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& ΕΝΕΡΓΕΙΑΣ



1st Update of River Basin Management Plans

River Basin District of Eastern Peloponnese (EL03)

Summary



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HELLENIC REPUBLIC
MINISTRY OF ENVIRONMENT & ENERGY
SPECIAL SECRETARIAT FOR WATER

DEVELOPMENT OF 1st UPDATE OF RIVER BASIN MANAGEMENT PLANS FOR THE 14 WATER DISTRICTS OF GREECE, IN ACCORDANCE WITH THE DIRECTIVE 2000/60/EC, THE LAW 3199/2003 AND THE P.D. 51/2007 - STUDY M1 “RIVER BASIN DISTRICT OF WESTERN PELOPONNESE (EL01), NORTHERN PELOPONNESE (EL02) AND EASTERN PELOPONNESE (EL03)”

JOINT VENTURE OF PELOPONNESE WATERBODIES:

- “HYDROEXIGIANTIKI LIMITED PARTNERSHIP” L.S. LAZARIDIS & PARTNERS LIMITED PARTNERSHIP
- LAZARIDIS & ASSOCIATES ATEM
- TEM (DESIGN CONSULTANCY) S.A.
- HPC-PASECO, SURVEYS AND STUDIES FOR THE PROTECTION, MANAGEMENT OF THE ENVIRONMENT & ENERGY SINGLE MEMBER LIMITED LIABILITY COMPANY
- DRAKOPOULOU EFSTATHIA daughter of LEONIDAS
- LIONIS MICHALIS son of HARALAMBOS
- VAKAKIS & PARTNERS RURAL DEVELOPMENT CONSULTANTS S.A.
- ALEXANDROS KOTZABOPOULOS son of GEORGE

RIVER BASIN DISTRICT OF EASTERN PELOPONNESE (EL03)

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1st UPDATE OF RIVER BASIN MANAGEMENT PLANS
RIVER BASIN DISTRICT OF EASTERN PELOPONNESE (EL03)

Summary

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List of Abbreviations

AR	At Risk
AWB	Artificial Water Body/bodies
EQR	Ecological Quality Ratio
GD	Guidance Document
GIG	Geographical Intercalibration Group (
GOLR	General Organization of Land Reclamation
GWB	Groundwater Body/bodies
HMWB	Heavily Modified Water Body/ bodies
LOLR	Local Organization of Land Reclamation
MEWSS	Municipal Enterprise for Water Supply and Sewerage
NR	Not at Risk
NWMN	National Water Monitoring Network
PAR	Probably At Risk
PNR	Probably Not at Risk
RB	River Basin
RBD	River Basin District
RBMP	River Basin Management Plan
SCI	Site of Community Importance
SPA	Special Protection Area
SWB	Surface Water Body/bodies
WB	Water body/bodies
WFD	Water Framework Directive
WISE	Water Information System of Europe

1 INTRODUCTION – 1st UPDATE OF RIVER BASIN MANAGEMENT PLANS

1.1 INTRODUCTION

By decision 391 / 08.04.2013 (Government Gazette B '1004) of the National Water Committee the 1st River Basin Management Plan of the River Basin District examined was approved.

The 1st Update has major changes and improvements from the 1st Management Plan:

- It is based on the use of data from the National Water Monitoring Network (NWMN), for the 2012-2015 period
- It is being drawn up at the same time as the Flood Risk Management Plans pursuant to Directive 2007/60 /EC and synergy of actions and a program of measures has being accomplished
- It is also being drawn up at the same time as the programs 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 has achieved synergy of actions and of program of measures
- It takes into account the National Strategy for Adaptation to Climate Change and incorporates into the program of measures sub-actions of the National Strategy for Adaptation to Climate Change
- It takes into account the results of actions that have been implemented so far in the context of increasing knowledge of water status and the pressures they receive, 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 EU Directive 2000/60/EC Guidance Documents.
- 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

The 1st Update is being carried out simultaneously for the 14 River Basin Districts of the country and homogeneity has been achieved in the individual methodologies but also in the proposed programs of measures (basic and supplementary).

1.2 CONSULTATION PROCESS

The consultation process on the 1st Update of River Basin Management Plans lasted from November 2015 to December 2017 and included the following:

- **1st Phase:** In November 2015, the content of the foreseen activities for the 1st Update of the RBMP was posted on the website of the Ministry of Environment and Energy timetable tender documents for the site of the RBMP (www.ypeka.gr) as well as the detailed timetable of the consultation process.
- **2nd Phase:** In June 2016, data on the important issues of water resources management in each RBD were posted on the same website, containing briefly the results of the National Water Monitoring Network for the RBD, the main pressures, the identification of the competent authorities and stakeholders involved in the consultation. Also, in December 2016, the basic common methodologies for the designation and classification of water bodies status, assessment of pressures and impacts including hydromorphological pressures, the definition of Highly Modified Water Bodies and the identification of the exemptions of Article 4 of Directive 2000/60 / EC, were posted on the same website.
- **3rd Phase:** In June 2017 a draft of the 1st Update of RBMP was posted on a special website of the Special Secretariat (<http://wfdver.ypeka.gr>), as well as a questionnaire. This phase included the publication of the Strategic Environmental Impact Study. **The consultation was completed in December 2017.**

2 DIFFERENTIATIONS IN COMPARISON WITH THE 1st RBMP

2.1 NEW ANALYTICAL METHODOLOGIES FOR CRITICAL ASPECTS OF THE IMPLEMENTATION OF DIRECTIVE 2000/60/EC

For the 1st Update of RBMP of the country, new analytical methodologies were developed for critical aspects of the implementation of Directive 2000/60/EC. All the analytical methodologies are available on the website of the Special Secretariat for Water <http://wfdver.ypeka.gr/>:

- Analysis of anthropogenic pressures and their impacts on surface and underground water systems
- Determination and criteria for assessment of hydromorphological alterations
- Determination of Heavily modified (HMWB) and Artificial (AWB) Water Bodies
- Determination of the "exceptions" to the achievement of the environmental objectives of Directive 2000/60/EC:
 - Identification of the "exceptions" of paragraphs 4 to 6 of Article 4 of Directive 2000/60 / EC (4.4 - 4.6)
 - Identification of the "exceptions" of paragraph 7 of Article 4 of Directive 2000/60 / EC (4.7) on new modifications
- Assessment (designation classification) of surface water bodies status:
 - Assessment of the ecological and chemical status of river water bodies
 - Assessment of ecological and chemical status of lake water bodies
 - Assessment of the ecological and chemical status of coastal and transitional water bodies
- Assessment methodologies for individual BQEs for each surface water category that has been approved by the EU in the context of the intercalibration exercise 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 assessing the biological quality elements in coastal and transitional waters.

2.2 MAIN DIFFERENTIATIONS IN COMPARISON WITH THE 1ST RBMP

Main differentiations in comparison with the 1st RBMP

Content of 1st Update of RBMP/ Activity	Differentiation in comparison with the 1st RBMP
COMPETENT AUTHORITIES	The competent authorities are not differentiated in comparison with the 1 st RBMP. In the Update, the inventory of the competent authorities and stakeholders involved in the Water Management, as it derives from the existing institutional framework, is rationalized and it is presented in accordance with the requirements of the new EU Guidance Document (GD Reporting 2016).
DESIGNATION OF SURFACE WATER BODIES - TYPOLOGY	In the Update, new typology was developed for river and lake WB. Furthermore, the reservoirs are reported as River Heavily Modified WB but their assessment is done with elements and tools designated for lakes, as lakes is the category of natural WB they resemble the most. In accordance with the above the number of WB is revised. It is noted that during the Update, the prefix of the WB codes were reformulated from GR to EL, in order to be compatible with the EE databases.
DESIGNATION OF GROUNDWATER BODIES	The number of GWB is revised based of the results of the NWMN or/and special studies completed from the publication of the 1 st RBMP till today. It is noted that during the Update, the prefix of the WB codes were reformulated from GR to EL, in order to be compatible with the EE databases.
HEAVILY MODIFIED WATER BODIES (HMWB) AND ARTIFICIAL WATER BODIES (AWB)	The HMWB that were defined under the 1st RBMP are re-examined based on the new methodology and the data from the NWMN.
PROTECTED AREAS	The Registry of Protected Areas of the 1 st RBMP is revised based on: The new Natura 2000 areas proposed by the Ministry of Environment and Energy according with the provisions of the Bird (2009/147/EC) and Habitat (92/43/EEC) Directives. The monitoring results from the Bathing Waters and the provisions of the Bathing Waters Directive (2006/7/EC) Other directives on water protection with more strict objectives as the Drinking Water Directive (80/778/EEC, as revised by the Directive 98/83/EC), the Shellfish Directive (2006/113/EC), freshwater fish Directive (2006/44/EK), Nitrates Directive (91/676/EOK), Urban Waste Water Treatment Directive (91/271/EOK) etc New data that came up after the publication of the 1 st RBMP and the relevant EE Guidance Documents. Furthermore it is noted that in the framework of the Update the CORINE protected areas and Landscapes of Special Natural Beauty were not included in the Registry of Protected Areas.
PRESSURES AND IMPACTS	The analysis of pressures and impacts in the Update is done according to the new national methodology and data produced after the approval of the 1st RBMP. The main differentiation is the new analytical method of assessment of hydromorphological pressures.

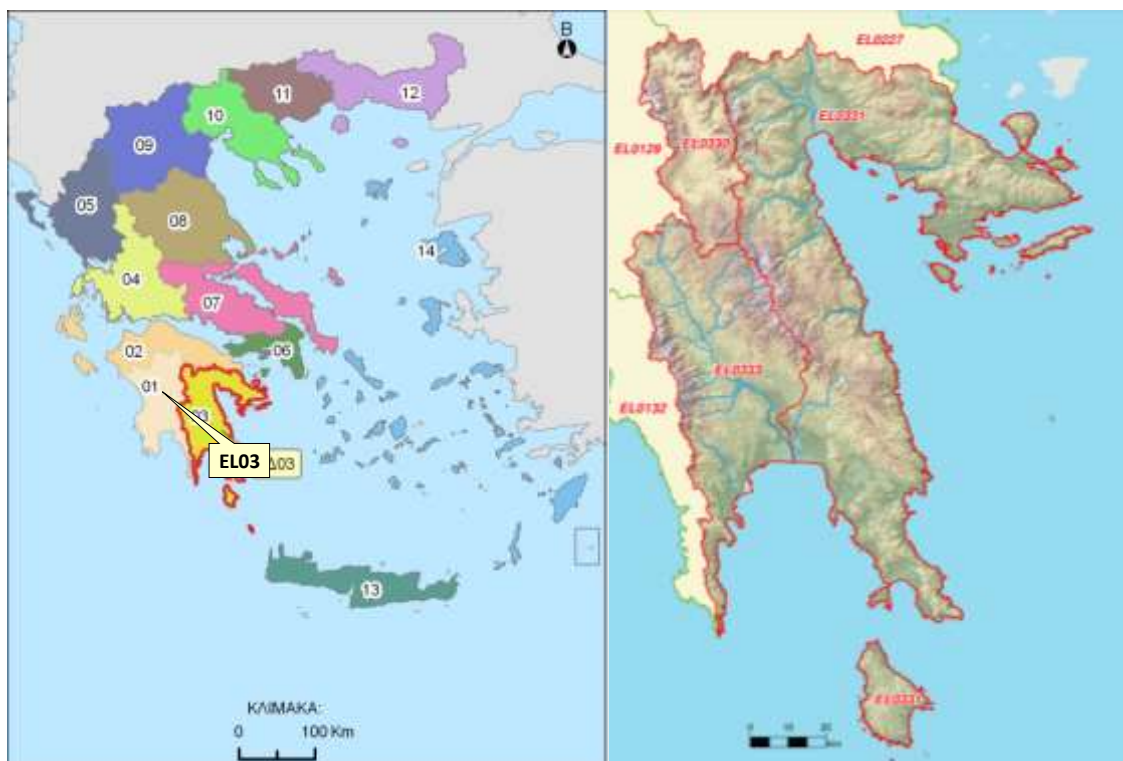
Content of 1st Update of RBMP/ Activity	Differentiation in comparison with the 1st RBMP
CLASSIFICATION OF THE STATUS OF SURFACE WATER BODIES	In the framework of the Update the classification of status of SWB is done according to the new national methodologies approved by the EU and based on the results of the NWMN. For the WB where no monitoring data is available, the classification of status was done by grouping based on their type and the analysis of pressures.
CLASSIFICATION OF THE STATUS OF GROUNDWATER BODIES	The classification of status of the GWB is not different from the 1 st RBMP. The classification is based on the new data from the NWMN.
NATIONAL WATER MONITORING NETWORK	The Update takes in consideration the results of the NWMN of the status of the national WB with important number of sampling for the period 2012-2015 for BQE, Physicochemical and chemical indicators and hydromorphological quality elements. It also includes monitoring of the chemical and quantitative status of the GWB.
ECONOMIC ANALYSIS OF WATER USE	For the economical analysis of water uses, the provisions of the new Joint Ministerial Decision ο.κ. 135275/22.05.17 on water pricing are taken in consideration.
ENVIRONMENTAL OBJECTIVES – EXEMPTIONS	In the framework of the Update, the environmental objectives and exemptions are set according to the new national methodologies, developed according to the EU guidance.
PROGRAMME OF MEASURES	The PoM of the 1 st Update is differentiated from the 1 st RBMP, following the new methodologies: Continuation/improvement of 1 st RBMP measures New measures for the achievement of the environmental objectives set Correlation of measures with significant pressures Correlation of measures with Basic Measure Types and implementation indicators set by the EU Synergies of PoM with the National Strategy on Climate Change Adaptation.

3 DESCRIPTION OF RIVER BASIN DISTRICTS – COMPETENT AUTHORITIES

3.1 RIVER BASINS

The **River Basin District of Eastern Peloponnese (EL03)** is one of the fourteen River Basin Districts in which the Greek area was divided by Law 1739/1987 (Government Gazette 201 / A / 20-11-1987).

Figure 3-1. River Basin District of Eastern Peloponnese (EL03)



According to Government Gazette No 706/2010 (Government Gazette 1383 / B / 2-9-10) Decision of the National Water Committee, the Tripoli Plateau RB (EL0330), Argolic Gulf Streams RB (EL0331) and Evrota RB (EL0333) constitute the Eastern Peloponnese River Basin District (EL03).

Table 3-1. River Basins of the Eastern Peloponnese River Basin District (EL03)

River Basin	Code	Surface (km ²)
Tripoli Plateau	EL0330	907
Argolic Gulf Streams	EL0331	5.296
Evrota River	EL0333	2.239

3.2 COMPETENT AUTHORITIES

Law 3199/2003 (Government Gazette A' 280) on the Protection and Management of Water Bodies harmonises the National Law with the provisions of the Directive 2000/60/EC and defines the competent authorities for the protection and management of Water Bodies.

Designated competent authorities at national level:

- The **National Water Committee**
- The **National Water Council**
- The **Special Secretariat for Water**

Table3-2. National competent authority ID

Official Name	Special Secretariat for Water
Acronym	S.S.W.
Contact Information	
Address	Amaliados 17
Postal Code	11523
City	Athens
Country	Greece
Web-page	http://www.ypeka.gr/ http://wfdver.ypeka.gr/
Contact	tel: 210 6475102, 213 1515410-1 e-mail: info.egy@prv.ypeka.gr

Designated competent authorities at Decentralised Administration level:

- **Decentralised Administration Water Council**
- **Water Directorates of the Decentralised Administration**

Table3-3. Decentralised Administration competent authorities ID

Official Name	Decentralised Administration of Peloponnese, Western Greece and Ionian Islands / Water Directorate of Peloponnese
Acronym	W.D.PEL.
Contact Information	
Address	Mainalou & Sekeri 17
Postal Code	22100
City	Tripolis
Country	Greece
Web-page	www.apd-depin.gov.gr
Contact	tel: 2710 234458 FAX: 2710 234492 e-mail: dydaton@4821.syzefxis.gov.gr
Official Name	Decentralised Administration of Attica /Water Directorate of Attica
Acronym	W.D.ATT
Contact Information	
Address	Mesogion 239
Postal Code	15451
City	Athens
Country	Greece
Web-page	www.apdattikis.gov.gr
Contact	tel: 210 3725706-707 FAX: : 210 3725728 e-mail: nero@attica.gr

The following table gives a snapshot of the role played by each competent authority on every water management and protection thematic.

Table 3-4. Main competences for every water protection and management thematic

Competent Authority	Role												
	Pressure and impact analysis	Economic analysis	Monitoring of surface water	Monitoring of groundwater	Assessment of status of surface water	Assessment of status of groundwater	Preparation of RBMP	Preparation of PoM	Implementation of measures	Public participation	Enforcement of regulations	Co-ordination of implementation	Reporting to the European Commission
Special Secretariat for Water of the Hellenic Ministry of Environment & Energy	M	M	M	M	M	M	M	M	M	M	M	M	M
Water Directorate of the Decentralised Administration	O	O	-	-	-	-	O	O	M	M	M	M	-
Hellenic Ministry of Foreign Affairs	-	-	-	-	-	-	-	-	O	-	M	-	-
Hellenic Ministry of Rural Development and Food	-	-	-	-	-	-	-	-	M	-	O	-	-
Hellenic Ministry of Infrastructure and Transport	-	-	-	-	-	-	-	-	M	-	O	-	-
Hellenic Ministry of Economy and Development	-	-	-	-	-	-	-	-	M	-	O	-	-
Hellenic Ministry of Health	-	-	-	-	-	-	-	-	M	-	O	-	-
Hellenic Ministry of Shipping and Island Policy	-	-	-	-	-	-	-	-	M	-	O	-	-
Hellenic Ministry of Interior	-	-	-	-	-	-	-	-	M	-	O	-	-
Municipalities	-	-	-	-	-	-	-	-	M	O	-	-	-
Regions	-	-	-	-	-	-	-	-	M	O	O	-	-

M: Main role, O: Other role, -: No role

4 DESIGNATION AND CLASSIFICATION OF WATER BODIES

4.1 SURFACE WATER BODIES (SWB)

According to the 1st Update of RBMP, **99 surface water bodies**, are identified.

Table 4-1. Number of surface water bodies for each RB

Type of WB	RB EL0330	RB EL0331	RB EL0333	Total RBD
River WB	0	31	49	80
Lake WB	1	0	0	1
Transitional WB	0	5	0	5
Coastal WB	0	11	2	13
TOTAL WB	1	47	51	99

All the surface water bodies are presented in the following tables.

