




PROJECT:

EastMed Pipeline Project



Document Title:	EastMed Greek Section – Environmental and Social Impact Assessment
Document Subtitle	Chapter 13 – Additional Data
Project Document No:	PERM-GREE-ESIA-0013_0_ESIAch13-EN

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Company	IGI Poseidon
Author	ASPROFOS, ERM
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Abbreviations

See Document Map.

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13 ADDITIONAL DATA

Based on MD 170225/2014, this Chapter includes the following sections:

- **Special Studies.** This section lists the specific studies presented as annexes in the ESIA which either emerged as necessary during the Scoping Phase (if followed) or were prepared by the Project Owner on its own initiative.
- **ESIA Difficulties.** This section describes any problems and difficulties that arose during the preparation of the ESIA, as well as the assumptions or other approach adopted to overcome these difficulties.

13.1 Special Studies

As described in the ESIA, Project Owner opted to activate on a voluntary basis the Scoping Phase. As committed in the Scoping Report, submitted to the Ministry on 30/07/2021, Project Owner has voluntarily, on its own initiative, performed the ESIA related special studies listed in Table 13-1 below.

Apart from these, a special underwater site survey was performed by the competent Ephorate of Marine Antiquities, within the scope of this ESIA.

It is highlighted, that various additional studies have been performed and provided information to the ESIA, within the scope of the Project's FEED. They are not all listed here, however, the following are deemed necessary to be highlighted given their importance:

- Reconnaissance Marine Survey (RMS), performed in 2018 (IGI001-FINAL-INTEGRATED-REPORT, Volumes I – V).
- Preliminary Geohazard Report, performed in 2018 (Doc. No. EM-2000-20-PL-RPT-001) based on survey above listed
- Detailed Marine Survey (DMS), performed for OSS3 (Doc. No. 00225-Cv20A-TDR-00294-2) and OSS4 (Doc. No: E780_IGI002-WE2--PRC-F_OSS4) in 2022; for OSS2 DMS is still ongoing.










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Table 13-1 Special Studies performed for the EastMed Pipeline Project ESIA.

Reference to ESIA Section	ESIA Section Title	Short Description/ Scope
Baseline Conditions		
Annex8A	Soil and groundwater characteristics reports for permanent facilities subject to IED Directive	Primary data collection sampling campaign for the specific parameters in the areas of Atherinolakkos and Achaia Facilities
Annex8B	Air quality baseline reports for permanent facilities subject to IED Directive	Primary data collection sampling campaign for the specific parameters in the areas of Atherinolakkos and Achaia Facilities
Annex8D	Ecological status of main inland water bodies (incl. abiotic and biotic characteristics)	Primary data collection sampling campaign for the specific parameters in the crossing area between project footprint and selected surface water bodies.
Annex8F	Baseline Study on Flora	Literature review of species presence in the project's study area.
Annex8G	Baseline Study on Fauna	Literature review of species presence in the project's study area.
Annex8H	Baseline Study on Avifauna	Literature review of species presence in the project's study area.
Annex8I	Coastal Sediment Sampling Campaign Results	Primary data collection sampling campaign for the specific parameters in the areas of landfall sites
Annex8J.1	Report on Vulnerable Groups Identification and Impact Assessment	Literature review on vulnerable groups within the project's study area
Annex8J.2	Report on Human Rights Baseline and Impact Assessment	Literature review on human rights within the project's study area
Annex8J.3	Stakeholder Engagement and Socioeconomic Baseline Data Collection	<ul style="list-style-type: none"> • Description of Public Consultation and Disclosure (Stakeholder Engagement) activities • Primary data collection activities for Socioeconomic Baseline
Annex8P	Coastal Water Sampling Campaign Results	Primary data collection sampling campaign for the specific parameters in the areas of landfall sites
Impact Assessment (and Baseline Conditions)		
Annex8C	Noise baseline and propagation model reports for permanent facilities subject to IED Directive	<ul style="list-style-type: none"> • Primary data collection sampling campaign for the specific parameters in




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Reference to ESIA Section	ESIA Section Title	Short Description/ Scope
		the areas of Atherinolakkos and Achaia Facilities <ul style="list-style-type: none"> Cumulative model for specific parameter's potential engagement with sensitive receptors, during operation of Atherinolakkos and Achaia Facilities.
Annex9A	Air dispersion model for permanent facilities subject to IED Directive	Cumulative model for specific parameter's potential engagement with sensitive receptors.
Annex9C	Supporting material on landscape baseline and impact assessment	<ul style="list-style-type: none"> Zone of Visual Impact from presence of the Main Stations 3D Modelling of Main Stations Photosimulations of the Main Stations
Annex9D	Marine sediment dispersion model/ calculations	Modelling for specific parameter's potential engagement with sensitive receptors
Annex9E.1	Appropriate Assessment Screening Process	Desktop screening of potentially impacted Natura2000 areas.
Annex9E.2	Appropriate Assessment for GR2110001 (SCI) "AMVRAKIKOS GULF, DELTA'S OF LOUROS AND ARACHTHOS (PETRA MYTIKAS, BROADER AREA, ARACHTHOS DOWNSTREAM, FILIPPIADAS PLAINS)"	<ul style="list-style-type: none"> Literature review of baseline information for the specific Natura2000 sites Primary data collection activities and field surveys focusing on the protected features for the specific Natura2000 sites Appropriate Assessment on the protected features and integrity of the specific Natura2000 sites.
Annex9E.3	Appropriate Assessment for GR2110004 (SPA) "AMVRAKIKOS GULF, LAGOON OF KATAFOURKO AND KORAKONISIA ISLANDS"	
Annex9E.4	Appropriate Assessment for GR2310001 (SCI) "DELTA OF ACHELOOS, LAGOON OF MESOLOGI - ETOLIKO, ESTUARY OF EVINOS, ECHINADES ISLANDS, PETALAS ISLAND"	
Annex9E.5	Appropriate Assessment for GR2310009 (SCI) "TRICHONIDA AND LYSIMACHIA LAKES"	
Annex9E.6	Appropriate Assessment for GR2310013(SPA) "LIMNI LYSIMACHEIA"	
Annex9E.7	Appropriate Assessment for GR2310010 (SAC) "Mt ARAKINTHOS AND KLISOURA STRAITS"	

