/92/EU, 2014/52/EU)	environmental balance and other provisions of competence of Ministry of Environment"
Prevention – Control of Pollution (Directive 2010/75/EU)	JMD 36060/1155/E.103/2013 (GG 1450/B/2013) "Setting a framework of rules, measures and procedures for the integrated prevention and control of environmental pollution from industrial activities, in compliance with the directive 2010/75/EU "on industrial emissions (integrated prevention and control of pollution)" of the European Parliament and of the Council of 24 November 2010"
Protection from Nitrates (Directive 91/676/ EEC)	JMD 16190/1335/19.05.1997 (GG 519/B/1997) "Measures and conditions for the protection of waters against pollution caused by nitrates from agricultural sources" MD. 19652/1906/1999 (GG 1575/B/1999) "Identification of waters that are affected by pollution caused by nitrates from agricultural sources – Designation of vulnerable zones, in accordance with paragraphs 1 and 2 of article 4 of JMD 16190/1335/19.05.1997 "Measures and conditions for the protection of waters against pollution caused by nitrates from agricultural sources" (B 519). Amendment of articles 3,4,5 and 8 of the decision" as amended by MD 20419/2522/2001 (GG 1212/B/2001), MD 24838/1400/E103/2008 (GG 1132/B/2008), MD 106253/2010 (GG 1843/B/2010), MD 190126/2013 (GG 983/B/2013, MD 147070/2014 (GG 3224/B/2014) and in force. MD 1420/82031/2015 (GG 1709/B/2015) "Code of Good Agricultural Practice for the protection of waters against pollution caused by MD 2001/118518/2015, (GG 2359/B/2015) "Amendment of Deputy Minister for Productive Reconstruction, Environment and Energy Decision 1420/82031/2015 (GG 1709/B/2015) "Code of Good Agricultural Practice for the protection of waters against pollution caused by nitrates from agricultural sources" as amended by MD 2001/118518/2015, (GG 2359/B/2015) "Amendment of Deputy Minister for Productive Reconstruction, Environment and Energy Decision 1420/82031/2015 (GG 1709/B/2015) "Code of Good Agricultural Practice for the protection of waters against pollution caused by nitrates from agricultural sources" as amended by MD 2001/118518/2015, (GG 2359/B/2015) "Amendment of Deputy Minister for Productive Reconstruction, Environment and Energy Decision 1420/82031/2015 (GG 1709/B/2015) "Code of Good Agricultural Practice for the protection of waters against pollution caused by nitrates from agricultural sources""
PlantProtectionProducts(Directive2009/128/EC,Regulation(EC)1107/2009,Regulation(EU) No. 652/2014)	Law 4036/27.01.2012 (GG 8/A/2012) "Placing of pesticides on the market, rational use and relevant provisions" as amended and in force.
Responding to the risks of major accidents (Directive 2012/18/EU)	JMD 172058/2016 (GG 354/B/2016) "Determination of rules, measures and conditions for the control of major-accident hazards involving dangerous substances in facilities or units, in compliance with the provisions of Directive 2012/18/EU "on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC" of the European Parliament and of the Council of 4 July 2012. Replacement of no. 12044/613/2007 (376/B2007), as corrected (GG 2259/B/2007)"
Sewage sludge (Directive 86/278/EEC)	JMD 80568/4225/05.07.1991 (GG 641/B/1991) "Methods, conditions and restrictions for the use of sewage sludge from domestic and urban waste waters in agriculture"
Urban Waste Water Treatment (Directives 91/271/ ECC, 98/15/ EC)	JMD 5673/400/05.03.1997 (GG 192/B/1997) "Measures and conditions for Urban Waste Water Treatment" and its amending decisions MD 19661/1982/2.8.1999 (GG 1811/B/1999) and MD 48392/939/28.3.2002 (GG 405/B/2002)

The planned actions for the implementation of the Community and National Legislation on water protection are listed in the following table.

DIRECTIVE	PLANNED ACTIONS	IMPLEMENTING BODIES
Bathing Water (Directive 2006/7/ EC)	 Continue to monitor the quality of bathing waters in accordance with Directive 2006/7 / EC. Updating the Bathing Water Register 	SSW, Directorate of Water of the Decentralized Administration of Crete
Protection of wild birds (Directive 2009/147 / EC) and habitats (Directive 92/43 / EEC)	 Establishment/ approval of Management Plans for protected areas of Natura 2000 Network directly related with water, with particular reference to water management issues. Monitoring/Assessment of the conservation status of habitats and species directly depending on water in Natura 2000 sites. 	Ministry of Environment and Energy, Management Bodies of Protected Areas
Environmental Impacts from Projects/ Activities (Directives 2011/92/EU, 2014/52/EU)	 Amendment of the MD 170225/2014 (Specifications for the contents of environmental licensing dossiers for projects and activities of A category) so that for certain projects categories, which should be identified beforehand, to make the following mandatory: Emissions of pollutants by category, Impacts of pollution impacts on WBs defined in the Management Plans and Comparison of these concentrations to the Environmental Quality Standards. Establishment of a monitoring program and notification of its results to the relevant Water Directorate. 	Ministry of Environment and Energy
Prevention – Control of Pollution (Directive 2010/75/EU)	 Keeping records – registry of facilities included in the provisions of Directive 	Decentralized Administration of Crete (Directorate of Spatial and Environmental Policy)
	• Delimitation of a new vulnerable zone GWB "PORODES IERAPETRAS-KENTRIOU" (code EL1300121)	SSW, Ministry of Rural Development and Food
Protection from Nitrates (Directive 91/676/ EEC)	 For the area of" PORODES IERAPETRAS-KENTRIOU ", as well as for the Messara area, which has already been included in the vulnerable zones, it is necessary to establish Action Programs and to take any additional supplementary measure or reinforced action, in accordance with article 5 of JMD 16190/1335/1997. The study on the drafting of Action Programs in all vulnerable zones of the Country has been entrusted by the Ministry of Rural Development and Food to the Agricultural University and is under implementation. 	Ministry of Rural Development and Food
	 Systematic monitoring of nitrate levels in WBs that are or may be subjected to nitrate pollution 	SSW, Ministry of Rural Development and Food

