# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glossary</td>
<td>4</td>
</tr>
<tr>
<td>Executive Summary</td>
<td>5</td>
</tr>
<tr>
<td><strong>1 Introduction</strong></td>
<td><strong>6</strong></td>
</tr>
<tr>
<td>1.1 About Fraport Greece</td>
<td>6</td>
</tr>
<tr>
<td>1.2 Environmental Strategy Annual Report Concession Agreement Requirements</td>
<td>7</td>
</tr>
<tr>
<td>1.3 Structure of the Environmental Strategy</td>
<td>7</td>
</tr>
<tr>
<td><strong>2 Environmental Policy</strong></td>
<td><strong>8</strong></td>
</tr>
<tr>
<td><strong>3 Legal and Stakeholder Requirements</strong></td>
<td><strong>10</strong></td>
</tr>
<tr>
<td>3.1 Legal Requirements</td>
<td>10</td>
</tr>
<tr>
<td>3.2 Approved Environmental Terms</td>
<td>12</td>
</tr>
<tr>
<td>3.3 Stakeholder Requirements</td>
<td>13</td>
</tr>
<tr>
<td><strong>4 Cluster B Airports</strong></td>
<td><strong>8</strong></td>
</tr>
<tr>
<td>4.1 Location and Airport Environment</td>
<td>16</td>
</tr>
<tr>
<td><strong>5 Planning for the future</strong></td>
<td><strong>20</strong></td>
</tr>
<tr>
<td>5.1 Imminent works</td>
<td>20</td>
</tr>
<tr>
<td>5.2 What has already been achieved</td>
<td>24</td>
</tr>
<tr>
<td>5.3 What could happen to the environment</td>
<td>26</td>
</tr>
<tr>
<td>5.4 On-going Actions</td>
<td>27</td>
</tr>
<tr>
<td><strong>6 Sustainable Development</strong></td>
<td><strong>28</strong></td>
</tr>
<tr>
<td>6.1 Overview and Objectives – Environmental and Social Management Plan</td>
<td>28</td>
</tr>
<tr>
<td>6.2 Environmental dimension as incorporated in planning and designs</td>
<td>30</td>
</tr>
<tr>
<td><strong>7 Soil Management</strong></td>
<td><strong>32</strong></td>
</tr>
<tr>
<td>7.1 Overview</td>
<td>32</td>
</tr>
<tr>
<td>7.2 Soil Management Action Plan</td>
<td>32</td>
</tr>
<tr>
<td>7.3 Achievements (with respect to soil conservation)</td>
<td>33</td>
</tr>
<tr>
<td><strong>8 Surface Water and Groundwater</strong></td>
<td><strong>34</strong></td>
</tr>
<tr>
<td>8.1 Overview</td>
<td>34</td>
</tr>
<tr>
<td>8.2 Water Management Plan</td>
<td>34</td>
</tr>
<tr>
<td>8.3 Achievements</td>
<td>35</td>
</tr>
<tr>
<td><strong>9 Biodiversity</strong></td>
<td><strong>36</strong></td>
</tr>
<tr>
<td>9.1 Overview</td>
<td>36</td>
</tr>
<tr>
<td>9.2 Biodiversity Management Action Plan</td>
<td>38</td>
</tr>
<tr>
<td>9.3 Achievements</td>
<td>38</td>
</tr>
<tr>
<td><strong>10 Cultural Heritage</strong></td>
<td><strong>40</strong></td>
</tr>
<tr>
<td>10.1 Overview</td>
<td>40</td>
</tr>
<tr>
<td>10.2 Cultural Heritage Management Plan</td>
<td>40</td>
</tr>
<tr>
<td>10.3 Achievements</td>
<td>41</td>
</tr>
<tr>
<td><strong>11 Air Quality</strong></td>
<td><strong>42</strong></td>
</tr>
<tr>
<td>11.1 Overview</td>
<td>42</td>
</tr>
<tr>
<td>11.2 Protective actions</td>
<td>42</td>
</tr>
<tr>
<td>11.3 Achievements</td>
<td>43</td>
</tr>
<tr>
<td><strong>12 Noise</strong></td>
<td><strong>44</strong></td>
</tr>
<tr>
<td>12.1 Overview</td>
<td>44</td>
</tr>
<tr>
<td>12.2 Noise Management Plan</td>
<td>44</td>
</tr>
<tr>
<td>12.3 Achievements</td>
<td>45</td>
</tr>
<tr>
<td><strong>13 Waste</strong></td>
<td><strong>46</strong></td>
</tr>
<tr>
<td>13.1 Overview</td>
<td>46</td>
</tr>
<tr>
<td>13.2 Waste Management Plan</td>
<td>48</td>
</tr>
<tr>
<td>13.3 Achievements</td>
<td>49</td>
</tr>
<tr>
<td><strong>14 Conclusion</strong></td>
<td><strong>50</strong></td>
</tr>
</tbody>
</table>
## Glossary

### Abbreviations

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>FG</td>
<td>Fraport Greece</td>
</tr>
<tr>
<td>CA</td>
<td>Concession Agreement</td>
</tr>
<tr>
<td>HR</td>
<td>Hellenic Republic</td>
</tr>
<tr>
<td>HRADF</td>
<td>Hellenic Republic Asset Development Fund</td>
</tr>
<tr>
<td>CCD</td>
<td>Concession Commencement Date</td>
</tr>
<tr>
<td>GG</td>
<td>Government Gazette</td>
</tr>
<tr>
<td>EASA</td>
<td>European Aviation Safety Agency</td>
</tr>
<tr>
<td>EC</td>
<td>European Community</td>
</tr>
<tr>
<td>EIB</td>
<td>European Investment Bank</td>
</tr>
<tr>
<td>EBRD</td>
<td>European Bank for Reconstruction and Development</td>
</tr>
<tr>
<td>E&amp;S</td>
<td>Environmental &amp; Social</td>
</tr>
<tr>
<td>IFC</td>
<td>International Finance Corporation</td>
</tr>
<tr>
<td>CEMP</td>
<td>Construction Environmental Management Plan</td>
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<tr>
<td>RFF</td>
<td>Rescue Fire Fighting</td>
</tr>
<tr>
<td>WWTP</td>
<td>Waste Water Treatment Plant</td>
</tr>
</tbody>
</table>
Executive Summary

The 2nd Annual Environmental Report is the result of FG’s compliance to the Environmental Requirements set in the Concession Agreement, seventeen months after the Concession Commencement Date of the 11th of April 2017.

The Environmental Strategy outlines the methods to minimize environmental impacts during the implementation of infrastructure upgrades and growth in operations in response to the Development Master Plans. Additionally, the strategy details the ongoing high quality environmental management of the airports.

The specific objectives and targets outlined in this Environment Strategy will provide a framework to ensure social, economic, and environmental goals are reflected in the development and every day running of each airport.

Environmental aspects addressed are: sustainable development, soil management, surface and groundwater, biodiversity, cultural heritage, air quality, noise and waste management. Potential impacts are presented for every environmental aspect, along with preventive actions.

Finally, for each environmental aspect specific targets are presented accompanied with a respective fulfilment timeframe.
1. **Introduction**

1.1 About Fraport Greece

Fraport Greece (FG) was created in 2015 and is responsible for maintaining, operating, managing, upgrading and developing 14 regional airports in Greece over a period of 40 years.

The operational transfer of the airports to FG took place on April 11th, 2017. At the time of the project closing full payment of the €1.234 billion upfront concession fee was made by Fraport Greece in tandem with the transfer of operations at the 14 airports. Along with the upfront concession payment, an annual fixed concession fee of initially €22.9 million and a variable annual concession fee of on average 28.5% of the operational profit will be paid every year.

Two separate, almost identical concessions were granted by the Greek State in an international tender process, each applying to seven of the 14 airports (“Cluster B” and “Cluster B’). Cluster B under the Concession Agreement of Aegean Regional Airports, includes the following 7 airports:

- Santorini (JTR),
- Samos (SMI),
- Skiathos (JSI),
- Mikonos (JMK),
- Mitilini (MJT)
- Rodos (RHO) and
- Kos (KGS).

FG consists of two concession companies with their corporate seats in Athens, one company for Cluster A named “Fraport Regional Airports of Greece A S.A.” (“Fraport Greece A”, FGA) and one company for Cluster B named “Fraport Regional Airports of Greece B S.A.” (“Fraport Greece B”, FGB).

Management Company, a third company with its corporate seat in Athens, is acting as management company and is responsible for central functions on behalf of Fraport Greece A and Fraport Greece B, such as employment of staff and contracting of advisors or suppliers.

The Athens headquarters employ more than 160 instead of 200 people and over 460 people are employed at the 14 airports.