Table 4-2. River WB and the new typology, according to the European Decision 2013/480/EC and the MED GIG per RB

No	WB Name	WB Code	HMWB/ AWB	Length (km)	Immediate Catchment Area (km ²)	Upstream Catchment area (km ²)	Mean Annual Flow (hm ³)	WB Type
Argolic Gulf Streams RB (EL0331)								
1	MARIOREMA STREAM_1	EL0331R000700001A	AWB	3,9	28,3	228,3	81,7	R-M4
2	MARIOREMA STREAM_2	EL0331R000700002H	HMWB	5,0	2,8	0,0	0,9	R-M1
3	MARIOREMA STREAM_3	EL0331R000700003H	HMWB	1,9	2,5	225,8	72,7	R-M4
4	MARIOREMA STREAM_4	EL0331R000700004N	NAT	25,8	155,7	70,1	71,9	R-M5
5	MARIOREMA STREAM_5	EL0331R000700005N	NAT	9,6	70,1	0,0	22,3	R-M1
6	DAFNON STREAM_1	EL0331R001100006N	NAT	3,4	53,6	332,6	188,9	R-M4
7	DAFNON STREAM_2	EL0331R001100007H	HMWB	1,2	3,4	329,2	162,7	R-M4
8	DAFNON STREAM_3	EL0331R001100008N	NAT	8,2	329,2	0,0	161,0	R-M4
9	VRASIATIS STREAM_1	EL0331R001500009N	NAT	8,3	50,5	200,6	91,4	R-M5
10	VRASIATIS STREAM_2	EL0331R001500010N	NAT	9,1	200,6	0,0	73,0	R-M2
11	TANOS R._1	EL0331R001900011N	NAT	3,3	13,3	246,9	90,4	R-M2
12	TANOS R._2	EL0331R001900012N	NAT	6,5	28,2	218,7	85,8	R-M5
13	TANOS R._3	EL0331R001900013N	NAT	9,1	81,4	137,3	76,0	R-M2
14	TANOS R._4	EL0331R001900014N	NAT	12,5	100,2	37,1	47,7	R-M2
15	TANOS R._5	EL0331R001900015N	NAT	11,7	37,1	0,0	12,9	R-M1
16	XORVRIO STREAM_1	EL0331R002300016N	NAT	20,0	117,7	54,8	57,8	R-M5
17	XORVRIO STREAM_2	EL0331R002300017N	NAT	2,5	22,0	32,8	18,4	R-M4
18	XORVRIO STREAM_3	EL0331R002300018N	NAT	4,2	32,8	0,0	11,0	R-M4
19	INAHOS R._1	EL0331R000201019H	HMWB	3,2	13,4	524,1	134,1	R-M5
20	XERIAS R._1	EL0331R000202020H	HMWB	2,2	7,3	122,5	32,4	R-M5
21	XERIAS R._2	EL0331R000202021N	NAT	7,6	11,0	111,4	30,6	R-M5
22	XERIAS R._3	EL0331R000202022N	NAT	15,4	111,4	0,0	27,8	R-M5
23	INAHOS R._2	EL0331R000203023H	HMWB	6,9	46,1	348,2	98,4	R-M5

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No	WB Name	WB Code	HMWB/ AWB	Length (km)	Immediate Catchment Area (km ²)	Upstream Catchment area (km ²)	Mean Annual Flow (hm ³)	WB Type
24	DERVENI STREAM_1	EL0331R000204024H	HMWB	4,4	36,9	66,9	25,9	R-M5
25	DERVENI STREAM_2	EL0331R000204025N	NAT	8,2	53,1	13,8	16,7	R-M5
26	DERVENI STREAM_3	EL0331R000204026N	NAT	4,0	13,8	0,0	3,4	R-M5
27	INAHOS R._3	EL0331R000205027H	HMWB	2,9	15,4	229,0	61,0	R-M5
28	INAHOS R._4	EL0331R000205028N	NAT	3,5	14,3	214,7	57,1	R-M5
29	INAHOS R._5	EL0331R000205029N	NAT	22,5	208,0	6,7	53,6	R-M5
30	INAHOS R._6	EL0331R000205030N	NAT	2,5	6,7	0,0	1,7	R-M5
31	RADOS R.	EL0331R003300031N	NAT	25,3	191,1	0,0	45,3	R-M2
Evrota River RB (EL0333)								
1	PLATIS R._1	EL0333R000300001N	NAT	2,4	1,8	175,0	81,7	R-M2
2	PLATIS R._2	EL0333R000300002N	NAT	2,5	9,7	165,3	80,9	R-M2
3	PLATIS R._3	EL0333R000300003N	NAT	2,5	32,4	132,9	76,4	R-M2
4	PLATIS R._4	EL0333R000300004N	NAT	2,5	22,6	110,3	61,4	R-M2
5	PLATIS R._5	EL0333R000300005N	NAT	14,1	110,3	0,0	51,0	R-M2
6	EVROTAS R._1	EL0333R000201006H	HMWB	5,9	3,6	1.676,1	681,3	R-M3
7	EVROTAS R._2	EL0333R000201007N	NAT	6,3	17,0	1.659,1	679,8	R-M5
8	EVROTAS R._3	EL0333R000201008N	NAT	7,5	57,5	1.601,6	672,9	R-M5
9	EVROTAS R._4	EL0333R000201009N	NAT	10,0	249,8	1.351,8	649,6	R-M3
10	EVROTAS R._5	EL0333R000201010N	NAT	2,9	95,9	1.255,8	548,2	R-M3
11	RASINA STREAM_1	EL0333R000202011N	NAT	2,6	9,4	104,7	46,3	R-M2
12	GERAKARI STREAM_1	EL0333R000202112N	NAT	15,1	27,5	17,1	18,1	R-M1
13	GERAKARI STREAM_2	EL0333R000202113N	NAT	2,4	17,1	0,0	6,9	R-M1
14	RASINA STREAM_2	EL0333R000202014N	NAT	11,8	36,1	24,1	24,4	R-M1
15	RASINA STREAM_3	EL0333R000202015N	NAT	4,3	12,0	12,1	9,8	R-M1
16	RASINA STREAM_4	EL0333R000202016N	NAT	3,9	12,1	0,0	4,9	R-M1
17	EVROTAS R._6	EL0333R000203017N	NAT	2,5	3,1	1.138,7	463,0	R-M3
18	EVROTAS R._7	EL0333R000203018N	NAT	8,2	97,7	1.041,0	461,8	R-M3
19	KAKARI STREAM_1	EL0333R000204019N	NAT	8,9	10,3	12,6	9,3	R-M1
20	KAKARI STREAM_2	EL0333R000204020N	NAT	2,6	12,6	0,0	5,1	R-M1
21	EVROTAS R._8	EL0333R000205021N	NAT	1,5	2,8	1.015,3	412,9	R-M3
22	KALIVES STREAM_1	EL0333R000206022N	NAT	5,6	25,3	11,0	14,7	R-M1
23	KALIVES STREAM_2	EL0333R000206023N	NAT	3,2	5,1	5,9	4,5	R-M1
24	KALIVES STREAM_3	EL0333R000206024N	NAT	3,0	5,9	0,0	2,4	R-M1
25	EVROTAS R._9	EL0333R000207025N	NAT	5,8	105,4	873,6	397,0	R-M2
26	MAGOULITSA STREAM_1	EL0333R000208026N	NAT	9,3	8,6	41,6	20,4	R-M1
27	MAGOULITSA STREAM_2	EL0333R000208027N	NAT	4,8	11,5	30,1	16,9	R-M1
28	MAGOULITSA STREAM_3	EL0333R000208028N	NAT	3,5	30,1	0,0	12,2	R-M1
29	EVROTAS R._10	EL0333R000209029N	NAT	4,6	15,7	807,7	333,9	R-M2
30	INOUS R._1	EL0333R000210030N	NAT	5,6	13,9	306,0	129,8	R-M2
31	SOFRONI STREAM_1	EL0333R000210131N	NAT	5,9	41,5	55,7	39,4	R-M1
32	SOFRONI STREAM_2	EL0333R000210132N	NAT	5,0	13,8	41,9	22,6	R-M1
33	SOFRONI STREAM_3	EL0333R000210133N	NAT	9,0	41,9	0,0	17,0	R-M1
34	INOUS R._2	EL0333R000210034N	NAT	13,6	59,0	149,7	84,7	R-M2
35	ARACHOVITIKO STREAM_1	EL0333R000210235N	NAT	6,4	48,6	18,9	27,4	R-M1

No	WB Name	WB Code	HMWB/ AWB	Length (km)	Immediate Catchment Area (km ²)	Upstream Catchment area (km ²)	Mean Annual Flow (hm ³)	WB Type
36	ARACHOVITIKO STREAM_2	EL0333R000210236N	NAT	2,8	7,6	11,2	7,6	R-M1
37	ARACHOVITIKO STREAM_3	EL0333R000210237N	NAT	4,9	11,2	0,0	4,6	R-M1
38	INOUS R._3	EL0333R000210038N	NAT	6,5	21,2	61,1	33,4	R-M1
39	INOUS R._4	EL0333R000210039N	NAT	18,0	61,1	0,0	24,8	R-M1
40	EVROTAS R._11	EL0333R000211040N	NAT	8,6	63,5	424,3	197,8	R-M2
41	EVROTAS R._12	EL0333R000211041N	NAT	6,1	35,9	388,4	172,1	R-M2
42	KARDARI STREAM	EL0333R000212042N	NAT	7,3	32,6	0,0	13,2	R-M1
43	EVROTAS R._13	EL0333R000213043N	NAT	14,9	172,0	183,8	144,3	R-M5
44	KOLINIATIKO STREAM_1	EL0333R000214044N	NAT	6,4	13,3	1,4	6,0	R-M1
45	KOLINIATIKO STREAM_2	EL0333R000214045N	NAT	1,5	1,4	0,0	0,6	R-M1
46	EVROTAS R._14	EL0333R000215046N	NAT	0,5	0,4	168,6	68,6	R-M2
47	LAGADA STREAM_1	EL0333R000216047N	NAT	18,3	67,5	16,2	33,9	R-M1
48	LAGADA STREAM_2	EL0333R000216048N	NAT	3,9	16,2	0,0	6,6	R-M1
49	EVROTAS R._15	EL0333R000217049N	NAT	7,0	85,0	0,0	34,5	R-M1

NAT: Natural WB, **HMWB:** Heavily Modified WB, **AWB:** Artificial WB

Table 4-3. Lake WB according to the new methodology per RB

No	WB Name	WB Code	HMWB/ AWB	Surface (km ²)	Perimeter (km)	WB Type
Tripoli Plateau RB (EL0330)						
1	TAKA ARTIF.LAKE	EL0330L000000001H	HMWB	1,2	4,3	L-M8

NAT: Natural WB, **HMWB:** Heavily Modified WB, **AWB:** Artificial WB

Table 4-4. Transitional WB per RB

No	WB Name	WB Code	HMWB/ AWB	Surface (km ²)	Perimeter (km)	WB Type
Argolic Gulf Streams RB (EL0331)						
1	DREPANOS-ASINI LAGOON	EL0331T0001N	NAT	0,5	3,49	TW1
2	THERMISIA LAGOON	EL0331T0002N	NAT	0,8	4,37	TW1
3	STROGGILI LIMNI LAGOON	EL0331T0003N	NAT	0,4	4,41	TW1
4	VIVARI LAGOON (EVROTAS DELTA)	EL0331T0004N	NAT	2,2	9,04	TW1
5	MOUSTOU WETLAND	EL0331T0005N	NAT	1,6	6,18	TW1

NAT: Natural WB, **HMWB:** Heavily Modified WB, **AWB:** Artificial WB

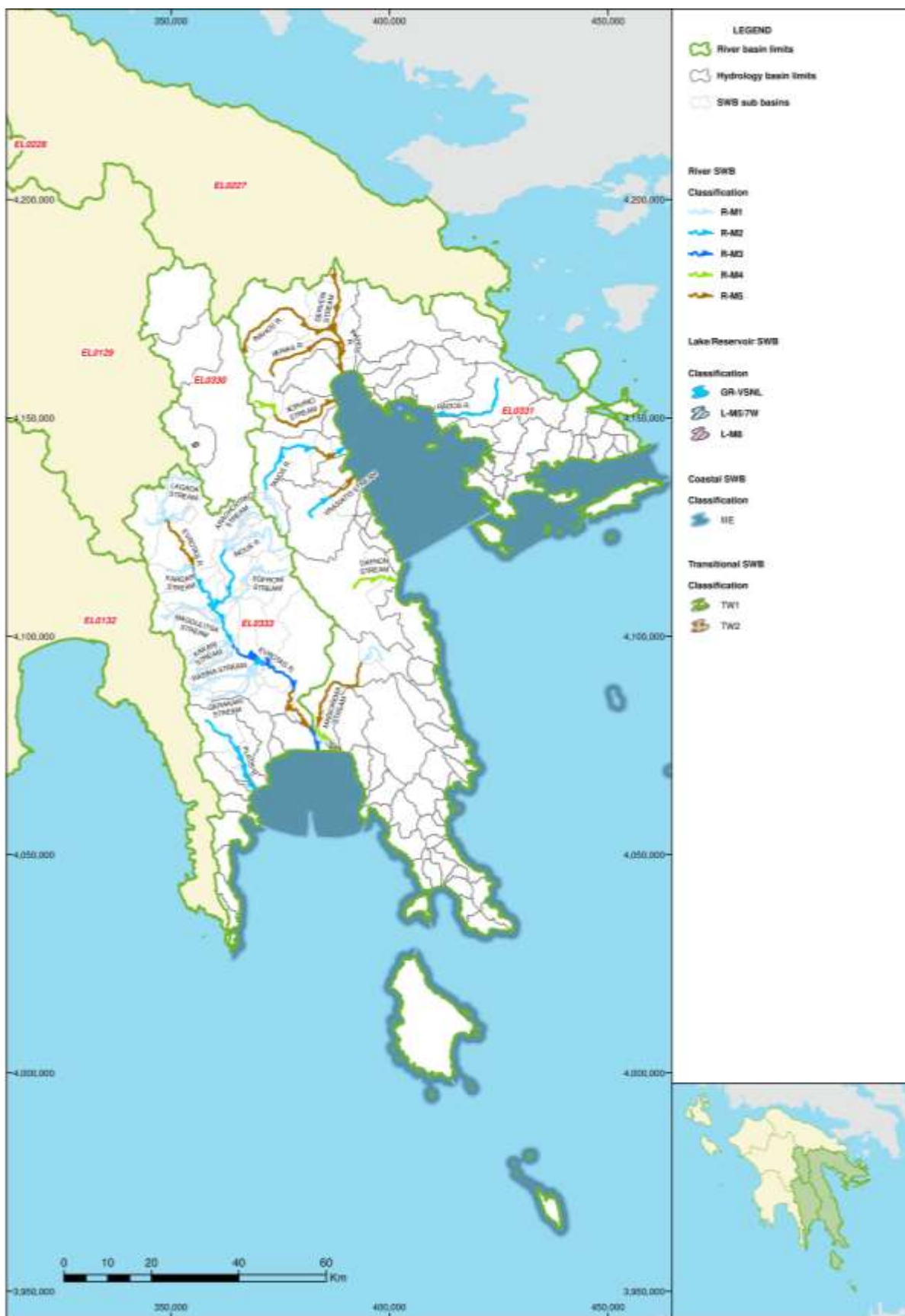
Table 4-5. Coastal WB per RB

No	WB Name	WB Code	HMWB/ AWB	Surface (km ²)	Coastal Length (km)	WB Type
Argolic Gulf Streams RB (EL0331)						
1	ARGOLIKOS GULF	EL0331C0001N	NAT	882,03	295,65	IIIE
2	HYDRA-DOKOS-SPETSES CHANNEL	EL0331C0002N	NAT	455,31	343,45	IIIE
3	HYDRA COASTS	EL0331C0003N	NAT	47,12	70,77	IIIE
4	ISLET_1	EL0331C0004N	NAT	15,88	17,16	IIIE
5	EAST COAST OF PELOPONNESE	EL0331C0005N	NAT	307,63	430,98	IIIE
6	ELAFONISOS COASTS	EL0331C0006N	NAT	93,86	133,91	IIIE
7	EAST COAST OF KITHIRA	EL0331C0009N	NAT	108,41	136,85	IIIE
8	WEST COAST OF KITHIRA	EL0331C0010N	NAT	119,53	161,91	IIIE
9	COAST OF ANTIKITHIRA	EL0331C0011N	NAT	100,75	109,09	IIIE
10	ISLET_2	EL0331C0012N	NAT	25,61	28,95	IIIE

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No	WB Name	WB Code	HMWB/ AWB	Surface (km ²)	Coastal Length (km)	WB Type
11	ISLET_3	EL0331C0013N	NAT	12,12	13,16	IIIE
Evrota River RB (EL0333)						
1	COAST OF LAKONIKOS GULF	EL0333C0007N	NAT	432,01	115,33	IIIE
2	TENARO CAPE – LAKONIKOS GULF	EL0333C0008N	NAT	86,71	123,64	IIIE

Map 1. Classification of SWB of RBD of Eastern Peloponnese (EL03), according to the new typology of the 1st Update of RBMP



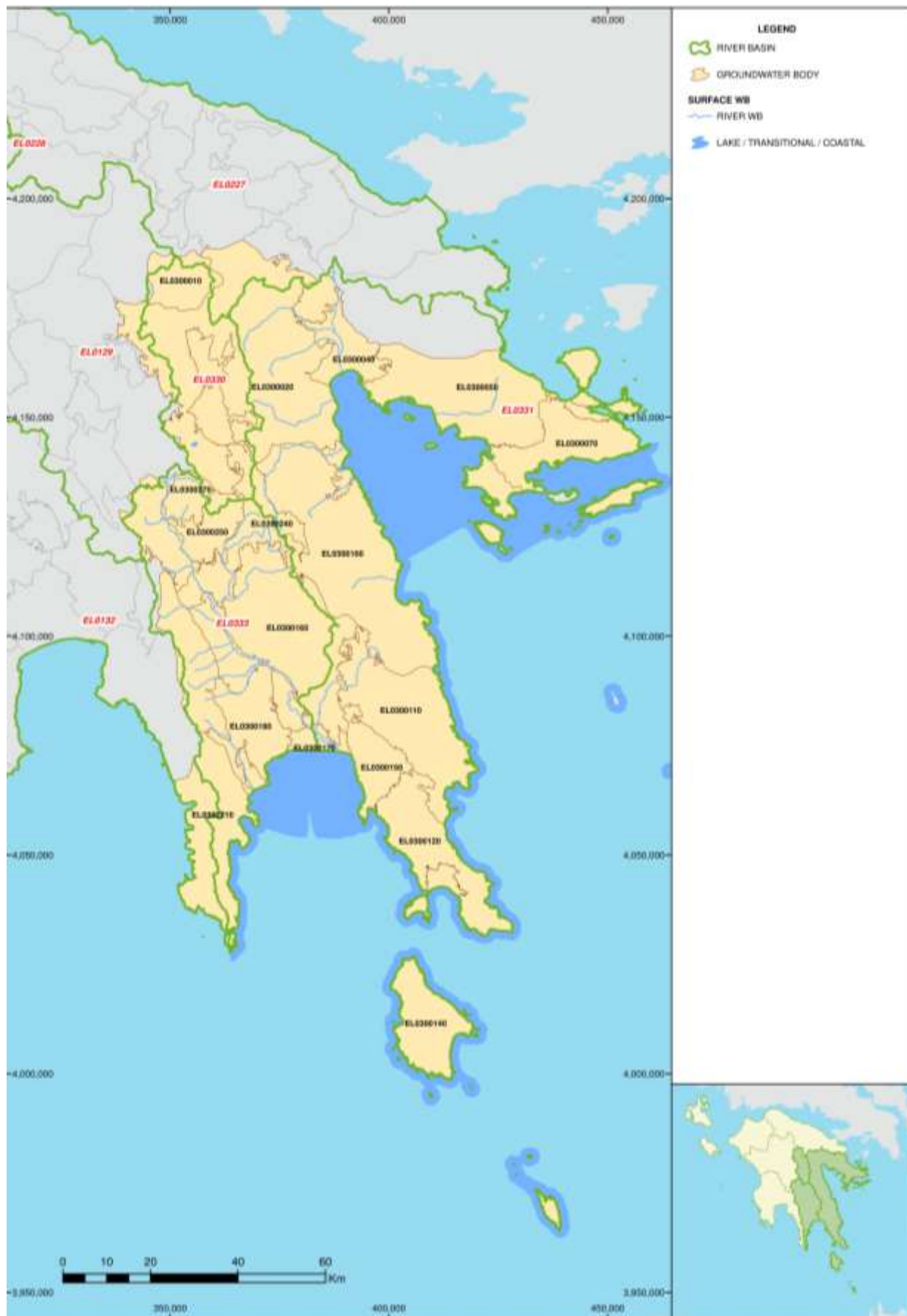
4.2 GROUNDWATER BODIES

Under the 1st Update of RBMP the initially delimited GWB were re-examined.

