




PROJECT:

EastMed Pipeline Project



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	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 2 OF 114

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 IGI Poseidon	EASTMED PIPELINE PROJECT	 	
	EastMed Greek Section – Environmental and Social Impact Assessment	DOCNo: PERM-GREE-ESIA- 0005_0_ESIAch05-EN	
		REV. :	00
		PAGE :	3 OF 114

Table of Contents

5	COMPATIBILITY OF THE PROJECT WITH STATUTORY SPATIAL OR TOWN PLANNING COMMITMENTS.....	6
5.1	Location of the Project in Terms of the Natural and Man-Made Environment of the Area ..	6
5.1.1	Institutional Boundaries of Settlements and Approved Urban Plans	6
5.1.2	Boundaries of Areas of the National System of Protected Areas of Law no. 3937/2011 (A 60) 21	
5.1.3	Forests, Forested Areas and Areas under Reforestation.....	27
5.1.4	Facilities of Social Infrastructure, Public Utility, etc.	31
5.1.5	Cultural Heritage Resources	42
5.2	Existing Spatial and Urban Planning Regulations in the Area of the Project.....	66
5.2.1	Provisions and Directions of the National, Special and the Competent Regional Frameworks for Spatial Planning and Sustainable Development.....	66
5.2.2	Institutional Status According to the Approved Plans	76
5.2.3	Special Management Plans.....	86
5.2.4	Military Areas	108
5.2.5	Organised Activity Receptors	110




List of Figures

Figure 5-1	Project's Compatibility with SFSPSD for Industry	70
Figure 5-2	Project's Compatibility with SFSPSD for Tourism.	72
Figure 5-3	Project's Compatibility with SFSPSD for RES.....	74
Figure 5-4	Preliminary Location of Marine Wind Parks.	75
Figure 5-5	Project's Compatibility with the SFSPSD for Aquaculture.	76
Figure 5-6	Waste Management Facilities in Greece	87
Figure 5-7	Wastewater Treatment Plants in Greece	88
Figure 5-8	Vision of Megalopoli's SDAM based on 5 key pillars and supported horizontal actions.	106
Figure 5-9	Expressed interest for 5 big projects of ~€ 0.5 billion according to Megalopoli's SDAM.	108
Figure 5-10	Offshore Military Exercise Areas in Greek Territory	109
Figure 5-11	ETA of the Megalopoli Lignite Mine	114

 IGI Poseidon	EASTMED PIPELINE PROJECT	 	
	EastMed Greek Section – Environmental and Social Impact Assessment	DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN	
		REV. :	00
		PAGE :	4 OF 114




List of Tables

Table 5-1	Settlements Interacting with the EastMed Pipeline Project.....	8
Table 5-2	Protected Areas within the Project Study Area.	22
Table 5-3	Forest Land Cover (official data from forest maps) within the Project Study Area.	27
Table 5-4	Forest Land Cover (official data from forest maps) within the Pipeline’s Working Strip per Regional Unit (in 1000 m ²).	29
Table 5-5	Forest Land Cover (official data from forest maps) within the Project’s Main Stations (plots) (in 1000 m ²).	30
Table 5-6	Social Infrastructure and Public Utilities within (or Close to) the Study Area.	33
Table 5-7	Statutory Authorities data providing correspondence.	42
Table 5-8	Number of Declared Cultural Heritage Resources per Regional Unit.	44
Table 5-9	Declared Cultural Heritage Resources in the Study Area.	46
Table 5-10	Compliance with Official Land Use Characterisation	78
Table 5-11	Solid Waste Management Facilities within the Study Area.	87
Table 5-12	Surface Water Bodies (SWB) within the Study Area.....	91
Table 5-13	Underground Water Bodies (GWB) within the Study Area	94
Table 5-14	PHFRZ within the Study Area of the CCS1 Pipeline.....	101
Table 5-15	Correlation of the Project with PHFRZs	104
Table 5-16	Military Areas within the Study Area.....	109
Table 5-17	Quarries within the Study Area.	111

	EASTMED PIPELINE PROJECT		 	
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN	
			REV. :	00
			PAGE :	5 OF 114

Abbreviations

See Document Map.

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 6 OF 114

5 COMPATIBILITY OF THE PROJECT WITH STATUTORY SPATIAL OR TOWN PLANNING COMMITMENTS

This chapter correlates the EastMed Pipeline Project with current spatial and urban plans set in the areas engaged with the Project regarding the existing environmental and socioeconomic components. These include protected areas, the socioeconomic components, land uses and building conditions in the Project area.

Based on the provisions of MD 170225/2014, the minimum study area for projects of subcategory A1 like EastMed is defined as follows:

- For linear projects, 1 km buffer zone (on each side of the axis); and
- For areal projects, 2 km buffer zone (on each side of the axis).

Given that the Project includes both linear (the pipeline itself) and areal features (onshore facilities), a combination of the above-mentioned study areas has been opted. However, information on a broader area is also provided where considered appropriate for context and to complete the baseline description.

A map of the study area is presented in Section 15.1.2 - Project definition and area of interest.




5.1 Location of the Project in Terms of the Natural and Man-Made Environment of the Area

5.1.1 Institutional Boundaries of Settlements and Approved Urban Plans

When designing the Project, proximity to settlements and residential areas was deliberately avoided. As such, the pipeline route mainly passes through areas outside the urban plans and in general through private farmland or public/private forest land.

However, the nature and extent of the Project make it impossible that the Project footprint does not engage with few settlements' boundaries or approved urban plans. For areas where the avoidance was not possible, efforts have been made to maximise the distance.

The table below lists settlements that are located, even partially, within the study area (as defined in the beginning of this chapter). It is noted that some additional settlements that lie outside the study area, but are interacting with or are potentially affected by the Project, are also included. These include settlements (a) whose economic activities (e.g. development patterns or land

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 7 OF 114

ownership/tenure) fall within the study area, (b) that are supported by infrastructure that lies within the study area, or (c) that are isolated (or otherwise restricted) due to the geomorphological features that lie within the study area. The inclusion of these settlements was chosen to allow for a broader participatory procedure and social issue considerations.


	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 8 OF 114

Table 5-1 Settlements Interacting with the EastMed Pipeline Project.

EastMed Pipeline Project Component	Municipality	Settlement	Settlement Demarcation	Population (official 2011 census data)	Approximate Distance to Project Component (m)
Region of Crete					
R.U. Lassithi					
CS2/MS2-CS2/MS2N	Sitia	Goudouras	GG 539/ΑΑΠ/ 21-10-2009	285	1900
CS2/MS2-CS2/MS2N	Sitia	Asproolithos	GG 539/ΑΑΠ/ 21-10-2009	49	2570
Region of Peloponnese					
R.U. Arcadia					
CCS1	Gortynia	Chania	GG 300/Δ/06-04-1987	2	1031
CCS1	Gortynia	Tripotamia	GG 300/Δ/06-04-1987	140	800
CCS1	Megalopoli	Chrousa		44	1214
CCS1	Megalopoli	Gavria		9	269
CCS1	Megalopoli	Isoma Karyon	GG 1350/Δ/1986	14	483
CCS1	Megalopoli	Karitaina		232	1102
CCS1	Megalopoli	Kato Karyes	GG 31/Δ/1975	61	237
CCS1	Megalopoli	Kotsiridi	GG 130/Δ/1987	22	272

 IGI Poseidon	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
		PAGE : 9 OF 114	

EastMed Pipeline Project Component	Municipality	Settlement	Settlement Demarcation	Population (official 2011 census data)	Approximate Distance to Project Component (m)
CCS1	Megalopoli	Kyparissia		58	354
CCS1	Megalopoli	Leontari		257	744
CCS1	Megalopoli	Mavria		31	239
CCS1	Megalopoli	Neochori		49	1038
CCS1	Megalopoli	Petrina		44	634
CCS1	Megalopoli	Petrovouni		10	417
CCS1	Megalopoli	Stroggylo	GG 130/Δ/1987	8	591
CCS1	Megalopoli	Tripotamos		89	1037
CCS1	Megalopoli	Veligosti		61	926
Megalopoli's Branch	Megalopoli	Kato Makrysi		221	532
Megalopoli's Branch	Megalopoli	Megalopoli		5748	708
Megalopoli's Branch	Megalopoli	Perivolia	GG 361/Δ/30-04-1987	54	262
Megalopoli's Branch	Megalopoli	Routsi		52	994
Megalopoli's Branch	Megalopoli	Soulari	GG 365/Δ/1987	83	322
Megalopoli's Branch	Megalopoli	Vrysoules		25	1157
R.U. Laconia					

	EASTMED PIPELINE PROJECT		 	
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN REV. : 00	
			PAGE : 10 OF 114	

EastMed Pipeline Project Component	Municipality	Settlement	Settlement Demarcation	Population (official 2011 census data)	Approximate Distance to Project Component (m)
CCS1	Evrota	Apidea	GG 764/Δ/29-12-1989	499	219
CCS1	Evrota	Gouves	GG 438/Δ/16-06-1989	195	797
CCS1	Monemvasias	Agios Fokas	GG 218/Δ/08-05-1991	19	294
CCS1	Monemvasias	Agios Nikolaos	GG 604/Δ/02-10-1989	142	257
CCS1	Monemvasias	Elliniko	GG 83/Δ/16-02-1990	117	239
CCS1	Monemvasias	Argiteika - Foutia	GG 191/Δ/07-04-1989	62	836
CCS1	Monemvasias	Kastela	GG 231/ΑΑΠ/09-06-2013	11	566
CCS1	Monemvasias	Kryovrysi	GG 160/Δ/15-03-1989	52	769
CCS1	Monemvasias	Lira	GG 778/Δ/03-11-1988	104	169
CCS1	Monemvasias	Metamorfosi	GG 454/Δ/29-06-1988	559	764
CCS1	Monemvasias	Sykea	GG 537/Δ/31-08-1989	937	515
CCS1	Monemvasias	Teria	GG 709/Δ/04-10-1988	6	510
CCS1	Monemvasias	Velies	GG 245/Δ/27-04-1990	458	718
CCS1	Sparti	Agioi Anargyroi	GG 610/Δ/22-08-1988	335	639
CCS1	Sparti	Agios Konstantinos	GG 682/Δ/27-09-1988	51	409
CCS1	Sparti	Fountaiika	GG 681/Δ/26-09-1988	19	61

 IGI Poseidon	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
		PAGE : 11 OF 114	

EastMed Pipeline Project Component	Municipality	Settlement	Settlement Demarcation	Population (official 2011 census data)	Approximate Distance to Project Component (m)
CCS1	Sparti	Gkoritsa	GG 455/Δ/29-06-1988	589	757
CCS1	Sparti	Karavas Loggastras	GG 444/Δ/29-06-1988	74	1007
CCS1	Sparti	Karavas Soustianon	GG 445/Δ/29-06-1988	87	219
CCS1	Sparti	Kladas	GG 617/Δ/24-08-1988	477	636
CCS1	Sparti	Kyparissi	GG 245/Δ/27-04-1990	32	785
CCS1	Sparti	Pardali	GG 357/Δ/1988	83	945
CCS1	Sparti	Pellana	GG 682/Δ/27-09-1988	262	491
Region of Western Greece					
R.U. Achaia					
CCS1	Dytiki Achaia	Lampraiika	GG 1003/Δ/12-10-87	76	561
CCS1	Dytiki Achaia	Ano Velitses	GG 881/Δ/15-09-1987	239	491
CCS1	Dytiki Achaia	Gomoston	GG 913/Δ/22-09-1987	249	841
CCS1	Dytiki Achaia	Ioniki Akti		26	494
CCS1	Dytiki Achaia	Kalamaki	GG 1092/Δ/11-06-1987	502	430
CCS1	Dytiki Achaia	Kalamaki Beach		16	290
CCS1	Dytiki Achaia	Karamesineika	GG 913/Δ/22-09-1987	158	309

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 12 OF 114

EastMed Pipeline Project Component	Municipality	Settlement	Settlement Demarcation	Population (official 2011 census data)	Approximate Distance to Project Component (m)
CCS1	Dytiki Achaia	Kareika	GG 913/Δ/22-09-1987	174	965
CCS1	Dytiki Achaia	Kato Velitses	GG 881/Δ/15-09-1987	165	673
CCS1	Dytiki Achaia	Lakkopetra	GG 880/Δ/15-09-1987	645	458
CCS1	Dytiki Achaia	Limnochori	GG 1003/Δ/12-10-87	278	443
CCS1	Dytiki Achaia	Myrtos	GG 879/Δ/15-09-87	180	1220
CCS1	Dytiki Achaia	Nikiforeika	GG 878/Δ/1987	485	1294
CCS1	Dytiki Achaia	Petrochori	GG 763/Δ/1988	177	891
CCS1	Dytiki Achaia	Pournari	GG 879/Δ/15-09-87	116	291
R.U. Aetoloakarnania					
CCS2	Agrinio	Agia Marina		97	734
CCS2	Agrinio	Gavalou	ΦΕΚ 559/Δ/1986	1018	202
CCS2	Agrinio	Grammatikou	ΦΕΚ 559/Δ/1986	802	300
CCS2	Agrinio	Kalivia	ΦΕΚ 14/ΑΑΠ/2013	965	1002
CCS2	Agrinio	Kato Kerasovo		431	1019
CCS2	Agrinio	Kato Zevgaraki	ΦΕΚ 866/Δ/1986	781	1097
CCS2	Agrinio	Kypseli	ΦΕΚ 266/Δ/1988	374	507

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 13 OF 114

EastMed Pipeline Project Component	Municipality	Settlement	Settlement Demarcation	Population (official 2011 census data)	Approximate Distance to Project Component (m)
CCS2	Agrinio	Lefka	ΦΕΚ 14/ΑΑΠ/2013	152	229
CCS2	Agrinio	Lepenou		2090	651
CCS2	Agrinio	Mataraga	Settlement before 1923. It has a Road Plan (GG 261/A/1950). Government Gazette 806/Δ/1986 refers to the recognition of a road within the city plan as a pre-existing of 1923. GG 828/Δ/1991 refers to a point modification of the Road Plan.	1344	652
CCS2	Agrinio	Mpouzio	ΦΕΚ 14/ΑΑΠ/2013	115	944
CCS2	Agrinio	Ochthia	ΦΕΚ 1250/Δ/1987	506	1038
CCS2	Agrinio	Papadates	ΦΕΚ 695/Δ/1986	1077	693
CCS2	Agrinio	Platanos	ΦΕΚ 14/ΑΑΠ/2013	145	662
CCS2	Agrinio	Stratos	ΦΕΚ 1251/Δ/1987	979	432
CCS2	Amfilochia	Agia Trias	ΦΕΚ 417/Δ/14-05-1987	71	375

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 14 OF 114

EastMed Pipeline Project Component	Municipality	Settlement	Settlement Demarcation	Population (official 2011 census data)	Approximate Distance to Project Component (m)
CCS2	Amfilochia	Ampelaki	GG 319/Δ/1989	263	258
CCS2	Amfilochia	Elatochori	ΦΕΚ 757/Δ/1987	25	562
CCS2	Amfilochia	Kanalos		59	1065
CCS2	Amfilochia	Kastriotissa		62	358
CCS2	Amfilochia	Marlesio	ΦΕΚ 758/Δ/13-08-1987	189	304
CCS2	Amfilochia	Megas Kampos	GG 504/Δ/1983	62	527
CCS2	Amfilochia	Psila Alonia	ΦΕΚ 338/Δ/1994	81	1886
CCS2	Amfilochia	Sykoula	GG 357/Δ/78	189	254
CCS2	Amfilochia	Triantafylloula		45	489
CCS2	Amfilochia	Tsoukka	ΦΕΚ 416/Δ/14-05-1987	36	964
CCS2	Amfilochia	Varetada	ΦΕΚ 529/Δ/11-06-1987	342	440
CCS2	Amfilochia	Xirolivado	ΦΕΚ 417/Δ/14-05-1987	67	643
CCS2	Iera Poli Mesologgiou	Evinochori	ΦΕΚ 392Δ/14-05-1987	1651	1276
CCS2	Iera Poli Mesologgiou	Kokori	ΦΕΚ 392Δ/14-05-1987	313	835

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 15 OF 114

EastMed Pipeline Project Component	Municipality	Settlement	Settlement Demarcation	Population (official 2011 census data)	Approximate Distance to Project Component (m)
CCS2	Iera Poli Mesologgiou	Koutsocheri	ΦΕΚ 266/Δ/30-03-1987	93	813
CCS2	Nafpaktos	Paliostani		976	213
CCS2	Nafpaktos	Galatas		976	207
CCS2	Nafpaktos	Perithori	ΦΕΚ 811/Δ/1986	184	236
R.U. Ilia					
CCS1	Andravida - Kyllini	Kalyvakia		71	1137
CCS1	Andritsaina - Krestena	Agios Ilias		6	829
CCS1	Andritsaina - Krestena	Andritsaina	GG 1288/Δ/1986	795	1261
CCS1	Andritsaina - Krestena	Karmio	GG 1205/Δ/16-12-1987	21	154
CCS1	Andritsaina - Krestena	Miloi	GG 1205/Δ/1987	26	557
CCS1	Andritsaina - Krestena	Peuki	GG 1205/Δ/1987	14	543

	EASTMED PIPELINE PROJECT		 	
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN REV. :	00
			PAGE :	16 OF 114

EastMed Pipeline Project Component	Municipality	Settlement	Settlement Demarcation	Population (official 2011 census data)	Approximate Distance to Project Component (m)
CCS1	Andritsaina - Krestena	Rovia		37	1071
CCS1	Andritsaina - Krestena	Sikies		14	244
CCS1	Archaia Olympia	Ampari		63	118
CCS1	Archaia Olympia	Aspra Spitia	GG 886/Δ/1987	195	238
CCS1	Archaia Olympia	Kampos Nemoutas		20	853
CCS1	Archaia Olympia	Koutsouroumpas		484	1057
CCS1	Archaia Olympia	Nea Persaina		288	699
CCS1	Archaia Olympia	Nemouta		484	1056
CCS1	Archaia Olympia	Tsapareika		31	641
CCS1	Archaia Olympia	Vasilaki		364	637
CCS1	Archaia Olympia	Xirokampos		200	145
CCS1	Ilida	Akropotamia		75	623
CCS1	Ilida	Kalo Paidi		66	718
CCS1	Ilida	Laganas		181	881

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 17 OF 114


EastMed Pipeline Project Component	Municipality	Settlement	Settlement Demarcation	Population (official 2011 census data)	Approximate Distance to Project Component (m)
CCS1	Ilida	Mazaraki		188	607
CCS1	Ilida	Simopoulo		369	193
CCS1	Ilida	Valmi		88	417
CCS1	Pyrgos	Agia Anna	GG 183/Δ/1987	168	518
CCS1	Pyrgos	Goumero	GG 1205/Δ/1987	642	464
CCS1	Pyrgos	Mouzaki	GG 886/Δ/1987	449	1371
CCS1	Pyrgos	Pefki	GG 1205/Δ/1987	126	791
CCS1	Pyrgos	Varbarina		49	907
Region of Epirus					
R.U. Arta					
CCS2	Arta	Aneza	GG 309/Δ/03-04-1992	1111	255
CCS2	Arta	Gavria	GG 104/Δ/1987	379	714
CCS2	Arta	Polydroso	GG 491/Δ/07-08-1989	408	313
CCS2	Arta	Psathotopi	GG 788/Δ/18-08-1987	194	289
CCS2	Arta	Rachi	GG 1094/Δ/06-11-1987	574	540
CCS2	Arta	Vathipedo	GG 267/Δ/09-05-1989	971	874

 IGI Poseidon	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
		PAGE : 18 OF 114	

EastMed Pipeline Project Component	Municipality	Settlement	Settlement Demarcation	Population (official 2011 census data)	Approximate Distance to Project Component (m)
CCS2	Nikolaos Skoufa	Akropotamia	GG 406/Δ/13-6-88	385	138
CCS2	Nikolaos Skoufa	Kalomodia	GG 171/Δ/22-3-89	289	952
CCS2	Nikolaos Skoufa	Neochori	GG 648/Δ/30-06-1994	1737	597
CCS2	Nikolaos Skoufa	Pachykalamos	GG 491/Δ/7-8-89	332	114
CCS2	Nikolaos Skoufa	Peranthi	GG 788/Δ/18-8-87	336	466
CCS2	Nikolaos Skoufa	Sykies	GG 788/Δ/18-8-87	436	287
R.U. Thesprotia					
CCS2	Igoumenitsa	Kalodiki		18	477
CCS2	Igoumenitsa	Karteri	GG 762/Δ'/01-10-1998	248	73
CCS2	Igoumenitsa	Katavothra	GG 164/Δ'/01-09-1969	250	623
CCS2	Igoumenitsa	Margariti	GG 1070/Δ'/04-10-2005	692	438
CCS2	Igoumenitsa	Mazarakia	GG 826/Δ'/14-11-1991	455	1214
CCS2	Igoumenitsa	Mesovouni	GG 545/Δ'/25-07-1995	159	1285
CCS2	Igoumenitsa	Milokokkia		13	912
CCS2	Igoumenitsa	Morfi	GG 433/Δ/1997	202	765
CCS2	Igoumenitsa	Palaiokastro	GG 164/Δ/1969	73	324




 IGI Poseidon	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
		PAGE : 19 OF 114	

EastMed Pipeline Project Component	Municipality	Settlement	Settlement Demarcation	Population (official 2011 census data)	Approximate Distance to Project Component (m)
CCS2	Igoumenitsa	Spatharaioi	GG 433/Δ/1997	91	50
R.U. Preveza					
CCS2	Parga	Chochla	GG 451/ΑΑΠ/2007	179	723
CCS2	Parga	Kastri	GG-116/Δ/88	277	1355
CCS2	Parga	Koroni	GG-925/Δ/87	189	582
CCS2	Parga	Koukkouli	GG-746/Δ/86	13	922
CCS2	Parga	Mesopotamos	GG 451/ΑΑΠ/2007	533	1587
CCS2	Parga	Stavrochori	GG-1365/Δ/86	190	1274
CCS2	Parga	Themelo	GG 451/ΑΑΠ/2007	216	980
CCS2	Parga	Tsouknida	GG-924/Δ/87	145	2107
CCS2	Parga	Tzara	GG 451/ΑΑΠ/2007	48	129
CCS2	Preveza	Cheimadio	GG-369/Δ/89	339	562
CCS2	Preveza	Kamarina	GG-1361/Δ/86	243	1159
CCS2	Preveza	Kato Myrsini	GG-924/Δ/87	109	36
CCS2	Preveza	Louros	GG ΑΑΠ/185/2014	1938	1110
CCS2	Preveza	Megadendro	GG-924/Δ/87	133	690

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 20 OF 114

EastMed Pipeline Project Component	Municipality	Settlement	Settlement Demarcation	Population (official 2011 census data)	Approximate Distance to Project Component (m)
CCS2	Preveza	Myrsini	GG-924/Δ/87	82	273
CCS2	Ziros	Petra	GG-1361/Δ/86	392	28

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	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 21 OF 114

5.1.2 Boundaries of Areas of the National System of Protected Areas of Law no. 3937/2011 (A 60)

Pursuant to Article 5 (Replacement of Article 19 of Law 1650/1986) of Law 3937/2011 "Conservation of biodiversity and other provisions", the National System of Protected Areas includes:

- Strict nature reserves;
- Nature reserves;
- Natural parks:
 - National parks,
 - Regional parks,
 - National forests;
- Habitat/species management areas:
 - Special Areas of Conservation (SAC),
 - Special Protection Areas (SPA),
 - Wildlife Refuges (WR);
- Protected Landscapes/seascapes and Protected Natural Formations:
 - Aesthetic Forests,
 - Protected Natural Monuments
 - Protective Forests

A list of the protected areas that are located, even partially, within the study area is presented below. It is noted that no protected area lays within the study area of any Main Station (or Main Facility).

 IGI Poseidon	EASTMED PIPELINE PROJECT		 	
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN	
			REV. :	00
		PAGE :	22 OF 114	

Table 5-2 Protected Areas within the Project Study Area.