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Reference to ESIA Section	ESIA Section Title	Short Description/ Scope
Annex9E.8	Appropriate Assessment for GR2310015 (SPA) "DELTA OF ACHELOOS, LAGOON OF MESOLOGI - ETOLIKO AND ESTUARY OF EVINOS, ECHINADES ISLANDS, PETALAS ISLAND, WEST ARAKYNTHOS AND KLEISOURA STRAIGHTS"	
Annex9E.9	Appropriate Assessment for GR2330002 (SPA & SAC) – "OROPEDIO FOLOIS"	
Annex9E.10	Appropriate Assessment for GR2540001 (SCI) "MOUNTAINS OF GIDOVOUNI, CHIONOVOUNI, GAIDOUROVOUNI, KORAKIA, KALOGEROVOUNI, KOULOCHERA AND BROADER AREA OF MONEMVASIA, ETC"	
Annex9E.11	Appropriate Assessment for GR4320006 (SAC) " VOREIOANATOLIKO AKRO KRITIS: DIONYSADES, ELASA KAI CHERSONISOS SIDERO (AKRA MAVRO MOURI – VAI – AKRA PLAKAS) AND THALASSIA ZONI"	
Annex9E.12	Appropriate Assessment for GR2540007 (SPA) "MOUNTAINS OF EAST LAKONIA"	
Annex9E.13	Appropriate Assessment for GR2120002 (SPA) "KALODIKI MARSHLAND"	
Annex9E.14	Appropriate Assessment for GR2120006 (SPA) "MARSHLANDS OF KALODIKI, MARGARITI, KARTERI AND LIMNI PRONTANI"	
Annex9F	Air dispersion model for pre-commissioning activities	Cumulative model for specific parameter's potential engagement with sensitive receptors, during pre-commissioning phase.
Annex9G	Noise propagation model during pre-commissioning phase	Cumulative model for specific parameter's potential engagement with sensitive receptors, during pre-commissioning phase.
Annex9H	Underwater noise propagation model during construction phase	Cumulative model for specific parameter's potential engagement with sensitive receptors, during construction phase.

Prepared by: ASPROFOS, 2022.




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13.2 ESIA Difficulties

Pipeline projects, implemented in Greece and worldwide, demonstrate that impacts are limited during construction phase, and in general induce limited residual impacts to Environmental and Social compounds. There is already significant experience in such projects, in order to address any problem that may arise in cooperation with the competent authorities and engaged stakeholders. Stakeholder engagement and close collaboration with all statutory authorities has been essential for the project and this is documented in the ESIA.

Some data gaps and limitations are identified and summarized here below:

- Project Design.** As highlighted in the text, project FEED (design study) is ongoing at the time this ESIA has been drafted. As such, a number of technical data are potentially expected to be specified or updated in the following months. This means that some details on technical data, including exact locations and method of seabed intervention works (freSPAN mitigation), use of materials and resources (quantities, exact location of water abstraction and discharge), logistics, etc., are still under preparation. In addition, project footprint may be slightly modified as result of further ESIA consultation and disclosure. Nevertheless, provided information is deemed detailed enough to allow for a full and complete Environmental and Social Impact Assessment.
- Temporary Facilities.** As for most projects of such scale, the exact locations for most of the temporary facilities are determined after the issuance of the Environmental Terms Approval (ETA), often by the Contractor awarded with the detail Studies and Construction. For example, in case of pipe yards and construction sites, or aggregates deposit areas, etc, Ar. 7 of L. 4014/2011 is applicable. Specifically, the article provides for the submission of a Technical Environmental Report (TEPEM) *“for facilities or works (e.g. construction sites, depositing sites, etc) that are defined by a project’s technical design at a stage following the issuance of Environmental Terms Approval.”*
- Baseline information.** The baseline information provided is based on literature review, available data from other projects and scientific publications, other publicly available datasets. Information acquired through Stakeholder Engagement activities (correspondence, site visits, meetings) is also presented as available at the time this ESIA has been drafted. Information on protected areas was verified through seasonal site visits. This allows for a robust baseline and reliable impact assessment analysis. Nevertheless, some level of uncertainty is unavoidable; for this reason, specific mitigation measures are provided in the ESIA.
- Impact assessment.** ESIA provides a detailed analysis on Impact Assessment for construction and operation phase. The potential impacts specifically for the decommissioning phase are not assessed at this stage, since the Project has a long life span and it is not scientifically correct to identify any possible impacts given the lack of relevant environmental, technical and economic

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data that could relate to the Project in the future and obviously the possible measures to address them. Nevertheless, it is expected that impacts during the decommissioning phase will be similar to those of the construction phase. In addition, for some project elements related to temporary facilities, a general impact assessment is provided; detailed impacts analysis shall be performed after the issuance of ETA, prior to construction (following the TEPEM procedure).

In any case, it is certified that all available data allow for a robust baseline recording, comprehensive Impact Assessment, identification of efficient Mitigation Measures and establishment of a proper Environmental and Social Management and Monitoring Plan framework for sustainable construction and operation of the EastMed Pipeline Project.