DIRECTIVE	PLANNED ACTIONS	IMPLEMENTING BODIES
PlantProtectionProducts(Directive2009/128/EC,Regulation(EC)1107/2009,Regulation(EU)No.652/2014)	Rational use of plant protection products	Ministry of Rural Development and Food
Responding to the risks of major accidents (Directive 2012/18/EU)	 Keeping records – registry of facilities included in the provisions of Directive 	Decentralized Administration of Crete (Directorate of Spatial and Environmental Policy)
Sewage sludge (Directive 86/278/EEC)	 Setting up a JMD, on measures, conditions and procedures for the use of sludge from domestic and urban wastewater treatment and certain wastewater, in compliance with the provisions of Directive 86/278/EEC and in replacement of JMD 80568/4225/1991 and promotion of actions related to the safe disposal of treated sludge. 	Ministry of Environment and Energy
Urban Waste Water Treatment (Directives	 Completion of sewerage and waste water treatment projects of settlements that concerns the provisions of the Directive (covering all agglomerations with a population greater than 2,000 equivalent residents.). 	Region of Crete, MEWSS, Municipalities
91/271/ ECC, 98/15/ EC)	 Reinforcement of actions that control the effective operation of existing wastewater treatment and drainage projects. 	Region of Crete

9.3.2 Basic Measures of other Categories (Group II of Basic Measures)

Table 9-6 Basic measures of other categories

Code - Name of Measure	Category	Connection with the 1 st RBMP	Implementing Bodies
M13B0201 Update of the organizational function of Organizations of Land Reclamation for the compliance with the financial and other management data in order to meet the requirements of the Decision No. 135275 (GG 1751/B/2017) of the National Water Committee "Adoption of general costing and pricing rules for water services. Method and procedures for recovering the cost of water services in its various uses"	Measures to implement the cost recovery principle of Water Services (Article 9)	New measure	Organizations of Land reclamation (Local, General), Region of Crete, Ministry of Environment & Energy (Special Secretariat for Water), Ministry of Rural Development & Food
M13B0202 Upgrade of the organizational function of Municipal Water Supply and Sewerage Companies, for the compliance with the financial and other management data in order to	Measures to implement the cost recovery principle of Water Services (Article 9)	New measure	Municipal Water Supply and Sewerage Companies, Ministry of Environment & Energy (Special Secretariat for

Code - Name of Measure	Category	Connection with the 1 st RBMP	Implementing Bodies
meet the requirements of the Decision No. 135275 (GG 1751/B/2017) of the National Water Committee "Adoption of general costing and pricing rules for water services. Method and procedures for recovering the cost of water services in its various uses"			Water), Ministry of Interior
M13B0203 Upgrade of the organizational function of Local Administration Authorities, for the compliance with the financial and other management data in order to meet the requirements of the Decision No. 135275 (GG 1751/B/2017) of the National Water Committee "Adoption of general costing and pricing rules for water services. Method and procedures for recovering the cost of water services in its various uses"	Measures to implement the cost recovery principle of Water Services (Article 9)	New measure	Local Administration Authorities, Ministry of Environment & Energy (Special Secretariat for Water), Ministry of Interior
M13B0204 Training and education of all the stakeholders (Decentralized Administrations, Regions, Municipal Water Supply and Sewerage Companies, Organizations of Land Reclamation, Local Administration Authorities) for the implementation of the requirements of the Decision No. 135275 (GG 1751/B/2017) of the National Water Committee "Adoption of general costing and pricing rules for water services. Method and procedures for recovering the cost of water services in its various uses"	Measures to implement the cost recovery principle of Water Services (Article 9)	New measure	Ministry of Environment & Energy (Special Secretariat for Water),
M13B0301 Implementation / Update of General Public Water Supply Masterplans	Measures to promote efficient and sustainable use of water, in order not to jeopardize the achievement of the objectives of the Directive (Article 4)	Specialization of measure OM03- 02	MEWSSs, Municipalities, Public water suppliers, Decentralized Administration (Water Directorate)
M13B0302 Actions for the reinforcement, rehabilitation, modernization of public water supply networks and leakage control	Measures to promote efficient and sustainable use of water, in order not to jeopardize the achievement of the	Amendment /Specialization of measures OM02- 02, SM11-01, SM11-02, SM11- 04 and SM11-06	Municipalities, MEWSSs, Public water suppliers, Region of Crete, Decentralized Administration (Water Directorate)