EastMed Pipeline Project Component	Name	Zone	Site Code	Approximate Distance to Project Footprint * (m)	Approximate Crossing Length (km)
Strict Nature Reserves					
—	—	—	—	—	—
Nature Reserves					
CCS2	Stenon kai Ekvolon Acheronta kai Kalama kai Elous Kalodikiou kai Perifereiaki Zoni (R. Acherontas and R. Kalama Straits and Estuaries and Marshland Kalodiki and Regional Zone)	Nature Reserve Area	392914	0	2.65
Natural Parks					
National Parks					
CCS2	Messolonghi-Aetoliko Lagoon National Park, downstream and estuaries of Acheloos and Evinos rivers and Echinades islands (JMD 22306/2006, HGG D' 477/31-05-2006)	Nature Reserve Zone (ΠΦ2)	328993	1	—
CCS2		Nature Reserve Zone (ΠΦ3)	328993	0	—
CCS2		Peripheral Zone (ΠΠ1)	328999	0	1.66
CCS2		Peripheral Zone (ΠΠ2)	328999	0	1.10
CCS2	Amvrakikos Wetlands National Park (JMD 11989/2008, HGG D'123/21-03-2008)	Zone C: Zone of Environmental Control	349977	0	72.20
CCS2		Zone B: Special Regulations Area	349979	0	5.35

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 23 OF 114


EastMed Pipeline Project Component	Name	Zone	Site Code	Approximate Distance to Project Footprint * (m)	Approximate Crossing Length (km)
CCS2		Zone A: Nature Reserve Zone in National Park	349976	0	0.45
CCS2		Zone A-1: Special Water Management Area	349975	1	—
Regional Parks					
—	—	—	—	—	—
National Forests					
—	—	—	—	—	—
Habitat/ Species Management Areas					
Special Areas of Conservation					
OSS3/OSS3 N	Voreioanatoliko Akro Kritis: Dionysades, Elasa kai Chersonisos Sidero (Akra Mavro Mouri – Vai – Akra Plakas) Kai Thalassia Zoni	n/a	GR4320006	1	—
OSS3/OSS3 N	Ori Gidovouni, CHIONOVOUNI, Gaidourovouni, Korakia, Kalogerovouni, Koulochera kai Periochi Monemvasias Spilaio Solomou Trypa kai Pyrgos Ag. Stefanou kai Thalassia Zoni eos Akrotirio Kamili	n/a	GR2540001	0	1.90

 IGI Poseidon	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
		PAGE : 24 OF 114	

EastMed Pipeline Project Component	Name	Zone	Site Code	Approximate Distance to Project Footprint * (m)	Approximate Crossing Length (km)
CCS2	Delta Acheloou, Limnothalassa Mesolongiou - Aitolikou, Ekvoles Evinou, Nisoi Echinades, Nisos Petalas	n/a	GR2310001	0	—
CCS2	Oros Varasova	n/a	GR2310005	1	—
CCS2	Oros Arakynthos kai Stena Kleisouras	n/a	GR2310010	0	—
CCS2	Limnes Trichonida kai Lysimacheia	n/a	GR2310009	0	1.23
CCS2	Amvrakikos Kolpos, Delta Lourou kai Arachthou (Petra, Mytikas, Evryteri Periochi, Kato Rous Arachthou, Kampi Filippiadas)	n/a	GR2110001	0	0.57
CCS2	Elos Kalodiki	n/a	GR2120002	0	0.14
Special Areas of Conservation – Special Protection Areas					
CCS1	Oropedio Folois	n/a	GR2330002	0	10.25
Special Protection Areas					
CCS1	Ori Anatoliki Lakonias	n/a	GR2540007	0	1.95
CCS2	Delta Acheloou, Limnothalassa Mesolongiou - Aitolikou kai Ekvoles Evinou, Nisoi Echinades, Nisos Petalas, Dytikos Arakynthos kai Stena Kleisouras	n/a	GR2310015	0	—
CCS2	Limni Lysimacheia	n/a	GR2310013	0	—




 IGI Poseidon	EASTMED PIPELINE PROJECT		 	
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN	
			REV. :	00
		PAGE :	25 OF 114	

EastMed Pipeline Project Component	Name	Zone	Site Code	Approximate Distance to Project Footprint * (m)	Approximate Crossing Length (km)
CCS2	Amvrakikos Kolpos, Limnothalassa Katafourko kai Korakonisia	n/a	GR2110004	0	0.39
CCS2	Eli Kalodiki, Margariti, Karteri kai Limni Prontani	n/a	GR2120006	0	—
Wildlife Refuges					
CCS1	Pratagos – Aetofolia (Elikas -Agios Nikolaos)	n/a	K524	0	1.02
CCS2	Oros Arakynthos-Mataragkas-Gavalou	n/a	K361	0	5.62
CCS2	Petalas (Amfilochias-Kechrinias-Papadatou-Stanou)	n/a	K316	0	12.44
CCS2	Iera Moni Retha kai Iera Moni Longos Dimon Amfilogias, Menidiou, Inachou	n/a	K728	0	3.27
CCS2	Lekatsa Dimou Zalongou	n/a	K838	0	1.42
CCS2	Valtos Kalodikiou		K599	1	—
Protected Natural Formations and Landscapes					
Protected landscapes					
—	—	—	—	—	—
Protected Natural Formations					
—	—	—	—	—	—

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 26 OF 114

EastMed Pipeline Project Component	Name	Zone	Site Code	Approximate Distance to Project Footprint * (m)	Approximate Crossing Length (km)
<p>* it is noted that this column refers to the closest project component. Permanent facilities (i.e. Main Stations) are carefully sited in distances greater than 2 km from any area subject to L 3937/2011; as such, the closest project element is the route itself.</p>					

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	<p style="text-align: center;">EASTMED PIPELINE PROJECT</p> <p style="text-align: center;">EastMed Greek Section – Environmental and Social Impact Assessment</p>	<div style="display: flex; justify-content: space-around;">   </div> <p>DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN</p> <p>REV. : 00</p> <p>PAGE : 27 OF 114</p>
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Apart from the national legislation, special commitment on the protection of the natural environment derives from international conventions ratified by Greece and from country's participation in international organisations such as the Council of Europe and UNESCO. The following categories apply to the above:

- Protected Areas at the international level:
 - Wetlands of international importance according to the Ramsar Convention,
 - World Heritage Sites (UNESCO),
 - Biosphere Reserves (UNESCO, Man and Biosphere),
 - Specially Protected Areas according to the Barcelona Convention,
 - Biogenetic Reserves (Council of Europe),
 - Eurodiploma Sites (Council of Europe),
 - Important Bird Areas (IBAs).

These categories are presented in detail in Chapter 8.

5.1.3 Forests, Forested Areas and Areas under Reforestation




Official forest maps have been issued (“posted” according to Greek legislation) for the entire Project footprint. Most of the Regional Units have officially ratified (“finalised” according to Greek legislation) forest maps, whilst few are in the process of forest map finalisation (posting phase).

Table 5-3 Forest Land Cover (official data from forest maps) within the Project Study Area.

Regional Unit	Legislative Framework (Status)	Legislative Framework Elements
Lasithi	Posting Phase	ΑΔΑ: 6ΜΦΦΟΡ1Θ-46Δ
Arcadia	Forest Map Ratification ¹	<ul style="list-style-type: none"> • 33/Δ'/2018; and • 556/Δ'/2018
Laconia	Forest Map Ratification ¹	52/ Δ'/2018
Mesinia ²	Forest Map Ratification ¹	31/Δ'/2018
Ilia	Forest Map Ratification ¹	39/Δ'/2018
Achaia	Forest Map Ratification ¹	456/Δ'/2017
Aetoloakarnania	Posting Phase	ΑΔΑ: 9Ο0ΜΟΡ1Φ-Τ4Ω
Arta	Posting Phase	ΑΔΑ: ΨΜΤΖΟΡ1Γ-ΞΩΖ
Preveza	Forest Map Ratification ¹	122/ Δ'/2018
Thesprotia	Forest Map Ratification ¹	531/ Δ'/2018

¹ Source: <https://gis.ktimanet.gr/wms/forestfinal/Pdf/Apofaseis.html>

² Regional Unit of Mesinia is engaged only by the limits of the Study Area, not by the Project footprint.

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 28 OF 114

Prepared by: ASPROFOS, 2022.

Table 5-4 was created based on official data, dated 26/03/2021, summarising the working strip¹ intersection with the official forest map data. Table 5-5 is relevant to the locations (plots) of the Main Stations².

It needs to be noted that in some cases the official forest map data do not represent existing (current) baseline conditions. The purpose of the official forest maps is to identify presence of forests or forested areas (bushlands) in a specific area over time. According to national legislation (L. 998/1979, as codified and applicable), areas subject to forest legislation do not change their forestry character, regardless of the current conditions (presence or not of forest species).

¹Based on current available geodata by FEED on route revisions of 18/5/2021 and 22/6/2021. Working strip is typically defined as a 38 m wide corridor, but is reduced in sensitive areas. Details are provided in Chapter 6.

²Main Stations of the Project are the ones subject to Industrial Emissions Directive (IED 2010/75/EE), namely CS2/MS2-CS2/MS2N and CS3 stations at Crete and Achaia, respectively, and the MS4/PRS4 and Heating Station at Megalopoli.

 IGI Poseidon	EASTMED PIPELINE PROJECT		 	
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN	
			REV. :	00
		PAGE :	29 OF 114	

Table 5-4 Forest Land Cover (official data from forest maps) within the Pipeline's Working Strip per Regional Unit (in 1000 m²).

Forest Map Class	Forest Map Category*	R.U. of Achaia	R.U. of Aetoloakarnania	R.U. of Arcadia	R.U. of Arta	R.U. of Ilia	R.U. of Laconia	R.U. of Preveza	R.U. of Thesprotia
Non Forest Areas	AA	525.95	1862.44	923.45	986.93	1255.62	1900.22	813.31	358.48
	ΠΑ	17.63	41.30	12.75	0.00	44.98	102.48	624.65	237.84
	<i>Subtotal</i>	<i>543.58</i>	<i>1903.75</i>	<i>936.20</i>	<i>986.93</i>	<i>1300.60</i>	<i>2002.70</i>	<i>1437.96</i>	<i>596.32</i>
Forest Areas	ΔΔ	483.51	1629.85	254.79	0.00	460.98	1125.15	213.03	342.75
	ΔΑ	86.37	168.63	40.07	1.40	341.60	216.99	49.40	2.25
	ΑΔ	5.01	15.89	309.25	0.95	115.80	270.24	31.30	46.42
	ΠΔ	0.00	0.82	0.08	0.00	0.00	12.54	0.05	10.60
	<i>Subtotal</i>	<i>574.89</i>	<i>1815.19</i>	<i>604.20</i>	<i>2.35</i>	<i>918.38</i>	<i>1624.92</i>	<i>293.78</i>	<i>402.02</i>
Grasslands	XA	0.00	0.00	0.00	0.00	60.50	0.00	0.00	0.00
	<i>Subtotal</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>60.50</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>
Total		1118,47	3718.94	1540.40	989.28	2279.49	3627.62	1731.73	998.34

*Legend:

- Non Forest Areas: **AA**: Other land cover in aerial imagery of 1945 and 2007-2009 (always non-forest areas) | **ΠΑ**: Non-forest areas with Forest Characterization Act
- Forest Areas: **ΔΔ**: Forests and Forested Areas in aerial imagery of 1945 and 2007-2009 (always forested areas) | **ΔΑ**: Forests and Forested Areas in aerial imagery of 1945; other land cover in aerial imagery of 2007-2009 (forest clearings) | **ΑΔ**: Other land cover in aerial imagery of 1945; forests and forested areas in aerial imagery of 2007-2009 (forested fields) | **ΠΔ**: Forested areas with Forest Characterisation Act
- Grasslands: **XX**: Grasslands in aerial imagery of 1945 and 2007-2009 (always grasslands) | **XA**: Grasslands in aerial imagery of 1945; other land cover in aerial imagery of 2007-2009 | **AX**: Other land cover in aerial imagery of 1945; grasslands in aerial imagery of 2007-2009 | **ΠX**: Grasslands with Forest Characterisation Act

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Table 5-5 Forest Land Cover (official data from forest maps) within the Project's Main Stations (plots) (in 1000 m²).

Forest Map Class	Forest Map Category*	MS4/PRS4 & Heating Station	CS2/MS2-CS2/MS2N	CS3
Non Forest Areas	AA	22476.50	1954.23	55016.88
	ΠA	23326.65	161841.55	
	<i>Subtotal</i>	<i>45803.15</i>	<i>163795.79</i>	<i>55016.88</i>
Forest Areas	ΔA	0.0	0.0	53084.38
	ΔΔ	0.0	4477.95	272.82
	<i>Subtotal</i>	<i>0.00</i>	<i>4477.95</i>	<i>53357.20</i>
Total		45803.15	168273.73	108374.08

*Legend:

- Non Forest Areas: **AA**: Other land cover in aerial imagery of 1945 and 2007-2009 (always non-forest areas) | **ΠA**: Non-forest areas with Forest Characterization Act
- Forest Areas: **ΔΔ**: Forests and Forested Areas in aerial imagery of 1945 and 2007-2009 (always forested areas) | **ΔA**: Forests and Forested Areas in aerial imagery of 1945; other land cover in aerial imagery of 2007-2009 (forest clearings)
- Reforestation Areas: **AN**: Areas that have been designated for reforestation either due to vegetation clearing or wildfires

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Another class of land cover according to Forest Maps is the Areas under Reforestation (AN), potentially including all of the previously mentioned land cover, i.e. Non-Forest (AA/ΠA) and Forest areas (ΔΔ/ΔA). Within the study area, Reforestation areas (AN) can be found in the Peloponnese and mainly in the Municipalities of Pyrgos, Ancient Olympia and Ilida. These areas were burnt in the catastrophic fires of the summer of 2017^{3,4,5} or even back in 2007⁶. Also, fires broke out in the Municipalities of Megalopoli and Tripoli. To a lesser extent, reforestation areas are observed in the Municipalities of Sparti, Evrota and Monemvasia.




New devastating wildfires took place in the summer of 2021 during the preparation of this study. The exact mapping of the most recent areas suffered from the wildfires and consequently eligible to be characterised as Reforestation Areas is yet to be publicly available. However, on the basis of a generic,

³ www.tanea.gr

⁴ www.elga.gr

⁵ www.fireservice.gr

⁶ el.wikipedia.org

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
		PAGE :	31 OF 114

descriptive, spatial correlation of the burnt areas with the Project footprint⁷, burnt areas that lay in the same administrative unit as the Project footprint include the following locations:

- R. U. of Arcadia, area of Megalopoli, at significant distance from the Project footprint (outside the limits of the study area). However, it is inside the limits of the Megalopoli fire of 2015. Areas suffering from multiple wildfires within a short period of time are even more sensitive and need to be even more protected. Nevertheless, most likely no interaction exists between the affected area and the Project; and
- R. U. of Ilia, area of Nemouta. This area lays within the study area. It is certain that the study area will include some part of burnt areas whilst it is also certain that the pipeline itself will cross burnt areas, whether forest or agricultural is yet to be known. Another very important aspect is the fact that the broader area of Ancient Olympia was affected during the wildfires of 2017 (as previously mentioned). Although spatial data are yet to be available, this is a very sensitive area given the second wildfire in 5 years' time.

For the implementation of the Project, the provisions of Law 998/1979 "On the protection of forests and forest areas in general of the country" as amended by article 36 of Law 4280/2014 (Government Gazette 159/A/2014) and article 57 of Law 4384/2016 (Government Gazette 78/A/2016) shall apply.

Based on this Law natural gas projects are allowed within the area subject to forest legislation.




Crossing the burnt areas of Peloponnese (either classified as reforestation areas or yet to be classified as such) cannot be completely avoided. Therefore, in alignment with Law 998/1979, mitigation measures will be applied and specific vegetation reinstatement studies and reforestation studies will be performed in collaboration with the competent authorities, prior to any construction activities begin, in line with the provisions of the Environmental Terms Approval.

5.1.4 Facilities of Social Infrastructure, Public Utility, etc.

Social infrastructure and public utilities that are considered in this section, according to Articles 6 and 12 of PD 59/2018 (as amended and in force), include existing (or under construction) facilities regarding:

- Social welfare;
- Education;

⁷ Fires mapping retrieved from <https://zoom.earth/#view=37.261267,22.176018,11z/date=2021-08-07,10:45,+3/layers=base,wind,fires>, <https://firms.modaps.eosdis.nasa.gov/map/#t:adv;d:2021-08-04..2021-08-05,2021-08-04;@21.5,38.9,9z> and press releases of national media.

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 32 OF 114

- Sports facilities;
- Healthcare;
- Waste Treatment (including solid, municipal, wastewater, and recycling);
- Transportation networks;
- Energy transmission network (and major power plants);
- Telecommunication network; and
- Water supply network.

To identify features of the above categories, focusing in the study areas, three data sources were mainly used:

- Official data, i.e. the Regional Spatial Plans of all engaged Regions;
- Desktop study, through review of past studies in the area, satellite imagery interpretation, available geodata for public buildings; and
- Stakeholders' engagement (data collection and consultation activities).

It is noted that the purpose of this section is to identify social infrastructure which the Project could interfere with. As such, the list presented in Table 5-6 is not an extended, all-inclusive one but presents the most prominent features as identified by the study team.

The Project is designed in such a way as to keep the minimum statutory distances from sensitive elements (e.g. public buildings, hospitals, etc.). As such, the Project is compatible with the identified social infrastructure and public utilities. In detail, Table 5-6 presents in greater detail social infrastructures and public utilities in the study area. Data regarding other projects planned/ existing in the study area are provided in Chapter 4, Paragraph 4.4.2 – Correlation with other projects.


	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 33 OF 114

Table 5-6 Social Infrastructure and Public Utilities within (or Close to) the Study Area.

Code	Region/ Section	Type	Subtype	Name	Spatial Correlation to the Project (Indicative Location)	Indicative Distance from Project Footprint (m)
SC-01	South Cretan Sea	Telecommunication	Submarine Telecommunication Line	SeaMeWe-3	KP 405	0
SC-02	South Cretan Sea	Telecommunication	Submarine Telecommunication Line	SeaMeWe-5	KP 425	0
SC-03	South Cretan Sea	Telecommunication	Submarine Telecommunication Line	MedNautilus Submarine System	KP 435	0
CR-01	Crete	Energy	Power plant	Atherinolakkos Power Plant	Atherinolakkos area	50
CR-02	Crete	Education	Primary School	Goudouras Primary School	Atherinolakkos area	>1 km
CR-03	Crete	Education	Kindergarten	Goudouras Kindergarten	Atherinolakkos area	>1 km
SA-01	South Aegean Sea	Telecommunication	Submarine Telecommunication Line	MedNautilus Submarine System	KP 205	0
SA-02	South Aegean Sea	Energy	Submarine Electricity Line	Ariadni	KP 245	0
SA-03	South Aegean Sea	Energy	Submarine Electricity Line	Ariadni	KP 250	0
SA-04	South Aegean Sea	Telecommunication	Submarine Telecommunication Line	Aphrodite 2	KP 250	0

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 34 OF 114

Code	Region/ Section	Type	Subtype	Name	Spatial Correlation to the Project (Indicative Location)	Indicative Distance from Project Footprint (m)
SA-05	South Aegean Sea	Telecommunication	Submarine Telecommunication Line	MedNautilus Submarine System	KP 335	0
PE-01	Peloponnese	Education	Special Laboratory of Vocational Education and Training (EEEEK)	EEEEK Mystra of Laconia	M. of Sparti	> 1 km
PE-02	Peloponnese	Education	Primary School	Primary School of Sikea	M. of Monemvasia	920
PE-03	Peloponnese	Energy	Electricity line	Molai - Chania	M. of Monemvasia	0
PE-04	Peloponnese	Energy	Electricity line	Molai - Argos	M. of Monemvasia	0
PE-05	Peloponnese	Energy	Power plant	Megalopoli Power Plant	Megalopoli Area	> 2 km
PE-06	Peloponnese	Energy	Electricity line	Megalopoli - Meligalas	Megalopoli Area	0
PE-07	Peloponnese	Energy	Electricity line	Megalopoli - Sparti	Megalopoli Area	0
PE-08	Peloponnese	Energy	Electricity line	Megalopoli - Tripoli	Megalopoli Area	> 200 m
PE-09	Peloponnese	Energy	Pipeline	DESFA's Megalopoli Branch pipeline	Megalopoli Area	0
PE-10	Peloponnese	Transportation	Railway	Arcadia Railway Network	Megalopoli Area	0
PE-11	Peloponnese	Transportation	Road (Highway)	Highway Korinthos-Tripoli-Kalamata	Megalopoli Area	0
WG-01	West Greece	Education	Primary School	Primary School of Simopoulo	M. of Ilida	> 1 km
WG-02	West Greece	Healthcare	Health Centre	Health Centre of Simopoulo	M. of Ilida	250

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 35 OF 114

Code	Region/ Section	Type	Subtype	Name	Spatial Correlation to the Project (Indicative Location)	Indicative Distance from Project Footprint (m)
WG-03	West Greece	Education	Kindergarten	1st Kindergarten of Agios Georgios	M. of Iera Poli Mesologgiou	420
WG-04	West Greece	Education	Primary School	Primary School of Agios Georgios	M. of Iera Poli Mesologgiou	400
WG-05	West Greece	Education	Kindergarten	Kindergarten of Gavalos	M. of Agrinio	680
WG-06	West Greece	Education	Primary School	Primary School of Gavalos	M. of Agrinio	800
WG-07	West Greece	Education	High School	High School of Gavalos	M. of Agrinio	600
WG-08	West Greece	Education	Primary School	Primary School of Grammatiko	M. of Agrinio	560
WG-09	West Greece	Education	Special Laboratory of Vocational Education and Training (EEEEK)	Vocational high schools of Makrinia	M. of Agrinio	850
WG-10	West Greece	Education	Primary School	Primary School of Papadates	M. of Agrinio	920
WG-11	West Greece	Education	Kindergarten	Kindergarten of Lepenos	M. of Agrinio	435
WG-12	West Greece	Education	High School	High School of Lepenos	M. of Agrinio	685
WG-13	West Greece	Education	Primary School	Primary School of Lepenos	M. of Agrinio	680
WG-14	West Greece	Education	Primary School	Primary School of Varetada	M. of Amfilochia	690
WG-15	West Greece	Transportation	Road (Highway)	Ionia odos motorway	Most of W. Greece	0
WG-16	West Greece	Transportation	Road (National)	Old National Road Kato Achaia - Araxo	M. of W. Achaia	0

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 36 OF 114

Code	Region/ Section	Type	Subtype	Name	Spatial Correlation to the Project (Indicative Location)	Indicative Distance from Project Footprint (m)
WG-17	West Greece	Transportation	Railway	Peloponnese Railway Axis	M. of W. Achaia	0
WG-18	West Greece	Transportation	Railway	Krioneri - Agrinio Railway Axis	M. of Agrinio	0
WG-19	West Greece	Waste Treatment (including solid, municipal, wastewater, and recycling)	Solid waste	Waste Treatment at Asterio's area	M. of W. Achaia	>1 km
WG-20	West Greece	Energy and Water Supply	Reservoir	Artificial Lake of Pinios	M. of W. Achaia	1000
WG-21	West Greece	Energy	Electricity line	Megalopoli - Pirgos	Megalopoli Area	0
WG-22	West Greece	Energy	Electricity line	Lalas - Pirgos	M. of Ancient Olympia	0
WG-23	West Greece	Energy	Electricity line	Patra - Pirgos	M. of Ilida	0
WG-24	West Greece	Energy	Electricity line	Patra - Andravida	M. of W. Achaia	0
WG-25	West Greece	Water supply	Aqueduct	Artificial Lake of Pinios - Panopoulos	M. of Ilida	0
WG-26	West Greece	Water supply	Aqueduct	Artificial Lake of Pinios - Panopoulos	M. of Ilida	0
WG-27	West Greece	Water supply	Aqueduct	Kato Achaia - Araxos	M. of W. Achaia	0
WG-28	West Greece	Energy	Electricity line	Agrinio - Papadates	M. of Agrinio	0

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 37 OF 114

Code	Region/ Section	Type	Subtype	Name	Spatial Correlation to the Project (Indicative Location)	Indicative Distance from Project Footprint (m)
WG-29	West Greece	Energy	Electricity line	Stratos - Fities	M. of Agrinio	0
WG-30	West Greece	Energy	Electricity line	Stratos - Amfilochia	M. of Amfilochia	0
WG-31	West Greece	Energy	Electricity line	Stratos - Arta	W. Greece	0
WG-32	West Greece	Energy	Electricity line	Arta - Amfilochia	M. of Amfilochia	0
WG-33	West Greece	Energy and Water Supply	Reservoir	Artificial Lake of Stratos	M. of Agrinio	>1 km
WG-34	West Greece	Energy and Water Supply	Reservoir	Artificial Lake of Kastraki	M. of Agrinio	>1 km
WG-35	West Greece	Telecommunication	Telecommunication Centre	Telecommunication Centre of Amfilochia	M. of Amfilochia	>1 km
WG-36	West Greece	Transportation	Port	Amfilochia Fish auction port	M. of Amfilochia	>1 km
WG-37	West Greece	Transportation	Port	Amfilochia tourist port	M. of Amfilochia	>1 km
WG-38	West Greece	Telecommunication	Telecommunication Centre	Telecommunication Centre of Agrinio	M. of Agrinio	>1 km
WG-39	West Greece	Transportation	Airport	Agrinio small airport/ helipad	M. of Agrinio	>1 km
WG-40	West Greece	Waste Treatment (including solid, municipal, wastewater, and recycling)	Solid waste	Waste Treatment at Messolonghi area	M. of Iera Poli Mesologgiou	>1 km