The shareholders of Fraport Greece are Fraport AG Frankfurt Airport Services Worldwide, the Copelouzos Group and Marguerite the 2020 European Fund.
1.2 Environmental Strategy Annual Report Concession Agreement Requirements

Frapsort Greece (FG) has entered into a 40-year Concession Agreement (CA) with the Hellenic Republic (HR), represented by the Hellenic Republic Asset Development Fund (HRADF). The Concession Agreement was ratified by means of the Law 4389/2016 (GG94/27.05.2016).

The Concession Agreement, according to Article 13. Environment Protection – 13.2 Environmental Requirements – 13.2.2. requires, the Concessionaire to compile an annual report on environmental strategy, which shall be submitted to the State within three (3) months of the Concession Commencement Date (CCD) and each anniversary thereof. The Concessionaire is also obliged to create and maintain an internet site where the aforementioned report shall be published.

1.3 Structure of the Environmental Strategy

The Environmental Strategy outlines the airports methods to minimize environmental impacts during the implementation of infrastructure upgrades and growth in operations in response to the 2017 Master Plans and details the ongoing high quality environmental management of the airports. The specific objectives and targets outlined in this Environment Strategy will provide a framework to ensure social, economic, and environmental goals are reflected in the development and every day running of each airport.

Environmental aspects addressed are:

Sustainable development
Soil management
Surface and groundwater
Biodiversity
Cultural heritage
Air quality
Noise
Waste Management

Potential impacts are presented for every environmental aspect, along with preventive measures.

Finally, for each environmental aspect specific targets are presented accompanied with a respective fulfilment timeframe.
2. **Environmental Policy**

The Management Board of FG has adopted an integrated environmental policy for all our business locations (headquarters and airports), having defined environmental and social protection as one of our main company goals. Environmental protection is the responsibility of all employees that need to realize the importance of their duties, take active participation in meeting the common goals and willingly commit to the results of their activities.

In this context:

- We are managing, operating and developing all our units in an environmentally responsible way in compliance with the applicable laws, regulations and other commitments.
- We are promoting greater environmental responsibility by training our employees and providing awareness programs for all concerned parties.
- We support a precautionary approach to environmental challenges in respect of cost-effectiveness, economic viability and sustainability.
- We encourage the development and dissemination of environmentally friendly practices and technologies by applying environmental criteria when selecting goods and services.
- We engage in a regular dialogue with our community stakeholder groups and we incorporate their concerns and points of view in our corporate decision-making process. We communicate closely with our partners in the air transport value chain and work together to develop joint strategies and concepts directed towards continual improvement of environmental performance.
To meet our goals and targets towards sustainability and environmental protection, we focus on the following key aspects:

1. Protection of natural environment, (including wildlife management);
2. Resource use and waste minimization;
3. Waste management (hazardous, non-hazardous);
4. Wastewater management;
5. Energy management, carbon emissions and climate change;
6. Pollution prevention and emergency response;
7. Noise management and control; and
8. Traffic management.
3. Legal and Stakeholder Requirements

3.1 Legal Requirements

Environmental aspects of airport activities are largely governed by national legislation which is in accordance to the European Directives. National regulations and standards are used as the foundation for environmental programming and performance.

FG, also abides by the E&S Designated Performance Requirement, which means the applicable Alpha Bank Performance Standards as per the 25.7.2016 E&S Policy, the IFC Performance Standards; the EBRD Designated Performance Requirements and the EIB. The environmental guidelines of each bank are publicly disclosed.

In the interest of responsible and sustainable environmental management, FG will endeavour to meet or exceed additional self-imposed standards, including the adoption of applicable international regulations. Tenants at FG airports are also required to uphold the same standards.

<table>
<thead>
<tr>
<th>Greek Legislation No</th>
<th>GG</th>
<th>Content</th>
<th>European Legislation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Law 1650/1986</td>
<td>A 160</td>
<td>Protection of the environment in Greece</td>
<td></td>
</tr>
<tr>
<td>Law 4014/2011</td>
<td>A 209</td>
<td>New framework for the environmental permitting procedure</td>
<td></td>
</tr>
<tr>
<td><strong>Waste management</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PD 82/2004</td>
<td>A 64</td>
<td>Management of used mineral oils</td>
<td></td>
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<tr>
<td>PD 109/2004</td>
<td>A 75</td>
<td>Management of used vehicle tire</td>
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</tr>
<tr>
<td>JMD 41624/2057/E103/2010</td>
<td>B 1625</td>
<td>Management of batteries</td>
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</tr>
<tr>
<td>JMD 23615/651/A103/2014</td>
<td>B 1184</td>
<td>Management of Waste Electrical and Electronic Equipment (WEEE)</td>
<td></td>
</tr>
<tr>
<td>JMD 36259/1757/E103/2010</td>
<td>B 1312</td>
<td>Management of Construction and Demolition Waste (CDW)</td>
<td></td>
</tr>
<tr>
<td>JMD 13588/725/1985</td>
<td>B 383</td>
<td>Measures conditions and restrictions on hazardous waste management</td>
<td>Directive 91/156/EC</td>
</tr>
<tr>
<td>Greek Legislation No</td>
<td>GG</td>
<td>Content</td>
<td>European Legislation</td>
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</tr>
<tr>
<td><strong>Environmental and aircraft noise</strong></td>
<td></td>
<td></td>
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<tr>
<td>JMD 211773/2012</td>
<td>B 1367</td>
<td>Environmental and aircraft noise</td>
<td>Directive (END) 2002/49/EC</td>
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<tr>
<td>PD 80/2004</td>
<td>A 63</td>
<td>Noise management at EU airports</td>
<td>Directive 2002/30/EC</td>
</tr>
<tr>
<td>PD 1178/81</td>
<td>A 291</td>
<td>Measurements and checks on aircraft noise</td>
<td></td>
</tr>
<tr>
<td><strong>Environmental Liability</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Air pollutants</strong></td>
<td></td>
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<tr>
<td><strong>Nature Conservation</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PD 67/81</td>
<td>A 23</td>
<td>Protection of wild flora and fauna</td>
<td></td>
</tr>
<tr>
<td>Law 3937/2011</td>
<td></td>
<td>Conservation of Biodiversity</td>
<td></td>
</tr>
<tr>
<td><strong>Archaeology and sites of cultural interest</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Law 3028/2002</td>
<td>A 153</td>
<td>Cultural heritage protection</td>
<td></td>
</tr>
<tr>
<td><strong>Wastewater</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JMD 145116/2001</td>
<td>B 354</td>
<td>Establishment of Measures, Conditions and Procedures for the Re-use of Waste Water and other provisions</td>
<td></td>
</tr>
<tr>
<td>JMD 191002/2013</td>
<td>B 428</td>
<td>Amendment of JMD 145116/2011 which abolishes the relevant permit</td>
<td></td>
</tr>
<tr>
<td>MD E1b/221/65</td>
<td>B 138</td>
<td>Emissions standards and limits of wastewater discharged into water intended for bathing and any other use except from water consumption. As modified by MD Γ4/1305/1974, Γ1/17831/1971, ΓΥΓ2/133551/2008</td>
<td></td>
</tr>
<tr>
<td><strong>Electromagnetic fields</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decision 661/2012</td>
<td>B 2529</td>
<td>Procedures on licenses of land based antennas</td>
<td></td>
</tr>
</tbody>
</table>

Table 1: Core Environmental Legislation as amended and in force.
### 3.2 Approved Environmental Terms

Every airport operates under Approved Environmental Terms that ensure the best operation of the airport as far as environmental protection is concerned.

The terms set limits, guidelines, and monitoring procedures adapted to each airport separately, covering all environmental aspects.

<table>
<thead>
<tr>
<th>A/A</th>
<th>Airport</th>
<th>Environmental Terms Approval</th>
</tr>
</thead>
</table>
| 1   | KGS     | 32649/04.11.1994 as it has been modified and extended by the following:  
|     |         | O 106589/08.08.2006  
|     |         | O 197968/03.05.2012  
|     |         | O 6126/16.03.2018 |
| 2   | JMK     | 32650/04.11.1994 as it has been modified and extended by the following:  
|     |         | O 103324/18.04.2006  
|     |         | O 175511/15.10.2014  
|     |         | O 2976/02.02.2018 |
| 3   | MJT     | 81441/20.12.2002 as it has been extended and modified by the following:  
|     |         | O 23984/11.05.2016  
|     |         | O 1004/16.01.2018 |
| 4   | RHO     | 32648/04.11.1994 as it has been extended and modified by the following:  
|     |         | O 100425/17.01.2006  
|     |         | O 23983/11.05.2016  
|     |         | O 37974/07.12.2017 |
| 5   | SMI     | 106454/14.03.2000 as it has been modified by the following:  
|     |         | O 131852/27.10.2010  
|     |         | O 3704/12.02.2018 |
| 6   | JTR     | 51227/25.10.2016 as it has been modified by the following:  
|     |         | O 1758/23.01.2018 |
| 7   | JSI     | 68597/24.06.1999 as it has been renewed extended and modified by the following:  
|     |         | O 106193/11.07.2008  
|     |         | O 120306/11.01.2010  
|     |         | O 37970/22.12.2017 |

Table 2 Approved Environmental Terms Decisions for all 7 airports of Cluster B.
3.3 Stakeholder Requirements

As a community-based organization, we value the relationships we build with our business partners and surrounding communities.