$1^{\mbox{\scriptsize st}}$ Revision of the Management Plan of Crete River Basin District (EL 13)

Code - Name of Measure	Category	Connection with the 1 st RBMP	Implementing Bodies
	objectives of the Directive (Article 4)		
M13B0303 Increase the efficiency of water use in land reclamation infrastructures	Measures to promote efficient and sustainable use of water, in order not to jeopardize the achievement of the objectives of the Directive (Article 4)	Amendment /Specialization of measures OM02- 03, OM02-09, OM02-10, SM11- 02, SM11-03 and SM11-05.	Ministry of Rural Development and Food, Region of Crete
M13B0304 Investments for saving water in agriculture	Measures to promote efficient and sustainable use of water, in order not to jeopardize the achievement of the objectives of the Directive (Article 4)	leasures to promote efficient and sustainable use of ater, in order not to jeopardize the achievement of the objectives of the	
M13B0305 Determination of maximum irrigation requirements for crops for private water abstractions	Measures to promote efficient and sustainable use of water, in order not to jeopardize the achievement of the objectives of the Directive (Article 4)	Amendment /Specialization of measure OM04- 02	Decentralized Administration (Water Directorate), Directorate of Agricultural Economy & Veterinary of the Region of Crete
M13B0306 Reinforcement of actions of loss reduction on collective irrigation networks	Measures to promote efficient and sustainable use of water, in order not to jeopardize the achievement of the objectives of the Directive (Article 4)	Amendment /Specialization of measure OM02- 09	General Organizations of Land reclamation, Local, Organizations of Land reclamation, Municipalities, Collective Irrigation Networks, Region of Crete
M13B0307 Implementation of a manual of technical specifications for the application of water reuse methods	Measures to promote efficient and sustainable use of water, in order not to jeopardize the achievement of the objectives of the Directive (Article 4)	Continuation of measure OM02- 06	Ministry of Environment & Energy (Special Secretariat for Water),
M13B0308 Implementation of a Strategic Plan to Address Drought and Water Scarcity events	Measures to promote efficient and sustainable use of water, in order not to jeopardize the achievement of the objectives of the Directive (Article 4)	Continuation of measure OM02- 01	Decentralized Administration (Water Directorate), Ministry of Environment & Energy (Special Secretariat for Water),
M13B0401 Designation and delimitation of zones and / or measures for the	Measures for the protection of water for human	Amendment of measures OM03-	Decentralized Administration (Water Directorate) and Public

Code - Name of Measure	Category	Connection with the 1 st RBMP	Implementing Bodies
protection of water abstraction points, intended for human consumption from groundwater bodies	consumption (Article 7)	01, OM03-02 and OM03-03	water suppliers (MEWSSs, Municipalities etc.)
M13B0402 Protection of GWBs included in the register of protected areas for human consumption and establishment of an institutional framework of protection	s for for human /Specialization of measure OM03-		Decentralized Administration (Water Directorate)
M13B0403 Protection of surface water abstraction works for public water supply	Measures for the protection of water for human consumption (Article 7)	New measure	MEWSSs, Municipalities, Public water suppliers, Decentralized Administration (Water Directorate)
M13B0404 Implementation of Water Safety Plans	Measures for the protection of water for human consumption (Article 7)	Amendment of measure OM03- 06	MEWSSs, Municipalities, Public water suppliers, Decentralized Administration (Water Directorate)
M13B0501 Restrictions, terms and conditions for the construction of groundwater abstraction works (boreholes, wells, etc.) for new uses, as well as for the extension of existing water use permits to: (a) area of GWBs with a Poor quantitative status (b) the protection zone II of the abstraction works of public water supply networks operated by Municipalities, Municipalities links, MEWSSs, Intermunicipal Water Supply and Sewerage Companies and Public Water Supply companies (c) zones of collective irrigation networks (d) coastal GWBs of Poor chemical status due to salinity intrusion of human origin	Measures for the control of surface and groundwater abstractions and surface water storage	Amendment of measures SM04- 02, SM04-04 and SM04-05	Decentralized Administration (Water Directorate)
M13B0502 Annual electronic recording of surface water and groundwater abstractions	Measures for the control of surface and groundwater abstractions and surface water storage	Amendment /Specialization of measure SM04- 06	Ministry of Environment & Energy (Special Secretariat for Water), Decentralized Administration (Water Directorate), Region of Crete
M13B0601 Investigation of the conditions of application of artificial recharge of	Measures to control and license the	Continuation of measure OM05- 02	Region of Crete, Municipalities, Decentralized