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 38 OF 114

Code	Region/ Section	Type	Subtype	Name	Spatial Correlation to the Project (Indicative Location)	Indicative Distance from Project Footprint (m)
WG-41	West Greece	Transportation	Airport	Araxos airport	M. of W. Achaia	>1 km
WG-42	West Greece	Waste Treatment (including solid, municipal, wastewater, and recycling)	Biological Treatment	Biological Waste Treatment at Agrinio's area	M. of Agrinio	>1 km
WG-43	West Greece	Waste Treatment (including solid, municipal, wastewater, and recycling)	Biological Treatment	Biological Waste Treatment in the Kato Achaia area	M. of W. Achaia	>1 km
WG-44	West Greece	Healthcare	Health Centre	Health Centre of Gavalos	M. of Agrinio	>1 km
WG-45	West Greece	Education	Primary School	Primary School of Marlesi	M. of Amfilochia	460
EP-01	Epirus	Education	Primary School	Primary School of Polidroso	M. of Arta	900
EP-02	Epirus	Education	Primary School	Primary School of Polikalamo	M. of Nikolaos Skoufa	510
EP-03	Epirus	Waste Treatment (including solid, municipal, wastewater, and recycling)	Solid waste	Waste Treatment at Karvounari area	M. of Souli	>1 km

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 39 OF 114

Code	Region/ Section	Type	Subtype	Name	Spatial Correlation to the Project (Indicative Location)	Indicative Distance from Project Footprint (m)
EP-04	Epirus	Waste Treatment (including solid, municipal, wastewater, and recycling)	Solid waste	Waste logistics centre at Tzara area	M. of Parga	>1 km
EP-05	Epirus	Telecommunication	Telecommunication Centre	Telecommunication Centre of Chimadio	M. of Preveza	>1 km
EP-06	Epirus	Energy	Electricity line	Louros - Preveza	M. of Preveza	0
EP-07	Epirus	Energy	Electricity line	Louros - Philipiada	M. of Preveza	>1 km
EP-08	Epirus	Energy	Electricity line	Kanalaki - Margariti - Sivota	Various	0
EP-09	Epirus	Telecommunication	Telecommunication cable	Vodafone HOL/CYTA Net	M. of Nikolaos Skoufa	0
EP-10	Epirus	Telecommunication	Telecommunication cable	Vodafone HOL Net	M. of Nikolaos Skoufa	0
EP-11	Epirus	Telecommunication	Telecommunication cable	Vodafone HOL Net	M. of Arta	0
EP-12	Epirus	Telecommunication	Telecommunication cable	Vodafone HOL Net	M. of Preveza	0
EP-13	Epirus	Transportation	Road (Highway)	Ionia Odos Motorway	Various	0
EP-14	Epirus	Transportation	Road (National)	Connection of Preveza to Ionia Odos	M. of Preveza	0




	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 40 OF 114

Code	Region/ Section	Type	Subtype	Name	Spatial Correlation to the Project (Indicative Location)	Indicative Distance from Project Footprint (m)
EP-15	Epirus	Transportation	Port	Menidi Fish auction port	M. of Nikolaos Skoufa	>1 km
EP-16	Epirus	Transportation	Port	Parga Tourist port	M. of Parga	>1 km
EP-17	Epirus	Waste Treatment (including solid, municipal, wastewater, and recycling)	Biological Treatment	Biological Waste Treatment in the Kompoti area	M. of Nikolaos Skoufa	>1 km
EP-18	Epirus	Waste Treatment (including solid, municipal, wastewater, and recycling)	Biological Treatment	Biological Waste Treatment in the Neochori area	M. of Nikolaos Skoufa	>1 km
EP-19	Epirus	Waste Treatment (including solid, municipal, wastewater, and recycling)	Biological Treatment	Biological Waste Treatment in the Louro area	M. of Preveza	>1 km

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 41 OF 114

Code	Region/ Section	Type	Subtype	Name	Spatial Correlation to the Project (Indicative Location)	Indicative Distance from Project Footprint (m)
EP-20	Epirus	Waste Treatment (including solid, municipal, wastewater, and recycling)	Biological Treatment	Biological Waste Treatment in the Kanalaki area	M. of Parga	>1 km
EP-21	Epirus	Waste Treatment (including solid, municipal, wastewater, and recycling)	Biological Treatment	Biological Waste Treatment in the Parga area	M. of Parga	>1 km
EP-22	Epirus	Healthcare	Health Centre	Health Centre of Margariti	M. of Igoumenitsa	820
EP-23	Epirus	Education	High School	High School of Margariti	M. of Igoumenitsa	850
EP-24	Epirus	Education	High School	Integrated High School of Margariti	M. of Igoumenitsa	850
EP-25	Epirus	Education	High School	Kindergarten of Margariti	M. of Igoumenitsa	790
EP-26	Epirus	Education	High School	Primary School of Margariti	M. of Igoumenitsa	820
EP-27	Epirus	Education	Primary School	Primary School of Karteri	M. of Igoumenitsa	620
EP-28	Epirus	Education	Kindergarten	Kindergarten of Karteri	M. of Igoumenitsa	620
EP-29	Epirus	Education	Kindergarten	Kindergarten of Katavothra	M. of Igoumenitsa	930

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	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 42 OF 114




5.1.5 Cultural Heritage Resources

Compatibility of the Project with cultural heritage resources is assessed based on the replies received so far by the competent authorities (Central Authorities and/or Regional Ephorates of Antiquities) and available official cultural heritage data portals (i.e. Ministry of Culture). Table 5-7 lists first in spatial correlation to the Project and then in alphabetical order the authorities consulted that provided most of the data.

Stakeholder engagement is documented in Annex 8J.3 - Stakeholder Engagement and Socioeconomic Baseline Data Collection.

Table 5-7 Statutory Authorities data providing correspondence.

Stakeholder	Reference Number	Date	Spatial Correlation to the Project
Dpt. of Coordination and Supervising Archaeological Surveys and Fieldworks in the frame of Investing Programs	<ul style="list-style-type: none"> ΥΠΠΟΑ/ΓΔΑΠΚ/ΔΒΜΑ/ΤΣΠΑΕΕ/731098/519221/8753/636; and 290036 	<ul style="list-style-type: none"> 24-10-2020; and 23-06-2021 	Entire Greece
Ephorate of Marine Antiquities	<ul style="list-style-type: none"> ΥΠΠΟΑ/ΓΔΑΠΚ/ΕΕΑ/ΤΕΑΧΜΕ/440408/310307/6270/1840; 192029; and 217523 	<ul style="list-style-type: none"> 20-08-2020; 13-05-2021; and 21-05-2021 	Entire Greece
Ephorate of Palaeoanthropology and Speleology	<ul style="list-style-type: none"> ΥΠΠΟΑ/ΓΔΑΠΚ/ΕΠΣ/ΤΑΠΙΠ/426684/300135/4107/946 	<ul style="list-style-type: none"> 10-09-2020 	Entire Greece
Dpt. of Modern Monuments and Technical Works of Epirus, North Ionian Sea and West Macedonia	<ul style="list-style-type: none"> ΥΠΠΟΑ/ΓΔΑΜΤΕ/ΥΝΜΤΕΗΒΙΑΔΜ/427636/48393/3670 	<ul style="list-style-type: none"> 21-08-2020 	Regions of Western Greece and Epirus
Dpt. of Modern Monuments and Technical Works of West Greece, Peloponnese and South Ionian Sea	<ul style="list-style-type: none"> ΥΠΠΟΑ/ΓΔΑΜΤΕ/ΥΝΜΤΕΔΕΠΝΙ/ΤΠΝΜΚΠΑ/427695/48393/5651/1770 	<ul style="list-style-type: none"> 04-09-2020 	Regions of West Greece and Peloponnese




	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 43 OF 114

Stakeholder	Reference Number	Date	Spatial Correlation to the Project
Ephorate of Antiquities of Achaia	• ΥΠΠΟΑ/ΓΔΑΠΚ/ΕΦΑΑΧΑ/427184/300502/5358	• 10-08-2020	R.U. of Achaia
Ephorate of Antiquities of Arcadia	• ΥΠΠΟΑ/ΓΔΑΠΚ/ΕΦΑΑΡΚ/428160/301234/291	• 09-12-2020	R.U. of Arcadia
Ephorate of Antiquities of Arta	• ΥΠΠΟΑ/ΓΔΑΠΚ/ΕΦΑΑΡΤ/430915/303264/3337	• 19-08-2020	R.U. of Arta
Ephorate of Antiquities of Aetoloakarnania and Lefkada	• ΥΠΠΟΑ/ΓΔΑΠΚ/ΕΦΑΑΙΤ/427089/300437/5609	• 15-09-2020	R.U. of Aetoloakarnania
Ephorate of Antiquities of Ilia	• ΥΠΠΟΑ/ΓΔΑΠΚ/ΕΦΑΗΛ/431425/303642/4324	• 25-08-2020	R.U. of Ilia
Ephorate of Antiquities of Laconia	• ΥΠΠΟΑ/ΓΔΑΠΚ/ΕΦΑΛΑΚ/ΤΒΜΑΜ/498209/352277/5690/2088; and • 217523	• 08-10-2020; and • 08-06-2021	R.U. of Laconia
Ephorate of Antiquities of Lasithi	• 44136; and • 217523	• 08-03-2021; and • 28-05-2021	R.U. of Lasithi
Ephorate of Antiquities of Preveza	• ΥΠΠΟΑ/ΓΔΑΠΚ/ΕΦΑΠΡΕ/427325/300601/4672	• 18-11-2020	R.U. of Preveza
Ephorate of Antiquities of Thesprotia	• ΥΠΠΟΑ/ΓΔΑΠΚ/ΕΦΑΘΕΣ/427442/300690/3555	• 11-09-2020	R.U. of Thesprotia

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Based on the above stakeholder engagement, the following are noted:

- Most of the replies list identified (declared) cultural heritage resources at adequate distances from the Project footprint;
- Most of the replies identify Areas of High Archaeological Potential within the study area that need to be considered for chance findings (Ephorates of Antiquities of: Arcadia, Arta, Aetoloakarnania and Lefkada);

	<p style="text-align: center;">EASTMED PIPELINE PROJECT</p> <p style="text-align: center;">EastMed Greek Section – Environmental and Social Impact Assessment</p>	<div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN</p> <p>REV. : 00</p> <p>PAGE : 44 OF 114</p>
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- Few have requested route modifications for increased protection of cultural heritage resources (Ephorates of Antiquities of Thesprotia, Arcadia). The present Project footprint takes into consideration all technically feasible requests;
- All of them requested to be informed prior to commencement of construction works and to supervise the construction works. These are to be provisioned within a dedicated Memorandum of Understanding that shall be signed between Project Owner and the Ministry of Culture; and
- None expressed objection to or incompatibility of the Project in the context of cultural heritage protection regulations.

In addition, a desktop study for additional resources was performed; this procedure mainly focused on satellite imagery interpretation and identification of religious resources (e.g. places of worship or cemeteries).




Table 5-8 summarises the number of declared cultural heritage resources per Regional Unit that lie within the study area (see Section 15.1.7 -Cultural heritage map). Only one, CH-PRE-012, is crossed by the Project footprint (CCS2). This refers to the “Acheron River” cultural heritage site; nevertheless, being a linear geographical feature, i.e. a river designated also as cultural heritage resource, it is not feasible for the Project (another linear feature passing through the area) to completely avoid it. On top of that, the competent authority has no objection, as long as appropriate mitigation measures are applied⁸. It is noted that other natural gas pipelines have crossed linear cultural heritage resources in Greece (e.g. various resources in northern Greece crossed by TAP of existing DESFA’s pipelines) in close collaboration with the competent authorities and no compatibility issues were raised nor damage induced.

The design of the route was precisely aimed at avoiding as much as technically possible any cultural heritage resources according to the available spatial data; in fact, only nine cultural heritage resources lie within 100 m of the Project footprint (one of which is crossed, i.e. CH-PRE-012 - Acheron River) and an additional eight within 200 m of the Project footprint (e.g. pipeline axis, temporary and/or permanent facilities boundaries).

Table 5-8 Number of Declared Cultural Heritage Resources per Regional Unit.

Regional Unit	Number of Declared Cultural Heritage Resources identified within		
	the study area	200 m from project footprint	100 m from project footprint
Achaia	2	0	0

⁸ Official correspondence with Ephorate of Antiquities of Preveza, ΥΠΠΟΑ/ΓΔΑΠΚ/ΕΦΑΠΡΕ/427325/300601/4672/18-11-2020. See Annex8J.3

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 45 OF 114

Regional Unit	Number of Declared Cultural Heritage Resources identified within		
	the study area	200 m from project footprint	100 m from project footprint
Aetoloakarnania	7	1	0
Arcadia	5	3	0
Ilia	4	0	0
Laconia	85	10	6
Lasithi	2	0	0
Preveza	10	3	3
Thesprotia	9	0	0
Total	124	17	9

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Regarding the marine antiquities the following are noted: apart from the studies performed by the project (RMS⁹ and DMS¹⁰) during ESIA consultation, an underwater research up to 30 m WD was conducted (March 2022) in collaboration with the competent authority (Ephorate of Marine Antiquities) at the four landfalls (LF) of the project **with no relevant findings** (see official reply Ref. No. 119384606632/18-03-202223-12-2021 of the General Directorate of Antiquities and Cultural Heritage in Annex 8J.3). In addition, it was agreed to enhance collaboration for the deep water section between the project and the competent authority. Specifically, it was decided to provide all visual (pictures and video) material acquired by the project (through RMS/ DMS, site survey for ESIA purposes with the use of ROV, etc) to the experts of the Ephorate of Marine Antiquities for control and evaluation. It was agreed that if the results of the above material identify findings, further discussion would be held to mitigate possible impacts (e.g. through route adjustment), if and as required. Based on the RMS, 21 possible “targets” of cultural heritage interest were preliminary identified. These are not considered officially declared cultural heritage resources (not yet verified as such) and are not reported in the present section, but details are provided in Section 8.6.3.

Based on the above, the Project is compatible with cultural heritage commitments.


⁹ Lighthouse S.p.A., 2018 - EASTMED PIPELINE RMS VOL. 1- 5 (filename: IGI001_FINAL_INTEGRATED_REPORT, VOL.1-VOL.5).

¹⁰ At the time of writing, the DMS for OSS4, part of OSS3, had been completed.

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 46 OF 114

Table 5-9 Declared Cultural Heritage Resources in the Study Area.

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-LAS-001	Livari Ag. Triada - settlement and cemetery of the Minoan Era,	E.A.of Lasithi	ΥΠΠΟΤ/ΓΔΑΠ Κ/ΑΡΧ/Α1/Φ24/54434/2 491 (GG325/Α.Α.Π./09-08-2010)	HPM	Lasithi	2000	CS2/MS2-CS2/MS2 N
CH-LAS-002	Archaeological site of Kastri Goudoura	E.A. of Lasithi	ΥΠΠΟΤ/ΓΔΑΠ Κ/ΑΡΧ/Α1/Φ24/54434/2 491 (GG325/Α.Α.Π./09-08-2010)	A.S.	Lasithi	677	CS2/MS2-CS2/MS2 N
CH-LAK-001	Sklavohori	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	A.S.	Laconia	93	CCS1
CH-LAK-002	Agios Fokas	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	A.S.	Laconia	406	CCS1
CH-LAK-003	Peninsula of Agios Fokas	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	A.S.	Laconia	534	CCS1
CH-LAK-004	Halavra	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	A.S.	Laconia	467	CCS1

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 47 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-LAK-005	Koukougeras I	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	A.S.	Laconia	596	CCS1
CH-LAK-006	Koukougeras II	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	A.S.	Laconia	883	CCS1
CH-LAK-007	Figalia-Mandres	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	A.S.	Laconia	383	CCS1
CH-LAK-008	Hinokopia	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	A.S.	Laconia	781	CCS1
CH-LAK-009	Mitropoli	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	A.S.	Laconia	24	CCS1
CH-LAK-010	Revma	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	A.S.	Laconia	665	CCS1
CH-LAK-011	Agios Georgios	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	791	CCS1
CH-LAK-012	Panagia	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	539	CCS1
CH-LAK-013	Agios Dimitrios	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	536	CCS1

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 48 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-LAK-014	Elliniko	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	474	CCS1
CH-LAK-015	Elliniko	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	538	CCS1
CH-LAK-016	Elliniko	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	625	CCS1
CH-LAK-017	Elliniko	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	657	CCS1
CH-LAK-018	Elliniko	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	694	CCS1
CH-LAK-019	Elliniko	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	656	CCS1
CH-LAK-020	Elliniko	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	624	CCS1
CH-LAK-021	Elliniko	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	751	CCS1
CH-LAK-022	Agios Nikolaos	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	534	CCS1

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 49 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-LAK-023	Panagia	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	350	CCS1
CH-LAK-024	Elliniko	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	150	CCS1
CH-LAK-025	Agia Paraskevi	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	775	CCS1
CH-LAK-026	Agios Valileios	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	905	CCS1
CH-LAK-027	Agios Ioannis	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	543	CCS1
CH-LAK-028	Church of Agios Georgios	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	112	CCS1
CH-LAK-029	Church of Agios Stratigos	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	915	CCS1
CH-LAK-030	Profitis Ilias	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	821	CCS1

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 50 OF 114



Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-LAK-031	Church of Assumption and Agios Ioannis	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	453	CCS1
CH-LAK-032	Agioi Apostoloi	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	398	CCS1
CH-LAK-033	"Lira"	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	27	CCS1
CH-LAK-034	"Teria"	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	901	CCS1
CH-LAK-035	"Teria"	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	834	CCS1
CH-LAK-036	"Agios Nikolaos"	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	507	CCS1
CH-LAK-037	"Agios Nikolaos"	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	776	CCS1
CH-LAK-038	"Agios Nikolaos"	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	640	CCS1

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 51 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-LAK-039	"Agios Nikolaos"	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	444	CCS1
CH-LAK-040	"Velies"	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	623	CCS1
CH-LAK-041	"Velies"	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	670	CCS1
CH-LAK-042	"Velies"	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	271	CCS1
CH-LAK-043	"Velies"	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	751	CCS1
CH-LAK-044	Profitis Ilias	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	881	CCS1
CH-LAK-045	Newer Cathedral	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	806	CCS1
CH-LAK-046	"Velies"	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	HPM	Laconia	967	CCS1
CH-LAK-047	"Velies"	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	834	CCS1

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 52 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-LAK-048	Agioi Tessarakonta	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	894	CCS1
CH-LAK-049	Michail and Gavriil	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	662	CCS1
CH-LAK-050	Panagitsa	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	528	CCS1
CH-LAK-051	Agios Andreas	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	255	CCS1
CH-LAK-052	Agia Paraskeyi	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	964	CCS1
CH-LAK-053	Agios Ioannis	SXOOAP - M.U. Monemvasia	GG 231/ΑΑΠ/19.06.2013	R	Laconia	727	CCS1
CH-LAK-054	Pantanassa Castle (Vasilopoula's Castle)	E.A.of Laconia	ΥΠΠΟ/ΑΡΧ/Β1/Φ30/ΚΗΡ /17686/656/10-4-2002 (GG 520/Β/29-4-2002)	HPM	Laconia	777	CCS1
CH-LAK-059	Church of Panagia	E.A.of Laconia	GG 68/Α'/26.4.1921	R	Laconia	460	CCS1

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 53 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
	Chrysafitissa, Monemvasia						
CH-LAK-063	Churches of Agia Anna and Assumption of the Virgin	E.A. of Laconia	15904/ 24.11.1962, GG 473/B'/17.12.1962	R	Laconia	537	CCS1
CH-LAK-064	"Ruins" of Molai	E.A. of Laconia	ΥΠΠΟ/ΓΔΑΠΚ/ΑΡΧ/Β1/Φ 30/114572π.ε./4696π.ε. /2-8-2011 (GG 215/ΑΑΠ/24-8-2011 and ΥΠΠΟΤ/ΓΔΑΠΚ/ΑΡΧ/Β1/Φ30/25229/772/2-3-2012 (GG 108/ΑΑΠ/4-4-2012)	HPM	Laconia	841	CCS1
CH-LAK-065	"Ruins" of Molai	E.A. of Laconia	ΥΠΠΟ/ΓΔΑΠΚ/ΑΡΧ/Β1/Φ 30/114572π.ε./4696π.ε. /2-8-2011 (GG 215/ΑΑΠ/24-8-2011) and ΥΠΠΟΤ/ΓΔΑΠΚ/ΑΡΧ/Β1/	HPM	Laconia	404	CCS1

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 54 OF 114


Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
			Φ30/25229/772/2-3-2012 (GG 108/ΑΑΠ/4-4-2012)				
CH-LAK-066	Porolithos Quarry of Agios Fokas	E.A. of Laconia	ΥΠΠΟ/ΑΡΧ/Β1/Φ30/209 53/746/29-4-2002 - GG 616/Β/20-5-2002	HPM	Laconia	203	CCS1
CH-LAK-067	Sofronis Gorge Laconia	E.A. of Laconia	ΥΠΠΟΑ/ΓΔΑΠΚ/ΔΒΜΑ/Τ ΒΜΑΧΜΑΕ/335241/197 653/9537/2806, GG 255/ΑΑΠ/ 2.12.2015	HPM	Laconia	153	CCS1
CH-LAK-068	Samara	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	A.S.	Laconia	284	CCS1
CH-LAK-069	Kasteli	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	A.S.	Laconia	637	CCS1
CH-LAK-070	Twin Temple	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	A.S.	Laconia	507	CCS1
CH-LAK-071	Ai-Tzouras	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	A.S.	Laconia	734	CCS1

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 55 OF 114


Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-LAK-072	Agios Ioannis	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	A.S.	Laconia	947	CCS1
CH-LAK-073	Church of Agios Andreas	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	A.S.	Laconia	73	CCS1
CH-LAK-074	Ai-Stratigos	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	A.S.	Laconia	685	CCS1
CH-LAK-075	Agios Nikolaos	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	A.S.	Laconia	660	CCS1
CH-LAK-076	Agios Georgios	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	A.S.	Laconia	789	CCS1
CH-LAK-077	"Kasteli" cave abyss	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	473	CCS1
CH-LAK-078	"Arapi" cave abyss	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	531	CCS1
CH-LAK-079	Cave abyss "Makria Lakka"	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	151	CCS1
CH-LAK-080	"Dendroulia" cave abyss	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	529	CCS1

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 56 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-LAK-081	Koutsouvera Agiou Charalampous	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	448	CCS1
CH-LAK-082	"Kaniata" cave abyss	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	215	CCS1
CH-LAK-083	Abyss "Aritsa"	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	581	CCS1
CH-LAK-084	Cave	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	306	CCS1
CH-LAK-085	"Kotonas" cave abyss	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	260	CCS1
CH-LAK-086	Cave cavities - ancient quarry	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	92	CCS1
CH-LAK-087	Cave in Agios Andreas	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	3	CCS1
CH-LAK-088	Cave abyss in Teria	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	998	CCS1

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 57 OF 114



Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-LAK-089	Cave horizontal	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	311	CCS1
CH-LAK-090	Cave in Lykovouno	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	991	CCS1
CH-LAK-091	Cave in "Lakkoudia"	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	HPM	Laconia	861	CCS1
CH-LAK-092	Agios Fokas	SXOOAP - M.U. Monemvasia	GG ΑΑΠ 231/19.06.2013	A.S.	Laconia	645	CCS1
CH-ARK-001	OSE Leontari Arcadia Preserved Station	E.A. of Arcadia	ΥΠΠΕ/ΔΙΛΑΠ/Γ/1010-1088/28818/13-5-1985 (GG 391/B/25-6-1985)	HPM	Arcadia	122	CCS1
CH-ARK-002	OSE Tripotamos Preserved Station	E.A. of Arcadia	ΥΠΠΕ/ΔΙΛΑΠ/Γ/1010-1088/28818/13-5-1985 (GG 391/B/25-6-1985)	HPM	Arcadia	154	CCS1
CH-ARK-010	Archaeological site of Kyparissia	E.A. of Arcadia	ΥΠΠΟ/ΓΔΑΠΚ/ΑΡΧ/Α1/Φ. 43/106096/4921/12-12-2005 (GG 1931/B/30-12-2005)	A.S.	Arcadia	140	CCS1