Stakeholder engagement is being currently carried out and is also planned for the upcoming stages of project implementation. Prior to the start of construction activities, a site specific Stakeholder Engagement Plan (SEP) will be developed for each airport.

The SEP outlines a systematic approach to stakeholder engagement that will help FG develop and maintain over time a constructive relationship with their stakeholders throughout the duration of the Concession period.

Each plan contains information on the following:
- specific works that will take place at each airport
- stakeholders who may be affected or interested in the works
- indicative timeline for any consultation activities;
- communication tools and details of grievance process and contacts and local contact information.

<table>
<thead>
<tr>
<th>Role</th>
<th>Responsibility</th>
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<tbody>
<tr>
<td>Fraport Greece</td>
<td>Overall responsibility for implementing the environmental requirements specified by the legislation and the Environmental and Social Management Plan</td>
</tr>
<tr>
<td></td>
<td>Auditing contractors, tenant and other airport operators’ compliance with relevant environmental obligations.</td>
</tr>
<tr>
<td></td>
<td>Reviewing and/or approving tenant and operators’ environmental management plans.</td>
</tr>
<tr>
<td></td>
<td>Promoting best practice environmental management to tenants, operators and contractors.</td>
</tr>
<tr>
<td>EPC Contractor</td>
<td>Complaint management at construction sites. Available information on line : <a href="http://www.intrakat.gr/en/contact/subsidiary-and-branches-addresses/fraport-construction-sites/">http://www.intrakat.gr/en/contact/subsidiary-and-branches-addresses/fraport-construction-sites/</a></td>
</tr>
<tr>
<td>Tenants &amp; Operators</td>
<td>Responsible for preventing environmental harm.</td>
</tr>
<tr>
<td></td>
<td>Meeting statutory environmental requirements</td>
</tr>
<tr>
<td></td>
<td>Ensuring appropriate plans and/or systems are in place to manage environmental risks posed by activities.</td>
</tr>
</tbody>
</table>

Table 3: Roles and responsibilities
Graphic 1: Stakeholder categories

The relevant stakeholders identified per category are:

- **Civil Society**
  - Local communities
  - Local authorities
  - Local media
  - Vulnerable groups
  - NGO’s

- **Grantor, Government & Public bodies**
  - Greek Government
  - HCAA, HRADF, HAF
  - European Institutions
  - Professional & scientific organisations
  - Independent authorities

- **External**
  - Financial Partners
  - Shareholders
  - Lenders (EBRD, EIB, IFC, BSTDB, Alpha Bank)

- **Financial Partners**
  - Shareholders
  - Lenders (EBRD, EIB, IFC, BSTDB, Alpha Bank)
4. Cluster B Airports

4.1 Location and Airport Environment

Mitilini (MJT)
Mitilini International Airport “Odysseas Elytis” is located on the South-East side of the Island of Lesbos, around 7 km from the town of Mitilini and is sited parallel to the coast. Mitilini is well known for its historical past, even the airport area is a proclaimed archaeological site “Mitilini airport” (GG 978/B/1991).

Skiathos (JSI)
Skiathos International Airport “Alexandros Papadiamantis” is located on the east side of the island of Skiathos in the Western Aegean Sea, around 2 km from the capital of the island. Skiathos is a touristic destination and attracts a large number of visitors in the summer months. The island is known for its natural beauty and clear blue waters as the entire Sporades group. Recently an archeological discovery was brought to light in Kefala peninsula, near the airport, consisting of fort relics, houses and tombs.

Mikonos (JMK)
Mikonos International Airport is located 4 km south east of the town of Mikonos (Chora), a journey of about 10 minutes. Mikonos is one of the most touristic islands of Greece and attracts a large number of visitors in spring, summer and fall. Mikonos is recognised as a Site of Exceptional Natural Beauty (MD C/848/40, GG 329/B/31-3-1980) and rewards the visitor with a unique Cycladic landscape.

Santorini (JTR)
Santorini International Airport is located, close to Kamari village only 6 km from the island’s capital, Thira and 2.5 km East of Mesaria. Santorini, one of the world’s most popular tourist destinations, is a natural part of the active volcanic center of the South Aegean and is essentially an active volcano in a “dormant” state. Its current morphology, a caldera, was created after a volcanic eruption dated in the Bronze Era. The island is a protected geosite and includes the protected area of “Nea kai Palia Kameni- Profitis Ilias” Natura 2000 GR4220003 (SCI).
**Samos (SMI)**

Samos International Airport “Aristarchos of Samos” is located 3 km from the town of Pythagoreio and 14 km from the capital of the island, the town of Samos, formerly known as Vathi. Samos combines natural beauty consisting of vast green areas of vineyards and crystal blue waters along with a large historical past, the birthplace of the philosopher Pythagoras, the home of Pythagoreio (GG 598/B/1984), Heraion (GG 209/AAP/2012), and the Eupalinian aqueduct, a marvel of ancient engineering. Samos also has rich fauna and is the home of the protected, under the EU provisions, species of the Golden Jackal (Canis aureus).

**Kos (KGS)**

Kos International Airport “Ippokratis” is located near the village of Antimacheia in the Irakleides region of Kos Island, approximately 27km south-west of Kos Town. The island’s history is vast, from ancient times as it is the birthplace of Ippokratis, the father of medicine, up until the Ottoman Era and the Italian rule. A significant part of the NW part of the airport is within the limit of proclaimed archaeological site (GG 1387/B/22-10-2001) of “Antimachia”. In addition, the church of Saint Charalabos is sited within airport boundaries.

**Rodos (RHO)**

Rodos International Airport “Diagoras” is situated approximately 14km south-west of the capital city of Rhodos. The airport is located within the boundaries of the proclaimed archaeological site “Archaeological site of Asemotos Kremasti, Paradisi Mountain and Rodos Airport” (GG 1979/B 8-11-1999).
View from above in Oia, Santorini.
5. Planning for the future

FG will invest a total of at least €415 million in airport infrastructure until 2021, followed by maintenance and traffic-driven capacity investments during subsequent years of the project.

The proposed works in Cluster B include:

- 4 Runways will be refurbished namely those of Mikonos (JMK), Mitilini (MJT), Rodos (RHO), Skiathos (JSI)
- New terminal will be built in Lesvos (MJT)
- Terminal will be refurbished and expanded at 5 airports: Kos (KGS), Santorini (JTR), Samos (SMI), Mikonos (JMK) and Skiathos (JSI).
- Terminal remodeling will take place at the airport of Rodos (RHO).

5.1 Imminent works

<table>
<thead>
<tr>
<th>Imminent Works</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal</td>
<td>Expansion and refurbishment of the existing</td>
</tr>
<tr>
<td>RFF</td>
<td>New RFF station in the same location</td>
</tr>
<tr>
<td>Road &amp; Parking</td>
<td>New parking area</td>
</tr>
<tr>
<td>Utilities</td>
<td>Installation of new Pumping Station and sewerage connection pipe with the municipality WWTP</td>
</tr>
<tr>
<td>Other</td>
<td>New solid waste collection area</td>
</tr>
<tr>
<td></td>
<td>New GSE parking area</td>
</tr>
</tbody>
</table>
### Samos (SMI)

<table>
<thead>
<tr>
<th>Imminent Works</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal</td>
<td>Terminal expansion</td>
</tr>
<tr>
<td>RFF</td>
<td>RFF station in a new location</td>
</tr>
</tbody>
</table>
| Utilities      | New sewerage Pumping Station  
|                | New blow water collection tank and connection with municipality’s network |
| Δρόμοι & χώροι στάθ- 
| μευσης       | Remodelling of the existing parking areas and traffic reconfiguration |
| Other          | New solid waste collection area  
|                | New GSE parking area |