Table 4-6. The GWB of the RBD

NO	GWB Name	GWB Code	Surface (km ²)
Tripoli Plateau RB (EL0330)			
1	Systima Kandilas	EL0300010	172,04
2	Systima oropediou Tripolis	EL0300030	170,83
Argolic Gulf Streams RB (EL0331)			
1	Systima An. Arkadias - Dyt. Argolidas	EL0300020	1453,61
2	Systima Argolikou Pediou	EL0300040	182,38
3	Systima Mavrovouniou - Didymon	EL0300050	607,56
4	Systima Troizinias	EL0300060	25,61
5	Systima Ermionis	EL0300070	310,63
6	Systima Portocheiou	EL0300080	83,61
7	Systima Astrous	EL0300090	44,90
8	Systima Parnona	EL0300100	951,08
9	Systima Zaraka - Monemvasias	EL0300110	576,04
10	Systima Notioanatolikis Lakonias	EL0300120	368,89
11	Systima Neapolis	EL0300130	38,10
12	Systima Kythiron	EL0300140	276,79
13	Systima Asopou-Glykovrysis	EL0300150	181,51
14	Systima Antikythiron	EL0300280	20,38
15	Systima Elafonisou	EL0300290	17,74
16	Systima Spetson	EL0300300	19,98
17	Systima Ydras	EL0300310	48,75
18	Systima Porou	EL0300320	22,38
19	Systima Methanon	EL0300330	65,18
20	Systima Neogenon Maladreniou	EL0300340	72,70
Evrota River RB (EL0333)			
1	Systima Gerakiou - Gkoritsas	EL0300160	715,96
2	Systima Elous- Vasilopotamou	EL0300170	61,45
3	Systima Skalas	EL0300180	68,07
4	Systima Krokeon - Gytheiou	EL0300190	268,25
5	Systima p.Vardounia (p.Platy)	EL0300200	29,81
6	Systima Skoutariou	EL0300210	469,04
7	Systima Anat. Taygetou - Ag. Marinas	EL0300220	261,12
8	Systima Evrota	EL0300230	146,50
9	Systima Ag.Petrou-Voutianon	EL0300240	317,22
10	Systima Zorou - Sellasias	EL0300250	157,11
11	Systima Pellanas - Skortsinou	EL0300260	198,47
12	Systima Kollines - Vlachokerasias	EL0300270	96,63

Map 2. Position and delimitation of the GWB of Eastern Peloponnese RBD (EL03)



4.3 HEAVILY MODIFIED WATER BODIES (HMWB) AND ARTIFICIAL WATER BODIES (AWB)

Table 4-7. Total number and surface of HMWB and AWB in the RBD

Type of WB	HMWB		AWB	
	Number of WB	Surface - length (%)	Number of WB	Surface - length (%)
Lake WB	1	100%	0	0%
Longitudinal River WB	9	5,9%	1	0,69%
River WB (Reservoirs)	0	0%	0	0%
Transitional WB	0	0%	0	0%
Coastal WB	0	0%	0	0%

The following table presents the WB that were identified as HMWB and AWB per RB.

Table 4-8. River HMWB in the RBD

HMWB Code	Name	Type	Length (km)	Upstream Catchment area (km ²)	Designated Water Use
Argolic Gulf Streams RB (EL0331)					
EL0331R000700002H	MARIOREMA STREAM_2	R-M1	5,03	2,8	Flood Protection
EL0331R000700003H	MARIOREMA STREAM_3	R-M4	1,92	2,5	Flood Protection
EL0331R001100007H	DAFNON STREAM_2	R-M4	1,16	3,4	Flood Protection
EL0331R000201019H	INAHOS R._1	R-M5	3,25	13,4	Flood Protection
EL0331R000202020H	XERIAS R._1	R-M5	2,15	7,3	Flood Protection
EL0331R000203023H	INAHOS R._2	R-M5	6,95	46,1	Flood Protection
EL0331R000204024H	DERVENI STREAM_1	R-M5	4,37	36,9	Flood Protection
EL0331R000205027H	INAHOS R._3	R-M5	2,88	15,4	Flood Protection
Evrota River RB (EL0333)					
EL0333R000201006H	EVROTAS R._1	R-M3	6,16	3,6	Flood Protection, Land Reclamation

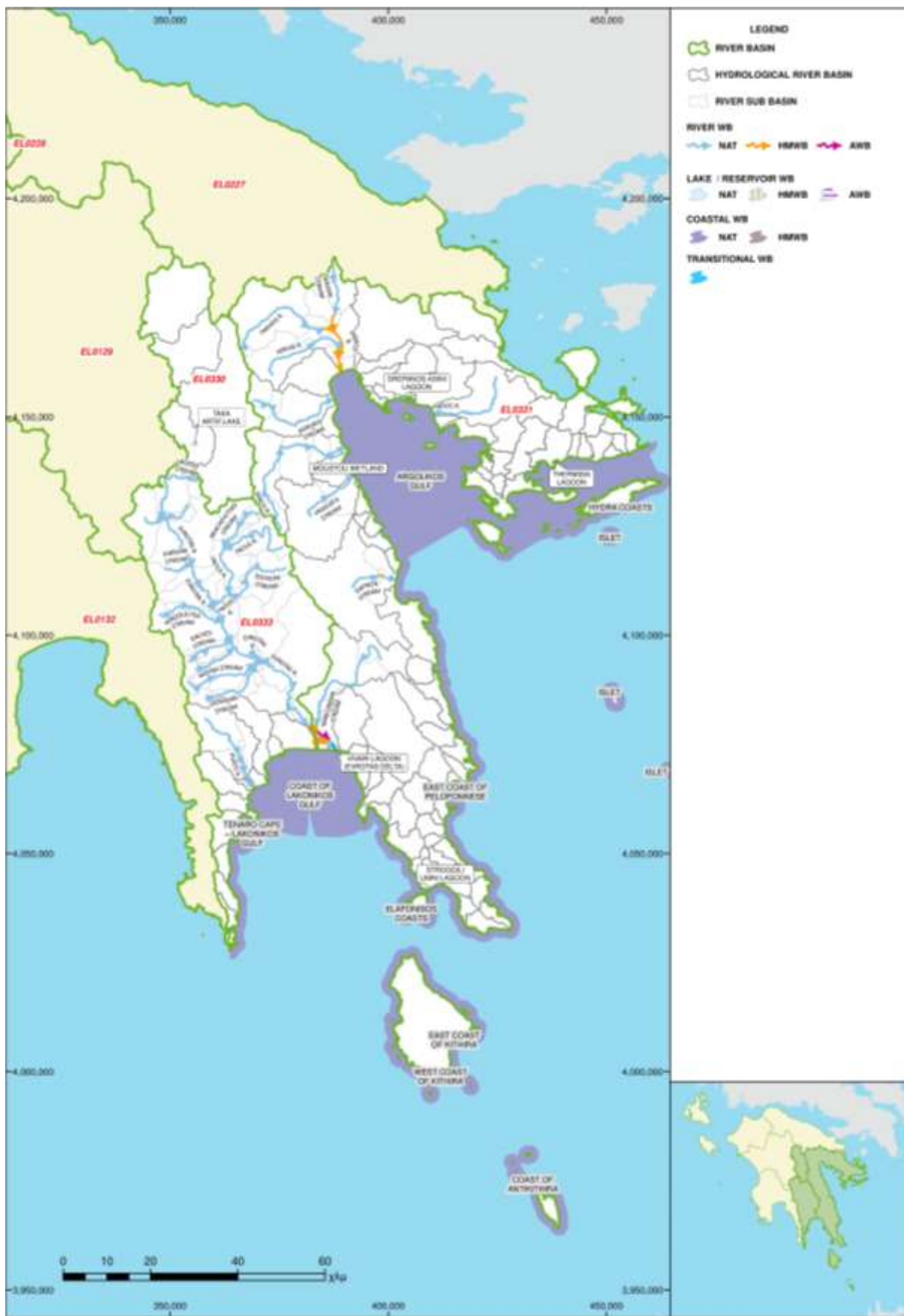
Table 4-9. Artificial River WB in the RBD

AWB Code	Name	Type	Length (km)	Upstream Catchment area (km ²)	Designated Water Use
Argolic Gulf Streams RB (EL0331)					
EL0331R000700001A	MARIOREMA STREAM_1	R-M4	3,93	28,3	Flood Protection

Table 4-10. Lake HMWB in the RBD

HMWB Code	Name	Type	Surface (km ²)	Designated Water Use
Tripoli Plateau RB (EL0330)				
EL0330L000000001H	TAKA ARTIF.LAKE	L-M8	1,23	Irrigation, Land Reclamation

Ma p3. HMWB and AWB in the RBD of Eastern Peloponnese (EL03)



4.4 PROTECTED AREAS

In accordance with Directive 2000/60/EC, the member states shall ensure the establishment of a registry 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 registry is called Registry of Protected Areas (RPA) and according to the Appendix V of the Presidential Decree 51/2007, it includes the following type or areas:

- **Water bodies designated for Drinking Water Abstraction:**

Table 4-11. Areas of Abstraction of Drinking water

NO	WB Name	WB Code	Area Code
Argolic Gulf Streams RB (EL0331)			
1	Systima An. Arkadias - Dyt. Argolidas	EL0300020	EL0300020A7
Evrota River RB (EL0333)			
2	Systima Skalas	EL0300180	EL0300180A7
3	Systima Anat. Taygetou - Ag. Marinas	EL0300220	EL0300220A7

- **Water Bodies designated as Recreational waters including areas designated as Bathing Waters:**

According to the list of Bathing Water Profiles of Greece (SSW, 2016), in Eastern Peloponnese RBD, in 2016, 91 Bathing Water Sites have been designated in coastal WB.

- **Urban Waste Water Treatment Directive Sensitive Areas and Nitrates Directive Nitrate Vulnerable Zones (NVZ):**

Table 4-12. Nitrate Vulnerable Zones

NVZ Name	WB			
	WB Code	WB Name	WB Category	RB
Tripoli Plateau EL0330NI01	EL0300020	Systima An. Arkadias - Dyt. Argolidas	GWB	EL0330
	EL0300030	Systima oropediou Tripolis	GWB	EL0330
Argoliko PedioEL0331NI01	EL0300040	Systima Argolikou Pediou	GWB	EL0331
Troizinia EL0331NI02	EL0300060	Systima Troizinias	GWB	EL0331
Astros EL0331NI03	EL0300090	Systima Astrous	GWB	EL0331
Leonidio - Arkadia EL0331NI04	EL0300100	Systima Parnona (lowland area of Leonidio)	GWB	EL0331

Under the 1st Update of the RBMP, the necessity of designating new Nitrate Vulnerable Zones was examined and no such necessity exists.

According to the national legal framework, in Eastern Peloponnese RBD (EL03), no Urban Waste Water Treatment Directive Sensitive Areas exist.

- **Areas designated for Birds and Habitats protection including the Natura 2000 protected sites:**
The designation of natural protected areas is adaptable to the national specific conditions. The following map depicts these areas.

- **Areas designated for the protection of economically significant aquatic species:**

There are four aquatic farms in Eastern Peloponnese RBD (EL03): 1 freshwater fish farms and 3 coastal waters. It should be noted that special environmental requirements are set on these areas according to the Directive 2006/113/EC on the quality of shellfish waters.

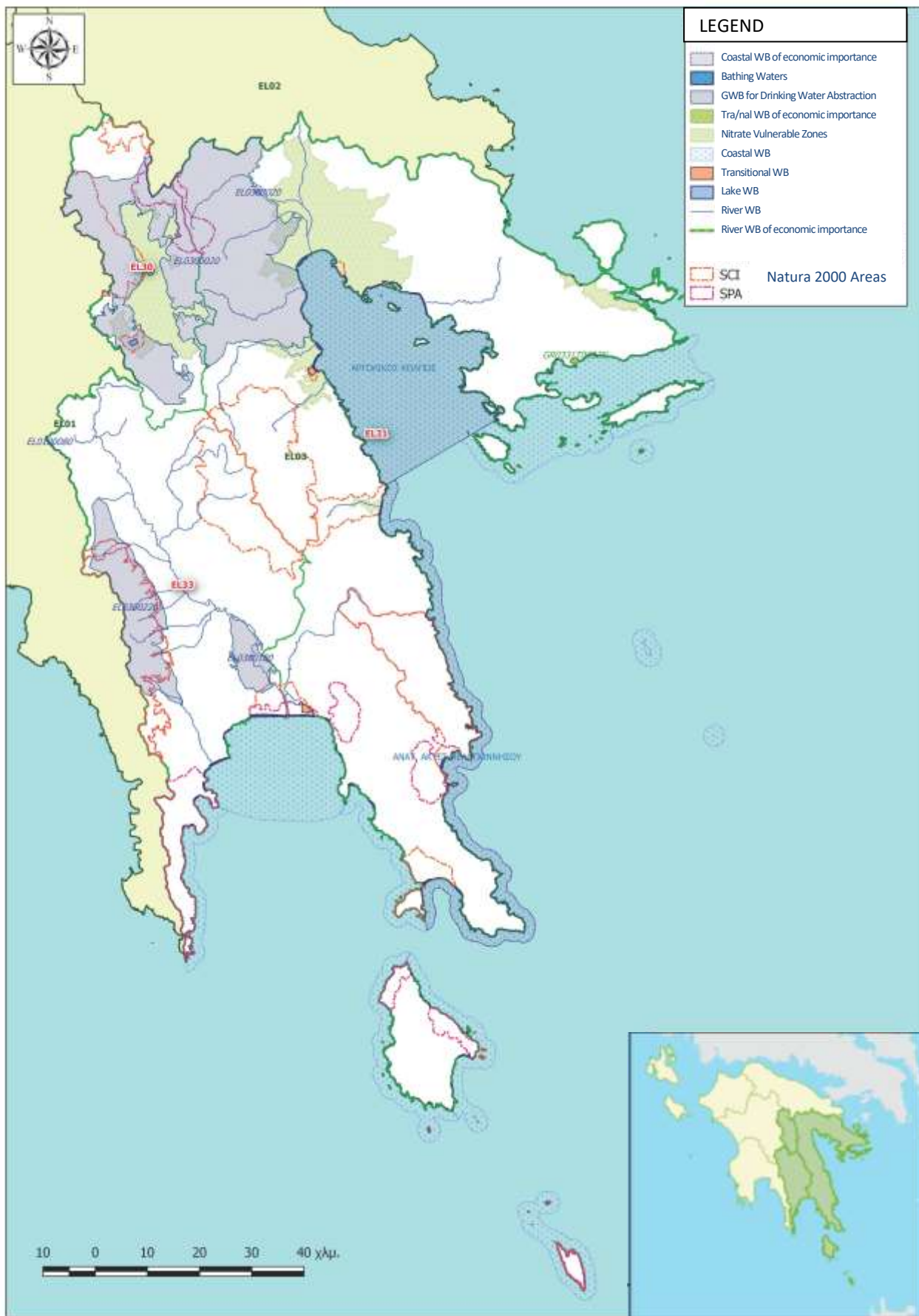
Table 4-13. Proposed protection areas according to Directive 2006/113/EC

No	Protected Area Code	WB Code	WB name	WB category
1	EL0331C0001NFI	EL0331C0001N	ARGOLIKOS GULF	Coastal
2	EL0331C0005NFI	EL0331C0005N	EAST COAST OF PELOPONNESE	Coastal
3	EL0331T0002NFI	EL0331T0002N	THERMISIA LAGOON	Coastal

Table 4-14. Proposed protection areas according to Directive 2006/44/EC

No	Protected Area Code	WB Code	WB name	WB category
1	EL0333R000212042NFI	EL0333R000212042N	KARDARI STREAM	River

Map 4. Protected Areas in Eastern Peloponnese RBD (EL03)



5 PRESSURES AND IMPACTS

Anthropogenic pressures on the bodies of water include all human activities that influence or may influence the water bodies of the area where they are developed. These pressures are characterized as significant as long as they form the cause for the WBs to be in danger of non-achieving their environmental objectives.

5.1 POINT SOURCES OF POLLUTION

Point sources of pollution include all sources of nutrients (BOD, N, P). The list of these pressures includes:

- Waste Water Treatment Plants (WWTP)
- Discharges not connected to WWTP
- Hotels
- Industrial sites
- Livestock Farming
- Aquaculture – Fish farming
- Waste disposal sites
- Runoff from mining activities

From the above point sources of pollution derives the annual load of BOD, N και P produced.

Figure 5-1. Total annual load of BOD, N and P that are produced in the RB (EL0330), (EL0331) and (EL0333) from point sources

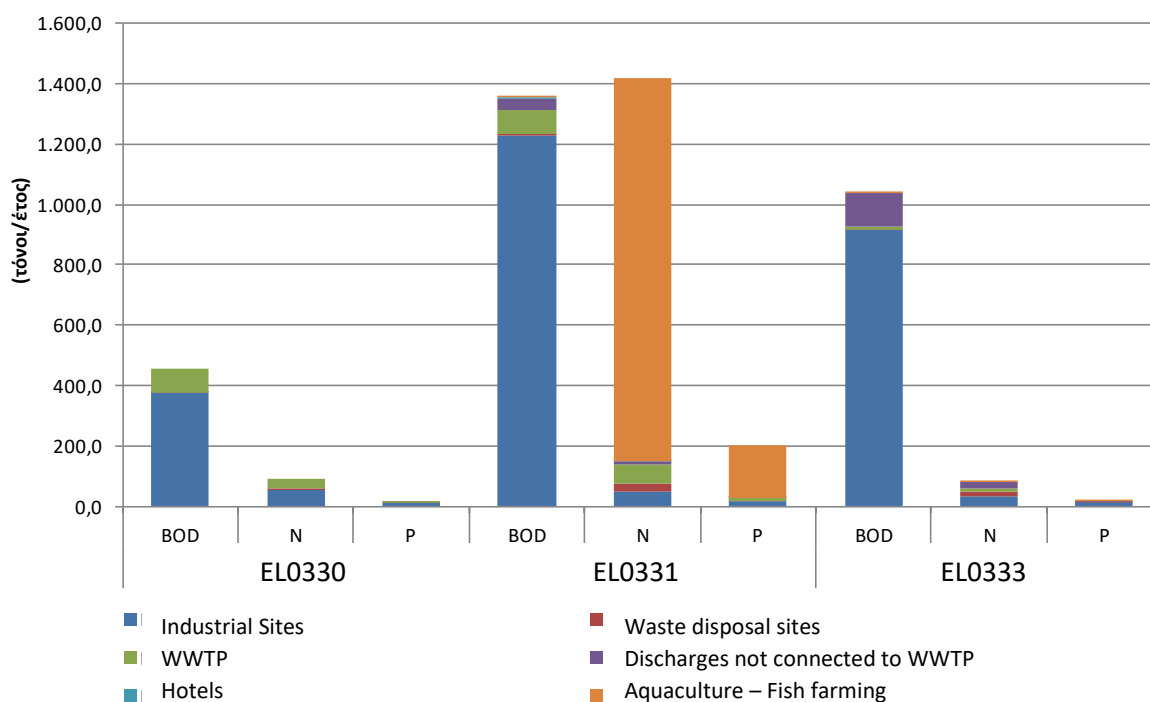


Table 5-1. Total annual load of BOD, N and P that are produced in Tripoli Plateau RB (EL0330) from point sources

POINT SOURCES OF POLLUTION	BOD (t/y)	N (t/y)	P (t/y)
Industrial Sites	377,2	55,3	11,2
Waste disposal sites	0,7	4,9	0,0
Waste Water Treatment Plants (WWTP)	76,4	30,5	6,4
Discharges not connected to WWTP	0,0	0,0	0,0
Hotels	0,0	0,0	0,0
Aquaculture – Fish farming	0,0	0,0	0,0
TOTAL	454,3	90,7	17,5

Table 5-2. Total annual load of BOD, N and P that are produced in Argolic Gulf Streams RB (EL0331) from point sources

POINT SOURCES OF POLLUTION	BOD (t/y)	N (t/y)	P (t/y)
Industrial Sites	1.229,4	50,1	16,5
Waste disposal sites	3,2	21,9	0,1
Waste Water Treatment Plants (WWTP)	79,8	66,8	10,3
Discharges not connected to WWTP	39,8	8,0	1,7
Hotels	2,1	3,3	0,7
Aquaculture – Fish farming	1,7	1.268,1	172,6
TOTAL	1.356,0	1.418,2	201,9

Table 5-3. Total annual load of BOD, N and P that are produced in Evrota River RB (EL0333) from point sources

POINT SOURCES OF POLLUTION	BOD (t/y)	N (t/y)	P (t/y)
Industrial Sites	915,4	31,7	9,8
Waste disposal sites	2,3	15,7	0,1
Waste Water Treatment Plants (WWTP)	8,8	12,8	2,5
Discharges not connected to WWTP	110,7	22,1	4,6
Hotels	0,0	0,0	0,0
Aquaculture – Fish farming	6,9	1,4	0,2
TOTAL	1.044,0	83,7	17,3

5.2 DIFFUSE SOURCES OF POLLUTION

Diffuse sources of pollution include all sources of nutrients (BOD, N, P). The list of these pressures includes:

- Agriculture
- Discharges not connected to sewerage network
- Farming
- Other diffuse sources

From the above diffuse sources of pollution derives the annual load of BOD, N και P produced.