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 58 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-ARK-011	Archaeological site of Lusios River	E.A. of Arcadia	ΕΥΠΠΟ/ΓΔΑΠΚ/ΑΡΧ/Β1/Φ50/ 3980/248/11-1-2007 (GG 29/ΑΑΠ/31-1-2007)	A.S.	Arcadia	877	CCS1
CH-ARK-012	Alfeios Bridge	M. of Megalopoli : Directorate of Technical Services and Building Construction Authority	136340/6023/29-12-1956 (GG 11/Β/12-1-1957)	HPM	Arcadia	925	CCS1
CH-ILI-001	“Koukos” Stonebridge, Arcadia	Service of Modern Monuments and Technical Works of Western Greece, Peloponnese and South Ionian	ΥΠΠΟ/ΔΙΛΑΠ/Γ/4574/15 167/17-3-1999 (GG 337/Β/8-4-1999)	HPM	Ilia	529	CCS1

	EASTMED PIPELINE PROJECT		 
			DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
	EastMed Greek Section – Environmental and Social Impact Assessment		REV. : 00
			PAGE : 59 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-ILI-004	Archaeological site on the hill "Kastro Theisoa"	E.A. of Ilia	ΥΠΠΟ/ΑΡΧ/Α1/Φ07/241/3/7-1-1986 (GG 22/B/31-1-1986)	A.S.	Ilia	226	CCS1
CH-ILI-005	Archaeological site of Alifeira	E.A. of Ilia	ΥΠΠΕ/ΑΡΧ/Α1/Φ07/63492/2174/12-11-1982 (GG 290/B/30-5-1983)	A.S.	Ilia	713	CCS1
CH-ILI-006	Archaeological Site "Tourlas"	E.A. of Ilia	ΥΠΠΟ/ΑΡΧ/Α1/Φ43/49877/3038/23-10-2001 (GG 1470/B/29-10-2001)	A.S.	Ilia	215	CCS1
CH-ACH-001	Agios Dimitrios church	E.A. of Achaia	ΥΠΠΟ/ΑΡΧ/Β1/Φ31/31262/600/3-8-1987 (GG 476/B/3-9-1987)	R	Achaia	380	CCS1
CH-ACH-003	Archaeological site of Mount Skollis (Mycenaean city and ancient temple)	E.A. of Achaia	ΥΠΠΟ/ΓΔΑΠΚ/ΑΡΧ/Α1/Φ43/35800/2373/28-4-2004 (GG 817/B/2-6-2004)	A.S.	Achaia	223	CCS1

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 60 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-AIT-001	Roman Bridges of “Alampeí”	E.A.of Aitolokarnaniaan d Lefkada	1466/12776/6-8-1968 (GG 418/B/29-8-1968)	HPM	Aitolokarnania	482	CCS2
CH-AIT-002	Byzantine Temple of Agia Triada of Mavrika, Agrinio	E.A.of Aitolokarnaniaan d Lefkada	GG 84/B/5-2-1969	HPM	Aitolokarnania	329	CCS2
CH-AIT-003	Church of Agios Ioannis	E.A.of Aitolokarnaniaan d Lefkada	27702/25-1-1969 (GG 84/B/5-2-1969)	HPM	Aitolokarnania	389	CCS2
CH-AIT-013	Archaeological site 'Kourtagas' of Evinohori (ancient city of Kalydon)	E.A.of Aitolokarnaniaan d Lefkada	ΥΠΠΟ/ΑΡΧ/Α1/Φ43/291 88/1506/5-7-1991 (GG 600/B/1-8-1991)	A.S.	Aitolokarnania	1295	CCS2
CH-AIT-014	Archaeological site of Gavallós (ancient Aetolian city of Trichonio)	E.A.of Aitolokarnaniaan d Lefkada	ΥΠΠΟ/ΑΡΧ/Α1/Φ43/719 1/345/15-2-1996 (GG 213/B/2-4-1996) & ΥΠΠΟ/ΑΡΧ/Α1/Φ43/719	A.S.	Aitolokarnania	331	CCS2

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 61 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
			1/345/15-2-1996 (GG 460/B/17-6-1996)				
CH-AIT-015	Archaeological site in the area of Stratos (ancient city of Stratos)	E.A.of Aitolokarnaniaan d Lefkada	ΥΠΠΟ/ΑΡΧ/Α1/Φ43/576 70/3238/16-1-1997 (GG 205/B/18-3-1997)	A.S.	Aitolokarnania	197	CCS2
CH-AIT-016	Prehistoric settlement at "Lagkada" and "Alonaki" in Lepenos	E.A.of Aitolokarnaniaan d Lefkada	ΥΠΠΟ/ΑΡΧ/Α1/Φ43/674 53/4026/17-12-2001 (GG 300/B/14-3-2002)	A.S.	Aitolokarnania	1143	CCS2
CH-PRE-002	Archaeological site at Tsoumpari hill, Preveza	E.A.of Preveza	15794/19-12-1961 (GG 35/B/2-2-1962)	HPM	Preveza	999	CCS2
CH-PRE-003	Holy Monastery Lekatsa	E.A.of Preveza	ΥΠΠΟ/ΑΡΧ/Β1/Φ33/392 94/1247/30-6-1997 (GG 740/B/25-8-1997)	R	Preveza	295	CCS2

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 62 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-PRE-004	Roman Aqueduct of Nikopolis	E.A.of Preveza	n/a	HPM	Preveza	361	CCS2
CH-PRE-005	Roman farmhouse, “Lamari”, Preveza	E.A.of Preveza	n/a	HPM	Preveza	473	CCS2
CH-PRE-006	Roman Aqueduct of Nikopolis	E.A.of Preveza	15794/19.12.61 (GG 35/B/02.02.62)	HPM	Preveza	33	CCS2
CH-PRE-008	Acropolis of Kastriza	E.A.of Preveza	15794/19.12.61 (GG 35/B/02.02.62)]	A.S.	Preveza	610	CCS2
CH-PRE-009	Archaeological Site Area	Region of Epirus, General Directorate for Regional Agricultural Economy and Veterinary, Directorate for	GG 185/ΑΑΠΘ/2012	A.S.	Preveza	334	CCS2

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 63 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
		Regional Agricultural Economy of RU of Preveza					
CH-PRE-010	Archaeological Site Area	Region of Epirus, General Directorate for Regional Agricultural Economy and Veterinary, Directorate for Regional Agricultural Economy of RU of Preveza	GG 185/ΑΑΠΘ/2012	A.S.	Preveza	597	CCS2
CH-PRE-011	Roman Olive Press, Strongyli - Arapospita, Arta	E.A.of Arta	15794/19-12-1961 (GG 35/B/2-2-1962)	HPM	Preveza	26	CCS2




	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 64 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-PRE-012	Acheron River	E.A.of Preveza	ΥΠΠΕ/ΑΡΧ/ΑΙΦ31 /37633/ 74/22.12.1976 (GG 7(B/13.01.1977)	HPM	Preveza	0	CCS2
CH-THE-009	Paliokastro Morfis	E.A.of Thesprotia	15794/19.12.1961 (GG 358/02.02.1962)	HPM	Thesprotia	406	CCS2
CH-THE-011	Palaiokastro Margaritiou	E.A.of Thesprotia	15794/19.12.1961 (GG 358/02.02.1962)	HPM	Thesprotia	345	CCS2
CH-THE-012	Hydro-powered Complex	E.A.of Thesprotia	ΥΑ ΥΠΑΙΘΠΑ/ΓΔΑΜΤΕ/ΔΝΣΑ Κ/84570/5570/1108/14-9-2012, GG 308/ΑΑΠ/5-10-2012	HPM	Thesprotia	206	CCS2
CH-THE-019	Margariti Governorate Building	E.A.of Thesprotia	ΥΠΠΟ/ΔΙΛΑΠ/Γ/1894/27 518/11-7-1986, GG 614/B/23-9-1986	HPM	Thesprotia	841	CCS2
CH-THE-020	"House of Doctor Konstantinos Gousis"	E.A.of Thesprotia	ΥΠΠΟ/ΔΝΣΑΚ/Γ/49523/1 267/4-7-2005, GG 970/B/12-7-2005	HPM	Thesprotia	960	CCS2

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 65 OF 114

Code	Name	Source (E.A.: Ephorate of Antiquities M.U.: Municipal Unit)	Declaration Decision	Type of Site (A.S.: Archaeological Site/ HPM: Historically Preserved Monument / R.: Temples - Religious Sites)	Regional Unit	Distance from Project Component (m)	Project Component
CH-THE-021	Building owned by Andreas Spyrou	E.A.of Thesprotia	ΥΠΠΟ/ΔΝΣΑΚ/92643/25 99/7-11-2006, GG 138/ΑΑΠ/24-11-2006	HPM	Thesprotia	762	CCS2
CH-THE-022	Remains of the Hydrokine Complex buildings	E.A.of Thesprotia	ΥΠΑΙΘΠΑ/ΓΔΑΜΤΕ/ΔΝΣΑ Κ/84570/5570/1108/14- 9-2012, GG 308/ΑΑΠ/5- 10-2012	HPM	Thesprotia	233	CCS2
CH-THE-025	Margariti Castle and Mosque	E.A.of Thesprotia	n/a	HPM	Thesprotia	430	CCS2
CH-THE-026	Minares of Margariti	E.A.of Thesprotia	n/a	HPM	Thesprotia	781	CCS2

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	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
		PAGE :	66 OF 114

5.2 Existing Spatial and Urban Planning Regulations in the Area of the Project

Rules on allowed land uses or restrictions of activities may derive from spatial planning legislation, which provides:

- Strategic spatial plans, applicable on broader areas at the national or regional level; and
- Regulatory spatial plans setting specific regulations on areas and defining the allowed land uses and planning restrictions.

The Project must be compatible with all national, regional and local plans. In general, regional and urban planning in Greece do not provide any specification regarding the design and construction of a gas pipeline. Regional planning deals with general guidelines for development planning, while urban planning defines land use characterisation.

5.2.1 Provisions and Directions of the National, Special and the Competent Regional Frameworks for Spatial Planning and Sustainable Development

5.2.1.1 General Framework of Spatial Planning and Sustainable Development

The purpose of the General Framework for Spatial Planning and Sustainable Development (GFSPSD) (GG. 128/A/03.07.2008) is the determination of strategic directions for spatial development and sustainable organisation of the national space for the next 15 years.

The GFSPSD encourages energy interconnection and provides guidance for the construction of natural gas transmission infrastructure.

Specifically, according to the GFSPSD:




Preface III par. A. (2)

"The geographical location of the country provides advantages of cooperation in the fields of economy, transport, energy, etc. with countries of the broader region (Balkans, Black Sea countries, Russia, Middle East). Despite the problems and tensions in some countries in the region, the general developments favour the cooperation and promise more favourable conditions in the future."

And in addition to the directions for energy planning:

Art. 6 B1 par. c (d)

B.1. General directions for energy

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN REV. : 00 PAGE : 67 OF 114

"For the energy sector the following is sought: [...]"

(d) the strengthening of the international role of our country as a centre of transmission of electricity, natural gas and oil"

5.2.1.2 Regional Framework for Spatial Planning and Sustainable Development

The Project passes through the regions of Crete, Peloponnese, Western Greece and Epirus. The applicable regional frameworks are presented below.

5.2.1.2.1 Regional Framework for Spatial Planning and Sustainable Development of the Region of Crete

The Regional Framework for Spatial Planning and Sustainable Development (RFSPSD) of the Region of Crete (Reg. no. 42284/2017, Government Gazette 260/AAP/2017) does not provide explicit provisions for implementing Natural Gas transfer projects and the construction of accompanying facilities in Crete. However, it envisages the creation of three energy nodes in Atherinolakkos, Korakias in Heraklion and in Xylokamara in Chania.




In particular, Article 7 provides for the modernisation / upgrade of the Atherinolakkos energy node, whilst article 15 states that:

"...the principle of concentrated development of land uses and activities in the area (solid city, off-plan construction, tourism development, BEPE, etc.), is promoted. The desired concentration of facilities for energy production – for sale and not for self-production – in the context of the interaction proposals to the above design is treated as desirable land use, within 'broad search zones' for the installation of the specific activity, but without excluding the installation of RES units in areas outside the 'broad search zones'".

The location of the compressor station in the area of Atherinolakkos in Crete is therefore considered compatible with the provisions of the RFSPSD of Crete.

5.2.1.2.2 Regional Framework for Spatial Planning and Sustainable Development of the Region of Peloponnese

The RFSPSD of Peloponnese (Reg no. 25294 / Government Gazette 1485/B/10-10-2003) does not provide explicit provisions for the implementation of NG transfer projects and the construction of accompanying facilities in Peloponnese. However, it provides the following (par. 3.5.2):

	<p style="text-align: center;">EASTMED PIPELINE PROJECT</p> <p style="text-align: center;">EastMed Greek Section – Environmental and Social Impact Assessment</p>	<div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="border: 1px solid black; padding: 2px;"> DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN REV. : 00 PAGE : 68 OF 114 </div>
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- The expansion of the use of NG to meet long-term development goals and balanced development of the region is considered necessary;
- In the initial phase, a NG pipeline is proposed to cover the supply of the 6 major urban centres (Corinth, Argos-Nafplio, Tripoli, Sparta, Kalamata) and the productive concentrations along its route up to the Corinth-Patras axis; and
- Covering the energy deficit with energy imports from neighbouring countries through the future Trans-European Networks is also considered a certainty.

Long-term goals are set in the revision and specialisation of the RFSPSD include, due mainly to the geographical location of the region, possible entry of NG in the region from Israel, Cyprus and Crete, as well as the electric interconnection with the submarine cable from Crete, which would render the region an energy node at the national and Pan-European levels.

As such, the Project is in compliance with Peloponnese's regional planning.

5.2.1.2.3 Regional Framework for Spatial Planning and Sustainable Development of the Region of Western Greece

The approved RFSPSD of Western Greece (Reg. No. 25297 / Government Gazette 1470/B/9-10-2003) does not provide explicit special provisions for implementation of NG transfer projects and the construction of accompanying facilities in the wider region of Western Greece. However, in Article C 3.3, par. 2 e, the following is provided:

- Interconnection of the region with the NG network;
- Development of soft - renewable energy sources with respect for the protection of natural and cultural heritage; and
- Energy saving with appropriate measures.




The revision and specialisation of the RFSPSD it states:

" Section D.2. The strategic priority areas of the revised RFSPSD are as follows:

Special emphasis is given to the extensive utilisation of energy potential

(Arrival of natural gas, utilisation of expected hydrocarbon deposits, etc.) and renewable energy sources in the area (photovoltaic, wind farms, utilisation of water potential, biomass)".

As such, the Project is in compliance with Western Greece regional planning.

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5.2.1.2.4 Regional Framework for Spatial Planning and Sustainable Development of the Region of Epirus

The RFSPSD of Epirus (Reg. No. YPEN/DXORS/78523/1208, 28/11/2018) is fully compatible with implementation of the EastMed Pipeline Project. Specifically, Article 11, Spatial Structure of the Basic Technical Infrastructure Networks, states the following:

“The main directions of the Epirus Regional Spatial Planning regarding infrastructure related to the energy sector concern:

- *The exploration and possible exploitation of hydrocarbons as an activity with potentially significant developmental aspects;*
- *The compatibility of the new HydroElectric Infrastructure with the approved Water Management Plan;*
- *The promotion of the use of NG for urban or productive use either through connection to gas pipeline systems or through the utilisation of decentralised use technologies;*
- *The investigation of the connection of the region with NG pipelines promoted at the level of transnational agreements (**Poseidon and EastMed**). The impact of pipeline construction on existing uses and planned social and technical infrastructure projects should be taken into account and the environmental impact of their construction and operation in transit zones should be reduced as far as possible.”*




5.2.1.3 Special Frameworks for Spatial Planning and Sustainable Development

Special Frameworks for Spatial Planning and Sustainable Development (SFSPSD) are specialised, tailor-made spatial plans drafted in order to host plans, projects or programs of supra-local or strategic importance or organised receptors.

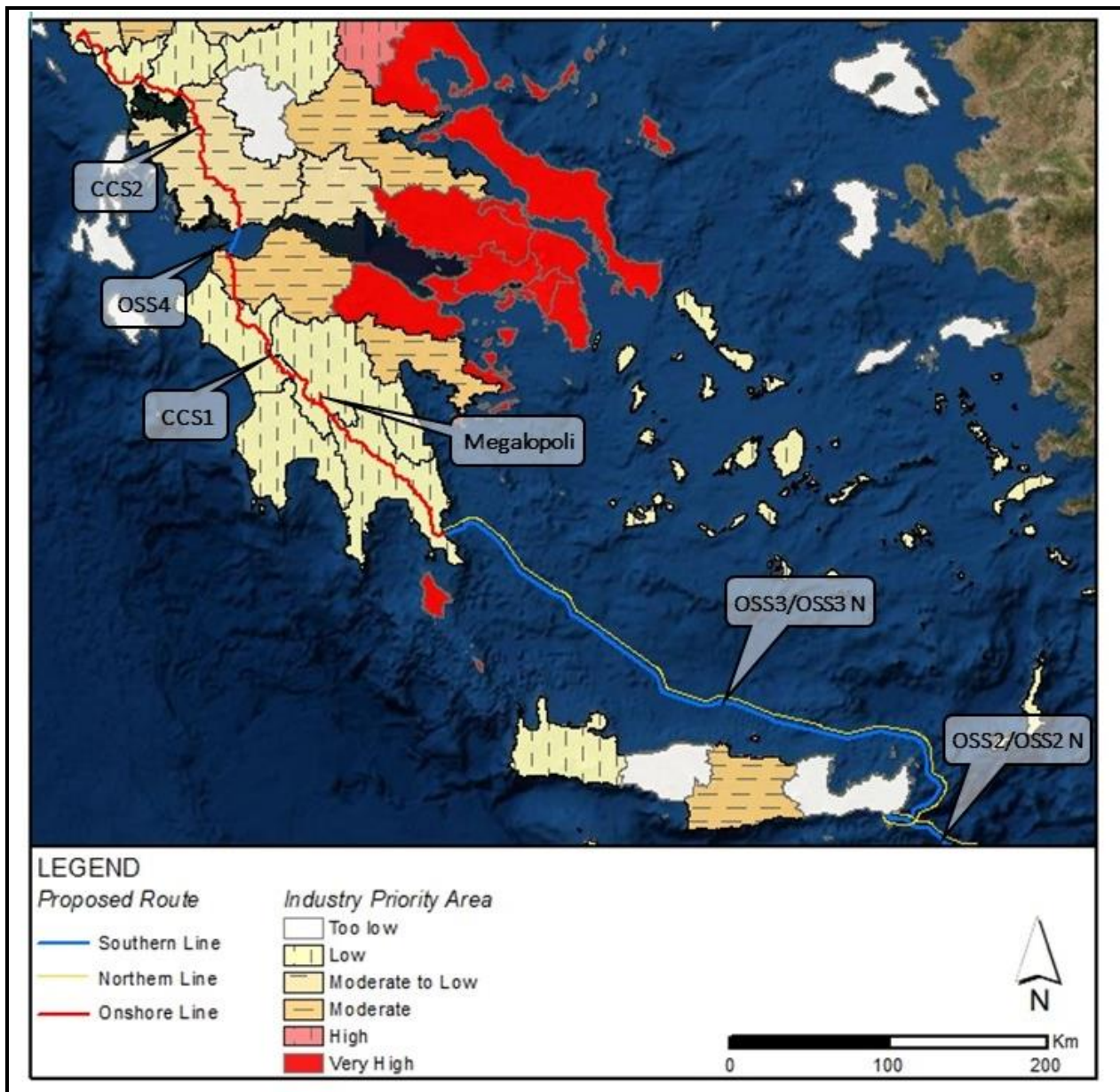
A detailed presentation of Project compliance with the SFSPSD of the study area is presented below.

5.2.1.3.1 SFSPSD for Industry

In 2009, the SFSPSD for Industry was issued (HGG AAP 151/2009) identifying, among others, priority classes for exercising of spatial policy for industry, reflecting strong existing industry, trends for industrial development or planned industrial development. These areas are identified at the Regional Unit level. The class “General priority of exercising spatial policy for processing” defines the level of priority for exercising spatial policy for industry, based on the following classification of priority: too low (0.5-), low (0.5), low to moderate (1.0), moderate (1.5), high (2.0 and 2.5), very high (3.0).




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EastMed is crossing mainly R.U. of low priority for industry (Laconia, Arcadia, Ilia, Arta, and Preveza) and to a lesser extent R.U. of low to moderate (Aetoloakarnania and Thesprotia), moderate (Achaia) and too low (Lasithi) (Figure 5-1).



Prepared by: ASPROFOS, 2022. Data based on SFSPSD for Industry - HGG B'151/2009.

Figure 5-1 Project's Compatibility with SFSPSD for Industry

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
		PAGE :	71 OF 114

5.2.1.3.2 SFSPSD for Tourism

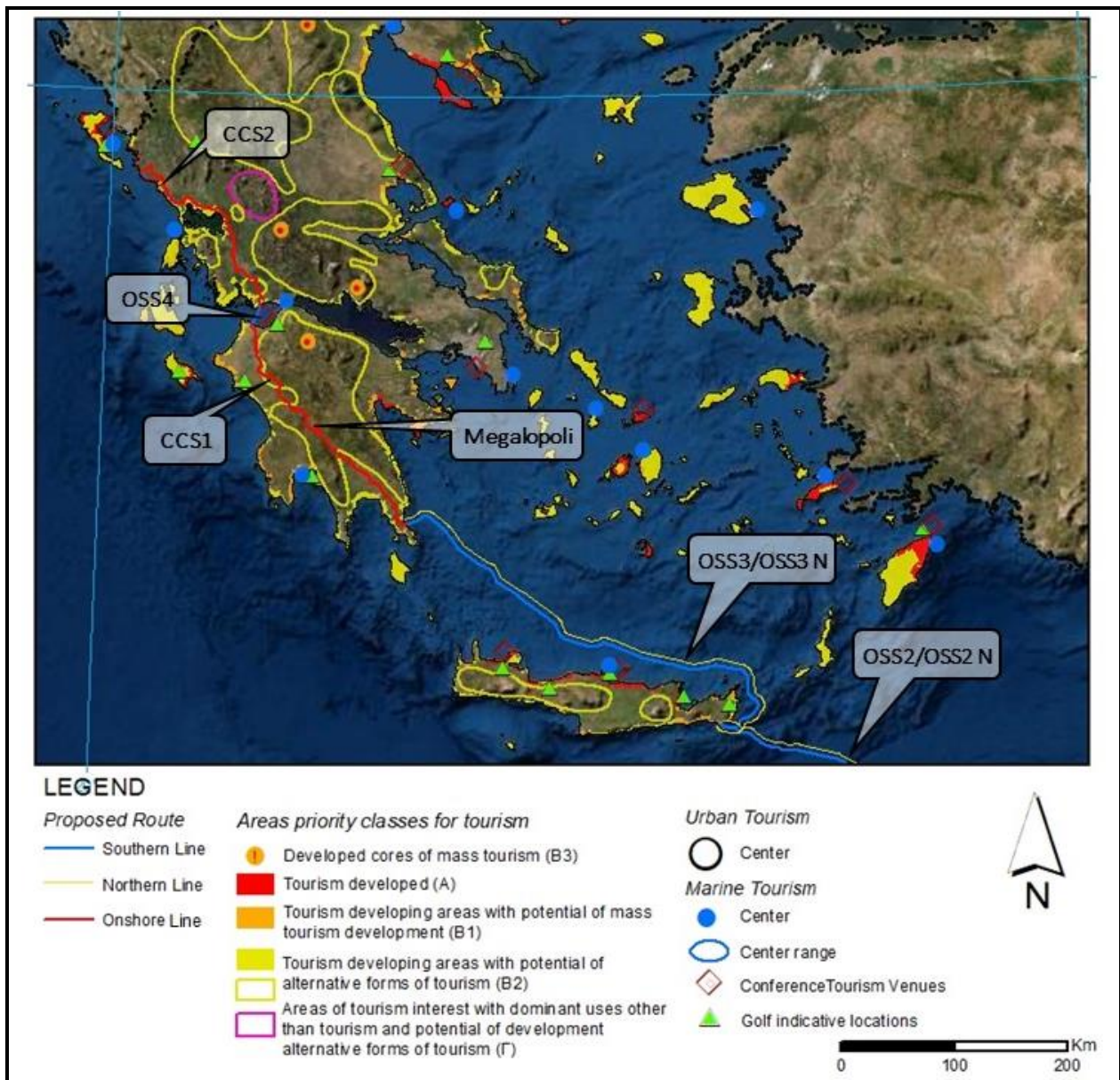
In 2009, the SFSPSD for Tourism was issued (HGG B'1138/2009) identifying, among others, areas already developed or with the potential of development for various forms of tourism. Specifically, national territory is classified to the following categories based on the size and intensity of tourist activity, geomorphology and sensitivity:

- Tourism Developed (A): these areas have acknowledged tourism identity and reputation, high mass tourism concentration, increased likelihood of economic revenue from tourism decrease, high level of correlation between the local economy and tourism;
- Tourism Developing (B): these areas are characterised by concentration of special natural and cultural environment resources and remarkable development of tourist activities (case by case). They are further classified to:
 - Areas with development potential for mass tourism (B1),
 - Areas with development potential for alternative tourism (B2),
 - Developed cores of mass tourism within broader tourism developing areas with potential for alternative tourism (B3);
- Areas of tourism interest with dominant uses other than tourism and potential to develop alternative forms of tourism: these areas are characterised by dominant use other than tourism, host some elements of tourist attraction (natural or cultural) which are not exploited, potential for complementary tourist activity to enhance other – dominant – uses and activities, low level of tourist infrastructure;
- Metropolitan areas (Athens and Thessaloniki);
- Coastal areas and Islands;
- Mountainous areas;
- Plains and semi-mountainous areas;
- Natura2000 sites and other environmental protected areas;
- Traditional settlements; and
- Cultural heritage and monuments.