### Skiathos (JSI)

<table>
<thead>
<tr>
<th>Imminent Works</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal</td>
<td>Expansion and refurbishment of the existing</td>
</tr>
<tr>
<td>RFF</td>
<td>New RFF station almost in the same location</td>
</tr>
<tr>
<td>Road &amp; Parking</td>
<td>Remodelling of the existing parking areas and traffic reconfiguration</td>
</tr>
</tbody>
</table>
| Other          | Relocation of fuel handler’s offices and storage areas  
|                | New solid waste collection area  
|                | New GSE parking area |
### Mikonos (JMK)

<table>
<thead>
<tr>
<th>Imminent Works</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal</td>
<td>Expansion and refurbishment of the existing</td>
</tr>
<tr>
<td>RFF</td>
<td>RFF station in a new location</td>
</tr>
<tr>
<td>Road &amp; Parking</td>
<td>Remodelling of the existing parking areas and traffic reconfiguration</td>
</tr>
<tr>
<td></td>
<td>New entrance roundabout</td>
</tr>
<tr>
<td>Other</td>
<td>Expansion of the GSE parking area</td>
</tr>
<tr>
<td></td>
<td>Relocation of fuel handlers offices</td>
</tr>
</tbody>
</table>

### Mitilini (MJT)

<table>
<thead>
<tr>
<th>Imminent Works</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal</td>
<td>New Terminal in a new location</td>
</tr>
<tr>
<td>RFF</td>
<td>RFF station in a new location</td>
</tr>
<tr>
<td>Apron</td>
<td>Apron expansion for lightweight aircrafts</td>
</tr>
<tr>
<td>Road &amp; Parking</td>
<td>New Parking areas and traffic reconfiguration</td>
</tr>
<tr>
<td>Utilities</td>
<td>New WWTP</td>
</tr>
<tr>
<td>Other</td>
<td>New solid waste collection area</td>
</tr>
<tr>
<td></td>
<td>New GSE parking area</td>
</tr>
<tr>
<td></td>
<td>Relocation of Air club</td>
</tr>
</tbody>
</table>
### Rodos (RHO)

<table>
<thead>
<tr>
<th>Imminent Works</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal</td>
<td>Refurbishment of the existing terminal</td>
</tr>
<tr>
<td>RFF</td>
<td>New RFF building</td>
</tr>
<tr>
<td>Road &amp; Parking</td>
<td>Remodelling of the existing parking areas and traffic reconfiguration</td>
</tr>
<tr>
<td>Other</td>
<td>New solid waste collection area</td>
</tr>
<tr>
<td></td>
<td>New GSE parking area</td>
</tr>
</tbody>
</table>

### Kos (KGS)

<table>
<thead>
<tr>
<th>Imminent Works</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Terminal</td>
<td>Expansion and refurbishment of the existing terminal</td>
</tr>
<tr>
<td>RFF</td>
<td>New RFF building in a new location</td>
</tr>
<tr>
<td>Apron</td>
<td>Apron expansion</td>
</tr>
<tr>
<td>Road &amp; Parking</td>
<td>Remodelling of the existing parking areas, new parking areas and traffic reconfiguration</td>
</tr>
<tr>
<td>Utilities</td>
<td>New WWTP</td>
</tr>
<tr>
<td>Other</td>
<td>New solid waste collection area</td>
</tr>
<tr>
<td></td>
<td>New GSE parking area</td>
</tr>
</tbody>
</table>
5.2 What has already been achieved

Approved Master Plans for all 7 airports. Each Master Plan determines an ultimate overall layout that will best utilise the potential of the airport campus and optimise the use of existing infrastructure that best fits the expected traffic volume and characteristics over the next 20 years. Approved Environmental Terms for every airport. The new modified terms include the Imminent Works and provide measures and guidelines in order to ensure the preservation of the environment and the minimization of the environmental impacts.

For the assessment of the status of the environment and the existing contamination an Environmental Baseline Survey was conducted in every airport. The survey recorded:

- Soil contamination
- Surface and underground water contamination
- Waste disposal

Environmental Baseline Survey for Sewage Treatment Plants for the evaluation and monitoring of the effectiveness of the existing Waste Water Treatment Plants (WWTP) which are located in Kos (KG), Mitilini (MJT) and Rodos (RHO). Improvements were proposed for the existing facilities in order to upgrade them. Maintenance and upgrade works of the WWTPs are of high priority for FG.

Noise Monitoring for the peak period of 2017 at each airport, which included on site 24 hours measurements and raw data collection. The measurement period was from July 2017 until September 2017. The data were evaluated, noise contours were calculated, and the subsequent noise trends were presented.

Air Quality Monitoring in RHO. Monitoring of air pollutants that are typically associated with airports mainly from the combustion of jet fuel and airplane vehicles. These pollutants are carbon monoxide (CO), volatile organic compounds (VOC), sulfur dioxide (SO2), nitrogen oxides (NOx) and particulate matter (PM).

In cooperation with the National and Technical University of Athens an Interim Air and Noise Monitoring Plan was implemented for each airport and was included as an Annex in the EIA Studies.
The interim plan proposed a comprehensive air pollution and noise monitoring system approved via the Environmental Terms and its implementation will take place in the next two (2) years. Climate Change Resilience Study in order to identify and ensure that climate-related risks and opportunities are identified early on and managed effectively, by integrating the findings of this study in the airport’s Master Plans.

Following an extensive evaluation Asbestos Management Plan is under implementation and distributed at all the airports in order to manage the risks from Asbestos Containing Materials (ACMs) and minimize asbestos related health hazards to all personnel working on or visiting airport sites. The procedures described in the plan cover all facilities under the control of FG within the Concession Areas during performance of construction and / or maintenance.

Approved Construction and Environmental Management Plans (CEMP). In total 7 Construction Management Plans have been implemented, an overall for the entire Cluster and a Site Specific plan for each airport individually. Each plan shall address all environmental procedures, protocols and processes in order to conduct the works in accordance with all applicable Laws, Regulations, Permits and ensure the same to be consistent with Best Industry Practice. The basic principle of this CEMP is the construction of the project aiming at the environmental protection and classification of the project among the most environmentally friendly projects in Greece. This CEMP is considered a live document to be developed further during the Project in accordance with the requirements of the DCC and the modified Environmental Terms of the Whole Project.

Approved Health and Safety Manual and Health and Safety Plans for the Construction. In total 7 Construction Health and Safety Site Specific Plans have been implemented for each airport and an overall for the entire Cluster, Health and Safety Manual. The manual and plans (for each site) depict the Contractor’s requirements regarding Health and Safety in alignment with Greek legislation, OHSAS 18001, as well as FG’s requirements.
5.3 What could happen to the environment

**Physical Environment**
All the proposed works are located within each airport’s existing boundary. During construction of the proposed works no major issue from dust is anticipated.

**Subsurface and Soil**
Soil compaction will generally occur during most of the construction activities involving heavy machinery, especially when the soil is wet. The main impact during construction will occur from the excavation due to the construction of the expansion works. It is expected that the morphology and the surface characteristics of the surrounding area will not have major impacts during the construction of the proposed works.

**Water Resources**
Possible water pollution sources are the storm water runoff of the construction site, or other runoff and possible accidental oil or fuel leakage. Water consumption for construction purposes is considered not significant. Regarding the urban wastewater, the estimated loads from the construction site is not expected to significantly increase the airport’s load.

**Landscape & Visual Amenity**
During construction there will be impacts on landscape and visual amenity but these are not considered significant and will be short – term and totally reversible. It should be noted that the proposed works are designed to be consistent and enhance the area’s aesthetics.

**Acoustic Environment**
The proposed works are likely to result in local noise disturbance from construction activities and machinery. No significant impact (noise or vibration) is expected on residential properties from hammering as the majority of these activities will take place within the terminals.

**Solid Wastes / Toxic and Dangerous Wastes**
For the waste produced during construction, the estimated quantities will not affect the existing management methods.

**Socioeconomic Environment**
For the socioeconomic environment opportunities and benefits are expected from the construction of the proposed works. It is estimated that significant employment positions will occur during construction.

**Cultural Heritage**
Potential sites within the Project footprint will be investigated further prior to construction. Any findings will be addressed in cooperation with the Local Archaeological Authorities.
5.4 On-going Actions

Actions regarding environmental protection are:

**Monitoring plans**
Monitoring plans are being implemented for each of the following environmental attribute:

- air (including CO2 emissions),
- noise,
- water,
- soil.

The frequency of the monitoring is being set according to the respective Environmental Terms.

**Waste Management Plan**
FG has created Pilot Waste Management Plan for Thessaloniki airport that can be used as a guide for the implementation of WMPs for the remaining airports.

**Recycling of Hazardous Waste**
In compliance with the relative legislation regarding waste management and recycling FG has active contracts with Alternative Management Systems in order to manage the recycling of hazardous waste such as:

- Used Mineral Oils,
- Old Tires,
- Electrical and electronic Equipment,
- Batteries and Accumulators.