Code - Name of Measure	Category	Connection with the 1 st RBMP	Implementing Bodies
underground aquifers as a mean of quantitative enhancement and quality protection of GWBs, with a priority for GWBs with poor condition and treatment of salinity intrusion	artificial recharge of GWBs		Administration (Water Directorate)
M13B0602 Establishment of a National Register of treated wastewater disposal sites (JMD 145116/2011, GG 354/B/2011)	Measures to control and license the artificial recharge of GWBs	Continuation of measure OM05- 01	Ministry of Environment & Energy (Special Secretariat for Water), Decentralized Administration (Water Directorate)
M13B0701 Reinforcement of environmental inspections and audits	Measures for point sources of pollution	Continuation and Specialization of measures OM06- 01, SM05-05, SM05-06 and OM07-02	Region of Crete
M13B0702 Modernization of national legislation on wastewater and industrial waste management	Measures for point sources of pollution	Continuation of measure OM06- 03	Ministry of Environment & Energy (Special Secretariat for Water), Ministry of Health
M13B0703 Programme of surveillance monitoring of the quality status in groundwater and surface water bodies in areas of existing Landfill Sites	Measures for point sources of pollution	Continuation and Specialization of measure SM05-04	Operating bodies of Landfill Sites, National Monitoring Network Bodies coordinated by the Water Directorate
M13B0704 Conditions for the licensing of new / extension of existing aquaculture units	Measures for point sources of pollution	Continuation of measure OM06- 06	Ministry of Environment & Energy, Decentralized Administration, Region of Crete
M13B0705 Establishment of rules for sinkholes protection	Measures for point and diffuse sources of pollution	Amendment of measure SM05- 02	Decentralized Administration (Water Directorate)
M13B0801 Biological agriculture	Measures for diffuse sources of pollution	New Meassure	Ministry of Rural Development and Food (Directorate of Quality Systems, Organic Production and Geographical Indications)
M13B0802 Modernization of the institutional framework for sludge management from urban waste water treatment plants with emphasis on widening the scope and updating the quality characteristics of the applicable sludge	Measures for diffuse sources of pollution	Continuation of measure OM07- 03	Ministry of Environment & Energy (Environmental Certification Directorate), Ministry of Rural Development and Food
M13B0803 Reduce diffuse pollution from agriculture in the vulnerable zones of Directive 91/676/EEC	Measures for diffuse sources of pollution	New Meassure	Ministry of Rural Development and Food, Region of Crete

Code - Name of Measure	Category	Connection with the 1 st RBMP	Implementing Bodies
M13B0902 Determination of minimum level of natural lakes & determination of maximum range of reservoirs' level	Measures to address adverse effects on the status of surface water bodies, in particular by hydromorphological alterations	Amendment of measures SM10- 03 and SM10-04	Project owner, Region of Crete, Protected Areas Management Bodies, Decentralized Administration (Water Directorate)
M13B0903 Establishment of national methodology and specifications for the determination of ecological flow of River WBs	Measures to address adverse effects on the status of surface water bodies, in particular by hydromorphological alterations	Amendment of measure OM04- 06	Ministry of Environment & Energy (Special Secretariat for Water)
M13B0904 Special Measures for the achievement of Good Ecological potential in HMWBs	Measures to address adverse effects on the status of surface water bodies, in particular by hydromorphological alterations	New Meassure	Ministry of Environment & Energy (Special Secretariat for Water), Decentralized Administration (Water Directorate), Region of Crete
M13B0905 Determination of selected areas for river sediment deposits removal to meet the needs of technical projects	Measures to address adverse effects on the status of surface water bodies, in particular by hydromorphological alterations	Continuation of measure OM08- 02	Region of Crete, Decentralized Administration (Directorate of Environment and Spatial Planning, Water Directorate), Municipalities
M13B0906 Monitoring, recording and rehabilitation of coastal erosion	Measures to address adverse effects on the status of surface water bodies, in particular by hydromorphological alterations	Amendment of measure OM08- 01	Ministry of Infrastructure, and Transport, Region of Crete, Decentralized Administration (Water Directorate)
M13B1101 Compilation of pollution sources registry (emissions, discharges and leaks)	Measures for Priority Substances and other pollutants.	Amendment of measure OM10- 01	Ministry of Environment & Energy (Special Secretariat for Water)
M13B1102 Establishment/ determination of pollutants emission limits in RB level for priority substances and other pollutants of the JMD 51354/2641/E103/2010 as in force, as well as for Physicochemical parameters in relation to the quality objectives of the Management Plans	Measures for Priority Substances and other pollutants.	New Meassure	Decentralized Administration (Water Directorate). Ministry of Environment & Energy (Special Secretariat for Water)

9.3.3 Supplementary measures

For achieving the goals of the RBMP, the implication of the basic measures is essential to be supported by supplementary measures.