Regarding the geographical extent of the Project, the following are noted:

- Crete: the SE coasts of Crete, where the Project is sited, are characterised as area with development potential for mass tourism (B1);
- Peloponnese: the SE coasts of Peloponnese are characterised as areas with development potential for alternative tourism (B2). The same applies for the biggest section of CCS1 in the Peloponnese area; and

- Western Continental Greece (Western Greece and Epirus): The southern and central coasts (up to Amvrakikos Gulf) are characterised as areas with development potential for alternative tourism (B2). Further to the north, coastal areas are characterised as areas with development potential for mass tourism (B1) whilst the coast of Epirus as developed tourism areas.



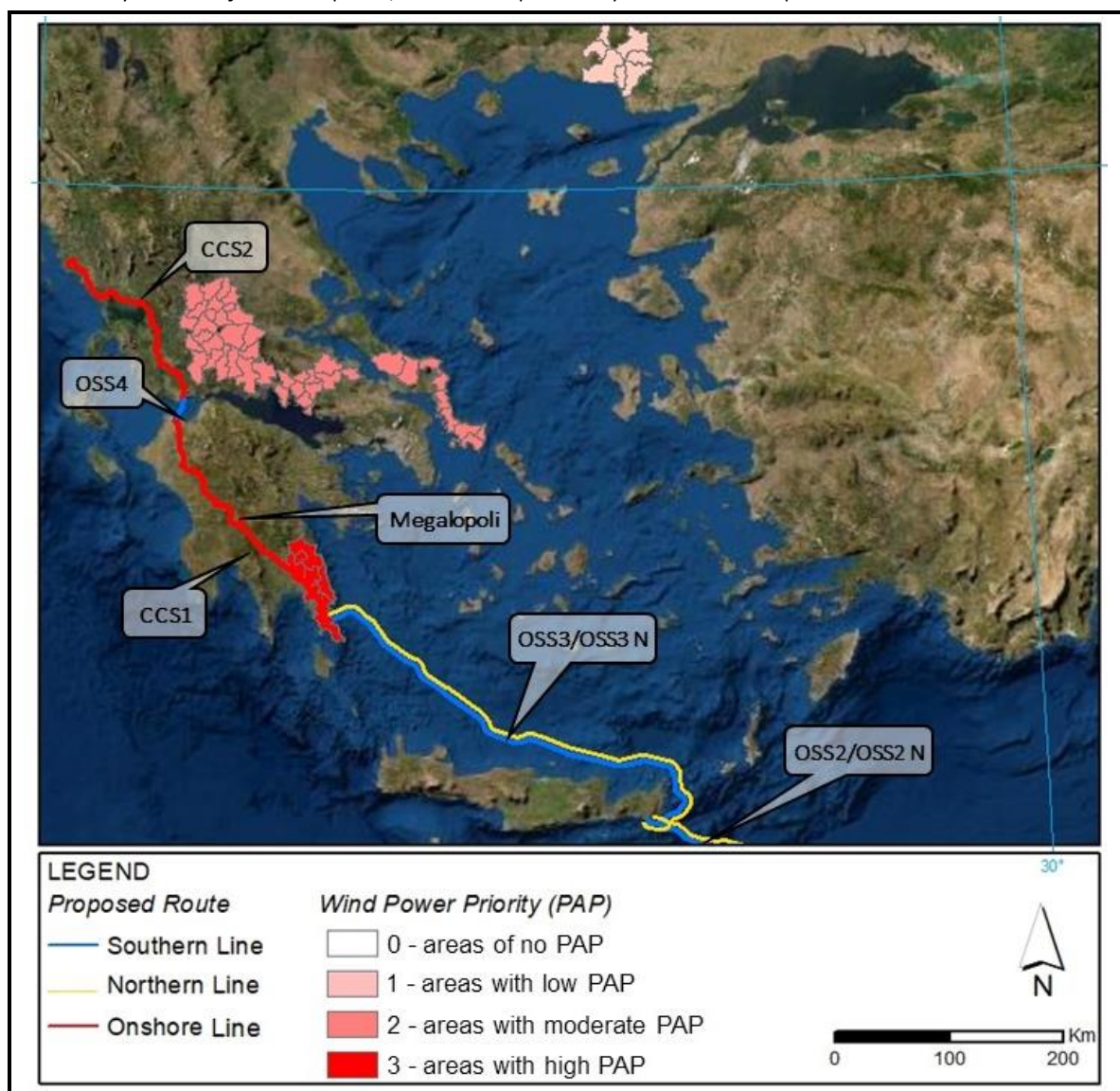
Prepared by: ASPROFOS, 2022. Data based on SFSPSD for Tourism - HGG B'2464/2008.

Figure 5-2 Project's Compatibility with SFSPSD for Tourism.

5.2.1.3.3 SFSPSD for Renewable Energy Sources

In 2008, the SFSPSD for Renewable Energy Sources was issued (HGG B'2464/2008) identifying, among others, Areas of Wind Power Priority (PAP). These areas were characterised as priority areas given their wind power potential and capacity and spatial development objectives.

EastMed is crossing PAP 3 (areas with the highest priority for wind power) with a total (indicatively) capacity of 955 MWe, through (indicatively) 478 typical wind farms (Figure 5-3). Although these areas are crossed by the Project footprint, no incompatibility issues are expected to occur.



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	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 74 OF 114




Figure 5-3 Project's Compatibility with SFSPSD for RES.

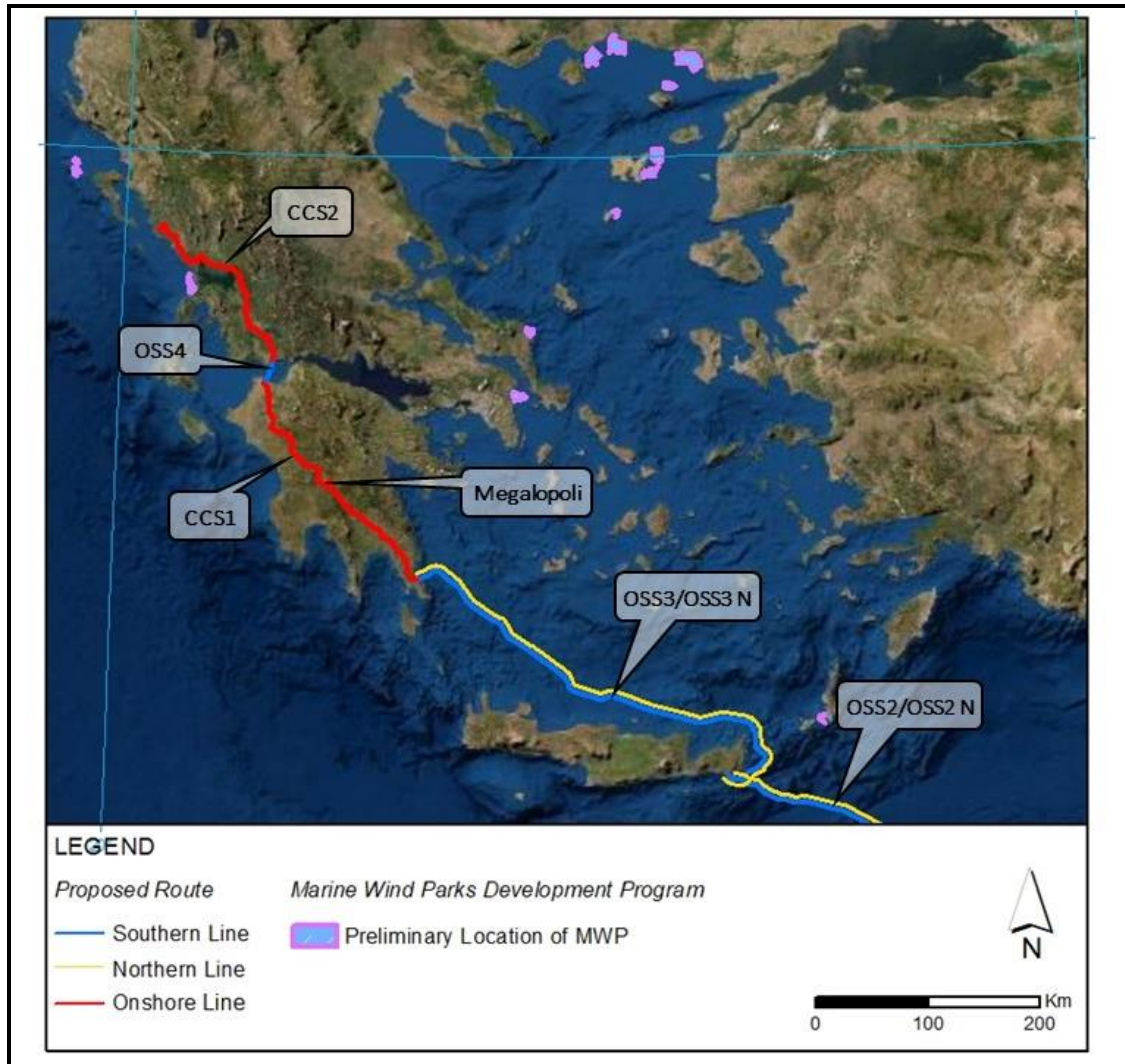
5.2.1.3.4 Special Frameworks for Maritime Spatial Planning

At the time this report was developed, marine spatial planning was being prepared, and no details are available.

5.2.1.3.5 Preliminary Location of Marine Wind Parks

This is a draft preliminary design for the marine wind parks (MWP) development program. According to this preliminary design, no development areas of marine wind parks are located in the study area (Figure 5-4).

	<p style="text-align: center;">EASTMED PIPELINE PROJECT</p> <p style="text-align: center;">EastMed Greek Section – Environmental and Social Impact Assessment</p>	<div style="display: flex; justify-content: space-between; align-items: center;">   </div> <div style="display: flex; justify-content: space-between;"> <div> <p>DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN</p> <p>REV. : 00</p> <p>PAGE : 75 OF 114</p> </div> </div>
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Prepared by: ASPROFOS, 2022. Data based on Centre for Renewable Energy Sources, 2015 (www.cres.gr) .

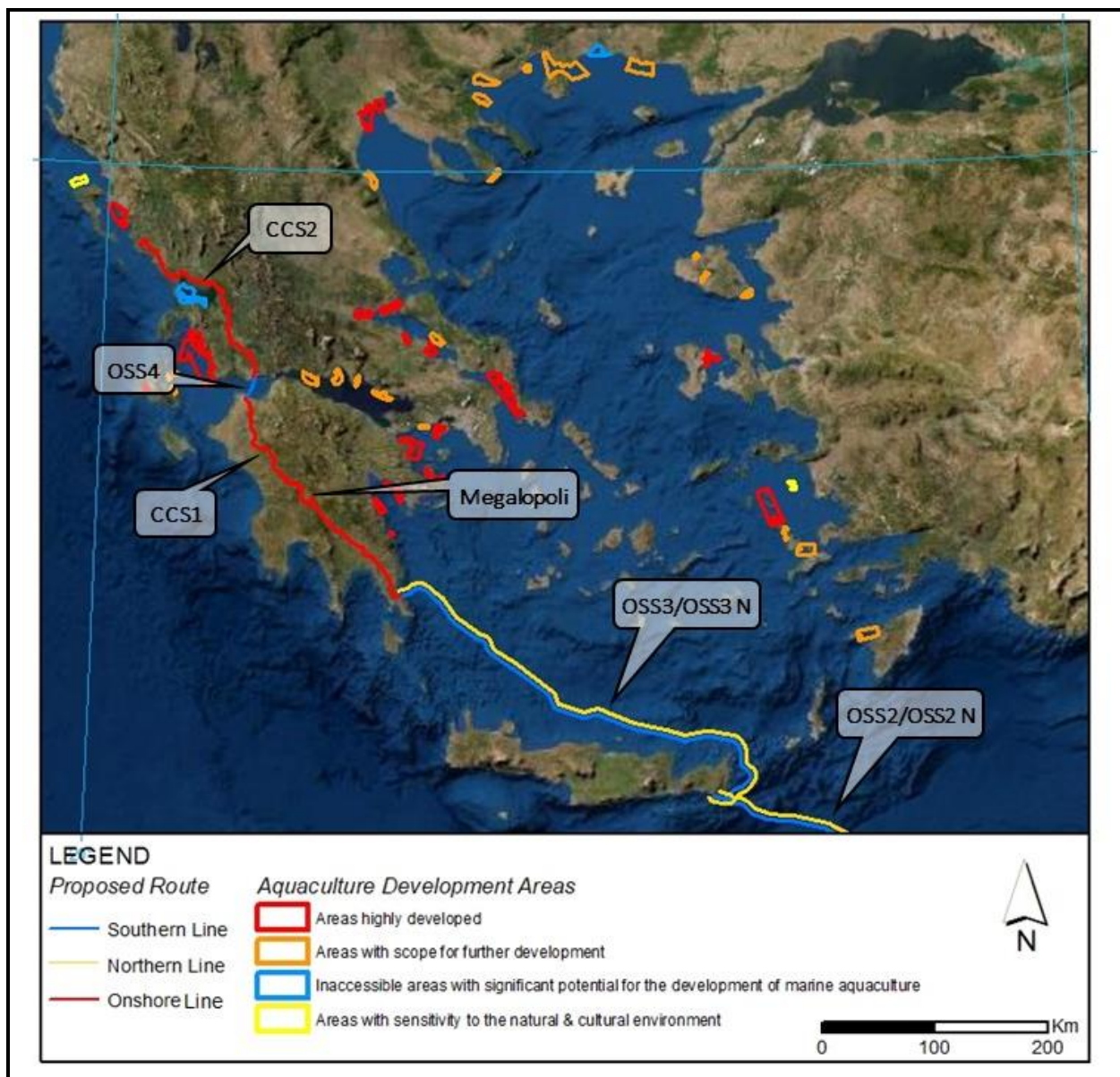
Figure 5-4 Preliminary Location of Marine Wind Parks.

5.2.1.3.6 SFSPSD for Aquaculture

In 2011, the SFSPSD for Aquaculture was issued (HGG B'2505/2011) identifying, among others, areas for aquaculture development. These are marine areas that meet specific characteristics for development of aquaculture. In these areas, aquaculture farms/units are located in: (a) organised receptors (areas of formal concentration of aquaculture farms/units), (b) areas of informal concentration of aquaculture farms/ units, and (c) stand alone.

No aquaculture development areas are located within the Study Area (Figure 5-5).

	<p style="text-align: center;">EASTMED PIPELINE PROJECT</p> <p style="text-align: center;">EastMed Greek Section – Environmental and Social Impact Assessment</p>	<div style="display: flex; justify-content: space-between; align-items: center;">   </div> <div style="display: flex; justify-content: space-between;"> <div> <p>DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN</p> <p>REV. : 00</p> <p>PAGE : 76 OF 114</p> </div> </div>
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Figure 5-5 Project's Compatibility with the SFSPSD for Aquaculture.

5.2.2 Institutional Status According to the Approved Plans

As indicated in section 5.1.1, the EastMed Pipeline Project mainly passes through areas outside the urban plans and in general through private farmland or public/private forest land. A detailed presentation of the land use characterisation is shown in the following table (Table 5-10).

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 77 OF 114

It is pointed out that there are no institutionalised Housing Control Zones (ZOE)¹¹ in the study area. The boundaries of settlements and city plans and their correlation with the Project are analysed in Section 5.1.1.

¹¹ Zone, outside the building plan, which is defined by a Presidential Decree, issued by authorization of Law 1337/1983 and concerns the delimitation and determination of land uses, with simultaneous determination of the terms and restrictions of all types of permitted interventions.

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 78 OF 114

Table 5-10 Compliance with Official Land Use Characterisation

Municipality	Section	Spatial Correlation (indicative locations)	Source of GTP/SXOOAP*	Designed Land Use	Short Description	Project's compliance
Sitia	Crete	All Facilities	GG 539/AAP/ 21-10-2009	Agricultural Land Zone - Π.2.4.4	<p>The following restrictions are laid down:</p> <ul style="list-style-type: none"> • Mining activities are not allowed; • Livestock and poultry facilities of medium and high nuisance are not allowed; • Highly disturbing industrial and craft installations are not allowed; and • PERPO installation is not allowed. 	*In compliance with the Project.
Sitia	Crete	Entire pipeline routes		Off-Plan Zone - Π.2.4.6	Highly disturbing industrial and craft installations are not allowed. RES facilities are excluded from this restriction.	*In compliance with the Project.
Monemvasia	CCS1	LF3 – KP 1	GG 231/AAP/2013 & GG 252/AAP/2017	ΠΕΠΔ 6: "Coastal zone"	Development of mild forms of tourism - recreation, the protection of the landscape and the prohibition of incompatible uses.	**In compliance with the Project.
Monemvasia	CCS1	KP 1 – KP 9 (Elliniko settlement)		ΠΕΠ3: Areas of Special Environmental Protection	Special Protection Zones for identified environmentally sensitive areas in need of protection.	**In compliance with the Project.

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 79 OF 114


Municipality	Section	Spatial Correlation (indicative locations)	Source of GTP/SXOOAP*	Designed Land Use	Short Description	Project's compliance
Monemvasia	CCS1	KP 9 (Elliniko settlement) – KP 17		ΠΕΠΔ5: Ecotouris	Areas that will connect the visitor-tourist with local agricultural production and in general with the natural and cultural environment.	**In compliance with the Project.
Monemvasia	CCS1	KP 17 – KP 19 (Agios Nikolaos settlement)		ΠΕΠ4: Areas of Special Environmental Protection	Special Protection Zones for identified environmentally sensitive areas in need of protection.	**In compliance with the Project.
Monemvasia	CCS1	KP 20 – KP 22		ΠΕΠΔ2: Protection of Agricultural Land and Natural Environment	Special Transition Zones from rural areas to the areas of remarkable natural environment and special aesthetic value. They aim at the most effective protection of “ΠΕΠ”s through land use control, agricultural land protection and restriction of the scattered residential development.	*In compliance with the Project.
Monemvasia	CCS1	KP 19 (Agios Nikolaos settlement) - KP 20 and KP 22 – KP 26		ΠΕΠΔ3: Protection and Promotion of Agricultural Activities	Areas of agricultural land with a predominantly rural character.	**In compliance with the Project.

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 80 OF 114

Municipality	Section	Spatial Correlation (indicative locations)	Source of GTP/SXOOAP*	Designed Land Use	Short Description	Project's compliance
Sparti	CCS1	KP 102 – KP 105	Preliminary SXOOAP	ΠΕΠΔ2: Protection of Rural Landscape and Agricultural Activities	Areas of controlled development outside urban plan and the boundaries of the settlements of Mystras M.U. Specific restrictions are laid down on land uses and building regulations to maintain the special characteristics of each spatial unit.	**In compliance with the Project.
Megalopoli	Megalopoli's Branch	KP 9 - End	GG 208/Δ/1969& GG 252/ΑΑΠ/2014	>200 m Outside Town Plan boundaries >700 Outside Development Area limits	-	***In compliance with the Project.
Agrinio	CCS2	KP 37 – KP 56 (R. Acheloos) and KP 57 – KP 65 (Lepenou settlement)	GG 14/ΑΑΠ/2013	ΠΕΠΔ 1: "First priority (or high productivity) agricultural land protection zone"	Exclusive agricultural land areas.	**In compliance with the Project.

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 81 OF 114

Municipality	Section	Spatial Correlation (indicative locations)	Source of GTP/SXOOAP*	Designed Land Use	Short Description	Project's compliance
Agrinio	CCS2	KP 56 (R. Acheloos) – KP 57	GG 14/ΑΑΠ/2013	ΠΕΠ 2: Lysimachia Lake and Achelous river protection zones	Peripheral Zone ΠΠ1 of Messolonghi-Aetoliko Lagoon National Park, downstream and estuaries of Acheloos and Evinos rivers and Echinades islands. (See Section 5.1.2).	**In compliance with the Project.
Preveza	CCS2	Louros river - KP 160	GG 185/ΑΑΠ/2012	ΠΕΠ 5: Amvrakikos Gulf Nature Protection Area "Zone A"	Specific restrictions are laid down on land uses and building regulations.	**In compliance with the Project.
Preveza	CCS2	KP 160 – KP 161 and KP 162 – KP 165 and KP 167 – KP 168	GG 185/ΑΑΠ/2012	ΠΕΠ 6: Special Protection Area - Zone B Area of Special Amvrakikos Gulf Protection Regulations. (GG 123/Δ/2008)	Specific restrictions are laid down on land uses and building regulations.	**In compliance with the Project.

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 82 OF 114

Municipality	Section	Spatial Correlation (indicative locations)	Source of GTP/SXOOAP*	Designed Land Use	Short Description	Project's compliance
Preveza	CCS2	KP 161 – KP 162 and KP 169 – KP 170	GG 185/ΑΑΠ/2012	ΠΕΠΔ 1: High Productivity Agricultural Land Protection and Promotion Area	Environmental protection terms and restrictions. <ul style="list-style-type: none"> The fragmentation of agricultural land is not allowed; and The installation of RES power generation projects is not allowed. 	**In compliance with the Project.
Preveza	CCS2	KP 165 – KP 167 and KP 168 – KP 169 and KP 170 – KP 172	GG 185/ΑΑΠ/2012	ΠΕΠΔ 2: Area of Functional Protection and Promotion of Rural Landscape	Areas of agricultural land with a predominantly rural character. Specific restrictions are laid down on land uses and building regulations.	**In compliance with the Project.
Preveza	CCS2	KP 172 – KP 174	GG 417/ΑΑΠ/2009 and GG 153/ΑΑΠ/2010	ΖΕΠΔ 1: Building control and restriction zone – Area of Protection and Promotion of High Productivity Agricultural Land	Areas of agricultural land with a predominantly rural character. Specific restrictions are laid down on land uses and building regulations.	**In compliance with the Project.
Preveza	CCS2	KP 174 – KP 179 and KP 185 – KP 189	GG 417/ΑΑΠ/2009 and	ΖΕΠΔ 2: Building control and restriction zone	Areas of agricultural land with a predominantly rural character. Specific restrictions are laid down on land uses and building regulations.	**In compliance with the Project.

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 83 OF 114

Municipality	Section	Spatial Correlation (indicative locations)	Source of GTP/SXOOAP*	Designed Land Use	Short Description	Project's compliance
			GG 153/ΑΑΠ/2010			
Preveza	CCS2	KP 179 – KP 185	GG 417/ΑΑΠ/2009 and GG 153/ΑΑΠ/2010	ΠΕΠΑ:Area of Special Protection	The protection of nature and the landscape is pursued. Specific restrictions are laid down on land uses.	**In compliance with the Project.
Preveza	CCS2	KP 193 – KP 194	GG 417/ΑΑΠ/2009 & GG 153/ΑΑΠ/2010	ΠΕΠΑκ: Area of Special Protection	Sub-zone of “ΠΕΠ”. The terms and restrictions of the ΠΕΠΑ zone apply. In addition, poultry – livestock units and olive mills, are not allowed.	**In compliance with the Project.
Preveza	CCS2	KP 193 – KP 194 and KP 203 – KP 204	GG 451/ΑΑΠ/2007& GG 153/ΑΑΠ/2010	ΠΕΠΔΒ3.5 2 Α:Areas outside the urban plans	The installation of poultry – livestock units is not allowed.	**In compliance with the Project.
Preveza	CCS2	KP 189 – KP 193	GG 451/ΑΑΠ/2007 and GG 153/ΑΑΠ/2010	ΠΕΠΔΒ3.5 2 Β:Areas outside the urban plans	The installation of poultry – livestock units is allowed.	**In compliance with the Project.