Other hazardous waste are handled ad hoc after being identified with their respective codes as per the European Waste Catalogue.

**Wildlife Management Program** to proactively manage bird and wildlife strike risk. Under this program, habitat is managed to limit large or flocking wildlife species attraction. Active dispersal of birds occurs when these are present on and around the active runways.

**Quantification of Greenhouse Gases (GHG) emissions.** A methodology was developed and implemented in order to quantify the GHG emissions since CCD.
6. Sustainable Development

6.1 Overview and Objectives – Environmental and Social Management Plan

Company Objectives:

The objective of FG is the safe, secure, and efficient management of the 7 Greek Regional Civil Airports of Rodos (RHO), Kos (KGS), Santorini (JTR), Mikonos (JMK), Mitilini (MJT), Samos (SMI) and Skiathos (JSI).

FG provides the infrastructure and the necessary services for meeting, sending off and serving of airplanes, passengers, baggage, cargo and mail according to the best practices and the applicable legislation.

FG aims to create a pleasant passenger experience for its customers, thus creating new business opportunities for concessionaires and service providers; as well as to make our airports attractive and environmentally friendly destinations for passengers, tour operators and airlines in the region.

We will constantly improve the quality of our services, productivity and environmental performance in order to keep our market place in the long term.
Requirements

FG incorporates, as applicable, Fraport AG policies, established procedures and management systems in the development of its own respective documents.

Through the development of the airport masterplans, FG minimized the need for land acquisition and mitigated / eliminated any degradation or disturbance of landscape features, wildlife habitats or cultural heritage sites and monuments.

FG, through promotion of sustainable growth of air-travel, is benefitting local communities by boosting regional financial activity and job creation. The project will influence sustainable local working conditions and hiring, by both FG and its business partners.

The Environmental Management System will constantly be in compliance with all ordinances, statutes and regulations of Greek State Agencies and European Union legislation related to the protection of the Environment, as required of enterprises such as ours.

The approved EPC contractor and subcontractors, as well as the ground handlers and fuel handlers operating in the airports hold ISO14001 certification or equivalent.

The EPC agreement requirements specify that the contractor shall elaborate and enforce a project specific Construction Environmental Management Plan (CEMP).
6.2 Environmental dimension as incorporated in planning and designs

Airport tenants, contractors and operators are required to ensure that appropriate systems and procedures are in place to manage environmental risks associated with their activities. Tenants are encouraged to conserve energy through KENAK, the Greek state “Regulation on the Energy Performance of Buildings” and the technical guidelines issued by the Technical Chamber of Greece to be applied to all new and extensively renovated airports buildings. Recommendations will be made to tenants during audits on methods to reduce their energy and resource consumption and waste generation.

FG, in the lines of the future ISO 50001, will inspect each airport, tenant, contractor and operator activities. Where excessive resource consumption is observed, airport operators are required to monitor and reduce such consumption.

Energy

Energy conservation as already incorporated in the design will be achieved through:

- Terminal use minimization during winter period by isolating unnecessary parts of the buildings with minimal use.
- Protection of the building against outdoor adverse conditions by enhancing shell insulation specification, solar protection glazing and / or external shading.
- Use of natural light preferred where possible.
- High efficiency chilled and hot water production equipment.
- Adjustable energy consumption to variable load demand (variable flow systems).
- Energy recovery systems in the air-handling units’ design and free cooling and night cooling mode concepts.
- Installation of active power harmonic filters.
- Upgrade to low energy consuming lighting fixtures and automated lighting controls.
- Energy Management System in connection for monitoring energy consumption, providing trends and correlation data and introducing effective related controls.
- Energy Balance report as design deliverable that will constitute the base line for the elaboration of the Energy Management System.
Water Conservation and Quality

- Site-wide drainage and wastewater monitoring schemes as appropriate.
- Landscaping that features xeriscape and drought-tolerant species.
- Monitoring to track water consumption.
- Storm water pollution prevention plan for all new construction.
- Spill traps/management, oil separators and closed fuel delivery systems as foreseen in the environmental terms.
- Refurbishment of existing Waste Water Treatment Plants - New connections to Municipal Sewage Networks.

Resources (materials and waste management)

Selection of materials that reflect our sustainability approach will consider, when possible, the following criteria:

- Reuse of building & appropriate excavation materials onsite.
- Future use of lower biochemical oxygen demanding (BOD) de-icing materials.
- Use of nontoxic pest-control products.
- Use of construction materials & interior finishes with high-recycled content and low VOC paints is encouraged.

The CEMPs for all airports include Construction Waste Management Plans which are based on the principles of Reduce, Re-Use, Recycle. To this end the re-use of materials (e.g. in backfilling) is being set in force in order to minimize the materials that end up in landfills. Likewise recycling of materials through Alternative Management Systems is implemented.

Energy conservation is promoted also in all construction sites by following simple practices. Finally, biodiversity is preserved through the implementation of an Alien Invasive Species Management Plan.

<table>
<thead>
<tr>
<th>Target</th>
<th>Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation of energy audits in each airport</td>
<td>Within 2018</td>
</tr>
<tr>
<td>Establishment of Carbon Management Plan to reduce emission</td>
<td>After Imminent Works Completion</td>
</tr>
<tr>
<td>Implementation of an EMS according to ISO 50001</td>
<td>Upon completion of IW</td>
</tr>
</tbody>
</table>

Table 4: Targets for sustainable development
7. **Soil Management**

7.1 **Overview**

FG’s objective is to protect soil from airport activities and appropriately manage and/or rehabilitate any contaminated sites.

The majority of contaminated sites is associated with historic activities on and off each airport including hydrocarbon spills, landfill activities and constituents of firefighting foams.

**Some activities that could affect soil are:**

- Construction and earthworks.
- Grounds maintenance including vegetation removal and weed control.
- Storage, handling, use and disposal of hazardous materials.
- Aircraft refuelling, vehicle and aircraft wash down.
- Aircraft, vehicle, mechanical plant and electrical equipment maintenance.
- Car parking.
- Waste management infrastructure, storage and disposal.
- Demolishing buildings containing hazardous materials.
- Surrounding land use.

**These activities could cause:**

- Contamination from spillage, leakage, seepage, or residual runoff from hardstand areas.
- Migration of existing contamination from the original source through natural pathways or disturbance during construction.
- Erosion.

7.2 **Soil Management Action Plan**

FG will regularly inspect the airport, tenant, contractor and operator activities. Where there is soil or groundwater contamination caused by their operations, airport operators will be required to undertake relevant measures to monitor, manage or remediate the contamination (obligation imposed by the Approved Environmental Terms).

According to article 13.4. of the Concession Agreement FG will aim to remediate any identified pre-existing contamination within the concession sites.

**Actions to manage potential impacts to soils include:**

- Periodic measurement campaigns to evaluate soil pollution and surveys of contaminated sites.
- Decontamination of polluted zones and soil remediation.
- Activities with the potential to contaminate soil or groundwater will undergo a risk assessment to update appropriate management procedures.

The Construction Environmental Management Plan includes a specific Erosion & Sedimentation Control Plan. This plan contains environmental management objectives, mitigation measures, inspection and reporting requirements relating to soil and water quality. The plan incorporates requirements from the Environmental Terms, as well as the national and European legislation.

The main objective of the Plan is to prevent the loss of soil during construction by storm water runoff and/or wind erosion, including protecting topsoil by stockpiling for reuse.

Airport tenants, contractors and operators are required to ensure appropriate systems and procedures are in place to manage specific environmental risks associated with their activities.
Already since 2016, an Environmental Baseline Survey took place in order to identify pre-existing contaminated areas.

In all FG airports specialized personnel conducted on site visits in order to record the existing contamination.

FG through the Soil Erosion and Sedimentation Plan has managed a high percentage of re-use of excavation and demolition materials for backfilling or use of aggregates.

### 7.3 Achievements (with respect to soil conservation)

<table>
<thead>
<tr>
<th>Target</th>
<th>Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remediation of any identified pre-existing contaminated areas</td>
<td>36 months after CCD</td>
</tr>
<tr>
<td>Re-use of excavation and demolition products</td>
<td>In imminent and future works</td>
</tr>
<tr>
<td>Coastline Monitoring</td>
<td>In Thessaloniki as appropriate after the completion of State Works</td>
</tr>
</tbody>
</table>

Table 5: Targets for soil management
8. Surface Water and Groundwater

8.1 Overview

FG’s objective is to protect surface water and groundwater from airport activities and appropriately manage or rehabilitate any contaminated sites.