Methodologically, supplementary measures were suggested:

- a) For the conservation of the status of the SWB's and the GWB's, along with increasing the knowledge and awareness related to the rational water usage of targeted users. In this case, the supplementary measures are horizontally implied and the WB's to be impacted are not exclusively defined.
- b) For WB's estimated that, despite the measure programme implication, won't reach their "good status" goal by 2021, and more specifically:
 - For WB's that, according to measurements of their qualitative and quantitative parameters or to the new grouping methodological approach, have a "lower than good" status.
 - For WB's that, while they have an unknown or good status, there are certain indications through the analysis of the pressures, that they are in danger of not achieving their environmental goals.

Measurements of (b) case are taken into consideration for the calculation of the environmental coast and/or the resource cost, according to the predictions of the JMD 135275 of the National Water Committee (GG 1751/B/22-05-2017).

The table that follows records the WB's of the RBD for which the adoption of specific supplementary measures is required.

Table 9-7 Waterbodies of the Crete RBD (EL13), for which the adoption of supplementary measures is considered necessary

WB Code	WB Name	Category	Current Status/Potential	Pressures
EL1339R000401012H	KERITIS	River	Unknown Ecological Good Chemical	Water abstraction-Agriculture and Public Water Supply
EL1339R001001026H	SFAKORIAKO	River	Unknown Ecological Good Chemical	Water abstraction-Agriculture
EL1339R001001063H	SFAKORIAKO	River	Unknown Ecological Good Chemical	Water abstraction-Agriculture
EL1339R001603048H	APOSELEMIS	River	Unknown Ecological Good Chemical	Water abstraction-Public Water Supply
EL1340R000104108H	ANAPODARIS	River	Unknown Ecological Good Chemical	Water abstraction-Agriculture
EL1340R000109012H	ANAPODARIS	River	Unknown Ecological Good Chemical	Water abstraction-Agriculture
EL1340R000204124H	GEROPOTAMOS	River	Unknown Ecological Good Chemical	Water abstraction-Agriculture
EL1341R000501010H	BRAMIANOS	River	Unknown Ecological Good Chemical	Water abstraction-Agriculture and Public Water Supply
EL1339RL01001002H	R. POTAMON	River	Unknown Ecological Good Chemical	Water abstraction-Agriculture
EL1339RL01605003H	R. APOSELEMI	River	Unknown Ecological Good Chemical	Water abstraction-Public Water Supply
EL1340RL00109102H	R. PLAKIOTISSAS	River	Unknown Ecological Good Chemical	Water abstraction-Agriculture
EL133901T0001N	TAVRONITIS	Transitional	Unknown Ecological Good Chemical	Urban development Diffusive-Agriculture
EL133901T0002N	KERITIS	Transitional	Unknown Ecological Good Chemical	Diffusive -Agriculture
EL133901T0003N	KOILIARIS	Transitional	Unknown Ecological Good Chemical	Diffusive -Agriculture
EL133901T0004N	MOUSELAS	Transitional	Unknown Ecological Good Chemical	Diffusive -Agriculture

Ministry of Environment and Energy, Special Secretariat for Water

1st Revision of the Management Plan of Crete River Basin District (EL 13)

WB Code	WB Name	Category	Current Status/Potential	Pressures
EL1339C0003N	ORMOS SOUDAS	Coastal	Moderate Ecological Good Chemical	Urban development, Chania Port Cretan Naval Base
EL1300064	KARSTIKO KERIS- TYLISSOU	Groundwater	Poor Quantitative Poor Chemical	Water abstraction-Public Water Supply
EL1300072	PORODES PARAKTIO VOREIOU IRAKLEIOU	Groundwater	Poor Quantitative Poor Chemical	Water abstraction-Agriculture and Public Water Supply
EL1300101	PORODES KASTELIOU	Groundwater	Poor Quantitative Good Chemical	Water abstraction-Agriculture
EL1300312	KARSTIKO PARAKTIO IRAKLEIOU-GOUVON- CHERSONISOU	Groundwater	Poor Quantitative Poor Chemical	Water abstraction-Agriculture and Public Water Supply
EL1300082	PORODES PARAKTIO TYMPAKIOU	Groundwater	Poor Quantitative Poor Chemical	Water abstraction-Agriculture
EL1300083	PORODES MOIRON	Groundwater	Poor Quantitative Poor Chemical	Water abstraction-Agriculture Diffusive -Agriculture
EL1300102	PORODES ROUSOCHORION	Groundwater	Poor Quantitative Poor Chemical	Water abstraction-Agriculture Diffusive -Agriculture
EL1300270	PORODES GAYDOU	Groundwater	Poor Quantitative Poor Chemical	Water abstraction-Agriculture and Public Water Supply
EL1300121	PORODES IERAPETRAS- KENTRIOU	Groundwater	Good Quantitative Poor Chemical	Diffusive -Agriculture
EL1300144	PORODES GOUDOURA	Groundwater	Poor Quantitative Poor Chemical	Water abstraction-Agriculture and Public Water Supply

The Measure Programme of the examined RBD includes 21 Supplementary Measures which are presented in the table following:

Table 9-8Supplementary measures

Code - Name of Measure	Category	Connection with the 1 st RBMP	Affected WBs	Implementing Bodies	Cost
M13Σ0201 Development of a Monitoring System for the Programme of Measures of the RBMP	Administrative measures	New Measure	All WBs of RBD	Decentralized Administration of Crete (Water Directorate)	650.000 €
M13Σ0202 Additional restrictive administrative measures	Administrative measures	New Measure	All WBs of RBD	Decentralized Administration of Crete (Water Directorate)	0€
M13Σ0203 Measures to control / save water in areas with greenhouse crops	Administrative measures	Continuation of measure SM08-01	All GWBs of RBD	Decentralized Administration of Crete (Water Directorate)	0€
M13Σ0204 Protection of riparian vegetation of streams, lakes and wetlands	Administrative measures	Continuation of measure SM10-02	All inland surface WBs of RBD	Decentralized Administration (Forests Directorates, Directorate of forests coordination and supervision, Water Directorate)	0€
M13Σ0501 Implementation of investments in agriculture and livestock holdings, aiming to improve environmental performance.	Emission controls	New Measure	All WBs of RBD	Ministry of Rural Development and Food, Region of Crete	372.000 €
M13Σ0801 Controlling artesian boreholes	Abstraction Controls	Amendment of measure SM04-06	All GWBs of RBD	Owner of the borehole, Decentralized Administration of Crete (Water Directorate)	0€
M13Σ0802 Replacement of the existing public water supply boreholes that abstract water from GWBs of Poor Chemical or Quantitative status with new boreholes, in nearby aquifers of Good Chemical or Quantitative status	Abstraction Controls	Continuation of measure SM04-03	EL1300064, EL1300072, EL1300082, EL1300083, EL1300270, EL1300102, EL1300121, EL1300085, EL1300052, EL1300021, EL1300044, EL1300093, EL1300086, EL1300123,	MEWSSs, Municipalities, Decentralized Administration of Crete (Water Directorate)	1.100.000€

Ministry of Environment and Energy, Special Secretariat for Water

1st Revision of the Management Plan of Crete River Basin District (EL 13)

Code - Name of Measure	Category	Connection with the 1 st RBMP	Affected WBs	Implementing Bodies	Cost
			EL1300112, EL1300101, EL1300144, EL1300312, EL1300116, EL1300141, EL1300322		
M13Σ0803 Development of an operational plan for the regulation of the Agia spring	Abstraction Controls	Continuation of measure SM14-04	EL1300031, EL1339R000401012H	Decentralized Administration of Crete (Water Directorate)	10.000€
M13Σ1001 Utilization of treated wastewater of WWTP of Heraklion for artificial recharge of aquifers not intended for human consumption	Efficiency and reuse measures	Specialization of measure SM09-02	EL1300330	MEWSS of Heraklion, Decentralized Administration of Crete (Water Directorate)	100.000€
M13Σ1401 Artificial recharge projects of basin Thrapsano - Nipiditou	Artificial recharge of GWBs	Amendment of measure SM09-01	EL1300101	MEWSS of Heraklion, Decentralized Administration of Crete (Water Directorate)	100.000€
M13Σ1501 Professional training of farmers/ breeders for the protection of water bodies	Educational measures	Amendment of measure SM15-01	All WBs of RBD	Ministry of Rural Development and Food, Region of Crete	190.000€
M13Σ1502 Consultancy Services, Farming management Services	Educational measures	Amendment of measure SM15-01	All WBs of RBD	Ministry of Rural Development and Food, Region of Crete	500.000€
M13Σ1503 Informing and raising public awareness on water issues	Educational measures	Continuation of measure SM15-02	All WBs of RBD	MEWSSs, Municipalities, Region of Crete, Decentralized Administration of Crete (Water Directorate)	20.000€
M13Σ1504 Reinforcement of environmental programs' actions in Primary & Secondary Education	Educational measures	Continuation of measure SM15-03	All WBs of RBD	Ministry of Environment & Energy (Special Secretariat for Water), Decentralized Administration of Crete (Water Directorate)	20.000€

Ministry of Environment and Energy, Special Secretariat for Water

1st Revision of the Management Plan of Crete River Basin District (EL 13)

Code - Name of Measure	Category	Connection with the 1 st RBMP	Affected WBs	Implementing Bodies	Cost
M13Σ1601 Pilot measures for precision farming implementation	Research, development and demonstration projects	New Measure	All WBs of RBD	Ministry of Rural Development and Food, Region of Crete	330.000 €
M13Σ1602 Studies on the use of brackish coastal karst springs	Research, development and demonstration projects	Specialization of measure SM14-02	EL1300064, EL1300114, EL1300035	Decentralized Administration of Crete (Water Directorate)	73.000€
M13Σ1604 Installation of continuous flow monitoring stations at River HMWBs, downstream of dams	Research, development and demonstration projects	Amendment of measure SM14-05	EL1339R001603048H EL1339R001001026H EL1340R000109012H EL1340R000204124H EL1341R000501010H EL1340R000104108H	Decentralized Administration of Crete (Water Directorate)	92.000€
M1321605 Implementation of special reckoning studies of coastal water bodies	Research, development and demonstration projects	Specialization of measure SM14-01	EL1339C0003N EL1341C0011N	Decentralized Administration of Crete (Water Directorate)	30.000€
M13Σ1606 Implementation of special reckoning studies of transitional water bodies	Research, development and demonstration projects	New Measure	EL133901T0004N, EL133901T0003N, EL133901T0002N, EL133901T0001N	Decentralized Administration of Crete (Water Directorate)	20.000€
M13Σ1607 Record and monitor the operation of the reservoirs of unknown ecological potential	Research, development and demonstration projects	Amendment of measure SM11-08	EL1339RL01001002H, EL1339RL01605003H, EL1340RL00109102H	Decentralized Administration of Crete (Water Directorate)	35.000€
M13Σ1608 Design and implementation of a special surveillance monitoring program to collect data for the revision of HMWBs downstream of dams.	Research, development and demonstration projects	New Measure	EL1339R001001026H, EL1339R001001063H	Ministry of Environment & Energy (Special Secretariat for Water), Decentralized Administration of Crete (Water Directorate)	35.000€