Figure 5-2. Total annual load of BOD, N and P that are produced in the RB (EL0330), (EL0331) and (EL0333) from diffuse sources

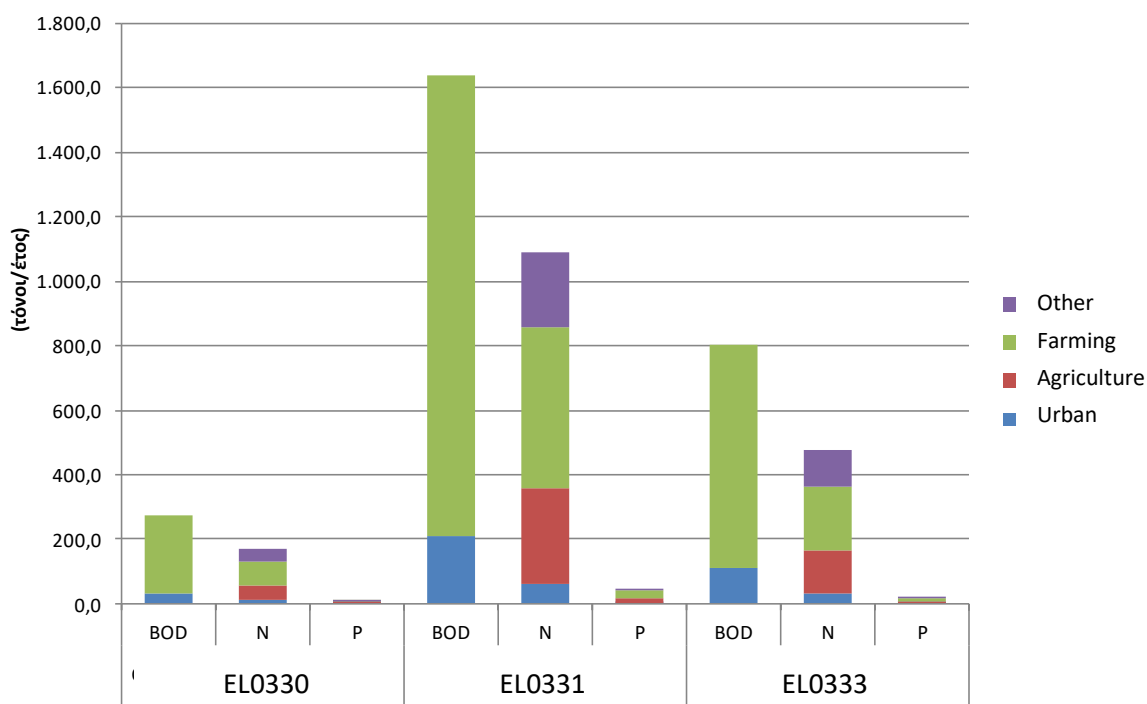


Table 5-4. Total annual load of BOD, N and P that are produced in Tripoli Plateau RB (EL0330) from diffuse sources

LAND USE	BOD (t/y)	N (t/y)	P (t/y)
URBAN	34,3	9,8	0,4
AGRICULTURE	0,0	44,5	4,6
FARMING	241,9	78,7	3,9
OTHER SOURCES	0,0	37,7	0,5
TOTAL	276,2	170,7	9,4

Table 5-5. Total annual load of BOD, N and P that are produced in Argolic Gulf Streams RB (EL0331) from diffuse sources

LAND USE	BOD (t/y)	N (t/y)	P (t/y)
URBAN	210,5	60,1	1,8
AGRICULTURE	0,0	296,9	17,7
FARMING	1.426,3	498,0	23,4
OTHER SOURCES	0,0	232,1	2,9
TOTAL	1.636,8	1.087,1	45,9

Table 5-6. Total annual load of BOD, N and P that are produced in Evrota River RB (EL0333) from diffuse sources

LAND USE	BOD (t/y)	N (t/y)	P (t/y)
URBAN	112,9	32,3	1,0
AGRICULTURE	0,0	132,8	7,2
FARMING	688,4	195,7	6,6
OTHER SOURCES	0,0	113,6	1,4
TOTAL	801,3	474,3	16,1

5.3 HYDROMORPHOLOGICAL PRESSURES

5.3.1 Pressures related to hydromorphology

The hydromorphological alterations, that led to the designation of HMWB and AWB are presented in paragraph 4.3.

5.3.2 Sand Extraction

Sand extraction from WB can alter the geometry of river beds and cause hydromorphological alterations.

In Tripoli Plateau RB (EL0330), no sand extraction has been carried out.

In Argolic Gulf Streams RB (EL0331), sand extraction has been carried out in Inahos R., Tanos R., Xerias R., Vrsiatis Stream and Mariorema Stream.

In Evrota River RB (EL0333), sand extraction has been carried out in INOUS R., RASINA STREAM, and MAGOULITSA STREAM.

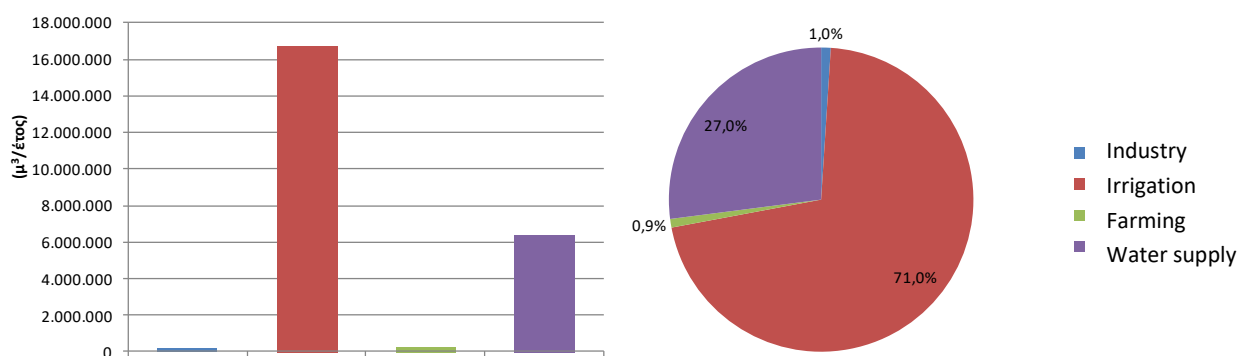
5.4 WATER ABSTRACTION

This paragraph includes information on the total annual water abstraction for all activities and uses:

- Public Water Supply
- Irrigation
- Farming
- Industry
- Other abstraction and uses

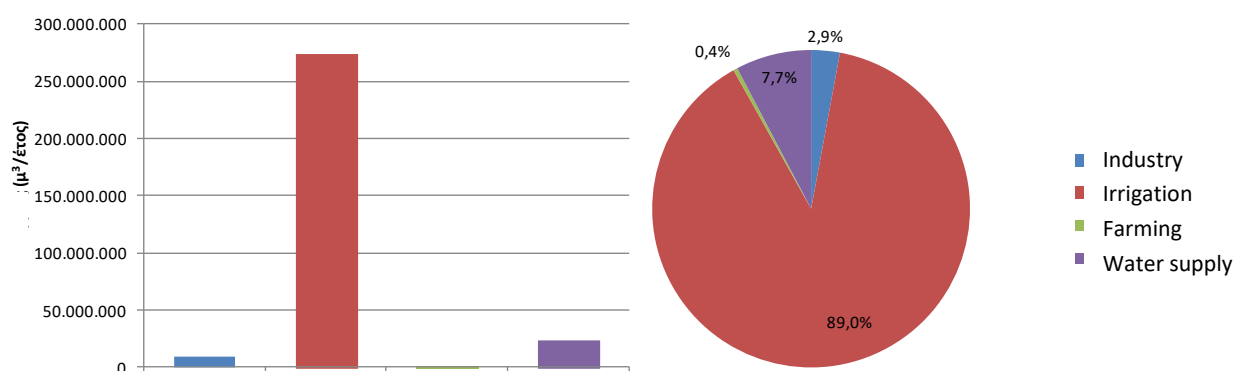
Total water abstraction in Tripoli Plateau RB (EL0330) is ~23,5 hm³ for all uses and activities. Abstraction for irrigation represents ~71,0% (~16,7 hm³), industry ~1,0% (~0,2 hm³), public water supply ~27,0% (~6,4 hm³) and farming ~0,9% (~0,2 hm³).

Figure 5-3. Total water abstraction in Tripoli Plateau RB (EL0330)



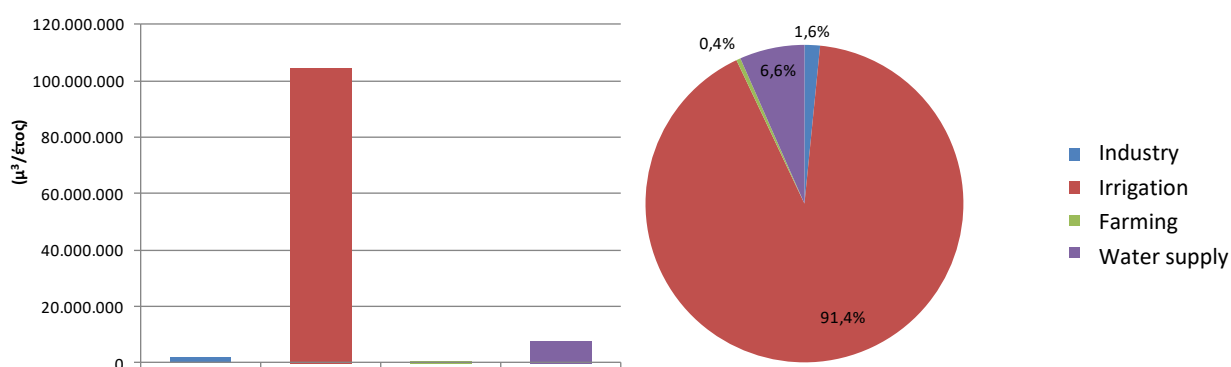
Total water abstraction in Argolic Gulf Streams RB (EL0331) is ~307,6 hm³ for all uses and activities. Abstraction for irrigation represents ~89,0% (~273,7 hm³), industry ~2,9% (~9,0 hm³), public water supply ~7,7% (~23,7 hm³) and farming ~0,4% (~1,3 hm³).

Figure 5-4. Total water abstraction in Argolic Gulf Streams RB (EL0331)



Total water abstraction in Evrota River RB (EL0333) is ~114,2 hm³ for all uses and activities. Abstraction for irrigation represents ~91,4% (~104,4 hm³), industry ~1,6% (~1,8 hm³), public water supply ~6,6% (~7,5 hm³) and farming ~0,4% (~0,5 hm³).

Figure 5-5. Total water abstraction in Evrota River RB (EL0333)



5.5 OTHER PRESSURES

Other pressures include:

- Runoff from mining and quarries
- Desalination plants
- Ports – Marinas - Navigation
- Groundwater Artificial Recharge
- Groundwater Alteration of water level or volume because of underground activity

Runoff from mining and quarries

In the Eastern Peloponnese RBD (EL03), there are 2 mines and 3 quarries in Tripoli Plateau RB (EL0330), 13 mines and 1 geothermal zone in Argolic Gulf Streams RB (EL0331) and 1 quarry in Evrota River RB (EL0333).

Desalination plants

In the Eastern Peloponnese RBD (EL03), there are 3 desalination plants in Argolic Gulf Streams RB (EL0331).

Ports- Marinas-Navigation

In the Eastern Peloponnese RBD (EL03), there are ports in Tripoli Plateau RB (EL0330), 60 ports/marinas in Argolic Gulf Streams RB (EL0331) and 4 ports/marinas in Evrota River RB (EL0333).

Groundwater artificial recharge

In the Eastern Peloponnese RBD (EL03), there have been studies for the artificial recharge of the following GWB:

- Systema Asopou-Glykovrysis ((EL0300150)
- Systema Troizinias (EL0300060)

The following overexploited GWB, could benefit from artificial recharge projects:

- Systema Astrous (EL0300090).

In Systema Argolikou Pediou (EL0300040) there is an ongoing project of artificial recharge.

Groundwater Alteration of water level or volume because of underground works

In the RBD there are no alterations of water level and volume because of underground works.

5.6 TOTAL NUTRIENT LOADS

Figure 5-6. Total nutrient surface loads (BOD, N and P) produced by point, diffuse and other pollution sources in RB (EL0330), (EL0331) and (EL0333)

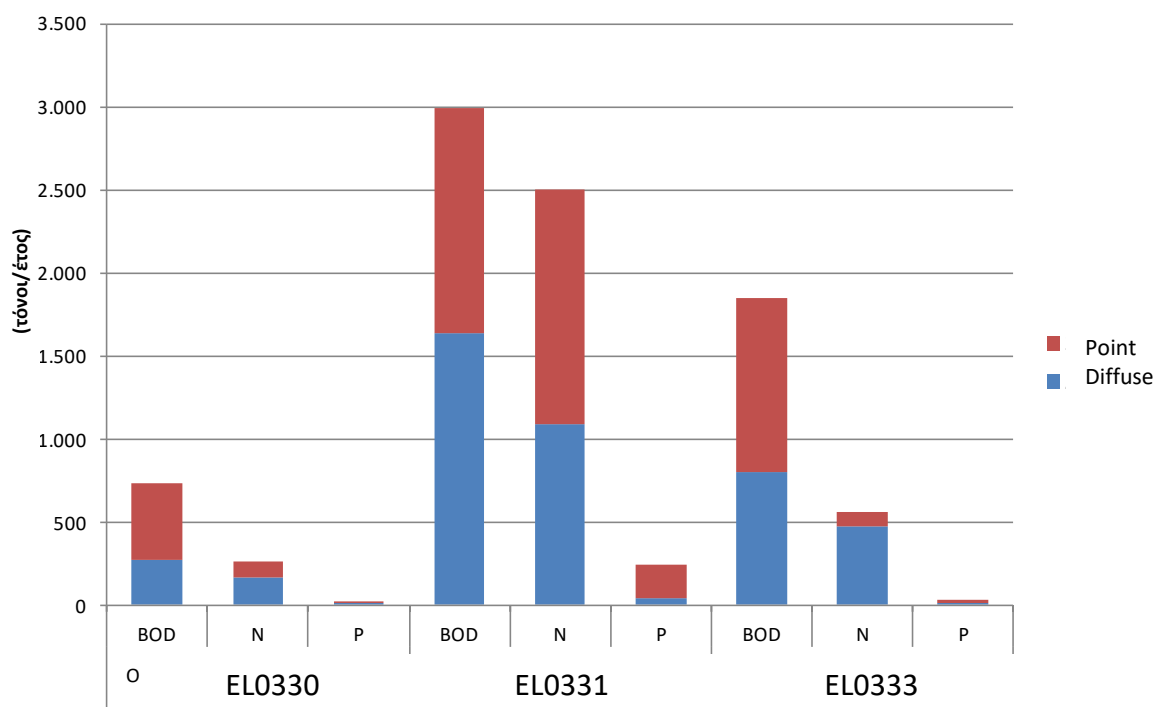


Table 5-7. Total annual nutrient surface loads (BOD, N and P) produced by all sources of pollution in Tripoli Plateau RB (EL0330)

POLLUTION SOURCE	BOD (t/y)	N (t/y)	P (t/y)
POINT	454,3	90,7	17,5
DIFFUSE	276,2	170,7	9,4
TOTAL	730,5	261,4	26,9

Table 5-8. Total annual nutrient surface loads (BOD, N and P) produced by all sources of pollution in Argolic Gulf Streams RB (EL0331)

POLLUTION SOURCE	BOD (t/y)	N (t/y)	P (t/y)
POINT	1.356,0	1.418,2	201,9
DIFFUSE	1.636,8	1.087,1	45,9
TOTAL	2.992,8	2.505,4	247,8

Table 5-9. Total annual nutrient surface loads (BOD, N and P) produced by all sources of pollution in Evrota River RB (EL0333)

POLLUTION SOURCE	BOD (t/y)	N (t/y)	P (t/y)
POINT	1.044,0	83,7	17,3
DIFFUSE	801,3	474,3	16,1
TOTAL	1.845,4	558,0	33,4

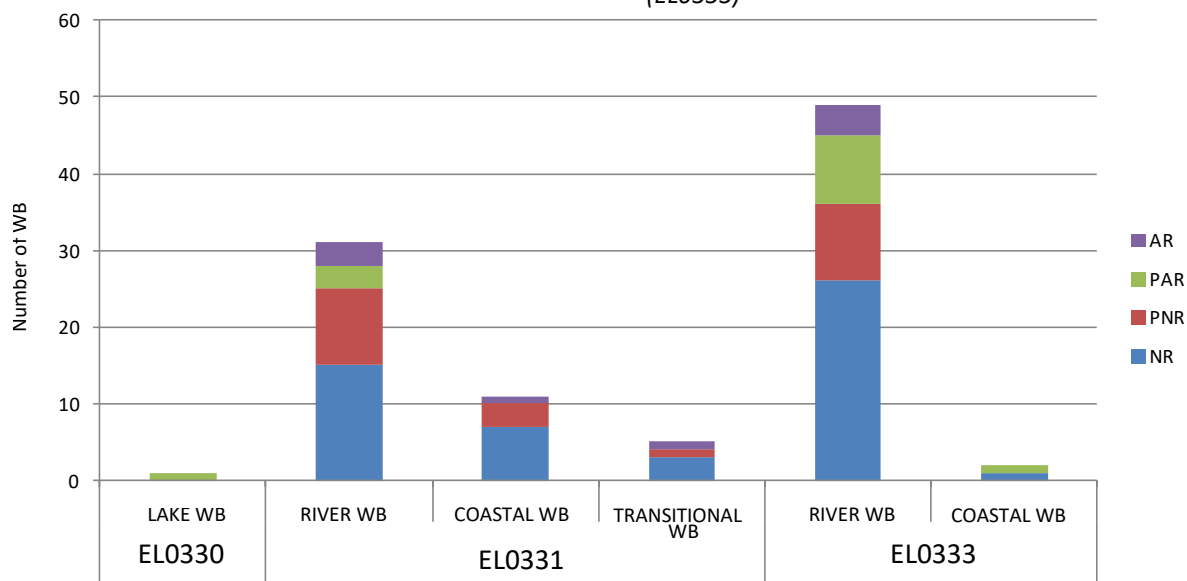
5.7 IMPACTS ASSESSMENT

5.7.1 Impacts assessment on SWB

Pressures Impact assessment and WB designation is based on the likelihood of failing to meet the WFD environmental objectives, taking in consideration the following information:

- The magnitude of pressure from emissions and abstractions : High (H), Middle (M), Low (L)
- Available data and Monitoring program results
- Expert judgement, when no data is available

Figure 5-7. Risk assessment of SWB failing to meet the WFD objectives in RB (EL0330), (EL0331) and (EL0333)



Tripoli Plateau RB (EL0330)

Table 5-10. Risk assessment of SWB failing to meet the WFD objectives in RB Tripoli Plateau RB (EL0330) – Number of WB

WB Type	Risk Assessment Categories*								Total Number of WB
	NR – Not at Risk		PNR - Probably not at Risk		PAR –Probably At Risk		AR- At Risk		
	Number of WB	Percentage of WB (%)	Number of WB	Percentage of WB (%)	Number of WB	Percentage of WB (%)	Number of WB	Percentage of WB (%)	
River WB	-	-	-	-	-	-	-	-	0
Lake WB	0	0,0%	0	0,0%	1	100,0%	0	0,0%	1
Transitional WB	-	-	-	-	-	-	-	-	0
Coastal WB	-	-	-	-	-	-	-	-	0
Total	0	0,0%	0	0,0%	1	100,0%	0	0,0%	1

Argolic Gulf Streams RB (EL0331)

Table 5-11. Risk assessment of SWB failing to meet the WFD objectives in Argolic Gulf Streams RB (EL0331) – Number of WB

WB Type	Risk Assessment Categories*								Total Number of WB
	NR – Not at Risk		PNR - Probably not at Risk		PAR –Probably At Risk		AR- At Risk		
	Number of WB	Percentage of WB (%)	Number of WB	Percentage of WB (%)	Number of WB	WB Type	Number of WB	Percentage of WB (%)	
River WB	15	48,4%	10	32,3%	3	9,7%	3	9,7%	31
Lake WB	-	-	-	-	-	-	-	-	0
Transitional WB	3	60,0%	1	20,0%	0	0,0%	1	20,0%	5
Coastal WB	7	63,6%	3	27,3%	0	0,0%	1	9,1%	11
Total	25	53,2%	14	29,8%	3	6,4%	5	10,6%	47

Evrota River RB (EL0333)

Table 5-12. Risk assessment of SWB failing to meet the WFD objectives in Evrota River RB (EL0333) – Number of WB

WB Type	Risk Assessment Categories*								Total Number of WB
	NR – Not at Risk		PNR - Probably not at Risk		PAR –Probably At Risk		AR- At Risk		
	Number of WB	Percentage of WB (%)	Number of WB	Percentage of WB (%)	Number of WB	WB Type	Number of WB	Percentage of WB (%)	
River WB	26	53,1%	10	20,4%	9	18,4%	4	8,2%	49
Lake WB	-	-	-	-	-	-	-	-	0
Transitional WB	-	-	-	-	-	-	-	-	0
Coastal WB	1	50,0%	0	0,0%	1	50,0%	0	0,0%	2
Total	27	52,9%	10	19,6%	10	19,6%	4	7,8%	51

5.7.2 Impacts assessment on GWB

Tripoli Plateau RB (EL0330)

In Tripoli Plateau RB (EL0330) there are 2 GWB, from which 1 is in pour Chemical status.