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 84 OF 114

Municipality	Section	Spatial Correlation (indicative locations)	Source of GTP/SXOOAP*	Designed Land Use	Short Description	Project's compliance
Preveza	CCS2	KP 193 – KP 194 and KP 196 – KP 197 and KP 199 – KP 200 and KP 201 – KP 202	GG 451/ΑΑΠ/2007 and GG 153/ΑΑΠ/2010	ΠΕΠΔΒ3.1 4.A: Land Reclamation Zone	Areas of agricultural land with a predominantly rural character. The installation of poultry – livestock units is not allowed.	**In compliance with the Project.
Preveza	CCS2	KP 194 – KP 196 and KP 197 – KP 199 and KP 200 – KP 201 and KP 202 – KP 203	GG 451/ΑΑΠ/2007 and GG 153/ΑΑΠ/2010	ΠΕΠΔΒ3.1 4.B: Land Reclamation Zone	Areas of agricultural land with a predominantly rural character. The installation of poultry – livestock units is allowed.	**In compliance with the Project.
Preveza	CCS2	KP 196 – KP 197	GG 451/ΑΑΠ/2007 and GG 153/ΑΑΠ/2010	ΠΕΠΒ2.2 3Α: Acheron River environmental protection areas	Urban development is not allowed. Specific restrictions are laid down on land uses.	**In compliance with the Project.
Preveza	CCS2	KP 196 – KP 197	GG 451/ΑΑΠ/2007 and	ΠΕΠΒ2.1 1.A: Archaeological	Urban development is not allowed. Specific restrictions are laid down on land uses	**In compliance

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 85 OF 114




Municipality	Section	Spatial Correlation (indicative locations)	Source of GTP/SXOOAP*	Designed Land Use	Short Description	Project's compliance
			GG 153/ΑΑΠ/2010	sites – monuments		with the Project.
Preveza	CCS2		GG 451/ΑΑΠ/2007& GG 153/ΑΑΠ/2010	ΠΕΠΔΒ3.5 11 Α:Areas outside the urban plans	The construction of buildings is not allowed due to proximity of high and/or extra high voltage transmission lines.	**In compliance with the Project.

*The GTP/SXOOAP (General Town Plan/ Open City Spatial and Housing Organisation Plans) does not exclude, explicitly, the implementation of projects of national importance from its provisions. It is noted that the area is not designated as High Productivity Agricultural Land which has advanced protection status; simply agricultural land. According to Art. 56 of L. 2637/1998, as amended, in High Productivity Agricultural Lands, projects of NG transmission and distribution systems are allowed and excluded from any prohibitions, as well as in case of Strategic Investments of L. 3894/2010. The Project is a NG (and/ or hydrogen) transmission project characterised as a PCI and a project of national importance. Thus, it is only reasonable to assess that, since the Project would be allowed in a High Productivity Agricultural Land, it is eligible to be constructed within agricultural land (of lower protection status).

**In accordance with the provisions of Article 6 "General and transitional provisions - Morphological Terms" page 3081, left column, "Installations and networks of energy distribution, telecommunications, water supply, sewerage, meteorological, geodynamic and related data stations and receiver installations are allowed in all areas, provided that they are not prohibited by other provisions hereof, and provided that the required environmental licensing procedures are followed and do not create disturbances to the environment. Especially in the "ΠΕΠ" of Archaeological Sites and Monuments, the burial of the energy distribution networks and telecommunications is required".

***According to MD Δ3/Α/οικ. 4303 ΠΕ 26510/2012 - Technical regulation on NG pipelines with maximum pressure operation above 16 bar, there are no restrictive conditions, in terms of the structure of the built environment for any residential area at a distance greater than 200 meters from the pipeline's axis.

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	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN REV. : 00 PAGE : 86 OF 114

5.2.3 Special Management Plans

5.2.3.1 Waste Management Plans

The National Waste Management Plan (Εθνικό Σχέδιο Διαχείρισης Αποβλήτων–“ESDA”) and the National Strategic Plan for the Prevention of Waste Generation were approved by the Council of Ministers Act 49 of 15.12.2015 "Amendment and approval of the National Waste Management Plan (ESDA) and the National Strategic Plan for the Prevention of Waste Generation ratified by 51373/4684/25.11.2015 joint decision of the Ministers of Interior and Administrative Reconstruction and Environment and Energy, according to article 31 of Law no. 4342/2015". The ESDA sets out the strategy, policies, objectives and actions for waste management at the national level by 2020.

At the regional level, Regional Waste Management Plans are approved tailoring the strategies, policies, objectives and actions for each region.

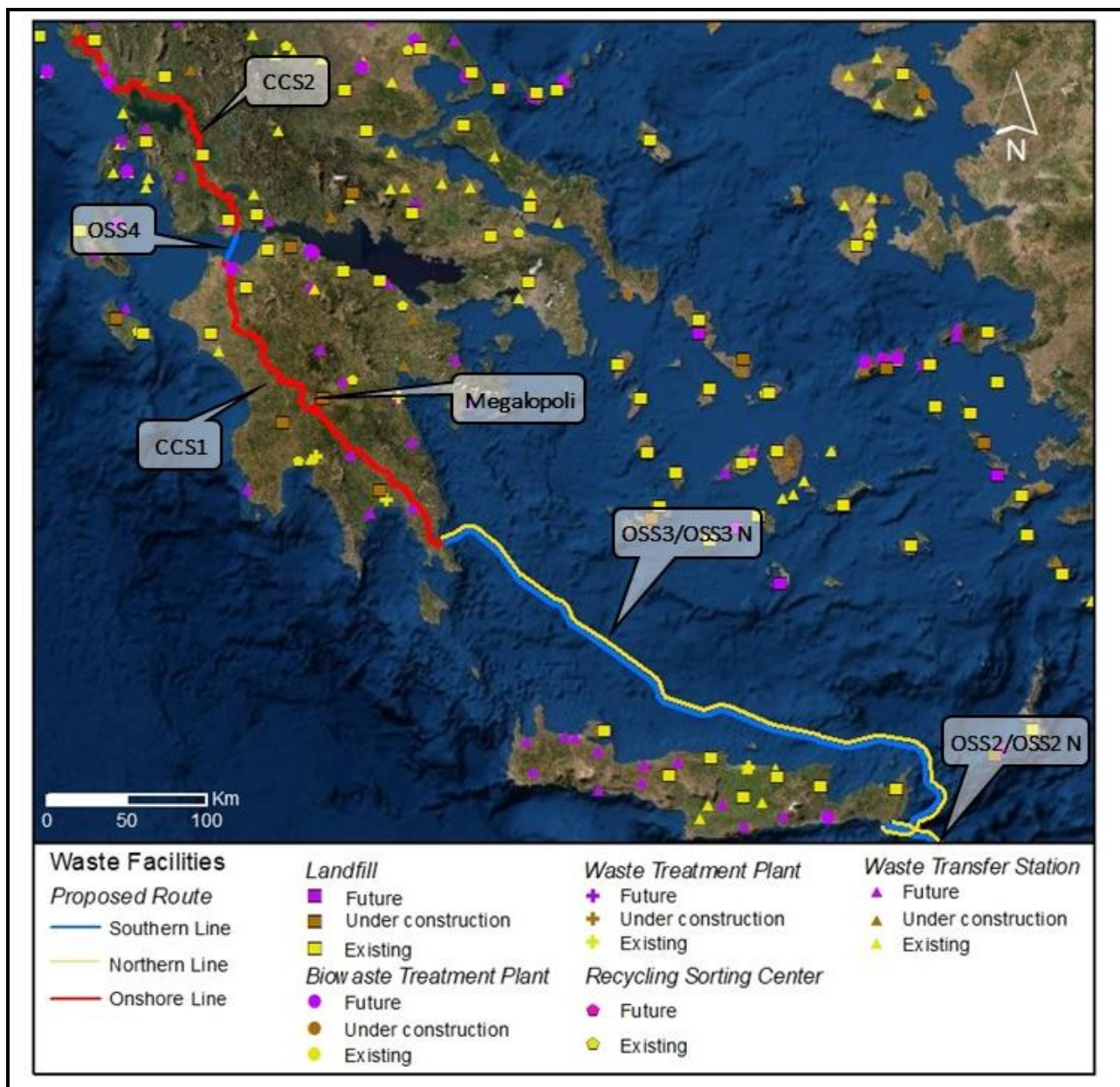
In the Region of Crete, waste management is carried out in application of the Regional Waste Management Plan (PESDA) of the Region of Crete, which was approved with the no. 44014/4028/2016 Joint Ministerial Decision of the Ministers of Environment and Energy and Interior and Administrative Reconstruction (Government Gazette 3196/B/2016).

In the Region of Peloponnese, solid waste management is carried out in application of the PESDA of the Region of Peloponnese, which was approved with the no. oik. 27716/1612/2017 Joint Ministerial Decision of the Ministers of Environment and Energy and Interior (Government Gazette 2044/B/2017 and Government Gazette 2099 /B/2017).

In the Region of Western Greece, solid waste management is carried out in application of the PESDA of the Region of Western Greece, which was approved with the no. oik. 61491/5301/2016 Joint Ministerial Decision of the Ministers of Environment and Energy and Interior (Government Gazette 4175/B/2016).

In the Region of Epirus, solid waste management is carried out in application of the PESDA of the Region of Epirus, approved with no. oik. 44015/4029/2016 Joint Ministerial Decision of the Ministers of Environment and Energy and Interior and Administrative Reconstruction (Government Gazette 3196/B/2016).

Figure 5-6 illustrates existing and proposed solid waste management facilities according to the relevant PESDAs.






Prepared by: ASPROFOS, 2022. Data source <http://wasteatlas.diktiofodsa.gr/>

Figure 5-6 Waste Management Facilities in Greece

The solid waste management facilities within the study area are presented in the following table.

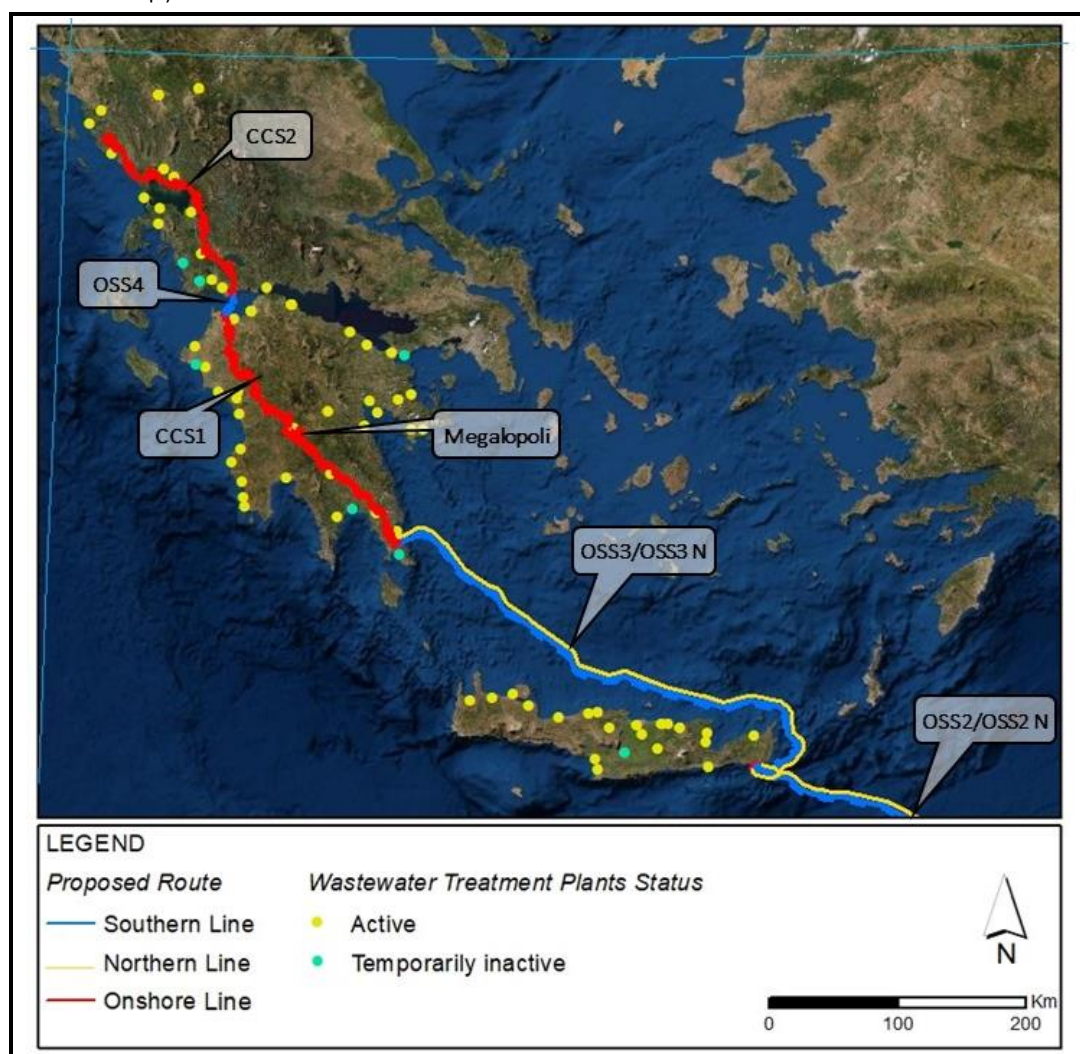
Table 5-11 Solid Waste Management Facilities within the Study Area.

 IGI Poseidon	EASTMED PIPELINE PROJECT	 ERM		 Asprofos engineering	
	EastMed Greek Section – Environmental and Social Impact Assessment	DOCNo: PERM-GREE-ESIA- 0005_0_ESIAch05-EN			
		REV. :		00	
		PAGE :		88 OF 114	

Type	Name	Section	Status	Approximate Distance (km)
Landfill	XYTA Stratou	CCS2-West Greece	Existing	0.90
Biowaste Treatment Plant	MEVA Prevezas	CCS2-West Greece	Future	0.70

Prepared by: ASPROFOS, 2022.




Figure 5-7 indicates existing and proposed wastewater treatment plants according to the national and regional plans. Details are provided in the corresponding map (see Section 15.1.6 - Land uses and socioeconomic map).



Prepared by: ASPROFOS, 2022. Data source [European Environment Agency](#)

Figure 5-7 Wastewater Treatment Plants in Greece

No wastewater treatment plants are located within the study area of the EastMed Pipeline Project.

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN REV. : 00 PAGE : 89 OF 114

5.2.3.2 River Basin Management Plans




The Project is located within the following 6 River Basin Districts (RBDs):

- EL13 – Crete;
- EL03 – Eastern Peloponnese;
- EL01 – Western Peloponnese;
- EL02 – Northern Peloponnese;
- EL04 – Western Central Greece; and
- EL05 – Epirus.

The provisions of Directive 2000/60/EC (“Water Framework Directive”) have been incorporated into national legislation with L.3199/2003, as amended and in force, and with Presidential Decree 51/2007. Following the update of the legislation, the revised River Basin Management Plans (Σχέδιο Διαχείρισης Λεκανών Απορροής – “SDLAP”) of the above-mentioned RBDs were approved by the following decisions of the National Water Committee:

- Ref 895/29.12.2017 (GG 4666/B/2017) “Approval of the 1st Revision of the Management Plan of the River Basins of the River Basin District of Crete and of the respective Strategic Environmental Impact Study”;
- Ref 899/29.12.2017 (GG 4674/B/2017) “Approval of the 1st Revision of the Management Plan of the River Basins of the River Basin District of the Eastern Peloponnese and of the respective Strategic Environmental Impact Study”;
- Ref 898/29.12.2017 (Government Gazette 4678/B/2017) “Approval of the 1st Revision of the Management Plan of the River Basins of the River Basin District of the Western Peloponnese and of the respective Strategic Environmental Impact Study”;
- Ref 894/29.12.2017 (Government Gazette 4665/B/2017) “Approval of the 1st Revision of the Management Plan of the River Basins of the River Basin District of the Northern Peloponnese and of the respective Strategic Environmental Impact Study”;
- Ref 901/29.12.2017 (Government Gazette 4681 / B / 2017) “Approval of the 1st Revision of the Management Plan of the River Basins of the River Basin District of Central Greece and of the respective Strategic Environmental Impact Study”; and
- Ref 907/29.12.2017 (Government Gazette 4664/B/2017) “Approval of the 1st Revision of the Management Plan of the River Basins of the River Basin District of Epirus and of the respective Strategic Environmental Impact Study”.

The surface and groundwater bodies (WB) within the study area are presented in the following tables.

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 90 OF 114

Details are provided in Chapter 8 (Section 8.13).

Table 5-12 Surface Water Bodies (SWB) within the Study Area

EastMed Pipeline Project Component	Spatial Correlation (indicative locations)	Crossed	Water Body (WB) Code	Water Body (WB) Name	Category	River Basin District (RBD)	Crossing Length (approx. in m, as interpreted by satellite imagery)	Chemical status	Ecological Status	Environmental objectives by 2021	Compatibility
OSS2/OSS2N	KP 680 - LF2	YES	EL1341C0016N	COASTS OF SOUTHERN CRETAN SEA – LASITHI	Coastal	EL13	2000	Good	Good	No degradation	Yes
OSS3/OSS3N	LF2 - KP 2.5	YES	EL0331C0005N	COASTS OF SOUTHERN PELEPONNESE	Coastal	EL03	2100	Good	Good	Achieve good Ecological and Chemical status	Yes
CCS1	KP 60 (Gouves)	YES	EL0331R000700004N	MARIORREMA P._4	River	EL03	15	Good	Good	Maintain good Ecological and Chemical Status	Yes - minor potential hydromorphological alterations at the crossing point prior to mitigation measures
CCS1	KP 97 (Monasteri of Agioi Tessarakonta)	YES	EL0333R000210030N	OINOUS P._1	River	EL03	40	Good	Good	Maintain good Ecological and Chemical Status	Yes - minor potential hydromorphological alterations at the crossing point prior to mitigation measures
CCS1	KP 101 (Karavas Soustianon settlement)	YES	EL0333R000211040N	EVROTAS P._11	River	EL03	35	Unknown	Good	Exemption Article 4.4 (Deadline extension)	Yes
CCS1	KP 105 – KP 111	NO	EL0333R000211041N	EVROTAS P._12	River	EL03	0	Good	Good	Maintain good Ecological and Chemical Status	Yes - minor potential hydromorphological alterations at the crossing point prior to mitigation measures
CCS1	KP 112 (Kastor settlement)	YES	EL0333R000212042N	KARDARI P.	River	EL03	10	Good	Good	Maintain good Ecological and Chemical Status	Yes
CCS1	KP 111 – KP 127	NO	EL0333R000213043N	EVROTAS P._13	River	EL03	0	Good	Average		
CCS1	KP 128	YES	EL0333R000217049N	EVROTAS P._15	River	EL03	30	Good	Average	Exemption Article 4.4 (Deadline extension)	Yes

EastMed Pipeline Project Component	Spatial Correlation (indicative locations)	Crossed	Water Body (WB) Code	Water Body (WB) Name	Category	River Basin District (RBD)	Crossing Length (approx. in m, as interpreted by satellite imagery)	Chemical status	Ecological Status	Environmental objectives by 2021	Compatibility
Megalopoli's Branch and CCS1	<ul style="list-style-type: none"> Megalopoli: KP 0.5; and CCS1: KP 135 and KP 140 	YES	EL0129R000220055N	KOUNTIFARINA P.	River	EL01	<ul style="list-style-type: none"> Megalopoli: 10; and CCS1: 10 and 35 	Good	Good	Maintain good Ecological and Chemical Status	Yes
Megalopoli's Branch	KP 4.5	YES	EL0129R000221056N	ALFIOS P._12	River	EL01	40	Unknown	Good	Exemption Article 4.4 (Deadline extension)	Yes
CCS1	KP 146	YES	EL0129R000218052N	XERILAS R.	River	EL01	30	Unknown	Good	Exemption Article 4.4 (Deadline extension)	Yes
CCS1	KP 174 – KP 193	NO	EL0129R000213040N	ALFIOS P._7	River	EL01	0	Good	Average	Achieve good Ecological and Chemical status	Yes
CCS1	KP 185	YES	EL0129R000212039N	DIPOTAMO R.	River	EL01	15	Good	Good	Maintain good Ecological and Chemical Status	Yes
CCS1	KP 195 (Pefki settlement)	YES	EL0129R000210037N	ROGOZITIKO R.	River	EL01	10	Good	Good	Maintain good Ecological and Chemical Status	Yes
CCS1	KP 202 – KP 201	NO	EL0129R000209036N	ALFIOS R._5	River	EL01	0	Good	Good	Maintain good Ecological and Chemical Status	Yes
CCS1	KP 202	YES	EL0129R000207020N	ALFIOS R._4	River	EL01	80	Unknown	Average	Exemption Article 4.4 (Deadline extension)	Yes
CCS1	KP 202 – KP 208	NO	EL0129R000208021N	LADON R._1	River	EL01	0	Good	Good	Maintain good Ecological and Chemical Status	Yes
CCS1	KP 204 – KP 211	NO	EL0129R000205010N	ALFIOS R._3	River	EL01	0	Good	Average	Exemption Article 4.4 (Deadline extension)	Yes
CCS1	KP 204	YES	EL0129R000206011N	ERIMANTHOS P._1	River	EL01	130	Inferior to Good	Good	Exemption Article 4.4 (Deadline extension)	Yes
CCS1	KP 234 – KP 241	NO	EL0129R000202104N	LESTENITSAS R._3	River	EL01	0	Good	Good	Maintain good Ecological and Chemical Status	Yes
CCS1	KP 248	YES	EL0228R000204007N	LADON PINIEOS P._2	River	EL02	65	Good	Good	Maintain good Ecological and Chemical Status	Yes

EastMed Pipeline Project Component	Spatial Correlation (indicative locations)	Crossed	Water Body (WB) Code	Water Body (WB) Name	Category	River Basin District (RBD)	Crossing Length (approx. in m, as interpreted by satellite imagery)	Chemical status	Ecological Status	Environmental objectives by 2021	Compatibility
CCS1	KP 261 – KP 263 (Kalyvakia settlement)	NO	EL0228R000203010N	PINIOS P._5	River	EL02	0	Good	Good	Maintain good Ecological and Chemical Status	Yes
CCS1	KP 263 (Kalyvakia settlement)	YES	EL0228R000203009N	PINIOS P._4	River	EL02	25	Good	Good	Maintain good Ecological and Chemical Status	Yes
CCS1	KP 256 – KP 266	NO	EL0228RL00203002H	ARTIFICIAL LAKE OF PINIOS	Lake	EL02	0	Good	Good	Achieve good & quantitative status	Yes
CCS1	KP 263 – KP 271	NO	EL0228R000202005N	VELITSALIKO P.	River	EL02	0	Good	Good	Maintain good Ecological and Chemical Status	Yes
OSS4	LF4 – KP 10	YES	EL0228C0003N	PATRAIKOS GULF	Coastal	EL02	10000	Good	Good	Maintain good Ecological and Chemical Status	Yes
OSS4	KP 10 – LF5	YES	EL0415C0002N	MESSOLOGGI SEA	Coastal	EL04	7000	Good	Good	No degradation	Yes
CCS2	KP 0 – KP 6	NO	EL0420R000201069N	EVINOS P. 1	River	EL04	0	Good	Good	No degradation	Yes
CCS2	KP 9	YES	EL0420R000200070N	EVINOS P. 2	River	EL04	335	Unknown	Good	Determination of chemical status	Yes
CCS2	KP 31 (Agia Marina)	YES	EL0415R000000008N	PLATANIAS R.	River	EL04	30	Good	Average	Exemption Article 4.4 (Deadline extension)	Yes
CCS2	KP 23 (Mt Arakynthos) – KP 40	NO	EL0415L000000004N	LAKE TRICHONIDA	Lake	EL04	0	Good	Good	No degradation	Yes
CCS2	KP 37	YES	EL0415R000202007H	UNION TRENCH	River	EL04	45	Good	Average	Exemption Article 4.4 (Deadline extension)	Yes
CCS2	KP 36 (Zevgaraki settlement) – KP 47 (Airport of Agrinio)	NO	EL0415L000000005H	LAKE LYSIMACHIA	Lake	EL04	0	Good	Average	Exemption Article 4.4 (Deadline extension)	Yes
CCS2	KP 41	YES	EL0415R000202106N	ERMITSAS R.	River	EL04	30	Good	Incomplete	Exemption Article 4.4 (Deadline extension)	Yes
CCS2	KP 57	YES	EL0415R000200011H	ACHELOOS P. 5	River	EL04	100	Good	Incomplete	Exemption Article 4.4 (Deadline extension)	Yes
CCS2	KP 104	YES	EL0415R001301068N	AMFILOHIA R.	River	EL04	20	Good	Good	No degradation	Yes
CCS2	<ul style="list-style-type: none"> KP 125; KP 128; and KP 129 	YES	EL0514R000102049N	MANTANI R.	River	EL05	<ul style="list-style-type: none"> 15 15 15 	Good	Good	Maintain good Ecological and Chemical Status	Yes

EastMed Pipeline Project Component	Spatial Correlation (indicative locations)	Crossed	Water Body (WB) Code	Water Body (WB) Name	Category	River Basin District (RBD)	Crossing Length (approx. in m, as interpreted by satellite imagery)	Chemical status	Ecological Status	Environmental objectives by 2021	Compatibility
CCS2	KP 127 (Sykoula settlement) – KP 143 (Psathotopi settlement)	YES	EL0514T0002N	ARACHTHOS ESTUARY	Transitional	EL05	16000	Good	Average	Exemption Article 4.4 (Deadline extension)	Yes
CCS2	KP 130 (Sykies settlement)	YES	EL0514R000100048N	DIPOTAMON R.	River	EL05	20	Good	Poor	Exemption Article 4.4 (Deadline extension)	Yes
CCS2	KP 135 (Pachykalamos settlement)	YES	EL0514R000201050N	ARACHTHOS P. 1	River	EL05	60	Good	Average	Increase in acidity	Yes
CCS2	KP 143 (Psathotopi settlement) - KP 168 (Neos Oropos settlement)	YES	EL0546T0003N	LOUROS ESTUARY - RODIA TSOUKALIO, LOGAROU LAGOONS	Transitional	EL05	25000	Good	Average	Exemption Article 4.4 (Deadline extension)	Yes
CCS2	KP 160 (Petra settlement)	YES	EL0546R000201077N	LOUROS P. 1	River	EL05	190	Good	Good	Exemption Article 4.4 (Deadline extension)	Yes
CCS2	<ul style="list-style-type: none"> KP 178; and KP 179 (Megadendron settlement) 	YES	EL0513R000101042N	ARETHOUA R.	River	EL05	<ul style="list-style-type: none"> 12 12 	Good	Average	Exemption Article 4.4 (Deadline extension)	Yes
CCS2	KP 196 (Mesopotamos settlement)	YES	EL0513R000200045N	ACHERON P. (MAVROPOTAMOS) 2	River	EL05	30	Good	Good	Maintain good Ecological and Chemical Status	Yes
CCS2	KP 199 (Themelo settlement)	YES	EL0513R000202044N	ACHERON P. (MAVROPOTAMOS) - TRIBUTARY KOKTOS (VOUVOS)	River	EL05	20	Good	Average	No degradation	Yes

Prepared by: ASPROFOS, 2022. Data source: [Special Secretariat for Water](#).