10 NEXT STEPS

The objective of the 1st Revision of the RBMP is the prevention of further deterioration, the protection and improvement of the status of inland surface WBs, transitional WBs, coastal WBs and groundwater bodies, as well as of the dependent terrestrial ecosystems and wetlands. For the achievement of this objective, the implementation of the Programme of Basic and Supplementary Measures is required.

The Programme of Measures is designed in a way that the priority of each intervention is clearly defined according to its cost, its effectiveness, the importance of the water bodies on which is implemented and the necessary time for its preparation.

All elements of the Programme of Measures are important, however programming and prioritization is required in order to monitor the progress and detect the elements which need amendments, when deviation from objectives is identified.

With responsibility of the competent Water Directorate of Decentralised Administration an **Action Plan for the implementation of the 1st Revision of the RBMP** of Crete RBD is drawn up.

To this end, the Regional Task Team for the Implementation of The Programmes of Measures of the RBMPs of RBDs of the country, which was already established during the implementation of the 1st RBMPs, is required to set up the above Action Plan.

11 SUMMARIZED STATISTICS FOR CRETE RBD (EL13)

The following tables include aggregated statistics for Crete RBD (EL13).

 Table 11-1
 Categories of WB per RB of Crete RBD (EL13)

WB Categories	RB of the Northern Part of the Chania- Rethymno-Irakleio Streams (EL1339)	RB of the Shouthern Part of the Chania- Rethymno-Irakleio Streams (EL1339)	RB of the Eastern Crete Streams (EL1341)	TOTAL RBD
River WBs	63	44	16	123
Lake WBs	1	-	-	1
Transitional WBs	4	-	-	4
Coastal WBs	10	6	9	25
TOTAL Surface WBs	78	50	25	153
Groundwater WBs	34	27	30	91
TOTAL WBs	112	77	55	244
Heavily modified water bodies (HMWB) and artificial Water bodies (AWB)	6	7	3	16
WBs Connected to protected areas	62	31	31	124

Table 11-2 Typology of Surface WBs per RB of Crete RBD (EL13)

Typology of Surface WBs	RB of the Northern Part of the Chania- Rethymno-Irakleio Streams (EL1339)	RB of the Shouthern Part of the Chania- Rethymno-Irakleio Streams (EL1339)	RB of the Eastern Crete Streams (EL1341)	TOTAL RBD
River WBs				
Type R-M1	15	6	1	22
Type R-M2	6	1	-	7
Type R-M3	-	-	-	-
Type R-M4	1	2	4	7
Type R-M5	39	33	10	82
Type R-L2	-	-		
Lake type River HMWBs (Reservoirs)				
Type L-M5/7	-	1	-	1
Type L-M8	2	1	1	4
Type GR-SR	-	-	-	-
Lake WBs				
Type GR-DNL	1	-	-	1
Type GR-SNL	-	-	-	-
Type GR-VSNL	-	-	-	-
Transitional WBs				
Type TW 1	-	-	-	-
Type TW 2	4	-	-	4
Coastal WBs				
Type IIIE	10	6	9	25

Table 11-3 Assessment (classification) results of WBs status per RB of Crete RBD (EL13)