Table 5-13. Quantitative and Chemical status of GWB in Tripoli Plateau RB (EL0330)

NO	Code	Name	Quantitative status	Decline water levels Trend	Chemical status	Quality Issues	Pollutant Trend
1	EL0300010	Systema Kandilas	Good	No	Good	-	No
2	EL0300030	Systema oropediou Tripolis	Good	No	Poor	Locally	Locally

Argolic Gulf Streams RB (EL0331)

In Argolic Gulf Streams RB (EL0331) there are 20 GWB, from which 6 are in Poor Chemical status and 6 are in poor Quantitative status because of overexploitation.

Table 5-14. Quantitative and Chemical status of GWB in Argolic Gulf Streams RB (EL0331)

NO	Code	Name	Quantitative status	Decline water levels Trend	Chemical status	Quality Issues	Pollutant Trend
1	EL0300020	Systema An. Arkadias - Dyt. Argolidas	Good	No	Good	Locally	-
2	EL0300040	Systema Argolikou Pediou	Poor	Yes	Poor	Yes	-
3	EL0300050	Systema Mavrovouniou - Didymon	Good	Yes	Poor	Locally	Locally

NO	Code	Name	Quantitative status	Decline water levels Trend	Chemical status	Quality Issues	Pollutant Trend
4	EL0300060	Systima Troizinias	Poor	Yes	Poor	Yes	Locally
5	EL0300070	Systima Ermionis	Good	Yes	Poor	Yes	-
6	EL0300080	Systima Portocheliou	Poor	Yes	Poor	Locally	Locally
7	EL0300090	Systima Astrous	Poor	Yes	Poor	Yes	-
8	EL0300100	Systima Parnona	Good	No	Good	Locally	No
9	EL0300110	Systima Zaraká - Monemvasias	Good	No	Good	No	No
10	EL0300120	Systima Notioanatolikis Lakonias	Good	No	Good	No	No
11	EL0300130	Systima Neapolis	Poor	Yes	Poor	Locally	Locally
12	EL0300140	Systima Kythiron	Good	No	Good	No	No
13	EL0300150	Systima Asopou-Glykovrysis	Poor	Yes	Poor	Locally	Locally
14	EL0300280	Systima Antikythron	Good	No	Good	Locally	No
15	EL0300290	Systima Elafonisou	Good	No	Good	No	No
16	EL0300300	Systima Spetson	Good	No	Good	No	No
17	EL0300310	Systima Ydras	Good	No	Good	No	No
18	EL0300320	Systima Porou	Good	No	Good	No	No
19	EL0300330	Systima Methanon	Good	No	Good	No	No
20	EL0300340	Systima Neogenon Maladreniou	Good	No	Good	No	No

Evrota River RB (EL0333)

In Evrota River RB (EL0333) there are 12 GWB which are in Good Chemical and Quantitative status.

Table 5-15. Quantitative and Chemical status of GWB in Evrota River RB (EL0333)

NO	Code	Name	Quantitative status	Decline water levels Trend	Chemical status	Quality Issues	Pollutant Trend
1	EL0300160	Systima Gerakiou - Gkoritsas	Good	No	Good	Locally	Locally (Cl)
2	EL0300170	Systima Elous-Vasilopotamou	Good	No	Good	No	-
3	EL0300180	Systima Skalas	Good	No	Good	No	-
4	EL0300190	Systima Krokeon - Gytheiou	Good	No	Good	Locally	-
5	EL0300200	Systima p.Vardounia (p.Platy)	Good	Yes	Good	No	-
6	EL0300210	Systima Skoutariou	Good	No	Good	Locally	No
7	EL0300220	Systima Anat. Taygetou - Ag. Marinas	Good	No	Good	No	No
8	EL0300230	Systima Evrota	Good	Yes	Good	Yes	-
9	EL0300240	Systima Ag.Petrou-Voutianon	Good	No	Good	No	No
10	EL0300250	Systima Zorou - Sellasias	Good	No	Good	No	No
11	EL0300260	Systima Pellanas - Skortsinou	Good	No	Good	No	No
12	EL0300270	Systima Kollines - Vlachokerasias	Good	No	Good	No	No

6 STATUS OF WATER BODIES

6.1 SWB STATUS

Table 6-1. Status of River WB and evolution from the 1st RBMP

WB Code	WB Name	Ecological Status or Potential		Chemical Status	
		1 st RBMP	1 st Update of RBMP	1 st RBMP	1 st Update of RBMP
EL0331R000700001A	MARIOREMA STREAM_1	Unknown	Unknown	Unknown	Good
EL0331R000700002H	MARIOREMA STREAM_2	Unknown	Unknown	Unknown	Good
EL0331R000700003H	MARIOREMA STREAM_3	Unknown	Unknown	Unknown	Good
EL0331R000700004N	MARIOREMA STREAM_4	Unknown	Good	Unknown	Good
EL0331R000700005N	MARIOREMA STREAM_5	Good	Good	Unknown	Good
EL0331R001100006N	DAFNON STREAM_1	Unknown	Good	Unknown	Good
EL0331R001100007H	DAFNON STREAM_2	Unknown	Unknown	Unknown	Good
EL0331R001100008N	DAFNON STREAM_3	Unknown	Good	Unknown	Good
EL0331R001500009N	VRASIATIS STREAM_1	Unknown	Good	Unknown	Good
EL0331R001500010N	VRASIATIS STREAM_2	Unknown	Moderate	Unknown	Unknown
EL0331R001900011N	TANOS R._1	Unknown	Good	Unknown	Good
EL0331R001900012N	TANOS R._2	Unknown	Good	Unknown	Good
EL0331R001900013N	TANOS R._3	Unknown	Moderate	Unknown	Unknown
EL0331R001900014N	TANOS R._4	Good	Good	Unknown	Good
EL0331R001900015N	TANOS R._5	Good	Good	Unknown	Good
EL0331R002300016N	XORVRIO STREAM_1	Unknown	Good	Unknown	Good
EL0331R002300017N	XORVRIO STREAM_2	Unknown	Good	Unknown	Good
EL0331R002300018N	XORVRIO STREAM_3	Unknown	Good	Unknown	Good
EL0331R000201019H	INAHOS R._1	Moderate	Good	Poor	Good
EL0331R000202020H	XERIAS R._1	Unknown	Unknown	Unknown	Good
EL0331R000202021N	XERIAS R._2	Unknown	Good	Unknown	Good
EL0331R000202022N	XERIAS R._3	Unknown	Moderate	Unknown	Good
EL0331R000203023H	INAHOS R._2	Moderate	Good	Poor	Good
EL0331R000204024H	DERVENI STREAM_1	Unknown	Unknown	Unknown	Good
EL0331R000204025N	DERVENI STREAM_2	Unknown	Poor	Unknown	Good
EL0331R000204026N	DERVENI STREAM_3	Unknown	Good	Unknown	Good
EL0331R000205027H	INAHOS R._3	Moderate	Good	Poor	Good
EL0331R000205028N	INAHOS R._4	Moderate	Good	Poor	Good
EL0331R000205029N	INAHOS R._5	Unknown	Good	Poor	Good
EL0331R000205030N	INAHOS R._6	Unknown	Good	Unknown	Good
EL0331R003300031N	RADOS R.	Unknown	Good	Unknown	Good
EL0333R000300001N	PLATIS R._1	Unknown	Good	Unknown	Good
EL0333R000300002N	PLATIS R._2	Unknown	Good	Unknown	Good
EL0333R000300003N	PLATIS R._3	Unknown	Moderate	Unknown	Unknown
EL0333R000300004N	PLATIS R._4	Unknown	Good	Unknown	Good
EL0333R000300005N	PLATIS R._5	Unknown	Good	Unknown	Good
EL0333R000201006H	EVROTAS R._1	Moderate	Moderate	Poor	Good
EL0333R000201007N	EVROTAS R._2	Moderate	Bad	Unknown	Good
EL0333R000201008N	EVROTAS R._3	Poor	Good	Unknown	Good
EL0333R000201009N	EVROTAS R._4	Poor	Moderate	Unknown	Unknown

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WB Code	WB Name	Ecological Status or Potential		Chemical Status	
		1 st RBMP	1 st Update of RBMP	1 st RBMP	1 st Update of RBMP
EL0333R000201010N	EVROTAS R. 5	Poor	Good	Unknown	Good
EL0333R000202011N	RASINA STREAM_1	Poor	Good	Good	Unknown
EL0333R000202112N	GERAKARI STREAM_1	Moderate	Good	Good	Good
EL0333R000202113N	GERAKARI STREAM_2	Moderate	Good	Good	Good
EL0333R000202014N	RASINA STREAM_2	Poor	Good	Good	Good
EL0333R000202015N	RASINA STREAM_3	Good	Good	Unknown	Good
EL0333R000202016N	RASINA STREAM_4	Good	Good	Unknown	Good
EL0333R000203017N	EVROTAS R. 6	Moderate	Good	Poor	Good
EL0333R000203018N	EVROTAS R. 7	Moderate	Moderate	Poor	Unknown
EL0333R000204019N	KAKARI STREAM_1	Good	Good	Unknown	Good
EL0333R000204020N	KAKARI STREAM_2	Good	Good	Unknown	Good
EL0333R000205021N	EVROTAS R. 8	Moderate	Good	Poor	Good
EL0333R000206022N	KALIVES STREAM_1	Unknown	Moderate	Unknown	Good
EL0333R000206023N	KALIVES STREAM_2	Good	Good	Unknown	Good
EL0333R000206024N	KALIVES STREAM_3	Good	Good	Unknown	Good
EL0333R000207025N	EVROTAS R. 9	Moderate	Moderate	Poor	Unknown
EL0333R000208026N	MAGOULITSA STREAM_1	Moderate	Moderate	Unknown	Good
EL0333R000208027N	MAGOULITSA STREAM_2	Moderate	Moderate	Poor	Good
EL0333R000208028N	MAGOULITSA STREAM_3	Good	Good	Unknown	Good
EL0333R000209029N	EVROTAS R. 10	Poor	Poor	Poor	Good
EL0333R000210030N	INOUS R. 1	Moderate	Good	Poor	Good
EL0333R000210131N	SOFRONI STREAM_1	Moderate	Good	Poor	Good
EL0333R000210132N	SOFRONI STREAM_2	Moderate	Good	Poor	Good
EL0333R000210133N	SOFRONI STREAM_3	Good	Good	Unknown	Good
EL0333R000210034N	INOUS R. 2	Moderate	Good	Poor	Good
EL0333R000210235N	ARACHOVITIKO STREAM_1	Moderate	Good	Poor	Good
EL0333R000210236N	ARACHOVITIKO STREAM_2	Moderate	Good	Poor	Good
EL0333R000210237N	ARACHOVITIKO STREAM_3	Good	Moderate	Unknown	Good
EL0333R000210038N	INOUS R. 3	Good	Good	Unknown	Good
EL0333R000210039N	INOUS R. 4	Good	Good	Unknown	Good
EL0333R000211040N	EVROTAS R. 11	Moderate	Good	Poor	Unknown
EL0333R000211041N	EVROTAS R. 12	Moderate	Good	Poor	Good
EL0333R000212042N	KARDARI STREAM	Moderate	Good	Good	Good
EL0333R000213043N	EVROTAS R. 13	Moderate	Moderate	Poor	Good
EL0333R000214044N	KOLINIATIKO STREAM_1	Moderate	Good	Unknown	Good
EL0333R000214045N	KOLINIATIKO STREAM_2	Good	Good	Unknown	Good
EL0333R000215046N	EVROTAS R. 14	Good	Good	Unknown	Good
EL0333R000216047N	LAGADA STREAM_1	Good	Good	Unknown	Good
EL0333R000216048N	LAGADA STREAM_2	Good	Good	Unknown	Good
EL0333R000217049N	EVROTAS R. 15	Moderate	Moderate	Poor	Good

Table 6-2. Status of Lakes WB including artificial lakes and evolution from the 1st RBMP

WB Code	WB Name	Ecological Status or Potential		Chemical Status	
		1 st RBMP	1 st Update of RBMP	1 st RBMP	1 st Update of RBMP
EL0330L000000001H	TAKA ARTIF.LAKE	Unknown	Unknown	Unknown	Unknown

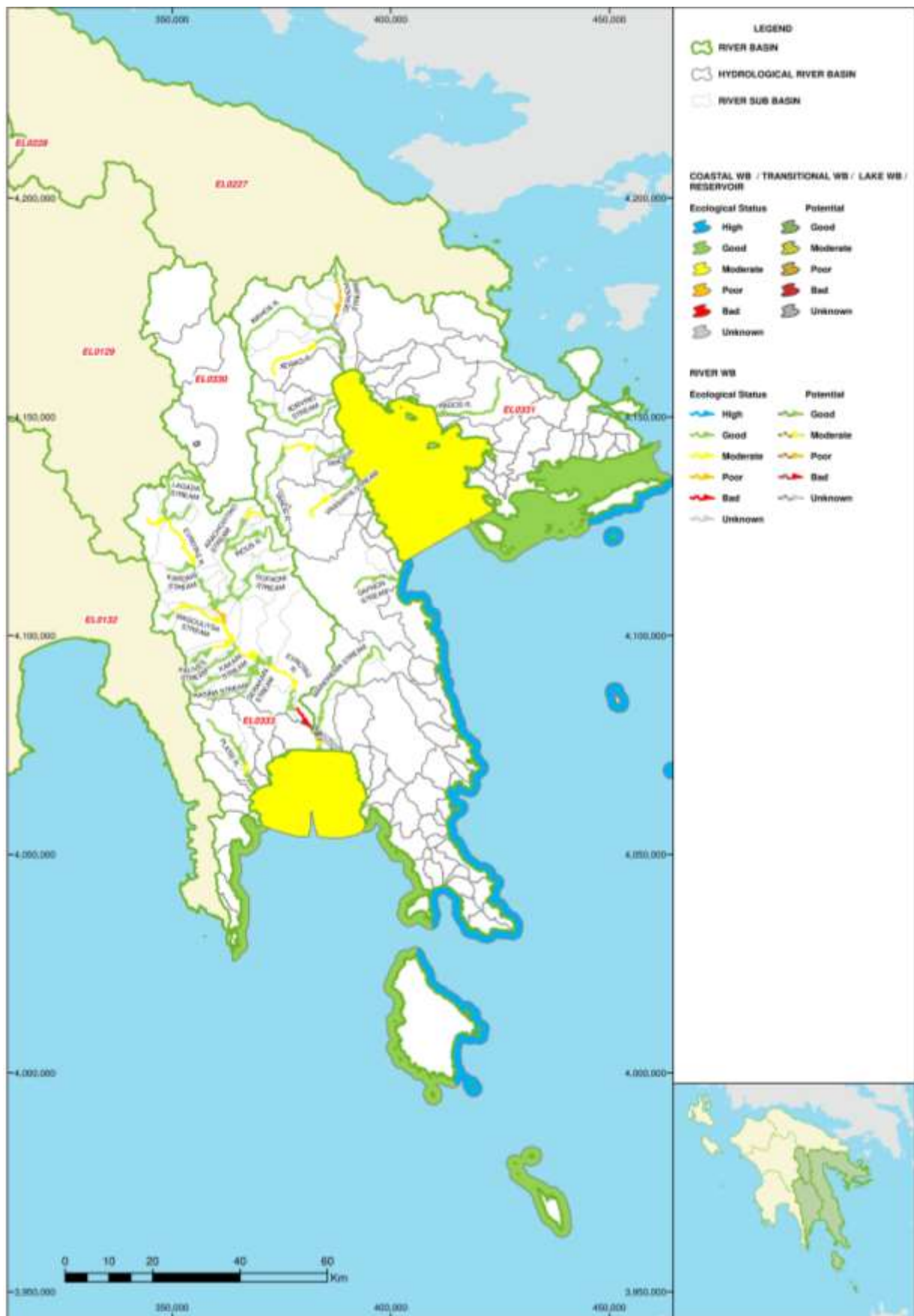
Table 6-3. Status of Transitional WB and evolution from the 1st RBMP

WB Code	WB Name	Ecological Status or Potential		Chemical Status	
		1 st RBMP	1 st Update of RBMP	1 st RBMP	1 st Update of RBMP
EL0331T0001N	DREPANOS-ASINI LAGOON	Unknown	Unknown	Unknown	Unknown
EL0331T0002N	THERMISIA LAGOON	Unknown	Unknown	Unknown	Unknown
EL0331T0003N	STROGGILI LIMNI LAGOON	Unknown	Unknown	Unknown	Unknown
EL0331T0004N	VIVARI LAGOON (EVROTAS DELTA)	Unknown	Unknown	Unknown	Unknown
EL0331T0005N	MOUSTOU WETLAND	Unknown	Unknown	Unknown	Unknown