All the airports of Cluster B are near coastal areas and are typical of coastal environments. Being close to the sea, surface and groundwater levels and quality can be susceptible to quality and quantity alterations affected by sea level rise, tidal influences and flooding.

In addition, some activities that could affect water quality may be:

- Changes to the drainage network, leading to increased flow velocities or reduced flood storage capacity.
- Development that creates increased impermeable areas and increased runoff.
- Construction, earthworks and vegetation removal.
- Weed and pest control.
- Aircraft refuelling.
- Equipment refuelling.
- Vehicle and aircraft cleaning.
- Aircraft, vehicle and equipment maintenance.
- Collection, storage, handling, use and disposal of hazardous materials.
- Waste management infrastructure and storage.
- Upstream land uses.
- Known and potentially contaminated sites.
- Potential malfunction of sewerage collection and wastewater treatment.

These activities may cause:

- Contamination from spillage, leakage or seepage into storm water infrastructure.
- Disturbance of known and potentially contaminated sites.
- Changes to the upstream or downstream flooding regime and possible disturbance of local water drills.
- Increased flow velocities, leading to erosion.
- Creation of mosquito-breeding habitat leading to public health risks.
- Attraction or spread of pest animals and weeds.
- Possible disturbance of local fauna and flora.

8.2 Water Management Plan

FG is developing water management procedures aiming to eliminate any potential surface and groundwater environmental disturbance.

Surface and groundwater quality monitored at various sites regarding physicochemical parameters by using:

- monitoring boreholes
- surface water samples across the airports.

All chemical analyses are conducted in licensed and certified laboratories.

Measures to manage potential impacts to surface water and groundwater quality include:

- Implementation of water protection measures as described in the Environmental Terms for each airport.
- Spill response and reporting procedures.
- Waste handling procedures.
- Installation and maintenance of storm water treatment devices (oil-separators and sand traps).
- Tenant and construction audits with routine inspections.
- Incorporation of existing surface water and groundwater information during planning the new developments (imminent works).
- Drainage infrastructure designed and modelled to prevent potential flood impacts.

The Construction Environmental Management Plan includes a specific Erosion & Sedimentation Control Plan. This plan contains environmental management objectives, mitigation measures, inspection and reporting requirements relating to soil and water quality. The plan incorporates requirements from the Environmental Terms, as well as the national and European legislation. The main objectives of the Plan are

- Prevent sedimentation of storm sewer or receiving streams.

FG regularly inspect the airport, tenant, contractor and operator activities. Where there is water contamination or impacts to the drainage network caused by their operations, airport operators will be required to undertake relevant measures to monitor, manage or remediate the impacts.
8.3 Achievements

As of January 2018 a Water Quality Monitoring Program, is being implemented. The Monitoring Program consists of chemical analysis of water samples in predefined positions within the airport throughout the year.

All the Waste Water Treatment Facilities have undergone heavy maintenance works while the detail design provides for either the connection to the Municipal Sewage Network or for the construction of new high end on site facilities.
9 Biodiversity

9.1 Overview

FG values greatly the protection of the ecosystems and plans to:

- appropriately manage biodiversity values across the network of its 7 airports.
- reduce adverse impacts to surface water (lakes, lagoons and sea) and groundwater from airport activities.
- protect and enhance the ecological values of conservation areas.

As mentioned previously the majority of the airports, especially in SMI, are within or in close proximity of protected areas with great ecological value.

Wildlife Hazard Management

The presence of certain wildlife species (large and flocking birds, foxes, etc.) at airports can pose a significant risk to aircraft safety. FG has established a Wildlife Hazard Management Program to proactively manage bird and wildlife strike risk.

Under this program, habitat is managed to limit attracting wildlife species. Active dispersal of bird and wildlife hazards occurs.

The wildlife management takes into consideration the following principles:

- Non lethal bird dispersal methods such as the bioacoustics method is applied by the use of appropriate portable systems, installed on the Follow-me vehicles. The use of pyrotechnics will be employed in the future at airports with a higher risk profile.
- Habitat management and landscaping techniques that reduce the attractiveness to birds.
- Monitoring of bird populations and their movements.
- Cooperation with the Hellenic Ornithological Society and Archipelagos Institute of Marine Conservation.

FG manages biodiversity at the airports and works to reduce the potential impact of its operations on the biodiversity of the surrounding area.

Some activities likely to affect biodiversity at each airport may be:

- Grounds maintenance activities including vegetation clearing and slashing.
- Weed and animal pest control.
- Hazardous wildlife control procedures.
- Vehicle or aircraft movements.
- Construction and demolition works.

These activities could cause:

- Reduced native biodiversity.
- Introduction and spread of weed and animal pest species.
- Fragmentation of habitat from clearing associated with new developments.
- Degradation of foraging or breeding habitat.
- Loss of native species from weed, pest and fire management activities.
Lemonakia beach on Samos.
9.2 Biodiversity Management Action Plan

Actions that can be protective of biodiversity values are:

- Bird monitoring system in cooperation with the Hellenic Ornithological Society.
- Wildlife Hazard Management Training.
- Grass-cutting and tree-cutting in certain time periods according to relevant Environmental Terms.
- Monitoring significant species. Especially on Samos (SMI airport) for the management of the Golden Jackal, and its habitat, which is protected by EU provisions.
- Landscaping procedures and guidelines with an emphasis on using locally sourced, endemic species.
- Controlled spraying using biological pesticides (especially for overpopulation of species such as mosquitos).

The CEMP address biodiversity issues during construction through the Alien Invasive Species Management Plan. The basic objectives are the following:

- Ensure alien plants do not become dominant in parts or the whole site through the control and management of alien and invasive species presence, dispersal & encroachment
- Initiate and implement a monitoring and eradication programme for alien and invasive species

<table>
<thead>
<tr>
<th>Target</th>
<th>Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wildlife Hazard Management Plans which will include consideration of biodiversity conservation Identification of potentially endangered species and their habitats,</td>
<td>Ongoing - within 1st year of operations</td>
</tr>
<tr>
<td>Bird population surveys in cooperation with experts from the Hellenic Ornithological Society.</td>
<td>Ongoing - Annually</td>
</tr>
</tbody>
</table>

Table 7 Targets for biodiversity

9.3 Achievements

FG has already conducted Wildlife Hazard Management Plans according to EASA regulations. The plan incorporates all the aforementioned objectives and actions.

FG in cooperation with Archipelagos, a NGO working on the protection of the habitat species of the Golden Jackal (*Canis aureus*) and its habitat, examines the parameters of safely relocating the jackals that were found within SMI airport boundaries.

Archipelagos conducts a survey since May 2017, in order to assess the possible entry points of Golden Jackals (*Canis aureus*) into airport area, as well the overall population within the airport, in order to support remedial action for their exclusion.

On the 12/03/18 the first phase of herding of the population of Golden Jackals (*Canis aureus* L.) out of Samos Airport -Aristarchos of Samos- was conducted. The herding was carried out by a group
of around 80 people that was comprised of 35 members from Archipelagos, 25 airport staff and 20 staff members from the local fire brigade.

This first herding attempt did not immediately exclude jackals from SMI but the process was worthwhile as new den sites were located and will be monitored as the jackal pups are born in spring. This was the last opportunity to attempt a herding of the Golden Jackals within the airport during the breeding period before the population is completely excluded in the autumn of 2018. When vegetation at the airport is cut and removed, herding will be more effective in excluding jackals from the airport.

Archipelagos will continue to observe the area with the use of InfraRed camera traps, in order to gather more data and will then proceed to propose measures and action for its relocation.

Another highlight from the ongoing wildlife surveys conducted by ornithologists on and off Samos airport includes the observation of the Ruddy Shelduck.
10. Cultural Heritage

10.1 Overview

The sustainable and respectful management of the heritage values will be achieved by:

- Developing and maintaining a detailed knowledge of the heritage values that exist within and in the proximity of FG’s concession areas;
- Identifying heritage values early on in the development process so that those heritage values can be considered, avoided and protected;
- Developing and submitting applications under relevant legislation, in consultation with relevant stakeholders, to impact those heritage values when that cannot be avoided;
- Developing and implementing procedures for appropriately managing heritage values using the guiding principles of avoid, protect and mitigate;
- Ensuring compliance with heritage legislation, associated statutory approvals and the provisions of the concession agreement; and
- Educating FG staff of the heritage values that exist within and in the proximity of FG’s concession areas and the appropriate actions when interacting with these values.

10.2 Cultural Heritage Management Plan

FG’s management of cultural heritage will follow procedures laid out in the Concession Agreement, consistent with the following practices:

- Test excavations to determine the existence of Antiquities.
- Vibration monitoring where necessary.
- Maintain the existing building structure, envelope, and interior non-structural elements of a historic building or contributing building in a historic district.