Table 5-13 Underground Water Bodies (GWB) within the Study Area

EastMed Pipeline Project Component	Spatial Correlation (indicative)	Crossed	Water Body (WB) Code	Water Body (WB) Name	River Basin District (RBD)	Total Area of WB (km ²)	Chemical status	Availability Status	Level drop trend	Quality problems	Pollution trend	Environmental objectives by 2021	Compatibility
Crete facilities	Goudouras Settlement	NO	EL1300144	PORODES OF GOUDOURA	EL13	2.34	Poor	Good	-	Salting	-	Exemption Article 4.4 (Deadline extension)	Yes

EastMed Pipeline Project Component	Spatial Correlation (indicative)	Crossed	Water Body (WB) Code	Water Body (WB) Name	River Basin District (RBD)	Total Area of WB (km ²)	Chemical status	Availability Status	Level drop trend	Quality problems	Pollution trend	Environmental objectives by 2021	Compatibility
Crete facilities	Entire footprint	YES	EL1300141	PORODES OF SITIA-PAPAGIANNADON-AGIA TRIADA	EL13	94.3	Good	Good	-	-	-	No degradation	Yes
Crete facilities	Ampelos beach	NO	EL1300153	KARSTIC COASTAL OF EASTERN END OF Mt ZAKROS	EL13	71.69	Good	Good	-	-	-	No degradation	Yes
CCS1	LF3 – KP 29 (Sykies settlement)	YES	EL0300120	SOUTHEAST LACONIA SYSTEM	EL03	369.1	Good	Good	NO	NO	NO	Maintain good Availability and Chemical Status	Yes
CCS1	<ul style="list-style-type: none"> KP 29 (Sykies settlement) – KP 41; and KP 49 – KP 51 	YES	EL0300150	ASOPOS - GLYKOVRSI SYSTEM	EL03	181.6	Poor	Poor	YES	Local charges of NO ₃ due to crops and Cl due to salinization-	Local	Exemption Article 4.4 (Deadline extension)	Yes
CCS1	<ul style="list-style-type: none"> KP 41- KP 49; and KP 51 – KP 57 	YES	EL0300110	Zaraka - Monemvasia system	EL03	576.04	Good	Good	NO	NO	NO	Maintain good Availability and Chemical Status	Yes
CCS1	KP 57 – KP 95 (Chatzarorachi settlement)	YES	EL0300160	GERAKI - GORITSA SYSTEM	EL03	716.3	Good	Good	NO	NO	Local (Cl)	Maintain good Availability and Chemical Status	Yes
CCS1	<ul style="list-style-type: none"> KP 100 – KP 101; and KP 102 (River Evrotas) – KP 103 	YES	EL0300230	EVROTAS SYSTEM	EL03	146.5	Good	Good	YES	Local charge of NO ₃ due to crops	NO	Maintain good Availability and Chemical Status	Yes
CCS1	<ul style="list-style-type: none"> KP 95 (Chatzarorachi settlement) – KP 100; KP 101 – KP 102 (River Evrotas); and KP 103 – KP 109 	YES	EL0300240	AGIOS PETROS - VOUTIANA SYSTEM	EL03	317.3	Good	Good	NO	NO	NO	Maintain good Availability and Chemical Status	Yes
CCS1	KP 109 – KP 133	YES	EL0300260	PELLANA - SKORTSINOI SYSTEM	EL03	198.5	Good	Good	NO	NO	NO	Maintain good Availability	Yes




EastMed Pipeline Project Component	Spatial Correlation (indicative)	Crossed	Water Body (WB) Code	Water Body (WB) Name	River Basin District (RBD)	Total Area of WB (km ²)	Chemical status	Availability Status	Level drop trend	Quality problems	Pollution trend	Environmental objectives by 2021	Compatibility
												and Chemical Status	
CCS1	<ul style="list-style-type: none"> • KP 133 – KP 139 (Soulari settlement); and • KP 141 – KP 143 	YES	EL0100080	AGIOS FLOROS-PIDIMA SYSTEM	EL01	424.1	Good	Good	NO	NO	NO	Maintain good Availability and Chemical Status	Yes
Megalopoli's Branch and CCS1	<ul style="list-style-type: none"> • Megalopoli: entire Branch; • CCS1: <ul style="list-style-type: none"> ➤ KP 139 (Soulari settlement) – KP 141, ➤ KP 143 – KP 155, ➤ KP 156 – KP 166 (Mavria settlement) 	YES	EL0100070	MEGALOPOLI SYSTEM	EL01	189.4	Good	Good	NO	NO	NO	Maintain good Availability and Chemical Status	Yes
CCS1	KP 155 – KP 156	YES	EL0100210	DIAVOLITSI - NEA FIGALIA SYSTEM	EL01	514.8	Good	Good	NO	NO	NO	Maintain good Availability and Chemical Status	Yes
CCS1	KP 166 (Mavria settlement) – KP 190	YES	EL0100230	LOUSIOS - PALOUBAS SYSTEM	EL01	339.4	Good	Good	NO	NO	NO	Maintain good Availability and Chemical Status	Yes
CCS1	KP 164 (Katsimpalis settlement) – KP 172 (Karytaina settlement)	NO	EL0100220	Karitaina-Stemnitsa system	EL01	76.3	Good	Good	NO	NO	NO	Maintain good Availability and Chemical Status	Yes
CCS1	KP 184 (Andritsaina settlement) – KP	NO	EL0100240	MINTHIS SYSTEM	EL01	161.11	Good	Good	NO	NO	NO	Maintain good Availability	Yes

EastMed Pipeline Project Component	Spatial Correlation (indicative)	Crossed	Water Body (WB) Code	Water Body (WB) Name	River Basin District (RBD)	Total Area of WB (km ²)	Chemical status	Availability Status	Level drop trend	Quality problems	Pollution trend	Environmental objectives by 2021	Compatibility
	195 (Pefki settlement)											and Chemical Status	
CCS1	<ul style="list-style-type: none"> KP 190 – KP 228; and KP 234 – KP 235 	YES	EL0100010	ALFIOS SYSTEM	EL01	981.2	Good	Good	-	Local NO3 charges due to agricultural activities. Increased values of Fe, Mn of natural origin	Local	Maintain good Availability and Chemical Status	Yes
CCS1	<ul style="list-style-type: none"> KP 228 – KP 234; and KP 235 – KP 262 (Valmi settlement) 	YES	EL0200060	PINIOS SYSTEM	EL02	812.7	Good	Good	NO	Local NO3 charges due to agricultural activities	-	Maintain good Availability and Chemical Status	Yes
CCS1	KP 262 (Valmi settlement) – KP 286	YES	EL0200100	MOVVIS SYSTEM	EL02	528.2	Good	Good	NO	NO	NO	Maintain good Availability and Chemical Status	Yes
CCS1	KP 286 - KP 292	YES	EL0200092	LARISSOS RIVER SYSTEM	EL02	43.4	Poor	Poor	YES	NO3 charges due to agricultural activities	-	Exemption Article 4.4 (Deadline extension)	Yes
CCS1	KP 292 – KP 298	YES	EL0200091	LARISSOS RIVER SYSTEM	EL02	106.5	Poor	Poor	YES	NO3 charges due to agricultural activities	-	Exemption Article 4.4 (Deadline extension)	Yes
CCS1	KP 298 – LF4	YES	EL0200094	LARISSOS RIVER SYSTEM	EL02	13.1	Poor	Poor	YES	NO3 charges due to agricultural activities	-	Exemption Article 4.4 (Deadline extension)	Yes
CCS2	LF5 – KP 9 (Municipality Iera Polis of Messolonghi)	YES	EL0400090	MESSOLOGGI-EVINOS SYSTEM	EL04	97.3	Good	Good	NO	Local NO ₃ charges due to agricultural activities and Cl from salinization. Local excesses of trace elements Fe, Mn, Al.	-	No degradation	Yes
CCS2	<ul style="list-style-type: none"> KP 9 (M. of I.P. of Messolonghi) – KP 19; and KP 21 – KP 22 	YES	EL0400240	WATER SUPPLY SYSTEM DOWNSTREAM EVINOS BASIN	EL04	204.6	Good	Good	NO	NO	NO	No degradation	Yes

EastMed Pipeline Project Component	Spatial Correlation (indicative)	Crossed	Water Body (WB) Code	Water Body (WB) Name	River Basin District (RBD)	Total Area of WB (km ²)	Chemical status	Availability Status	Level drop trend	Quality problems	Pollution trend	Environmental objectives by 2021	Compatibility
CCS2	<ul style="list-style-type: none"> KP 19 – KP 21; and KP 22 – KP 28 (Grammatiko settlement) 	YES	EL0400250	ACHELOOS DOWNSTREAM WATER SUPPLY SYSTEM	EL04	246.5	Good	Good	-	Local physical load on SO ₄ and Cl. Local excess of Fe trace elements	-	No degradation	Yes
CCS2	<ul style="list-style-type: none"> KP 28 (Grammatiko settlement) – KP 61; and KP 62 – KP 64 	YES	EL0400060	AGRINIO SYSTEM	EL04	275.6	Good	Good	NO	Local NO ₃ charges due to agricultural activities. Local increased values of Fe, Mn	local	No degradation	Yes
CCS2	<ul style="list-style-type: none"> KP 61 – KP 62; and KP 64 – KP 73 	YES	EL0400140	AMFILOHIA SYSTEM	EL04	226.5	Good	Good	NO	Increased values of Cl, SO ₄ of natural origin	NO	No degradation	Yes
CCS2	<ul style="list-style-type: none"> KP 73 – KP 113 (Agia Triada); and KP 115 – KP 116 	YES	EL0400190	ACHELOOS BASIN WATER SYSTEM	EL04	1,496.5	Good	Good	NO	NO	NO	No degradation	Yes
CCS2	<ul style="list-style-type: none"> KP 113 (Agia Triada) – KP 115; and KP 116 – KP 129 	YES	EL0500240	WATER SUPPLY SYSTEM OF ARACHTHOS R.	EL05	1,618.1	Good	Good	-	Local excesses of trace elements Fe, Mn	-	No degradation	Yes
CCS2	KP 132 (Sykies settlement) – KP 136 (Akropotamia settlement)	NO	EL0500153	LOUROS SUSTEM	EL05	15.52	Good	Good	NO	Local excesses of trace elements Al, Fe, Mn	Local	No degradation	Yes
CCS2	KP 129 – KP 168	YES	EL0500160	ARTA SYSTEM	EL05	354.7	Good	Good	-	Spot pollution (Cl, SO ₄) from marine intrusion and NO ₃ from agricultural activity. Local excesses of trace elements Fe, Mn, Al.	Local	No degradation	Yes
CCS2	KP 156 – KP 161	NO	EL0500152	LOUROS SUSTEM	EL05	121.48	Good	Good	NO	Local excesses of trace elements Al, Fe, Mn	Local	No degradation	Yes

EastMed Pipeline Project Component	Spatial Correlation (indicative)	Crossed	Water Body (WB) Code	Water Body (WB) Name	River Basin District (RBD)	Total Area of WB (km ²)	Chemical status	Availability Status	Level drop trend	Quality problems	Pollution trend	Environmental objectives by 2021	Compatibility
CCS2	KP 179 Megadendro settlement) – KP 180	YES	EL0500250	ZALONGOS SYSTEM	EL05	24.7	Good	Good	NO	Local excesses of trace elements Fe, Al.	NO	No degradation	Yes
CCS2	KP 182 – KP 184	NO	EL0500260	WATER SUPPLY SYSTEM OF UPSTREAM ACHERONTA – R. ARETHOUSA	EL05	247.39	Good	Good	NO	NO	NO	No degradation	Yes
CCS2	<ul style="list-style-type: none"> KP 182 – KP 186; and KP 188 – KP 193 	YES	EL0500090	SOULI-PARAMYTHIA SYSTEM	EL05	436	Good	Good	NO	Local physical load in SO ₄	NO	No degradation	Yes
CCS2	<ul style="list-style-type: none"> KP 193 (Chochla settlement) – KP 205 (Tzara settlement); and KP 209 (Morfi settlement) – KP 223 	YES	EL0500270	ACHERON - R. KOKYTOS SPRINGS SYSTEM	EL05	165.9	Good	Good	NO	NO	-	No degradation	Yes
CCS2	<ul style="list-style-type: none"> KP 202 – KP 203; KP 205 – KP 213; and KP 214 – KP 216 	YES	EL0500130	KORONI SYSTEM	EL05	215.5	Good	Good	NO	-	NO	No degradation	Yes
CCS2	<ul style="list-style-type: none"> KP 213 – KP 214; and KP 216 – KP 233 	YES	EL0500170	PARGA SYSTEM	EL05	217.5	Good	Good	NO	Local charges due to agricultural activities. Local excesses of trace elements Fe, Mn, Al.-	-	No degradation	Yes

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	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 100 OF 114

5.2.3.3 Flood Risk Management Plans

Pursuant to Directive 2007/60/EC in each River Basin District of the country, Potentially High Flood Risk Zones (PHFRZ) were identified through the Preliminary Flood Risk Assessment (PFRA). These PFRSs were defined through combining the results from overlaying of (i) areas where floods may occur and (ii) areas with potentially significant consequences from future floods; the results of this overlaying exercise also take into account official regional reports and significant historical floods. Areas where flooding is likely to occur are defined as those that meet at least one of the following two restrictions:

- They are located in alluvial deposits; and
- They are located on ground with a slope less than 2%.

The EastMed Pipeline Project is located within the following PHFR Zones.

	EASTMED PIPELINE PROJECT		 	
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN	REV. : 00
			PAGE :	101 OF 114




Table 5-14 PHFRZ within the Study Area of the CCS1 Pipeline

s/n	EastMed Pipeline Project Component	Spatial Correlation (indicative)	Crossed	PHFRZ Code	PHFRZ Name	RBD	Total area of feature (km ²)
1	CCS1	<ul style="list-style-type: none"> • KP 29 (Sykea settlement) - KP 35 (Metamorfosi settlement); and • KP 47 (Apidea settlement) – KP 51 	YES	EL03APSFR001	Low area of Evrota river (area of settlements Skala, Elos) and other streams of the Laconic Gulf	EL03	133.73
2	CCS1	<ul style="list-style-type: none"> • KP 101 (Sparti) – KP 105; • KP 109 – KP 117 (Pellana settlement); and • KP 127 – KP 129 	YES	EL03APSFR002	Valley of River Evrotas at the height of Sparta	EL03	118.32
3	Megalopoli's Branch and CCS1	<ul style="list-style-type: none"> • Megalopoli: <ul style="list-style-type: none"> ➤ KP 0 (Soulari settlement) – KP 1, ➤ KP 3 – KP 5 and KP 7 – End, • CCS1: <ul style="list-style-type: none"> ➤ KP 137 (Soulari settlement) – KP 142, ➤ KP 143 (Gavria settlement) – KP 150 (Neochori settlement) 	YES	EL01APSFR003	Low zones of Megalopoli Plateau	EL01	118.03

 IGI Poseidon	EASTMED PIPELINE PROJECT			
	EastMed Greek Section – Environmental and Social Impact Assessment		DOCNo: PERM-GREE-ESIA-0005_0_ESIAch05-EN	
			REV. :	00
			PAGE :	102 OF 114

s/n	EastMed Pipeline Project Component	Spatial Correlation (indicative)	Crossed	PHFRZ Code	PHFRZ Name	RBD	Total area of feature (km ²)
4	CCS1	KP 202 – KP 207 (Tripotamia)	YES	EL01APSFR004	Low Areas of Alfeios river, streams of the west coast of Western Peloponnese River Basin and Pylias peninsula	EL01	359.32
5	CCS1	KP 243 (Varbarina settlement) – KP 251 (Kalo Paidi settlement)	YES	EL02APSFR008	Low Zones of river basins of Eastern Achaia from Skafidia to Psathopyrgos	EL02	907.21
6	CCS2	<ul style="list-style-type: none"> KP 125 (Marlesio settlement) – KP 174; and KP 177 – KP 182 (Myrsini settlement) 	YES	EL05APSFR001	Arta plains, low zone of Louros - Arachthos rivers	EL05	510.76
7	CCS2	<ul style="list-style-type: none"> KP 193 (Chochla settlement) – KP 203 (Tzara settlement); and KP 2013 (Kalodiki settlement) – KP 223 (Palaiokastros settlement) 	YES	EL05APSFR005	Low basin areas of river Acheron, closed basin of Margariti and streams west of the area	EL05	185.41

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	<p style="text-align: center;">EASTMED PIPELINE PROJECT</p> <p style="text-align: center;">EastMed Greek Section – Environmental and Social Impact Assessment</p>	<div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="border: 1px solid black; padding: 2px;"> DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN </div> <div style="display: flex; justify-content: space-between; border-top: 1px solid black; border-bottom: 1px solid black; padding: 2px;"> <div>REV. :</div> <div>00</div> </div> <div style="display: flex; justify-content: space-between; border-bottom: 1px solid black; padding: 2px;"> <div>PAGE :</div> <div>103 OF 114</div> </div>
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Also, in application of Directive 2007/60/EC, Hazard Maps and Flood Risk Maps were prepared for the Potentially High Flood Risk Zones of each River Basin District.

The watercourses (rivers, streams, torrents) and the hydrological basins that supply the PHFRZ, as well as the lakes located within the PHFRZ were identified. The process was implemented using Geographic Information Systems (ArcGIS software) based on a digital soil model of Ktimatologio SA, resolution 5mx5m (elevation accuracy 1.0 m). The following were calculated for all catchments: their morphological characteristics, geological characteristics and hydrogeological conditions, soil types with emphasis on their classification according to their infiltration, soil-vegetation coverage based on the mapping of land uses according to CORINE and processing on orthophoto maps of EKHA SA (2007-2009).




In accordance with the provisions for implementation of Directive 2007/60/EC and the relevant JMD I.P. 31822/1542/E103/2010 (Government Gazette 1108/B/2010) as amended and in force, analysis of the following scenarios was performed regarding hydrological and hydraulic parameters of the investigated water bodies:

- floods with a high excess probability, defined as floods with a recurrence period of 50 years;
- floods with an average excess probability, defined as floods with a recurrence period of 100 years; and
- floods of low excess probability, defined as floods with a recurrence period of 1000 years.

Subsequently, the Flood Risk Management Plans (FRMPs) were prepared at the level of River Basin District for the whole country.

The FRMP sets flood risk objectives focusing on reducing the potential negative effects of floods on human health, the environment, cultural heritage and economic activity, and also, if appropriate, on non-structural initiatives and/or in reducing the chances of flooding. The following decisions of the National Water Committee approved the Flood Risk Management Plans (FRMPs) of the below mentioned river basins that concern the study area:

- ΥΠΕΝ/ΓρΕΓΥ/ 41346/332/05.06.2018 (Government Gazette 2640/B/2018) approval of the Flood Risk Management Plan (FRMP) of the River Basins of the Western Peloponnese River Basin District (EL01) and the corresponding Environmental Impact Strategic Plan;
- ΥΠΕΝ/ΓρΕΓΥ /41356/333/06.06.2018 (Government Gazette 2640/B/2018) approval of the Flood Risk Management Plan (FRMP) of the River Basins of the Northern Peloponnese River Basin District (EL02) and the corresponding Environmental Impact Strategic Plan;
- ΥΠΕΝ/ΓρΕΓΥ /41364/324 / 06.06.2018 (Government Gazette 2692/B/2018) approval of the Flood Risk Management Plan (FRMP) of the River Basins of the Eastern Peloponnese River Basin District (EL03) and the corresponding Environmental Impact Strategic Plan;

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 104 OF 114

- ΥΠΕΝ/ΓρΕΓΥ /41366/325 / 06.06.2018 (Government Gazette 2686/B/2018) approval of the Flood Risk Management Plan (FRMP) of the River Basins of the Western Central Greece River Basin District (EL04) and the corresponding Environmental Impact Strategic Plan;
- ΥΠΕΝ/ΓρΕΓΥ /41368/326/06.06.2018 (Government Gazette 2640 / B / 2018) approval of the Flood Risk Management Plan (FRMP) of the River Basins of the Epirus River Basin District (EL05) and the corresponding Environmental Impact Strategic Plan; and
- ΥΠΕΝ/ΓρΕΓΥ /41397/335/06.06.2018 (Government Gazette 2687/ B / 2018) approval of the Flood Risk Management Plan (FRMP) of the River Basins of the Crete River Basin District (EL13) and the corresponding Environmental Impact Strategic Plan.




Based on data from the approved FRMPs of the River Basin Districts, the correlation of the Project with the results concerning the flood surface for the recovery period T = 100 years is reported below.