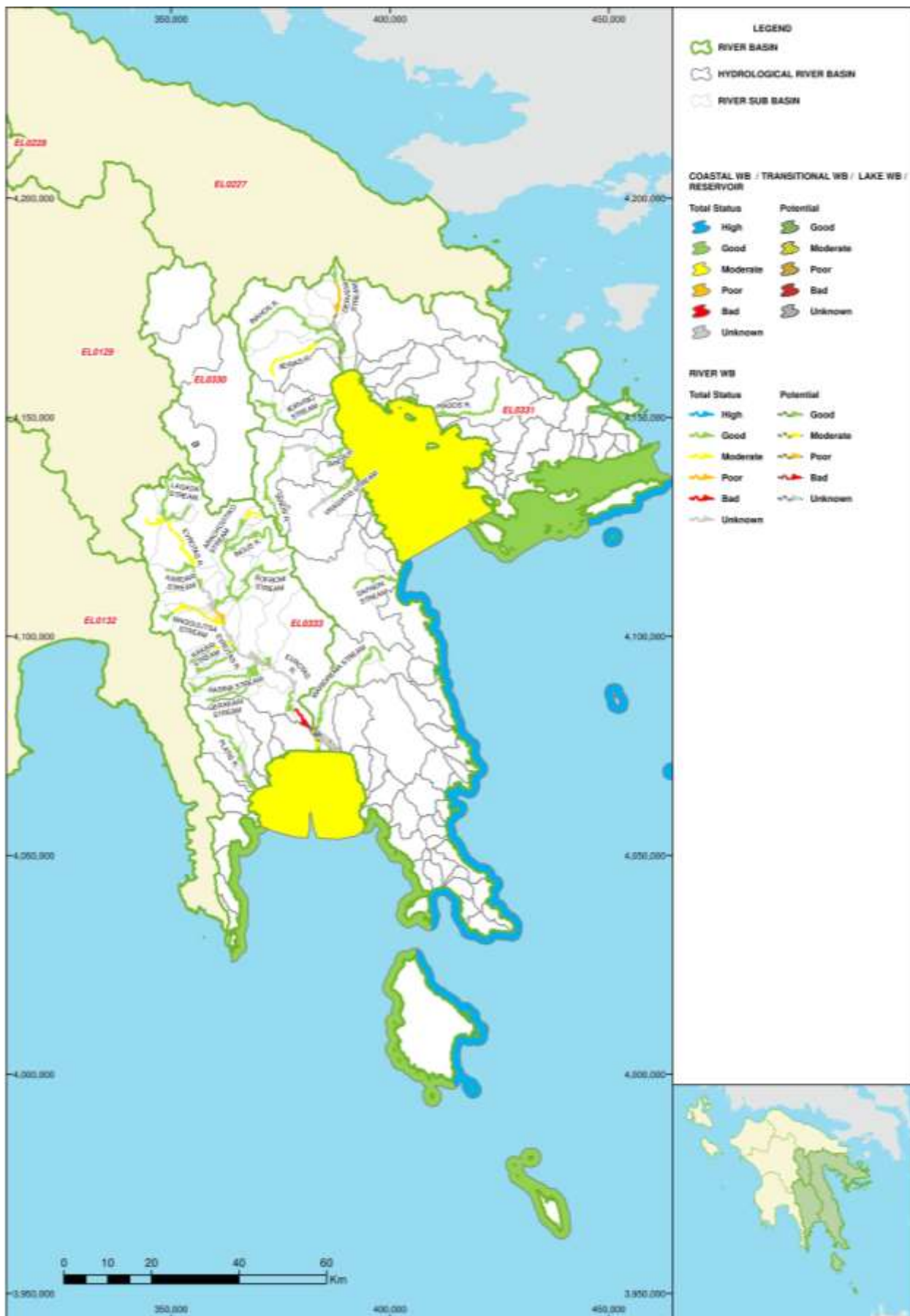
Table 6-4. Status of Coastal WB and evolution from the 1st RBMP

WB Code	WB Name	Ecological Status or Potential		Chemical Status	
		1 st RBMP	1 st Update of RBMP	1 st RBMP	1 st Update of RBMP
EL0331C0001N	ARGOLIKOS GULF	Moderate	Moderate	Unknown	Good
EL0331C0002N	HYDRA-DOKOS-SPETSES CHANNEL	Moderate	Good	Unknown	Good
EL0331C0003N	HYDRA COASTS	High	High	Unknown	Good
EL0331C0004N	ISLET_1	High	High	Unknown	Good
EL0331C0005N	EAST COAST OF PELOPONNESE	High	High	Unknown	Good
EL0331C0006N	ELAFONISOS COASTS	High	Good	Unknown	Good
EL0331C0009N	EAST COAST OF KITHIRA	High	High	Unknown	Good
EL0331C0010N	WEST COAST OF KITHIRA	High	Good	Unknown	Good
EL0331C0011N	COAST OF ANTIKITHIRA	High	Good	Unknown	Good
EL0331C0012N	ISLET_2	High	High	Unknown	Good
EL0331C0013N	ISLET_3	High	High	Unknown	Good
EL0333C0007N	COAST OF LAKONIKOS GULF	Good	Moderate	Unknown	Good
EL0333C0008N	TENARO CAPE – LAKONIKOS GULF	High	Good	Unknown	Good

Map 5. Ecological status of SWB in RBD EL03



Map 7. Total status of SWB in RBD EL03



6.2 GWB STATUS

Table 6-5. Status of GWB and evolution from the 1st RBMP in Tripoli Plateau RB (EL0330)

GWB Code	GWB Name	1 st RBMP		1 st Update of RBMP	
		Chemical status	Quantitative status	Chemical status	Quantitative status
EL0300010	Systima Kandilas	Good	Good	Good	Good
EL0300030	Systima oropediou Tripolis	Poor	Good	Poor	Good

Table 6-6. Status of GWB and evolution from the 1st RBMP in Argolic Gulf Streams RB (EL0331)

GWB Code	GWB Name	1 st RBMP		1 st Update of RBMP	
		Chemical status	Quantitative status	Chemical status	Quantitative status
EL0300020	Systima An. Arkadias - Dyt. Argolidas	Good	Good	Good	Good
EL0300040	Systima Argolikou Pediou	Poor	Poor	Poor	Poor
EL0300050	Systima Mavrovouniou - Didymon	Poor	Good	Poor	Good
EL0300060	Systima Troizinias	Poor	Poor	Poor	Poor
EL0300070	Systima Ermionis	Poor	Good	Poor	Good
EL0300080	Systima Portocheliou	Poor	Poor	Poor	Poor
EL0300090	Systima Astrous	Poor	Good	Poor	Poor
EL0300100	Systima Parnona	Good	Good	Good	Good
EL0300110	Systima Zaraka - Monemvasias	Good	Good	Good	Good
EL0300120	Systima Notioanatolikis Lakonias	Good	Good	Good	Good
EL0300130	Systima Neapolis	Poor	Poor	Poor	Poor
EL0300140	Systima Kythiron	Good	Good	Good	Good
EL0300150	Systima Asopou-Glykovrysis	Poor	Poor	Poor	Poor
EL0300280	Systima Antikythiron	Good	Good	Good	Good
EL0300290	Systima Elafonisou	Good	Good	Good	Good
EL0300300	Systima Spetson	Good	Good	Good	Good
EL0300310	Systima Ydras	Good	Good	Good	Good
EL0300320	Systima Porou	Good	Good	Good	Good
EL0300330	Systima Methanon	Good	Good	Good	Good
EL0300340	Systima Neogenon Maladreniou	Good	Good	Good	Good

Table 6-7. Status of GWB and evolution from the 1st RBMP in Evrota River RB (EL0333)

GWB Code	GWB Name	1 st RBMP		1 st Update of RBMP	
		Chemical status	Quantitative status	Chemical status	Quantitative status
EL0300160	Systima Gerakiou - Gkoritsas	Good	Good	Good	Good
EL0300170	Systima Elous- Vasilopotamou	Good	Good	Good	Good
EL0300180	Systima Skalas	Good	Good	Good	Good
EL0300190	Systima Krokeon - Gytheiou	Good	Good	Good	Good
EL0300200	Systima p.Vardounia (p.Platy)	Good	Good	Good	Good
EL0300210	Systima Skoutariou	Good	Good	Good	Good
EL0300220	Systima Anat. Taygetou - Ag. Marinas	Good	Good	Good	Good
EL0300230	Systima Evrota	Poor	Good	Good	Good
EL0300240	Systima Ag.Petrou-Voutianon	Good	Good	Good	Good
EL0300250	Systima Zorou - Sellasias	Good	Good	Good	Good
EL0300260	Systima Pellanas - Skortsinou	Good	Good	Good	Good
EL0300270	Systima Kollines - Vlachokerasias	Good	Good	Good	Good

Map 8. Chemical status of GWB in RBD EL03



Map 9. Quantitative status of GWB in RBD EL03



7 ECONOMIC ANALYSIS

7.1 WATER SERVICES FINANCIAL COST

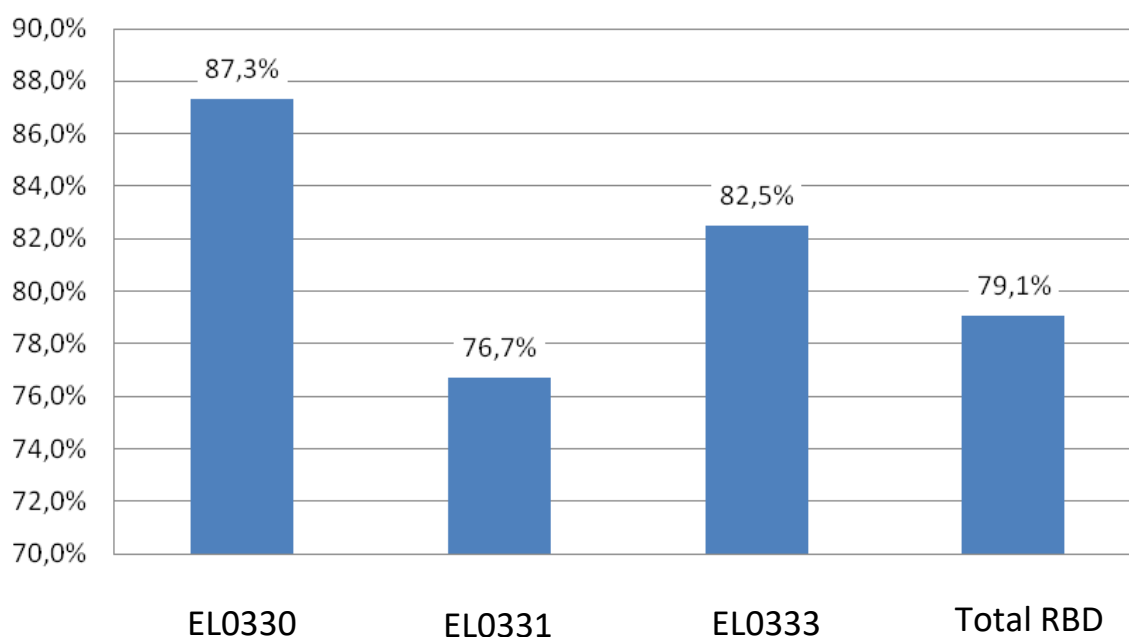
7.1.1 Drinking water supply, sewage collection and wastewater treatment

The total financial cost of drinkingwater supply, sewage collection and wastewater treatment in Eastern Peloponnese RBD (EL03) is 26.823.278 €. Cost recovery is 79,1% (revenues 21,21 M € - 26,82 M € expenses).

Table 7-1. Financial Cost Recovery for Water Supply

RB	Total Financial Cost (€)	Average Financial Cost (€/m ³)	Total Revenues (€)	Average Revenues (€/m ³)	Financial Cost Recovery
Tripoli Plateau RB (EL0330)	3.488.036	1,002	3.045.401	0,875	87,3%
Argolic Gulf Streams RB (EL0331)	18.826.168	1,113	14.444.016	0,854	76,7%
Evrota River RB (EL0333)	4.509.074	0,823	3.719.646	0,679	82,5%
Total RBD EL03	26.823.278	1,037	21.209.063	0,820	79,1%

Figure 7-1. Financial Cost Recovery for Water Supply



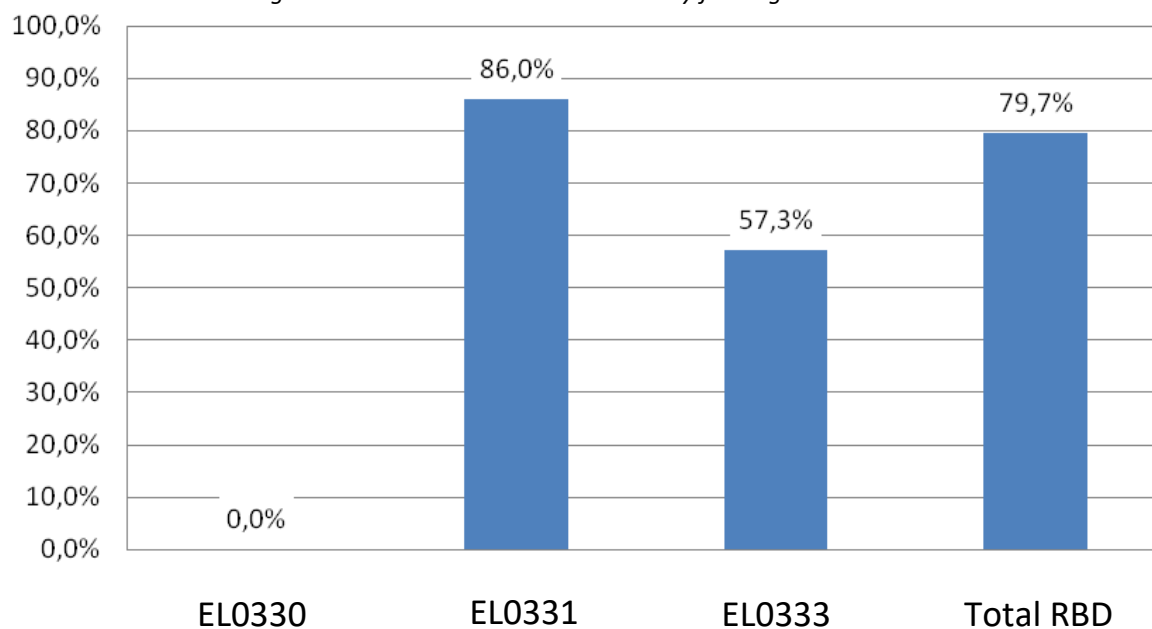
7.1.2 Irrigation

The total financial cost for Irrigation services in Eastern Peloponnese RBD (EL03) is 4.792.317 €. Cost recovery is 79,7% (revenues 3,82 M € - 4,79 M € expenses).

Table 7-2. Financial Cost Recovery for Irrigation services

RB	Total Financial Cost (€)	Average Financial Cost (€/m ³)	Total Revenues (€)	Average Revenues (€/m ³)	Financial Cost Recovery
Tripoli Plateau RB (EL0330)	-	-	-	-	-
Argolic Gulf Streams RB (EL0331)	3.741.908	0,128	3.217.106	0,110	86,0%
Evrota River RB (EL0333)	1.050.409	0,064	601.808	0,036	57,3%
Total RBD EL03	4.792.317	0,105	3.818.914	0,083	79,7%

Figure 7-2. Financial Cost Recovery for Irrigation services



7.2 ENVIRONMENTAL COST AND RESOURCE COST

7.2.1 Environmental Cost

The annual Environmental Cost in the RBD is 87.500 €. 100% in due to Evrota River RB (EL0333) . The Average Environmental Cost in the RBD is 0,0002€/m³.

Table 7-3. Annual Environmental Cost

RB	Annual Environmental Cost (€)	Average Environmental Cost (€/m ³)
Tripoli Plateau RB (EL0330)	0	0
Argolic Gulf Streams RB (EL0331)	0	0
Evrota River RB (EL0333)	87.500	0,0008
Total RBD EL03	87.500	0,0002

It is noted that in this RBD there is no Environmental Cost generated from the Industrial Water Use /Services.

Table 7-4. Distribution of the Environmental cost per Service

Environmental Cost	Water Supply	Irrigation	Total
Tripoli Plateau RB (EL0330)			
Total cost for all years of PoM implementation (€) (2018-2021, 4 years)	0	0	0
Annual cost per service (€)	0	0	0
Percentage (%)	0,0%	0,0%	0,0%
Average Annual Cost (€/m ³)	0	0	0
Argolic Gulf Streams RB (EL0331)			
Total cost for all years of PoM implementation (€) (2018-2021, 4 years)	0	0	0
Annual cost per service (€)	0	0	0
Percentage (%)	0,0%	0,0%	0,0%
Average Annual Cost (€/m ³)	0	0	0
Evrota River RB (EL0333)			
Total cost for all years of PoM implementation (€) (2018-2021, 4 years)	0	350.000	350.000
Annual cost per service (€)	0	87.500	87.500
Percentage (%)	0,0%	100,0%	100,0%
Average Annual Cost (€/m ³)	0	0,00084	0,00078

In Evrota River RB (EL0333) 100% of the total annual Environmental Cost is due to the Irrigation Service.

7.2.2 Resource cost

The annual Resource Cost in the RBD is 162.500 €. 100% in due to in Argolic Gulf Streams RB (EL0331). The Average Resource Cost in the RBD is 0,38 €/1.000 m³.

Table 7-5. Annual Resource Cost

RB	Annual Resource Cost (€)	Average Resource Cost (€/ 1000 m ³)
Tripoli Plateau RB (EL0330)	0	0
Argolic Gulf Streams RB (EL0331)	162.500	0,56
Evrota River RB (EL0333)	0	0
Total RBD EL03	162.500	0,38

It is noted that in this RBD, no Resource Cost is generated from the Industrial Water Use /Service.

Table 7-6. Distribution of the Resource Cost per Service

Resource Cost	Water Supply	Irrigation	Total
Tripoli Plateau RB (EL0330)			
Total cost for all years of PoM implementation (€) (2018-2021, 4 years)	0	0	0
Annual cost per service (€)	0	0	0
Percentage (%)	0,0%	0,0%	0,0%
Average Annual Cost (€/m ³)	0	0	0
Argolic Gulf Streams RB (EL0331)			
Total cost for all years of PoM implementation (€) (2018-2021, 4 years)	20.000	630.000	650.000
Annual cost per service (€)	5.000	157.500	162.500
Percentage (%)	3,08%	96,92%	100,0%
Average Annual Cost (€/m ³)	0,00021	0,00058	0,00055
Evrota River RB (EL0333)			
Total cost for all years of PoM implementation (€) (2018-2021, 4 years)	0	0	0
Annual cost per service (€)	0	0	0
Percentage (%)	0,0%	0,0%	0,0%
Average Annual Cost (€/m ³)	0	0	0

The total annual Resource Cost is due to RB EL0331: 96,92% in Irrigation and 3,08% in Water Supply.

8 ENVIRONMENTAL OBJECTIVES -EXEMPTIONS

The environmental objectives set for the 99 SWB of the RBD by 2021 are presented in the following table:

Table 8-1. SWB Environmental objectives by 2021

Environmental Objective	Number of SWB
Maintain good / high ecological status/potential	68
Maintain good chemical status	85
Achieve good ecological status	7
Achieve good chemical status	0
Identify ecological status/potential	12
Determine the chemical status	14
Exemption Article 4.4 (Deadline extension)	26
Exemption Article 4.5 (Less strict environmental objectives)	0
Exemption Article 4.6 (Temporary deterioration)	0
Exemption Article 4.7 (New modifications)	0

The environmental objectives set for the 34 GWB of the RBD by 2021 are presented in the following table:

Table 8-2. GWB Environmental objectives by 2021

Environmental Objective	Number of GWB
Maintain good quantitative status	28
Maintain good chemical status	25
Achieve good quantitative status	0
Achieve good chemical status	0
Exemption Article 4.4 (Deadline extension)	9
Exemption Article 4.5 (Less strict environmental objectives)	0
Exemption Article 4.6 (Temporary deterioration)	0
Exemption Article 4.7 (New modifications)	0

8.1 DEADLINE EXTENSION (ARTICLE 4.4 DIRECTIVE 2000/60/EC)

Table 8-3. WB exemptions 2021

	EXEMPTIONS		Number of WB
	CATEGORY	SUB-CATEGORY	
SWB Ecological status	Article 4.4 (Deadline extension)	It takes longer to fix the problem than there is time available	6
SWB Ecological status	Article 4.4 (Deadline extension)	There is no information on the cause of the problem so the solution cannot be identified	20
GWB Quantitative Status	Article 4.4 (Deadline extension)	It takes longer to fix the problem than there is time available	9
GWB Chemical Status	Article 4.4 (Deadline extension)	It takes longer to fix the problem than there is time available	9

8.2 LESS STRICT ENVIRONMENTAL OBJECTIVES (ARTICLE 4.5 DIRECTIVE 2000/60/EC)

In the present Update of RBMP, no less strict environmental objectives are set for any GWB or SWB. This exemption category will be reviewed in the next Update of RBMP, taking into consideration the new monitoring data and after evaluating technically feasible measures.