Some of the airports of Cluster B are in proximity of cultural heritage important values (e.g. proclaimed archaeological sites, churches, monasteries, sites of important aesthetic value etc.).

Activities with the potential to affect cultural heritage at the airports include any ground disturbing activities that could damage known or unknown heritage value. This would include:

- Grounds maintenance activities including vegetation clearing and slashing.
- Construction and demolition works.
Already for each airport FG has created a Catalogue with relevant heritage sites. The catalogue was part of the Heritage Action Plan that was implemented by FG and includes the following (where applicable) per airport:

- Archaeological places and their relevant protection zones.
- Places of significance to the cultural and spiritual beliefs.
- Artifacts and the remains of important structures.
- Sites of exceptional beauty and traditional settlements.
- Architectural landmarks & building of beauty and/or importance.

The Heritage Action Plan includes the Chance Finds procedure, which aims to address the possibility of Antiquities becoming exposed during ground altering activities within the Concession Areas of the Regional Airports and to provide protocols to follow to ensure that the Antiquities are documented and protected as required.

The purpose of the procedure is:

- to avoid significant adverse impacts to antiquities
- to describe the provisions for managing chance finds through a chance find process which will be applied in the event that cultural heritage is subsequently discovered.

This procedure includes guidelines and minimum requirements for the Contractor and other parties to define its own chance find procedures appropriate to the nature and scale of their construction works.

The Ministry of Culture and Sports has granted approvals for all airports of Cluster B concerning excavations. The decision also stipulates that the presence of an archaeologist is mandatory during all excavation works. These actions essentially ensure the identification and detailed understanding of heritage values within proposed development areas.

The Central Architectural Council, has approved the new designs for all seven (7) airports.

### Table 8 Targets for cultural heritage

<table>
<thead>
<tr>
<th>Target</th>
<th>Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate with Hellenic Ministry of Culture and Sports to develop corporate level cultural heritage procedure including chance finds procedure (in accordance with the requirements of Article 15 of the CA).</td>
<td>During Imminent Works</td>
</tr>
<tr>
<td>Develop site specific cultural management plans in cooperation with Greek authorities and ensure implementation by contractors.</td>
<td>Achieved – Updated in regular intervals</td>
</tr>
<tr>
<td>Develop and maintain a heritage database within and in the proximity of FG’s concession areas.</td>
<td>Achieved and revised as necessary</td>
</tr>
<tr>
<td>Increasing awareness by FG staff and airport tenants of the diverse heritage values within FG’s concession areas, the importance of these values and the process to protect these values.</td>
<td>Ongoing - within 1st year of operations</td>
</tr>
</tbody>
</table>

10.3 Achievements

Already for each airport FG has created a Catalogue with relevant heritage sites.

The catalogue was part of the Heritage Action Plan that was implemented by FG and includes the following (where applicable) per airport:

- Archaeological places and their relevant protection zones.
- Places of significance to the cultural and spiritual beliefs.
- Artifacts and the remains of important structures.
- Sites of exceptional beauty and traditional settlements.
- Architectural landmarks & building of beauty and/or importance.

The Heritage Action Plan includes the Chance Finds procedure, which aims to address the possibility of Antiquities becoming exposed during ground altering activities within the Concession Areas of the Regional Airports and to provide protocols to follow to ensure that the Antiquities are documented and protected as required.
11. Air Quality

11.1 Overview

FG manages airport operations in a way that prevents air emissions causing a nuisance or harm to neighbouring receptors.

Some activities that generate air emissions include:
- Aircraft ground operations including refuelling.
- Vehicle and equipment operations.
- Use of air-conditioners, pumps and generators.
- General Aviation maintenance, including spray painting and paint stripping activities, workshop activities and cleaning operations using organic solvents.
- Use of ground power units and auxiliary power units.
- Grounds maintenance, including vegetation removal and weed control.
- Construction and demolition works.

These activities could cause:
- Air emissions, including greenhouse gases and potentially ozone depleting substances.
- Reduced visibility (mainly from dust or smoke).
- Public nuisance or health issues.
- Offensive or concerning odours (e.g. fuel odours).

11.2 Protective actions

Measures to manage potential impacts to air quality include:
- Environmental awareness and inductions.
- Monitoring plan and implementation of the measures imposed by the Environmental Terms. The plan includes type and frequency of monitoring parameters and monitoring equipment. The gathered data will be evaluated, air pollutant contours will be calculated, and the subsequent trends will be presented. Relevant measures will be adopted in case of limits exceedance.
- Appropriate collection and disposal of ozone-depleting substances from air-conditioning units.
- Maintenance of vehicles and equipment to prescribed standards.

The CEMP’s include a Dust Management Plan for relevant construction projects addressing potential local air quality impacts including dust control measures.

In order to eliminate the environmental impacts to ambient air quality during construction, the following measures are to be taken according to the Environmental Terms of the project:

1. Use of the excavated material for land filling inside construction site, taking into consideration:
   - the content of the material and the possibility to use it as it is or with enrichment
   - the position of the temporary storage areas

2. The necessary material for the construction of the project, that is impossible to derive from the excavations, will be transferred from existing and legal quarrying, which complies with the Environmental Terms. The mitigation measures include the following options:
   - Surface watering or equivalent measures, will be applied on disturbed land at construction sites and other unpaved surfaces to reduce particle suspension by vehicles.
   - Covered trucks to prevent dust dispersion.
   - Wheel washing from mud and dust before leaving outside construction site as required.
   - Fencing the entire area of the construction site, to limit the dispersion of dust and other pollutants during the construction works.
   - Measures to prevent spreading of solid in case of rainfall such as configuration of soil.

Additionally the Contractor has created an Indoor Air Quality Management Plan in order to address the dust issues from the indoors construction works. The plan includes dust suppression measures and is modified accordingly for each site.
FG is also planning the phased replacement of terminal package air-conditioners that use ozone depleting substances. 

Airport tenants, contractors and operators are required to ensure appropriate systems and procedures are in place to manage specific air quality environmental risks associated with their activities.

FG will regularly inspect the airport, tenant, contractor and operator activities. Where there are unacceptable air emissions caused by their operations, airport operators will be required to undertake relevant measures to monitor, manage or remediate the impacts.

<table>
<thead>
<tr>
<th>Target</th>
<th>Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ensure appropriate servicing and maintenance of equipment.</td>
<td>Ongoing – Throughout the concession period</td>
</tr>
<tr>
<td>Air monitoring plan for all airports</td>
<td>Interim monitoring plan – 2018 and 2019</td>
</tr>
<tr>
<td>Implementation of Green House Gas Baseline</td>
<td>Ongoing – Within 2018</td>
</tr>
<tr>
<td>Quantification of CO2</td>
<td>Annually</td>
</tr>
<tr>
<td>Join Airport Carbon Accreditation Program</td>
<td>Until 2020</td>
</tr>
</tbody>
</table>

Table 9 Targets for air quality

### 11.3 Achievements

FG has already implemented an Interim Monitoring Plan for Air Quality in cooperation with the National and Technical University of Athens. The Plan was submitted to the Ministry of Environment and Energy as an Annex to the Modification Dossiers of the EIA studies, was approved via the Environmental Terms and its implementation will take place in the next two (2) years.

Air Quality Measurements were conducted during July to August 2017 at RHO airport.

The monitored pollutants were sulfur dioxide (SO2), nitrogen oxides (NOx), ozone (O3), carbon monoxide (CO), particulate matter (PM 2.5, PM 10).

Quantification of Greenhouse Gas emissions for all 7 airports. The methodology followed for the quantification of GHG emissions was based on:


The emissions include the GHG emissions for all direct emissions (Scope 1) and indirect emissions from consumption of purchased electricity, heat or steam (Scope 2) produced within the boundaries of each airport based on the definitions given in GHG protocol.
12. Noise

12.1 Overview

Noise requirements apply to noise associated with ground-based airport activities and aircraft landing and take-off procedures as well as ground running and idling on aprons.

Noise receptors surrounding the airport that could be affected are predominantly the surrounding or adjacent in some cases, urban areas and local fauna.

During maintenance and Imminent Works noise will be carefully managed to reduce off-site impacts.

FG will manage noise in such a manner so as to ensure it does not cause nuisance to, or adversely affect, neighbouring receptors. Activities could generate noise may be:

- Aircraft landing and take-off procedures.
- Aircraft ground running and idling on aprons.
- Aircraft maintenance and testing activities.
- Fixed and mobile equipment.
- General airport and infrastructure maintenance activities.
- Internal road network traffic.
- Tenant and operator activities.
- Construction and demolition works (temporary only for the duration of Imminent Works implementation).