				e Northern nno-Irakleio		RB of the Shouthern Part of the Chania- Rethymno-Irakleio Streams (EL1340)				Eastern Cre	te Streams	(EL1341)	TOTAL RBD					
	Status/ Potential		Number % of Length % of Number Number (km) Length N		Number	% of Number	Length (km)	% of Length	Number	% of Number	Length (km)	% of Length	Number % of Number		Length (km)	% of Length		
				RIVERS WBs														
		High	-	-	-	-	2	4,8	20,0	7,8	-	-	-	-	2	1,7	20,0	3,0
	_ F	Good	41	67,2	195,4	58,6	24	57,1	124,8	48,4	12	80,0	58,5	81,5	77	65,3	378,7	57,1
	EN CAI	Moderate	10	16,4	69,1	20,7	11	26,2	80,4	31,2	1	6,7	5,1	7,1	22	18,6	154,5	23,3
s	ECOLOGICAL TUS/ POTENTIAL	Poor	6	9,8	49,0	14,7	-	-	-	-	-	-	-	-	6	5,1	49,0	7,4
r WBs		Bad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L River	E	Unknown	4	6,6	20,2	6,0	5	11,9	32,6	12,6	2	13,3	8,2	11,4	11	9,3	61,0	9,2
TOTAL		Good	61	100	333,7	100	42	100	257,8	100	15	100	71,8	100	118	100	663,2	100
10	CHEMICAL STATUS	Failing to achieve Good	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	CHEN STA	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Status/ Potential			RB of the Northern Part of the Chania- Rethymno-Irakleio Streams (EL1339)					Shouthern 110-Irakleio			RB of the	Eastern Cre	te Streams	(EL1341)	TOTAL RBD			
Status/ Potential		Number	% of Number	Area (km²)	% of Area	Number	% of Number	Area (km²)	% of Area	Number	% of Number	Area (km²)	% of Area	Number	% of Number	Area (km²)	% of Area	
				Number	(KIII-)		LAKE TY	LAKE TYPE RIVER HMWBs (RESERVOIRS)										
)GICAL rus/ NTIAL	Good and Above	-	-	-	-	1	50	0,9	36,1	1	100	1	100	2	40	1,8	32,2
RESERVOIRS		Moderate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N N	COLC STAI OTE	Poor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SER	PO S	Bad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RE		Unknown	2	100	2,4	100	1	50	1,5	63,9	-	-	-	-	3	60	3,9	67,8
	s AL	Good	2	100	2,4	100	2	100	2,4	100	1	100	1	100	5	100	5,7	100
тота	HEMICA STATUS	Failing to achieve Good	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	с v,	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

				e Northern nno-Irakleio				e Shouthern nno-Irakleio			RB of the	e Eastern Cre	ete Streams	(EL1341)	TOTAL RBD				
S	Status/ Potential		Number	% of Number	Area (km²)	% of Area	Number	% of Number	Area (km²)	% of Area	Number	% of Number	Area (km²)	% of Area	Number	% of Number	Area (km²)	% of Area	
									LAKE WB	5									
		High	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	SAL	Good	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
s	DID DI	Moderate	1	100	0,7	100	-	-	-	-	-	-	-	-	1	100	0,7	100	
NB	ECOLOGICAL STATUS	Poor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
KE		Bad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LA		Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AL.		Good	1	100	0,7	100									1	100	0,7	100	
TOTAL LAKE WBs	CHEMICAL STATUS	Failing to achieve Good	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	0	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
							1	TRA	NSITIONAL	WBs									
		High	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ß	ECOLOGICAL STATUS	Good	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3		Moderate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AI		Poor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<u>io</u>	s ico	Bad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ISI	_	Unknown	4	100	0,2	100	-	-	-	-	-	-	-	-	4	100	0.2	100	
RAN 8		Good	4	100	0,2	100	-	-	-	-	-	-	-	-	4	100	0.2	100	
TOTAL TRANSITIONAL WBs	CHEMICAL STATUS	Failing to achieve Good	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	U	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
								(COASTAL W	Bs									
F		High	1	10	15,8	2	3	50	119,9	24	3	33,6	97	13	7	28	232,7	11,5	
ST/	CAL	Good	8	80	739,4	95	3	50	379,7	76	6	66,7	648,7	87	17	68	68	86	
L COA WBs	TUS	Moderate	1	10	23,2	3	-	-	-	-	-	-	-	-	1	4	4	2,5	
κ. Γ	DLO 5TA	Poor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL COASTAL WBs	ECOLOGICAL STATUS	Bad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ĕ		Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Ministry of Environment and Energy, Special Secretariat for Water

1st Revision of the Management Plan of Crete River Basin District (EL 13)

					Part of the C Streams (EL				n Part of the Streams (E		RB of the	Eastern Cr	ete Streams	(EL1341)	TOTAL RBD				
9	Status/ Potential		Number	% of Number	Area (km²)	% of Area	Number	% of Number	Area (km²)	% of Area	Number	% of Number	Area (km²)	% of Area	Number	% of Number	Area (km²)	% of Area	
		Good	10	100	778,3	100	6	100	499,5	100	9	100	745,7	100	25	100	2.023,6	100	
	CHEMICAI	Failing to achieve Good	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Ŭ	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
									GWBs										
	1IC US	Good	30	88,2	3.483,80	94,6	23	85,2	2.526,80	96,6	29	96,7	2.025,30	99,9	82	90,1	8.036,00	96,5	
GWBs	ALEN	Poor	4	11,8	198,6	5,4	4	14,8	88,9	3,4	1	3,3	2,3	0,1	9	9,9	289,9	3,5	
ß	ST G	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IA	ТТ US	Good	31	91,2	3.508,90	95,3	23	85,2	2.526,80	96,6	28	93,3	1.997,60	98,5	82	90,1	8.033,30	96,5	
TOT	QUANTIT ATIVE STATUS	Poor	3	8,8	173,6	4,7	4	14,8	88,9	3,4	2	6,7	30,1	1,5	9	9,9	292,6	3,5	
	au ST ST	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	