8.3 TEMPORARY DETERIORATION (ARTICLE 4.6 DIRECTIVE 2000/60/EC)

In the present Update of RBMP, no temporary deterioration is foreseeing for any GWB or SWB. This exemption category will be reviewed in the next Update of RBMP, taking into consideration the new monitoring data and after evaluating technically feasible measures.

8.4 NEW MODIFICATIONS (ARTICLE 4.7 DIRECTIVE 2000/60/EC)

The 1st Update of RBMP defines the procedure for considering the potential inclusion in Article 4.7 of Directive 2000/60 / EC of water bodies affected by programmed projects.

For this purpose a specific analytical methodology has been developed, which is available on the relevant website of the Special Secretariat of Water <http://wfdver.ypeka.gr/>. The implementation procedure of Article 4.7 is set out in detail, is in force since the adoption of this Management Plan and concerns planned projects for which no environmental permit dossier has been filed or in cases where according to the existing legislation there is no requirement for approval of environmental terms, a request for authorization to build, install or operate has not been filed by the competent body, as appropriate.

9 PROGRAMME OF MEASURES

The Programme of Measures is part of the Management Plan and is the "mechanism" for achieving the environmental objectives set. Especially the implementation of the Programme Measure should ensure:

- 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 water bodies, the prevention of their pollution and the deterioration of their water status in order to balance between abstraction and renewal.
- 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 EU and national legislation on water protection (**Group I**).
- Other Basic Key Measures (**Group II**). These basic measures are related to the basic principles of EU and national legislation on water management and relate to the horizontal implementation of actions in groups, usually, water bodies, with a view to achieving or maintaining good status in water.

The **Supplementary Measures** are the measures established and implemented in addition to the Basic Measures, in order to achieve the objectives set in accordance with Article 4 of Directive 2000/60 / EC. Member States may adopt further supplementary measures with a view to additional protection or improvement of the waters covered by the Directive.

9.1 PROGRESS OF IMPLEMENTATION OF THE 1ST RBMP POM

The PoM of the 1st RBMP included 51 Basic Measures (13 Group I and 38 Group II).

Table 9-1. Number of Basic Measures of 1st RBMP per category of Actions

Actions concerning measures	Number of measures
Administrative acts	6+10=16
Constructions	2+3=5
Studies	0+6=6
Measures relating to administrative acts but requiring specific studies or surveys	2+17=19
Measures relating to Services / advisory actions	3+2=5
Total	13+38=51

Table 9-2. Progress of the implementation of the Basic Measures of the Program of Measures of the 1st RBMP

Category of Measures	Total number of measures	Number of measures already implemented	Number of measures in progress / under construction	Number of measures not started
EU Directive measures	13	7	6	
Measures deemed appropriate for the purposes of Article 9 (cost recovery)	1	1		
Measures to promote an efficient and sustainable water use in order to avoid compromising the achievement of the objectives specified in Article 4	6	2	4	0

Category of Measures	Total number of measures	Number of measures already implemented	Number of measures in progress / under construction	Number of measures not started
Measures to meet the requirements of Article 7 (drinking water)	6		6	
Measures for the controls over the abstraction of surface water and groundwater	6	4	2	
Measures for the controls of artificial recharge of GWB	3	0	3	
Measures for point source discharges	9	3	5	1
Measures for diffuse sources liable to cause pollution	3	1	2	
Measures for any other significant adverse impacts on the status of water	2		2	
Special Measures for the priority substances and other substances				
Measures for the prevention of accidental pollution incidents / extreme weather events	2	2		
Total	13+38=51	7+13=20	6+24=30	0+1=1

In addition to the above basic measures, the program of measures of the 1st RBMP included 137 supplementary measures, of which 27 are horizontal supplementary, covering 12 categories of measures of Directive 2000/60/EC.

Table 9-3. Progress of the implementation of the Supplementary Measures of the Program of Measures of the 1st RBMP

Category of Measures	Total number of measures	Number of measures already implemented	Number of measures in progress / under construction	Number of measures not started
Legislative instruments	18	0	18	0
Administrative instruments	0	0	0	0
Negotiated environmental agreements	1	0	0	1
Emission controls	13	0	12	1
Recreation and restoration of wetlands areas	3	0	0	3
Abstraction controls	17	3	10	4
Demand management measures	3	0	3	0
Construction projects	24	1	15	8
Infrastructure rehabilitation projects	2	1	0	1
Artificial recharge of aquifers	4	0	3	1
Research, development and demonstration projects	5	0	2	3
Other relevant measures	20	1	2	17
Horizontal Supplementary measures concerning SWB	4	1	3	0
Horizontal Supplementary measures concerning GWB	23	0	23	0
Total	137	7	91	39

9.2 PROGRAMME OF BASIC AND SUPPLEMENTARY MEASURES

Implementation timetable

The measures are divided into the following implementation timetable categories:

- Short term: Immediate implementation is possible
- Medium term: Implementation within 2 years
- Long term: Their implementation requires more than 2 years

Implementing bodies

For each measure, the implementing bodies are presented. The national legislation details the jurisdictions of each implementing body. Each measure can be implemented from additional implementing bodies, not mentioned below, if this derives from the legal framework.

New projects and activities

In the present Programme of Basic and Supplementary measures specific restrictions or requirements are set for “new” projects and activities. These restrictions or requirements do not apply on projects and activities that are already operational or under construction or have already secured funding or have at least one administrative act approved.

9.2.1 Actions implementing EU Directives (Group I Basic Measures)

The planned actions for the implementation of EU Directives and National legislation for the protection of WB are presented in the following table.

Table 9-4. Actions for the implementation of EU Directives

DIRECTIVE	PLANNED ACTIONS	IMPLEMENTING BODIES
Bathing water Directive (2006/7/ EC)	<ul style="list-style-type: none"> • Continue to monitor the quality of bathing water in accordance with Directive 2006/7 / EC. 	Special Secretariat for Water, Directorate of Water of the Decentralized Administration
	<ul style="list-style-type: none"> • Updating the Greek Bathing Water Profiles Registry 	
Habitats Directive (92/43/EEC) Birds Directive (2009/147/ EC)	<ul style="list-style-type: none"> • Setting /Approval Management Plans for protected areas of Natura 2000 network relating with water management issues 	Ministry of Environment and Energy, Protected Areas Management Bodies
	<ul style="list-style-type: none"> • Monitoring/Assessment of the conservation status of habitats and species directly depending on water in Natura 2000 areas. 	
Drinking water (Directives 98/83/ EC, 2015/1787/ EC)	<ul style="list-style-type: none"> • Monitoring of the implementation of the Directive 	Ministry of Health

DIRECTIVE	PLANNED ACTIONS	IMPLEMENTING BODIES
Environmental Impact Assessment Directives (2011/92/EC, 2014/52/EC)	<p>Amendment of the Ministerial Decision 170225/2014 – (Specifications for the contents of environmental permitting dossiers for projects and activities of category A) so that for certain categories of projects, which should be first specified, to make the following mandatory:</p> <ul style="list-style-type: none"> Emissions of pollutants by category, Calculation of pollution impacts in WB defined in the Management Plans and Comparing these concentrations with the Environmental Quality Standards. Establishment of a monitoring program and notification of results to the relevant Water Directorate. 	Ministry of Environment and Energy
Industrial Emissions Directive IED, (2010/75/EC)	<ul style="list-style-type: none"> Keeping registration and records of installations that are in line with the provisions of the Directive 	Decentralized administration
Nitrates Directive (91/676/EC)	<ul style="list-style-type: none"> Implementation of New Action Plans. The drafting of New Action Plans in all the vulnerable zones of the country has been entrusted by the Ministry of Rural Development and Food to the Agricultural University of Athens and is under preparation. 	Ministry of Rural Development and Food
	<ul style="list-style-type: none"> Systematic monitoring of nitrate levels in WBs that are or may be subject to nitrate pollution. 	Special Secretariat for Water, Ministry of Rural Development and Food
Plant Protection Products (Directive 2009/128/EK, Regulation (EU) No. 1107/2009, Regulation (EU) No. 652/2014)	<ul style="list-style-type: none"> Rational use of plant protection products 	Ministry of Rural Development and Food
Major Accidents (Seveso) Directive (2012/18/EC)	<ul style="list-style-type: none"> Keeping registration and records of installations that are in line with the provisions of the Directive 	Decentralized administration
Sewage sludge Directive (86/278/EEC)	<ul style="list-style-type: none"> Setting up a Joint Ministerial Decision, 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 Joint Ministerial Decision 80568/4225 / 1991 and promotion of actions related to the safe disposal of treated sludge. 	Ministry of Environment and Energy
Urban Waste Water Treatment Directive (91/271/ EC, 98/15/ EC)	<ul style="list-style-type: none"> Completion of sewerage and waste water treatment projects of the settlements that concerns the provisions of the Directive (covering all agglomerations with a population greater than 2,000 p.e.). 	Region, MEWSS, Municipalities
	<ul style="list-style-type: none"> Strengthening actions to control the effective operation of existing wastewater treatment and drainage projects. 	Region

9.2.2 Basic Measures of other categories (Group II Basic Measures)

Table 9-5. Basic measures of other categories

CODE - NAME OF MEASURE	CATEGORY	1 st RBMP	IMPLEMENTING BODIES
M03B0201 Upgrading of the organizational function of organizations of land reclamation for the compliance with the financial and other data in order to meet the requirements of the Joint Ministerial Decision 132275/19.05.2017 (Government Gazette 1751 B'/22.05.2017) of the National Water Committee, which deals with pricing and costing rules for water supply services	Measures to implement the cost recovery principle (Art. 9)	YES	Organization of Land reclamation (Local, General) / Region / Ministry of Environment & Energy (Special Secretariat for Water) /Ministry of Rural Development & Food
M03B0202 Upgrade of the organizational function of MEWSS for the compliance with the financial and other data in order to meet the requirements of the Joint Ministerial Decision 132275/19.05.2017 (Government Gazette 1751 B'/22.05.2017) of the National Water Committee, which deals with pricing and costing rules for water supply services.	Measures to implement the cost recovery principle (Art. 9)	YES	MEWSS / Ministry of Environment & Energy (Special Secretariat for Water) / Ministry of Interior
M03B0203 Upgrading of the organizational function of the Local Government Organizations for the compliance with the financial and other data in order to meet the requirements of the Joint Ministerial Decision 132275/19.05.2017 (Government Gazette 1751 B'/22.05.2017) of the National Water Committee, which deals with pricing and costing rules for water supply services.	Measures to implement the cost recovery principle (Art. 9)	YES	Local Government Organizations / Ministry of Environment & Energy (Special Secretariat for Water) / Ministry of Interior
M03B0204 Training and expertise of all the stakeholders (Decentralized Administrations, Regions, MEWSS, LOLR, Local Government Organizations of the Joint Ministerial Decision 132275/19.05.2017 (Government Gazette 1751 B'/22.05.2017) of the National Water Committee, which deals with pricing and costing rules for water supply services.	Measures to implement the cost recovery principle (Art. 9)	YES	Ministry of Environment & Energy (Special Secretariat for Water)
M03B0301 Preparation / Update of the Water Supply Masterplan	Measures to promote an efficient and sustainable water use (Art. 4)	YES	MEWSS / Municipalities /Water suppliers/ Decentralized Administration (Water Directorate)
M03B0302 Actions for the reinforcement, rehabilitation, modernization of water supply networks and leakage control	Measures to promote an efficient and sustainable water use (Art. 4)	YES	Municipalities / MEWSS / Drinking water providers / Region / Decentralized Administration (Water Directorate)
M03B0303 Increase the efficiency of water use in land reclamation infrastructures	Measures to promote an efficient and sustainable water use (Art. 4)	YES	Ministry of Rural Development and Food, Regions

CODE - NAME OF MEASURE	CATEGORY	1 st RBMP	IMPLEMENTING BODIES
M03B0304 Investments for saving water in agriculture	Measures to promote an efficient and sustainable water use (Art. 4)	YES	Individuals / Irrigation water providers / Ministry of Rural Development and Food / Regions
M03B0305 Determination of maximum irrigation requirements for crops for private water abstractions	Measures to promote an efficient and sustainable water use (Art. 4)	YES	Decentralized Administration (Water Directorate), Regional directorate of Rural Economy and Veterinary Medicine
M03B0306 Strengthening loss reduction actions on collective irrigation networks	Measures to promote an efficient and sustainable water use (Art. 4)	YES	GOLR/LOLR/Collective Irrigation Networks, Region
M03B0307 Preparation of manual of technical specifications for application of water reuse methods	Measures to promote an efficient and sustainable water use (Art. 4)	YES	Ministry of Environment & Energy (Special Secretariat for Water)
M03B0308 Update of the existing Strategic Plan to Address Water Scarcity and Drought	Measures to promote an efficient and sustainable water use (Art. 4)	YES	Decentralized Administration (Water Directorate), Ministry of Environment & Energy (Special Secretariat for Water)
M03B0401 Definition and delimitation of zones and / or measures for the protection of water abstraction points, intended for human consumption from groundwater bodies	Measures to meet the requirements of Article 7 (drinking water)	YES	Decentralized Administration (Water Directorate) and Drinking water providers (MEWSS, Municipalities etc.)
M03B0402 Protection of GWBs included in the registry of protected areas for human consumption and establishment of an institutional framework of protection	Measures to meet the requirements of Article 7 (drinking water)	YES	Decentralized Administration (Water Directorate)
M03B0403 Surface water projects for water supply protection	Measures to meet the requirements of Article 7 (drinking water)	YES	Municipalities / MEWSS / Water providers / Decentralized Administration (Water Directorate)
M03B0404 Implementation of Water Safety Plans	Measures to meet the requirements of Article 7 (drinking water)	YES	MEWSS, Municipalities, Drinking water providers, Decentralized Administration (Water Directorate)

CODE - NAME OF MEASURE	CATEGORY	1 st RBMP	IMPLEMENTING BODIES
M03B0501 Restrictions, terms and conditions for the construction of groundwater abstraction projects (drilling, wells, etc.) for new uses, as well as extension of existing water use permits to: (a) area of GWBs in Poor quantitative status (b) the protection zone II of the abstractions serving the water supply networks that operated by Municipalities, Municipal Syndicates, MEWSS, Inter-MEWSS and drinking water companies , (c) zones of collective irrigation networks (d) coastal GWB with extensive or local salinization problems, regardless of their origin	Measures to control surface and groundwater abstractions	YES	Decentralized Administration (Water Directorate)
M03B0502 Annual online registration of surface and groundwater abstractions	Measures to control surface and groundwater abstractions	YES	Ministry of Environment & Energy (Special Secretariat for Water), Decentralized Administration (Water Directorate), Regions
M03B0601 Investigation of the conditions for application of artificial underground aquifer enrichment as a mean of quantitative enhancement and quality protection of GWBs, with a priority for GWBs with poor condition and/or salinization issues.	Measures to control the artificial recharge of groundwater aquifers	YES	Region, Municipalities, Decentralized Administration (Water Directorate), Region
M03B0602 Establishment of a National Register of Waste Disposal Sites (Joint Ministerial Decision 145116/2011 (Government Gazette 354B)	Measures to control the artificial recharge of groundwater aquifers	YES	Ministry of Environment & Energy (Special Secretariat for Water), Decentralized Administration (Water Directorate)
M03B0701 Strengthening environmental inspections and controls	Measures for point source pollution	NEW MEASURE	Region
M03B0702 Modernization of national legislation on waste and industrial waste management	Measures for point source pollution	YES	Ministry of Environment & Energy (Special Secretariat for Water), Ministry of health
M03B0703 Program of exploratory monitoring of the quality of groundwater bodies and surface water bodies in the areas of existing Landfills	Measures for point source pollution	YES	Landfill Operators, National Monitoring Network coordinated by the Water Directorate
M03B0704 Conditions for the licensing of new / extension of existing aquaculture units	Measures for point source pollution	YES	Ministry of Environment & Energy, Decentralized Administration, Region
M03B0705 Preparation of rules for sinkholes protection	Measures for point and diffuse source of pollution	YES	Decentralized Administration (Water Directorate)
M03B0801 Biological agriculture	Measures for diffuse source pollution	YES	Ministry of Rural Development and Food (Directorate of Quality Systems, Organic Production and Geographical Indications)

CODE - NAME OF MEASURE	CATEGORY	1 st RBMP	IMPLEMENTING BODIES
M03B0802 Modernization of the institutional framework for sludge management by municipal waste water treatment plants with emphasis on widening the scope and updating the quality characteristics of the applicable sludge	Measures for diffuse source pollution	YES	Ministry of Environment & Energy (Environmental Certification Directorate), Ministry of Rural Development and Food
M03B0803 Reduce diffuse pollution from agriculture in the Nitrate Vulnerable Zones of the Directive 91/676/EEC	Measures for diffuse source pollution	NEW MEASURE	Ministry of Rural Development and Food, Regions
M03B0901 Establishment of an institutional framework for the definition of the conditions for the protection of recreational inland waters of Article 6 Directive 2000/60/EK -Temporary regulation for new projects in inland water bodies which are included as recreational waters in the Register of Protected Areas under Article 6 of Directive 2000/60/EC	Measures for any other significant adverse impacts on the status of water, in particular concerning hydromorphological alterations of SWB	YES	Ministry of Environment & Energy (Special Secretariat for Water), Decentralized Administration (Water Directorate)
M03B0902 Determination of minimum natural lakes waterlevel, determination of maximum waterlevel fluctuation of reservoirs	Measures for any other significant adverse impacts on the status of water, in particular concerning hydromorphological alterations of SWB	NEW MEASURE	Managing Authority, Region, Protected Areas Management Bodies, Decentralized Administration (Water Directorate)
M03B0903 Development of national methodology and specifications for the determination of ecological flows of river water bodies	Measures for any other significant adverse impacts on the status of water, in particular concerning hydromorphological alterations of SWB	YES	Ministry of Environment & Energy (Special Secretariat for Water)
M03B0904 Special Measures to Achieve Good Ecological Potential in Heavily Modified Water Bodies (HMWB)	Measures for any other significant adverse impacts on the status of water, in particular concerning hydromorphological alterations of SWB	NEW MEASURE	Ministry of Environment & Energy (Special Secretariat for Water), Decentralized Administration (Water Directorate), Region

CODE - NAME OF MEASURE	CATEGORY	1 st RBMP	IMPLEMENTING BODIES
M03B0905 Determination of selected areas for river sediment deposits removal to meet the needs of technical projects	Measures for any other significant adverse impacts on the status of water, in particular concerning hydromorphological alterations of SWB	YES	Region, Decentralized Administration (Water Directorate), Municipalities
M03B0906 Monitoring, recording and rehabilitation of coastal erosion	Measures for any other significant adverse impacts on the status of water, in particular concerning hydromorphological alterations of SWB	NEW MEASURE	Ministry of Infrastructure, and Transport, Decentralized Administration (Water Directorate),
M03B1101 Compilation of pollution sources register (emissions, discharges and leaks)	Measures for Priority Substances and other pollutants.	YES	Ministry of Environment & Energy (Special Secretariat for Water)
M03B1102 Establishment / setting of emission limits in RBs for priority substances and other pollutants of the Joint Ministerial Decision 51354/2641 / E103 / 2010 as in force, as well as for Physico Chemical parameters in relation to the quality objectives set out in the Management Plans	Measures for Priority Substances and other pollutants.	YES	Decentralized Administration (Water Directorate), Ministry of Environment & Energy (Special Secretariat for Water)

9.2.3 Supplementary measures

9.2.3.1 Horizontal supplementary measures

Horizontal supplementary measures concern/ affect all WB of the RBD.