These activities could cause:

- Nuisance to airport operators and the community
- Disruption in roosting and breeding behaviour of local fauna.

12.2 Noise Management Plan

FG plans to produce a noise management plan during the operational period, for each airport.

The measures imposed by the Environmental Terms will be implemented via a Monitoring plan. The plan will include type and frequency of monitoring parameters and monitoring equipment. The gathered data will be evaluated, noise contours will be calculated, and the subsequent noise trends will be presented. Corrective actions are implemented in case of limit exceedance.

Measures to manage potential impacts from noise emissions include:

- Environmental awareness and inductions.
- Recording, investigation and follow-up of noise enquiries.
- Implementing operational procedures for noise-generating activities.
- Tenant and construction audits.
- Aircraft ground running policy and review of the policy in response to airport operational matters and tenant feedback.
- Regular servicing and maintenance of vehicles and equipment.

Implementing noise control measures through CEMPs as standard. The CEMP's include a Noise Management Plan in order to keep noise levels within acceptable limits.

The Contractor will proceed to the following steps:

1. The contractor has estimated the positions of the construction areas where the activities will be executed considering also the planned timetable of activities.
2. The Contractor undertakes noise measurements to make sure that legislated limits are kept.
3. In case that there is no possibility to modify the timetable of the project, the contractor will investigate the occasion to reduce the duration of the noisy activities, and / or proceed with the following measures:

These activities could cause:

- Screening and reduction of construction noise with noise barriers, especially at areas close to sensitive noise zones is foreseen where exceeding limits.

FG will regularly inspect the airport, tenants, contractor and operator activities. Airport tenants, contractors and operators will be required to ensure appropriate systems and procedures are in place to manage specific noise-related environmental risks associated with their activities.
12.3 Achievements

FG has already implemented Noise measurements during the peak period of 2016 and 2017 at each airport.

Additionally, FG has implemented an Interim Monitoring Plan for Noise in cooperation with the National and Technical University of Athens. The Plan was submitted to the Ministry of Environment and Energy as an Annex to the Modification Dossiers of the EIA studies that was approved via the Environmental Terms and its implementation will take place in the next two (2) years.

<table>
<thead>
<tr>
<th>Target</th>
<th>Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise Monitoring Plan and implementation of it.</td>
<td>Interim monitoring plan – 2018 and 2019</td>
</tr>
<tr>
<td>Timely investigation of any reported inappropriate noise generation</td>
<td>When required</td>
</tr>
</tbody>
</table>

Table 10 Targets for noise
13. Waste Management

13.1 Overview

FG will ensure that storage, handling and use of waste materials (hazardous and non-hazardous) is carried out in accordance with applicable legislation, standards and state planning for waste management.

The main objective is to produce less waste where possible. Waste segregation at the source will be promoted for all personnel and tenants.

Recycling and re-use are both of great importance for FG and will be implemented throughout the operational period including construction works.

Airport operations inevitably produce solid waste on a daily basis from a variety of sources involving personnel, passengers, tenants and handlers. Also, a variety of hazardous materials are used such as lubricant and mineral oils, batteries and accumulators, tires, electronic and electrical equipment etc. Hazardous materials have the potential to cause harm to persons, property or the environment. As a result, they should be handled and used in an appropriate manner. Where feasible, FG will substitute, reduce or eliminate the use of hazardous materials and those used will be appropriately recycled according to relative legislation.

Airport tenants retain responsibility for solid waste as well as hazardous materials held in individual premises.

Some activities related to hazardous materials may be:

- Bulk fuel storage and handling including aviation, unleaded and diesel fuels.
- Aircraft refuelling, vehicle and aircraft wash down.
- Vehicle refuelling at the service station.
- Aircraft, vehicle and mechanical plant and electrical equipment maintenance.
- Construction, earthworks and demolition.
- Quarantine operations.
- General airport operation, construction, maintenance and landscaping including weed and animal pest control.

These activities could cause:

- Release of hazardous materials, leading to water, land and air contamination.
- Human and ecosystem health impacts.
13.2 Waste Management Plan

Waste Management Plan procedures will be developed so that waste streams are properly identified, segregated and treated, along the following lines:

- Separation of solid waste types at the point of generation. Use of specially designed waste bins for separation of paper, metal-plastic, glass, and organic.
- Dedicated areas for the collection and storage of recyclable materials.
- Hazardous waste disposed and recycled properly by certified handlers.
- Waste containers around the airport for passengers and tenants - transferred to onsite dumpsters and compactors, then transported to an offsite processing facility.
- Airport offices recycle paper, batteries, toners, electrical devices.

FG’s Health and Safety procedures – details procedures in relation to storage, handling and disposal asbestos and other hazardous materials, maintenance of asbestos register, Health and Safety incident reporting, etc.

Airport tenants, contractors and other airport operators are also required to ensure appropriate systems and/or procedures are in place to manage specific environmental risks associated with their activities and abide by the relevant legislative requirements for waste management.

FG will regularly inspect the airport, tenant, contractor and operator activities to check environmental risks associated with their activities in relation to hazardous materials are being managed appropriately.

Management of hazardous materials is also addressed through CEMPs for relevant construction projects. A Construction Waste Management Plan has been created and is in force along with a Hazardous Substances Management Plan in all 7 airports.

The Construction Waste Management Plan aims to reduce construction and demolition waste disposed of in landfills by recovering, reusing, and recycling materials.

The main objectives of the plan are:

- Diversion of waste from Landfill
- Backfilling of inert materials produced during earthworks on site
- Establishment of separate collection facilities (skips, collection points) for segregated or commingled recyclable materials in accordance with Environmental Terms
- Cooperation only with fully licensed carriers and receptors
- Selection of appropriate construction materials that will ensure maximization of reuse and recycling
- Reduce waste where possible
- Reuse materials where possible

Hazardous materials in relation to FG’s activities will be managed under different mechanisms depending on the nature of the activity.

These mechanisms include:

- Environmental Management Plan – includes procedures for spill response, interceptor trap maintenance, environment incident reporting, tenant audits etc.
- Airport Emergency Plan – details procedures for dealing with major incidents in relation to hazardous materials, fuel and oil spills.

In regard to the asbestos materials an Asbestos Management Plan will be implemented were the following actions will be included:

a. Labelling of the materials as asbestos containing materials.

b. Notification of the personnel working in the vicinity of these materials.

c. No disturbance of the asbestos materials.

d. Proactive painting of the external surfaces with plastic painting (optional).

f. Following asbestos removal the premises must be assessed conducting visual inspection and air monitoring in accordance with relevant Greek legislation for issuing Clearance Certificates – Certificates of Reoccupation. The assessment should be carried out by independent laboratory accredited by Hellenic Accreditation System (ESYD) for asbestos air sampling and analysis. The Hazardous Substances Management Plan (HSMP) forms part of the comprehensive suite of management plans that have been prepared for the construction phase of the Project. This document outlines the hazardous substances that are to be used or stored as part of the construction activities, and how the risks associated with these substances are to be managed.

The plan has been prepared for two distinct purposes:

- to provide information to the construction team as to acceptable management methodologies during the construction phase, and
- to provide information to the consenting authorities to demonstrate that the possible risks as a result of storage and use of hazardous substances has been considered and will be appropriately managed by the construction team.
Actions already achieved:

Contracts with Alternative Management Systems for the recycling of hazardous waste such as oils, batteries, tires, electronic and electrical equipment.

Equipment for handling Hazardous Waste for all 7 airports. As part of the overall waste management and its main objectives, FG proceeded to purchasing of new containers for the storage of hazardous waste until they are safely removed from the airports and dispatched for recycling.

The containers were for the following types of waste:

- Large Batteries and Accumulators
- Used mineral oils

For the barrels of the used mineral oils, oil spill pans were also purchased in order to minimize the risk of a spillage.

Informative stickers were also purchased for each of the containers.

### 13.3 Achievements

<table>
<thead>
<tr>
<th>Target</th>
<th>Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor chemical storage and handling practices during internal and tenant audits.</td>
<td>As per internal and tenant audit schedule</td>
</tr>
<tr>
<td>Monitor availability of up-to-date Materials Safety Data Sheets at points of use during internal and tenant audits.</td>
<td>As per internal and tenant audit schedule</td>
</tr>
</tbody>
</table>

Table 11 Targets for hazardous waste
14. Conclusion

The 2018 Environmental Strategy Report is not a business as usual strategy. The commitments, goals and initiatives will be challenging to plan, launch and deliver.

FG will monitor and report annually on progress against the goals and the lessons learned and will seek regular feedback and input on how to improve.