Table 5-15 Correlation of the Project with PHFRZs

s/n	EastMed Pipeline Project Component	PHFRZ Code	PHFRZ Name	Extent of Study Area within PHFRZ (km ²)
1	CCS1	EL03APSFR001	Low area of Evrota river (area of settlements Skala, Elos) and other streams of the Laconic Gulf	10.57
2	CCS1	EL03APSFR002	Valley of river Evrotas at the height of Sparta	12.67
3	Megalopoli's Branch and CCS1	EL01APSFR003	Low zones of Megalopoli Plateau	23.92
4	CCS1	EL01APSFR004	Low Areas of Alfeios river, streams of the west coast of Western Peloponnese River Basin and Pylias peninsula	7.12
5	CCS1	EL02APSFR008	Low Zones of river basins of Eastern Achaia from Skafidia to Psathopyrgos	36.31
6	CCS2	EL05APSFR001	Arta plains, low zone of Louros - Arachthos rivers	87.66
7	CCS2	EL05APSFR005	Low basin areas of river Acheron, closed basin of Margariti and streams west of the area	29.53

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Based on the above, it appears that the main flood phenomena related to the study area are located in the section CCS2 - West Greece and concern those sectors that pass through the areas where the




	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
			PAGE : 105 OF 114

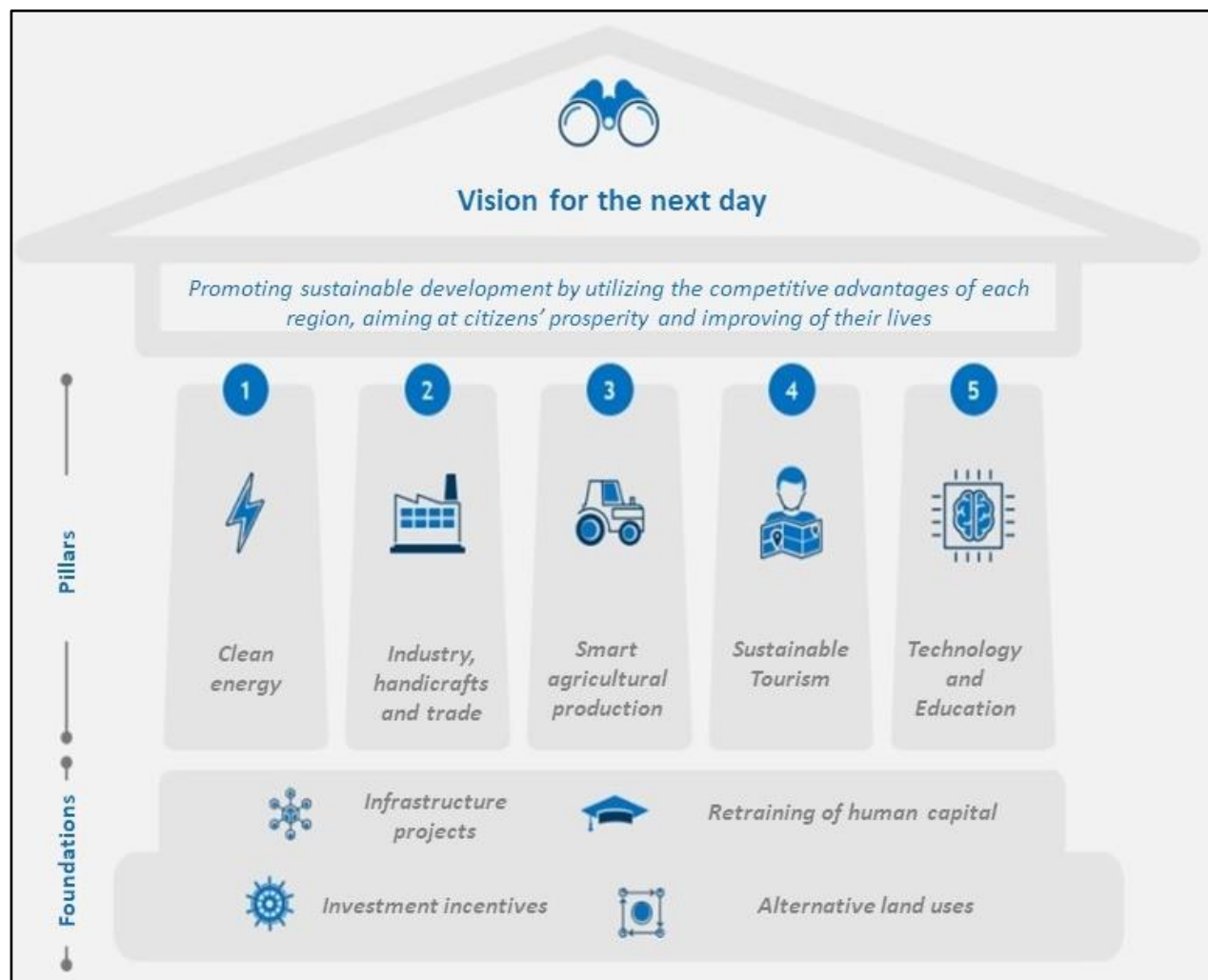
deltas of the major rivers, i.e. the Evinos, Acheloos, Louros, Arachthos and Acheron, as well as the low lakeside areas of Lakes Trichonida, Lysimachia and Ozeros are located.

In terms of compatibility, no issue exists. Technical design takes into consideration all necessary technical constrains, codes and standards, as described in Chapter 6.

5.2.3.4 National Just Transition Development Plan (SDAM)

In 1965, when the large power plant of PPC was created, Megalopoli experienced a remarkable prosperity when its population doubled. Megalopoli has 5,000 inhabitants, a significant part of whom work at the station and PPC projects. Up until now, in the plain of Megalopolis, lignite is mined in large areas, which is used for electricity generation needs. In harmonization with the forecasts of the National Plan for Energy and Climate (ESEK) (Government Gazette B '4893 /31.12.2019) the preparation of a Fair Development Transition Plan (SDAM) is already in progress, provisioning (among many others) the development/enhancement of local district heating infrastructure and the target of zero lignite share in electricity generation by 2028.

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Figure 5-8 Vision of Megalopoli's SDAM based on 5 key pillars and supported horizontal actions.



















Based on the Updated Master Plan of Fair Development Transition of Lignite Areas¹², in the development pillar of *clean energy* there is expressed interest in the construction of photovoltaic stations ~ 0.5GW, of which 50MW are already under construction by PPC. These investments will contribute to the partial replacement of lignite power while serving the objectives of ESEK, while, in addition to the inflow of funds and the restart of the local economy, they are expected to make a decisive contribution to attracting related investments. In the development pillar of *industry, handicrafts and trade*, the creation of a Business Park is being prepared, which is expected to




¹² <https://sdam.gr>

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
		PAGE :	107 OF 114

significantly enhance the diversification of the production model of Megalopolis. It is also noted that there is interest expressed by the pharmaceutical industry for a standard investment of about one hundred and thirty (133) million euros that could create up to four hundreds (400) direct jobs in the region. At the same time, it is possible to cooperate with the University of Peloponnese for the development of relevant research programs. Furthermore, interest has been expressed in the construction of a pharmaceutical production plant. In the development pillar of *smart agricultural production*, interest has been expressed for the development of intelligent livestock and animal feed units, production units with emphasis on alternative forms of cultivation as well as a unit for processing organic products. In the *tourism development pillar*, there is interest expressed by an international entertainment company in creating a model theme park of adventure, entertainment and education. In this context, the possibility of creating a museum of industrial heritage is highlighted. Respectively, the promotion of motorsport is expected to strengthen the tourist identity of the area.

Along with private sector investment, proposals and plans are being drawn up for the implementation of an extensive public works program, with an emphasis on infrastructure, which will reshape the affected areas. The projects include, inter alia, the completion of road interconnections, the strengthening and expansion of the railway network, the introduction of natural gas and the development of networks, the strengthening of district heating infrastructure, the installation of an ultra-high-speed broadband network and a mobile telephony network. (5G) etc. These projects will create many jobs during the construction period of the flagship investments, as they are an important prerequisite for their implementation. A crucial step is the implementation of a soil rehabilitation program in which a significant part of the human resources will be employed. Funds of EUR 300 million will be mobilized for the financing of this program.

Megalopoli: Expressed interest for 5 big projects that is estimated to mobilize ~€ 0.5 billion of new investments in the area				
		Investigated big investments		Estimated investment
 Clean energy		 Solar panel parks (~0,6 GW) from PPC		~€250M
 Industry, handicrafts and trade		 Model pharmaceutical industry, from key sector player		~€90M
 Smart agricultural production		 Smart livestock and forage unit and smart agricultural production units		~€40M
 Sustainable Tourism		 Thematic park for adventure, recreation and education with expressed interest from international company active in the market		~€40M
 Other investments		 Other public investments		~€30M
Source: PPC, Investment plans, Stakeholder suggestions, SDAM Team Analysis				
 Private sector  Public Sector  PPP				

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00
		PAGE :	108 OF 114

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Figure 5-9 Expressed interest for 5 big projects of ~€ 0.5 billion according to Megalopoli's SDAM.

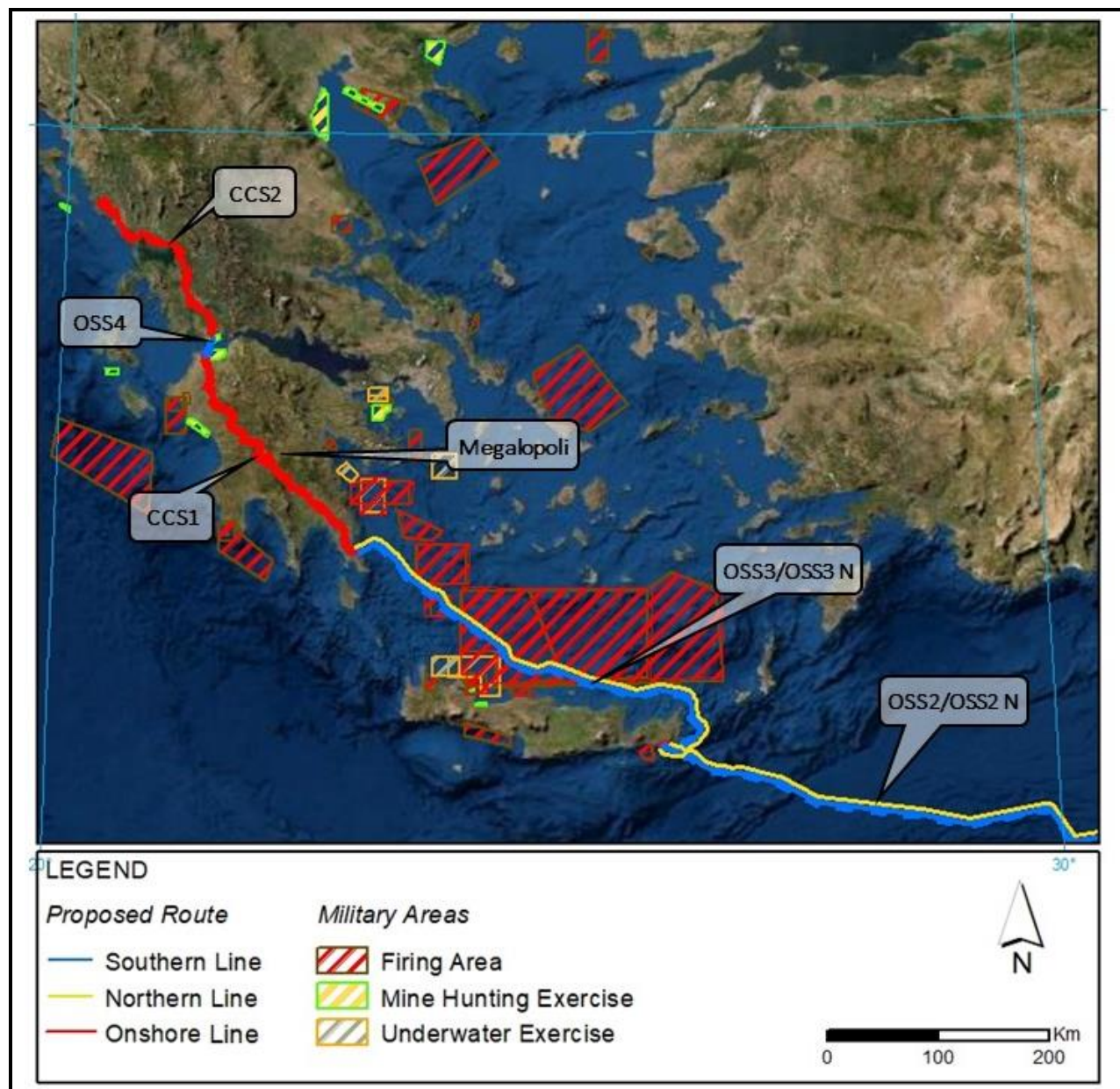
It is clarified, that the presence of the Megalopoli facilities (ME4/PRS4 & Heating Station) allows for supply of natural gas to the local market, conditionally that adequate demand is raised.

Based on the above, not only is the investigated project compatible with Megalopoli's SDAM, it is an additional big investment that along with other projects in the area may built on each other development activity, in transitioning Megalopoli's economy (and the broader area of the R. of Peloponnese) to the objectives of regional planning.

5.2.4 Military Areas

Project design has made a lot of effort to avoid offshore areas that have been committed by the Greek army for military exercises. However, as it is evident in Figure 5-10, the extent of the marine military areas is such that it makes it impossible for the Project footprint to completely avoid them. Figure 5-10 shows the offshore military areas in Greek marine territory. Seven military areas are located, even in parts, within a zone of 1 km on either side of the offshore pipeline route. Five of them are identified between northern Crete and south-eastern Peloponnese. These military areas are labelled as "Firing Practice" areas. Moreover, two military areas, labelled as "Mine Hunting areas", are identified in the Gulf of Patras.

During Scoping phase, and more specifically during the preparation of the Scoping Report, General National Defense Staff stated that it has no objection to the Project (specifically, its opinion was *positive*) (See Annex 8J.3 - Stakeholder Engagement and Socioeconomic Baseline Data Collection, ΓΕΕΘΑ/Γ'ΔΥΠΟ/ Φ.901/240/414875Σ.1741/10-03-2022).






Prepared by: ASPROFOS, 2022. Data source: <https://ows.emodnet-humanactivities.eu/wms>

Figure 5-10 Offshore Military Exercise Areas in Greek Territory

The military areas within the study area are presented in the following table.

Table 5-16 Military Areas within the Study Area

	EASTMED PIPELINE PROJECT		 
	EastMed Greek Section – Environmental and Social Impact Assessment		DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN
			REV. : 00 PAGE : 110 OF 114

s/n	Code	EastMed Pipeline Project Component	From	To	Crossed	Study Area within Military Area (km ²)	Military Use
1	1	OSS3/OSS3N	175	195	YES	38.73	Firing Area
2	2	OSS3/OSS3N	195	305	YES	237.20	Firing Area
3	7	OSS3/OSS3N	315	335	YES	46.98	Firing Area
4	8	OSS3/OSS3N	350	355	YES	3.27	Firing Area
6	17	OSS4	0	5	YES	5.75	Mine Hunting Exercise
7	16	OSS4	13	17	YES	7.48	Mine Hunting Exercise




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5.2.5 Organised Activity Receptors

5.2.5.1 Receptors of Manufacturing and Business Activities

The nearest receptors of manufacturing and business activities for the Project are:

- **Industrial Area (VIPE) of Iraklion.** It is located 92.5 km northwest of the compressor station (CS2/MS2) in the area of Atherinolakkos;
- **Industrial Area (VIPE) of Kalamata's A' (Sperchogia).** It is located 27.8 km west of pipeline section CCS1;
- **Industrial Area (VIPE) of Kalamata's B' (Meligalas).** It is located 17.0 km west of pipeline section CCS1;
- **Industrial Area (VIPE) of Tripoli.** It is located 24.6 km northeast of the Megalopoli's Branch;
- **Industrial Area (VIPE) of Patras.** It is located 8.5 km east of pipeline section CCS1 in the area of Agios Stefanos, Achaia;
- **Patras Craft Park (VIOPA) Patras.** It is located 21 km east of pipeline section CCS1. It extends west and along the Glafkos torrent;
- **Industrial Area (VIPE) of Preveza.** It is located 13.5 km south of pipeline section CCS2; and
- **Maritime and Industrial Area (NAVIPE) of Astakos, Aetoloakarnania.** It is located 20.30 km west of pipeline section CCS2. NAVIPE is the only maritime and industrial area in Greece that has its own multipurpose port. The total area of NAVIPE amounts to 1,910 acres with 2,300 m length of quays and drafts ranging between 8 and 14.5 m; this feature ranks it as one of the deepest ports in the country.




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5.2.5.2 Quarrying and Mining Zones




The mineral wealth in the study area includes aggregates quarries and mining areas, mining areas exempt in favour of the state and areas characterized as geothermal fields (verified or potential). There are a total of 18 areas of exploitation of mineral resources: nine aggregates quarries, two slate quarries, Megalopoli Lignite Mines, three public mining areas and two low-enthalpy geothermal fields (see Table 5-17).

Table 5-17 Quarries within the Study Area.

s/n	EastMed Pipeline Project Component	Spatial Correlation (indicative)	Crossed	Distance from project footprint (km)	Quarry Area	Type	Total Area of Feature (km ²)
1	CCS1	KP 4	NO	0.64	Sklavouna	Aggregate Quarry	0.43
2	CCS1	KP 18 (Agios Dimitrios) - KP 30 (Sykea settlement)	NO	0.72	-	Specially exempted mining areas for reasons of public interest	36.43
3	CCS1	KP 30 (Sykea settlement) – KP 50 (Apidea settlement)	YES	0.00	Public Mining Site of Molaon - Apidea/Section A	Specially exempted mining areas for reasons of public interest	72.75
4	CCS1	KP 50 (Apidea settlement) – KP 55 (Gouves)	YES	0.00	Public Mining Site of Molaon - Apidea / Section B	Specially exempted mining areas for reasons of public interest	38.62
5	Megalopoli's Branch and CCS1	<ul style="list-style-type: none"> Megalopoli: Entire footprint; and CCS1: KP 137 (Soulari settlement) – KP 169 	YES	0.00	Megalopoli Lignite Mine	Lignite Mine	185.86

	<p style="text-align: center;">EASTMED PIPELINE PROJECT</p> <p style="text-align: center;">EastMed Greek Section – Environmental and Social Impact Assessment</p>	<div style="display: flex; justify-content: space-between; align-items: center;">   </div> <p>DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN</p> <p>REV. : 00</p> <p>PAGE : 112 OF 114</p>
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s/n	EastMed Pipeline Project Component	Spatial Correlation (indicative)	Crossed	Distance from project footprint (km)	Quarry Area	Type	Total Area of Feature (km ²)
		(Karytaina settlement)					
6	CCS1	CCS1: KP 147 (Tripotamos settlement) – KP 163 (Kyparissi settlement)	NO	0.06	Megalopoli Lignite Mine	Lignite Mine	47.65
7	CCS1	CCS1: KP 147 (Tripotamos settlement) – KP 163 (Kyparissi settlement)	NO	0.06	Megalopoli Lignite Mine	Lignite Mine	49.73
8	CCS2	KP 69 – KP 70 (Lepenou settlement)	NO	0.56	Lepeno i	Aggregate Quarry	0.97
9	CCS2		NO	0.60	Alonaki a	Aggregate Quarry	0.44
10	CCS2		NO	0.77	Alonaki b	Aggregate Quarry	0.46
11	CCS2	KP 71 (Lepenou settlement)	NO	0.83	-	Slate Quarry	0.03
12	CCS2	KP 76 (Plati area)	NO	0.94	Plati	Slate Quarry	0.03
13	CCS2	KP 130 (Sykies settlement) – KP 134 (Neochori settlement)	YES	0.00	Sikion of Arta	Geothermal Field	11.3
14	CCS2	KP 134 (Neochori settlement) – KP 145 (Aneza settlement)	YES	0.00	Sikion of Arta	Possible Geothermal Field	53.10
15	CCS2	KP 190 (Koukouli	YES	0.00	8.A Fanariou	Aggregate Quarry	1.77

	<p style="text-align: center;">EASTMED PIPELINE PROJECT</p> <p style="text-align: center;">EastMed Greek Section – Environmental and Social Impact Assessment</p>	<div style="display: flex; justify-content: space-between; align-items: center;">   </div> <div style="border: 1px solid black; padding: 5px;"> DOC No: PERM-GREE-ESIA-0005_0_ESIAch05-EN REV. : 00 PAGE : 113 OF 114 </div>
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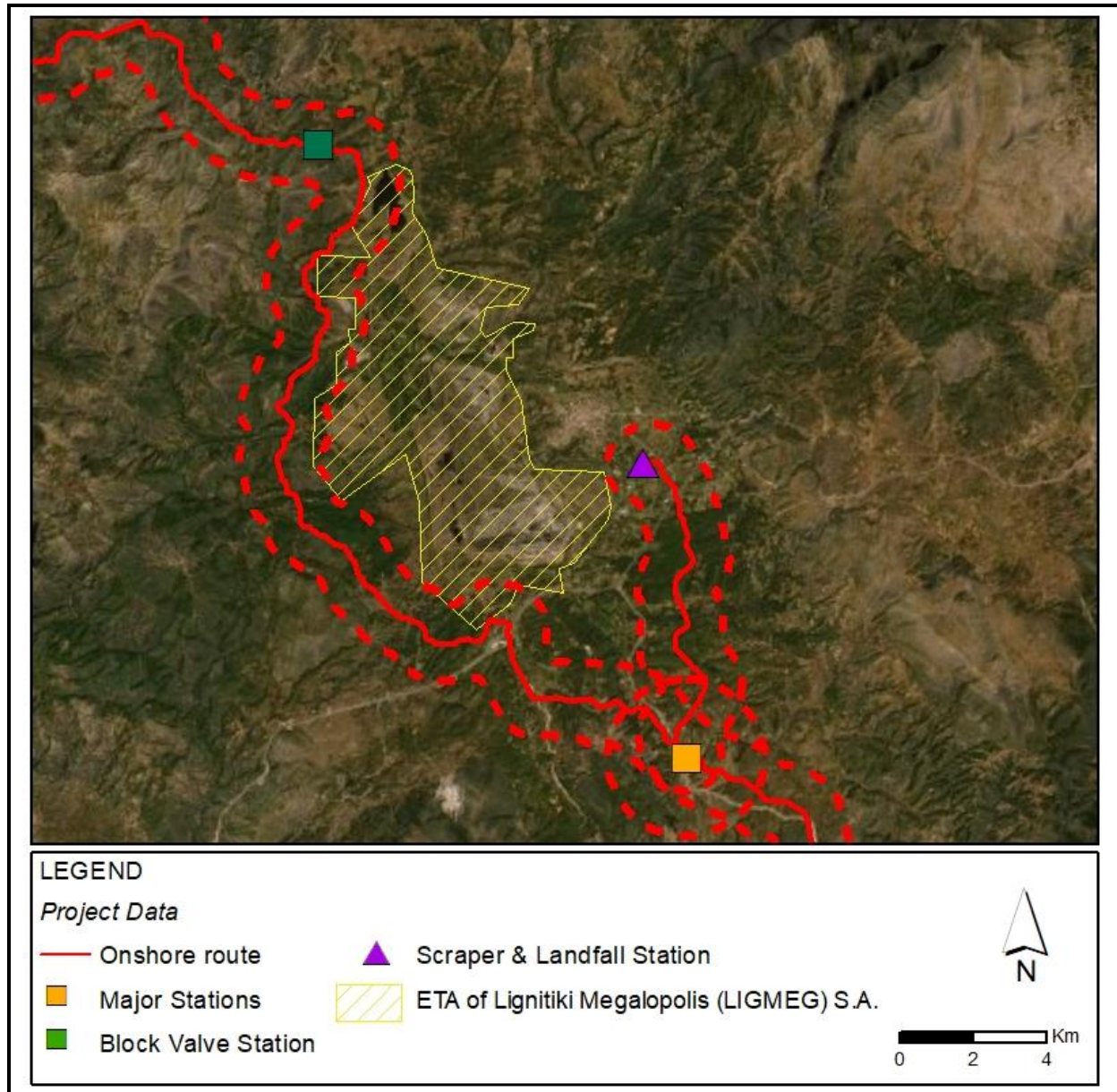
s/n	EastMed Pipeline Project Component	Spatial Correlation (indicative)	Crossed	Distance from project footprint (km)	Quarry Area	Type	Total Area of Feature (km ²)
		settlement) – KP 193 (Chochla settlement)					
16	CCS2	KP212 (Kalodiki settlement)	NO	0.84	9.B Margaritiou	Aggregate Quarry	0.05
16	CCS2		NO	0.49	9.B Margaritiou	Aggregate Quarry	0.08
17	CCS2		NO	0.49	9.A Margaritiou	Aggregate Quarry	0.25

Prepared by: ASPROFOS, 2022. Data source: [YPEN – Mineral & Aggregate Resources Division](#)

It is noted that the study area includes part within **the limit of the Megalopoli Lignite Mine in the environmental permitting application file** (ETA 8684/27.04.2018). This application file includes each one of the individual lignite mines along with the associated facilities as well as the Megalopoli Power Plant (Figure 5-11).

The pipeline route crosses for 362 m the above mentioned area. In addition, the route passes for another 90 m through the ownership of “Megalopoli Lignite Company”. Nevertheless, these approximately 450 m are located at the very limits of the areas subject to “Megalopoli Lignite Company”, where no activities are expected; thus it is reasonable to expect that projects are compatible. It is noted that the Megalopoli’s Lignite Mine is planned to be closed in the coming years¹³. In any case, contacts have already started between the engineering teams of both parties in order to identify best, commonly agreed, solution.

¹³ “PLAN OF FAIR DEVELOPMENT TRANSITION” <https://sdam.gr/node/143>



Prepared by: ASPROFOS, 2022.

Figure 5-11 **ETA of the Megalopoli Lignite Mine**

5.2.5.3 Other Organised Activity Receptors

Business parks, areas of integrated tourist development, areas of organised development of aquaculture, etc. are not located within the broader area of the Project.