Table 9-6. Horizontal supplementary measures

CODE & NAME OF MEASURE	CATEGORY	1st RBMP	AFFECTED WB	IMPLEMENTING BODIES	COST (€)
M03Σ0201 Development of a Monitoring Programme for the implementation of the Programme of Measures of the RBMP in the RBD and provision of supporting services for the implementation of the PoM.	Administrative measures	NEW MEASURE	Horizontal	Decentralized Administration (Water Directorate)	650.000
M03Σ0202 Control and management of artesian wells	Abstraction Controls	YES	Horizontal	Owner of the well, Decentralized Administration (Water Directorate)	0
M03Σ0501 Emission controls at the outlets of stormwater culverts and other point sources of pollution that result in surface water bodies	Emission controls	NEW MEASURE	Horizontal	Municipalities / MEWSS / Region/ Decentralized Administration (Water Directorate), Ministry of Environment & Energy (Special Secretariat for Water)	100.000
M03Σ0502 Implementation of investments in agriculture and livestock holdings, aiming at improving environmental performance.	Emission controls	NEW MEASURE	Horizontal	Ministry of Rural Development and Food/ Regions	293.000
M03Σ1501 Professional training of agro-farmers for the protection of WB	Educational measures	YES	Horizontal	Special Management Service of the Rural Development Program of Ministry of Rural Development and Food, Region	146.430
M03Σ1502 Informing and raising public awareness on water issues	Educational measures	YES	Horizontal	Ministry of Environment & Energy (Special Secretariat for Water), Regions, Municipalities, MEWSS, Decentralized Administration (Water Directorate)	100.000

CODE & NAME OF MEASURE	CATEGORY	1st RBMP	AFFECTED WB	IMPLEMENTING BODIES	COST (€)
M03Σ1503 Strengthening environmental program actions in Primary Education and Secondary Education	Educational measures	YES	Horizontal	Ministry of Education, Research and Religious Affairs and Ministry of Environment & Energy (Special Secretariat for Water), Regions, Municipalities, MEWSS, Decentralized Administration (Water Directorate)	100.000
M03Σ1601 Pilot measures to apply precision agriculture to reduce water consumption	Research, development & demonstration projects	NEW MEASURE	Horizontal	Special Management Service of the Rural Development Program of Ministry of Rural Development and Food, Regions	257.840
M02Σ1602 Consultancy services for agriculture exploitation management	Research, development & demonstration projects	NEW MEASURE	Horizontal	Decentralized Administrations of the Ministry of Rural Development and Food	398.480
M03Σ1603 Design and Implementation of a Special Exploratory Monitoring Program for the purpose of collecting data on the primary designation of WB Downstream Dams as HMWB	Research, development & demonstration projects	NEW MEASURE	Horizontal	Ministry of Environment & Energy (Special Secretariat for Water), Decentralized Administration (Water Directorate)	250.000

9.2.3.2 Supplementary measures

Table 9-7. Supplementary measures in Tripoli Plateau RB (EL0330)

CODE & NAME OF MEASURE	CATEGORY	1st RBMP	AFFECTED WB		IMPLEMENTING BODIES	COST (€)
M03Σ0803 On-site inspections on licensed abstractions	Abstraction controls	8.02	EL0330L000000001H	TAKA ARTIF.LAKE	Decentralized Administration, Region	0 €

Table9-8. Supplementary measures in Argolic Gulf Streams RB (EL0331)

CODE & NAME OF MEASURE	CATEGORY	1st RBMP	AFFECTED WB		IMPLEMENTING BODIES	COST (€)
M03Σ0302 Financial sanctions against illegal sandpits	Economic or fiscal instruments	1.11	EL0331R000700004N	MARIOREMA STREAM_4	Decentralized Administration, Region	0 €
			EL0331R000202022N	XERIAS R._3		
M03Σ0503 Inspections for compliance with the limits of disposal from industrial, processing and livestock-poultry units within the catchment area of the SWB, at least twice a year	Emission controls	5.04	EL0331R000201019H	INAHOS R._1	Region,Decentralized Administration	0 €
			EL0331R000202020H	XERIAS R._1		
			EL0331R000204024H	DERVENI STREAM_1		
			EL0331R000204025N	DERVENI STREAM_2		
			EL0331R000205027H	INAHOS R._3		
			EL0331R000205028N	INAHOS R._4		
M03Σ0801 Determination and delimitation of GWB areas which are of poor quality due to salinization or have local salinization problems	Abstraction controls	ΟΣ_ΥΔ03_7	EL0300020	Systema An. Arkadias - Dyt. Argolidas	Decentralized Administration, Region	400.000 €
			EL0300040	Systema Argolikou Pediou		
			EL0300050	Systema Mavrovouniou - Didymon		
			EL0300060	Systema Troizinias		
			EL0300070	Systema Ermionis		
			EL0300080	Systema Portocheliou		
			EL0300090	Systema Astrous		
			EL0300150	Systema Asopou-Glykovrysis		

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CODE & NAME OF MEASURE	CATEGORY	1st RBMP	AFFECTED WB		IMPLEMENTING BODIES	COST (€)
M03Σ0802 Systematic monitoring of quality status of licensed water abstractions in GWB with high natural background (e.g. chlorides)	Abstraction controls	ΟΣ_ΥΔ03_5	EL0300020	Systima An. Arkadias - Dyt. Argolidas	Decentralized Administration, Region	0 €
			EL0300050	Systima Mavrovouniou - Didymon		
			EL0300100	Systima Parnona		
			EL0300110	Systima Zaraka - Monemvasias		
			EL0300120	Systima Notioanatolikis Lakonias		
M03Σ0811 Reduction or replacement of groundwater abstractions with abstractions from a surface WB or other GWB or technical project (Water Reservoir, dam, desalination)	Abstraction controls	8.03	EL0300020	Systima An. Arkadias - Dyt. Argolidas	Ministry of Rural Development and Food, Decentralized Administration, Region	30.000 €
M03Σ0812 Reduction or replacement of groundwater abstractions with abstractions from a surface WB or other GWB or technical project (Water Reservoir, dam, desalination)	Abstraction controls	8.03	EL0300060	Systima Troizinias	Ministry of Rural Development and Food, Ministry of Environment & Energy, Decentralized Administration, Region, Municipality, Municipal Water Company	40.000 €
M03Σ0813 Investigation of the possibility of drilling in areas of the GWB according to the study "Hydrological Study of Feasibility of Water Supply of Argolida from Groundwater" IGME-TEDK of Argolida	Abstraction controls	8.09	EL0300020	Systima An. Arkadias - Dyt. Argolidas	Decentralized Administration, Region, Municipality, Municipal Water Company	80.000 €
			EL0300050	Systima Mavrovouniou - Didymon		

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CODE & NAME OF MEASURE	CATEGORY	1st RBMP	AFFECTED WB		IMPLEMENTING BODIES	COST (€)
M03Σ0814 Organization and execution of exploratory monitoring of the discharges of the sources (Anavalos Kiveri, Kefalari, Lerni, Kroi) and all abstractions (boreholes, pumping stations, aqueducts)	Abstraction controls	8.10	EL0300020	Systima An. Arkadias - Dyt. Argolidas	Decentralized Administration, Region	200.000 €
M03Σ0815 Drafting an update of existing projects and studies of the drinking water and irrigation needs associated with the sources of Anavalos, Lerni and Kefalari aiming at controlling the abstractions	Abstraction controls	18.17	EL0300020	Systima An. Arkadias - Dyt. Argolidas	Ministry of Rural Development and Food, Ministry of Infrastructure, and Transport, Municipal Water Company	300.000 €
M03Σ1201 Construction of a desalination plant to reduce groundwater abstractions	Desalination plants	8.03	EL0300070	Systima Ermionis	Ministry of Infrastructure, and Transport, Region, Municipal Water Company	2.400.000 €
M03Σ1402 Implementation of Artificial recharge of aquifers Project	Artificial Recharge	14.03	EL0300040	Systima Argolikou PEDIU	Ministry of Rural Development and Food, Region	160.000 €
M03Σ1403 Implementation of Artificial recharge of aquifers Project	Artificial Recharge	14.03	EL0300060	Systima Troizinias	Ministry of Rural Development and Food, Region, Municipality	100.000 €
M03Σ1404 Implementation of Artificial recharge of aquifers Project	Artificial Recharge	14.01	EL0300090	Systima Astrous	Ministry of Rural Development and Food, Region, Municipality	100.000 €

Table 9-9. Supplementary measures in Evrota River RB (EL0333)

CODE & NAME OF MEASURE	CATEGORY	1st RBMP	AFFECTED WB		IMPLEMENTING BODIES	COST (€)
M03Σ0302 Financial sanctions against illegal sandpits	Economic or fiscal instruments	1.11	EL0333R000300003N	PLATIS R. _3	Decentralized Administration, Region	0 €
			EL0333R000300004N	PLATIS R. _4		
			EL0333R000300005N	PLATIS R. _5		
			EL0333R000201006H	EVROTAS R. _1		
			EL0333R000201007N	EVROTAS R. _2		
			EL0333R000201009N	EVROTAS R. _4		
			EL0333R000202011N	RASINA STREAM _1		
			EL0333R000202014N	RASINA STREAM _2		
			EL0333R000203017N	EVROTAS R. _6		
			EL0333R000203018N	EVROTAS R. _7		
			EL0333R000205021N	EVROTAS R. _8		
			EL0333R000207025N	EVROTAS R. _9		
			EL0333R000209029N	EVROTAS R. _10		
			EL0333R000210030N	INOUS R. _1		
			EL0333R000211041N	EVROTAS R. _12		
EL0333R000213043N	EVROTAS R. _13					
M03Σ0503 Inspections for compliance with the limits of disposal from industrial, processing and livestock-poultry units within the catchment area of the SWB, at least twice a year	Emission controls	5.04	EL0333R000201009N	EVROTAS R. _4	Region, Decentralized Administration	0 €
			EL0333R000203018N	EVROTAS R. _7		
			EL0333R000206022N	KALIVES STREAM _1		
			EL0333R000207025N	EVROTAS R. _9		
			EL0333R000208027N	MAGOULITSA STREAM _2		
			EL0333R000209029N	EVROTAS R. _10		
			EL0333R000213043N	EVROTAS R. _13		
EL0333R000217049N	EVROTAS R. _15					
M03Σ0504 Exploratory Quality Monitoring	Emission controls	5.15	EL0333R000201009N	EVROTAS R. _4	Ministry of Environment & Energy, Decentralized Administration, Region	50.000 €

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CODE & NAME OF MEASURE	CATEGORY	1st RBMP	AFFECTED WB		IMPLEMENTING BODIES	COST (€)
M03Σ0802 Systematic monitoring of quality status of licensed water abstractions in GWB with high natural background (e.g. chlorides)	Abstraction controls	ΟΣ_ΥΔ03_5	EL0300210	Systima Skoutariou	Decentralized Administration, Region	0 €
M03Σ0803 On-site inspections on licensed abstractions	Abstraction controls	8.02	EL0333R000201009N	EVROTAS R._4	Decentralized Administration, Region	0 €
			EL0333R000206022N	KALIVES STREAM_1		
			EL0333R000207025N	EVROTAS R._9		
M03Σ1604 Design of central processing units for agro-animal waste and processing plants	Research, development & demonstration projects	OM09-1			Ministry of Environment & Energy, Region, Decentralized Administration	300.000 €
			EL0333R000201009N	EVROTAS R._4		
			EL0333R000203018N	EVROTAS R._7		
			EL0333R000206022N	KALIVES STREAM_1		
			EL0333R000207025N	EVROTAS R._9		
			EL0333R000208027N	MAGOULITSA STREAM_2		
			EL0333R000209029N	EVROTAS R._10		
EL0333R000213043N	EVROTAS R._13					
EL0333R000217049N	EVROTAS R._15					

10 NEXT STEPS

The objective of the 1st Update of the River Basin Management Plan is to prevent further deterioration, to protect and improve the status of inland surface, transitional, coastal and groundwater, as well as directly dependent terrestrial ecosystems and wetlands. In order to achieve this goal, the implementation of the Programme of Basic and Supplementary Measures is necessary.

The PoM is designed in such a way that the priority of each intervention is clearly defined according to its cost, its effectiveness, the importance of the WB being implemented and the necessary time of preparation.

All elements of the PoM are important, but some planning and prioritization is needed in order to monitor the progress of implementation of the PoM and identify where corrective interventions are required when deviations from targets are identified.

With the responsibility of the Water Directorate of the Decentralized Administration an **Action Plan for the implementation of the 1st Update of the RBMP** of the RBD is being prepared.

To this end, the Regional Working Group for the Implementation of the PoM of the RBMP of the RBD of the Country, which was established during the implementation of the 1st RBMP, is required to prepare the above Action Plan .

EASTERN PELOPONNESE (EL03) RBD STATISTICAL DATA

The following Tables present aggregated statistical data for the Eastern Peloponnese RBD (EL03).

Table Σ- 1. Categories of WB per RB in Eastern Peloponnese RBD (EL03)

WB Categories	RB EL0330	RB EL0331	RB EL0333	Total RBD
River WB	0	31	49	80
Lake WB	1	0	0	1
Transitional WB	0	5	0	5
Coastal WB	0	11	2	13
TOTAL OF SWB	1	47	51	99
Groundwater WB	2	20	12	34
TOTAL WB	3	67	63	133
Heavily modified water bodies (HMWB) and artificial Water bodies (AWB)	1	9	1	11
WB Connected with protected areas	2	24	7	33

Table Σ- 2. Typology of SWB per RB in Eastern Peloponnese RBD (EL03)

TYPOLOGY OF SWB	RB EL0330	RB EL0331	RB EL0333	Total RBD
River WB	0	31	49	80
Type R-M1	0	3	27	30
Type R-M2	0	5	13	18
Type R-M3	0	0	6	6
Type R-M4	0	7	0	7
Type R-M5	0	16	3	19
Type R-L2	0	0	0	0
Reservoirs	0	0	0	0
Type L-M5/7W	0	0	0	0
Type L-M8	0	0	0	0
Type GR-SR	0	0	0	0
Lake WB	1	0	0	1
Type GR-DNL	0	0	0	0
Type GR-SNL	0	0	0	0
Type GR-VSNL	0	0	0	0
Τύπος L-M5/7W	0	0	0	0
Τύπος L-M8	1	0	0	1
Transitional WB	0	5	0	5
Type TW1	0	5	0	5
Type TW2	0	0	0	0
Coastal WB	0	11	2	13
Type III E	0	11	2	13

Table Σ- 3. Assessment (classification) results of River WBs status per RB in Eastern Peloponnese RBD (EL03)

STATUS/ POTENTIAL		RB EL0330				RB EL0331				RB EL0333				TOTAL RBD				
		Number	% of Number	Length (km)	% of Length	Number	% of Number	Length (km)	% of Length	Number	% of Number	Length (km)	% of Length	Number	% of Number	Length (km)	% of Length	
RIVER WB																		
TOTAL	ECOLOGICAL	High	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Good	0	0,0%	0,0	0,0%	21	67,7%	194,5	76,3%	36	73,5%	222,7	71,3%	57	71,3%	417,1	73,5%
		Moderate	0	0,0%	0,0	0,0%	3	9,7%	33,5	13,2%	11	22,4%	78,8	25,2%	14	17,5%	112,4	19,8%
		Poor	0	0,0%	0,0	0,0%	1	3,2%	8,2	3,2%	1	2,0%	4,6	1,5%	2	2,5%	12,7	2,2%
		Bad	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	1	2,0%	6,3	2,0%	1	1,3%	6,3	1,1%
	Unknown	0	0,0%	0,0	0,0%	6	19,4%	18,6	7,3%	0	0,0%	0,0	0,0%	6	7,5%	18,6	3,3%	
	CHEMIC	Good	0	0,0%	0,0	0,0%	29	93,5%	236,6	92,9%	43	87,8%	274,7	87,9%	72	90,0%	511,3	90,2%
		Poor	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Unknown	0	0,0%	0,0	0,0%	2	6,5%	18,1	7,1%	6	12,2%	37,7	12,1%	8	10,0%	55,8	9,8%

Table Σ- 4. Assessment (classification) results of reservoirs , lakes, transitional, coastal and groundwater WB per RB in Eastern Peloponnese RBD (EL03)

STATUS/ POTENTIAL		RB EL0330				RB EL0331				RB EL0333				TOTAL RBD				
		Number	% of Number	Area (km ²)	% of Area	Number	% of Number	Area (km ²)	% of Area	Number	% of Number	Area (km ²)	% of Area	Number	% of Number	Area (km ²)	% of Area	
RESERVOIRS (RIVER HMWB) WB																		
TOTAL	ECOLOGICAL	Good	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Moderate	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Poor	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Bad	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Unknown	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
	CHEMICAL	Good	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Poor	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Unknown	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
LAKE WB																		
TOTAL	ECOLOGICAL	High	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Good	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Moderate	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Poor	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Bad	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
	Unknown	1	100,0%	1,2	100,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	1	100,0%	1,2	100,0%	
	CHEMICAL	Good	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Poor	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
Unknown		1	100,0%	1,2	100,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	1	100,0%	1,2	100,0%	

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STATUS/ POTENTIAL		RB EL0330				RB EL0331				RB EL0333				TOTAL RBD				
		Number	% of Number	Area (km ²)	% of Area	Number	% of Number	Area (km ²)	% of Area	Number	% of Number	Area (km ²)	% of Area	Number	% of Number	Area (km ²)	% of Area	
TRANSITIONAL WB																		
TOTAL	ECOLOGICAL	High	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Good	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Moderate	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Poor	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Bad	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Unknown	0	0,0%	0,0	0,0%	5	100,0%	5,5	100,0%	0	0,0%	0,0	0,0%	5	100,0%	5,5	100,0%
	CHEMICAL	Good	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Poor	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Unknown	0	0,0%	0,0	0,0%	5	100,0%	5,5	100,0%	0	0,0%	0,0	0,0%	5	100,0%	5,5	100,0%
COASTAL WB																		
TOTAL	ECOLOGICAL	High	0	0,0%	0,0	0,0%	6	54,5%	516,8	23,8%	0	0,0%	0,0	0,0%	6	46,2%	516,8	19,2%
		Good	0	0,0%	0,0	0,0%	4	36,4%	769,5	35,5%	1	50,0%	86,7	16,7%	5	38,5%	856,2	31,9%
		Moderate	0	0,0%	0,0	0,0%	1	9,1%	882,0	40,7%	1	50,0%	432,0	83,3%	2	15,4%	1.314,1	48,9%
		Poor	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Bad	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Unknown	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
	CHEMICAL	Good	0	0,0%	0,0	0,0%	11	100,0%	2.168,3	100,0%	2	100,0%	518,7	100,0%	13	100,0%	2.687,0	100,0%
		Poor	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
		Unknown	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%

Ministry of Environment & Energy, Special Secretariat for Water
1st Update of River Basin Management Plans - River Basin District of Eastern Peloponnese (EL03)

STATUS/ POTENTIAL		RB EL0330				RB EL0331				RB EL0333				TOTAL RBD				
		Number	% of Number	Area (km ²)	% of Area	Number	% of Number	Area (km ²)	% of Area	Number	% of Number	Area (km ²)	% of Area	Number	% of Number	Area (km ²)	% of Area	
GWB																		
TOTAL	CHEMICAL	Good	1	50,0%	172,0	50,2%	12	60,0%	3.893,5	72,5%	12	100,0%	2.789,6	100,0%	25	73,5%	6.855,2	80,6%
		Poor	1	50,0%	170,8	49,8%	8	40,0%	1.474,3	27,5%	0	0,0%	0,0	0,0%	9	26,5%	1.645,1	19,4%
		Unknown	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%
	QUANTITATIVE	Good	2	100,0%	342,9	100,0%	14	70,0%	4.811,7	89,6%	12	100,0%	2.789,6	100,0%	28	82,4%	7.944,2	93,5%
		Poor	0	0,0%	0,0	0,0%	6	30,0%	556,1	10,4%	0	0,0%	0,0	0,0%	6	17,6%	556,1	6,5%
		Unknown	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%	0	0,0%	0,0	0,0%