

ENVIRONMENTAL BULLETIN OF MITILINI "ODYSSEAS ELYTIS" AIRPORT (MJT)

Reference year 2022

Fraport Regional Airports of Greece B S.A.

Issue Year: 2023

Environmental Bulletin of Mitilini Airport "Odysseas Elytis" (MJT) - 2022



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1. INTRODUCTION

1.1. Location

"Odysseas Elytis" airport of Mytilene is located at a distance of 6km from the capital of Mytilene island, near the east coast of the island of Lesvos. At the south-west the settlements Akrotiri, Taxiarches and Aghia Marina are located, at the north the settlements Neapoli and Vareia are located, whereas at the south the village Agrilia Kratigos is located.

1.2. Administration

The airport administratively belongs to the Municipal Community of Mytilene and the Local Community of Aghia Marina of the Municipal Unit of Mytilene of the Municipality of Lesvos of the homonym Regional Unit that belongs to the Region of South Aegean

1.3. Environmental licensing

| Approved Environmental Terms | |
|-----------------------------------|------------------------------|
| E.T. Decision Reference number | JMD 81441/20.12.2002 |
| E.T. Amendment Decision Reference | Ref. No ок. 23984/11.05.2016 |
| Number | Ref. No ок. 1004/16.01.2018 |

1.4. Airport Basic Data

| Airport name IATA / ICAO | MJT / LGMT |
|--|---|
| Airport location – Airport Reference Point (ARP) | Latitude: 39° 03' 28" N Longitude: 26° 35' 55" E |
| Altitude | 18.41 m |
| Number of runways | 1 |
| Operation hours (summer) | 00:00 – 23:59 |
| Operation hours (winter) | 00:01 – 24:00 |

| Runways | L | Length/Width | | Code | | |
|---------------------------------|---|-----------------------------|---|------|-----------------|--|
| Runway | 2 | 2,406m x 45m | | | 14/32 | |
| Full length of parallel taxiway | | N/A | | | | |
| Number of taxiways | | 5 | | | | |
| | A | В | С | D | E | |
| Apron capacity | - | - | 4 | 1 | - | |
| Employees | | High season (31.08.2022) | | | eason .2022) | |
| Fraport Greece (FG) employees | | 33 | | 30 | | |
| Employees of other companies | | 287 | | 2 | 54 | |

| Те | rminal | |
|---------|------------------------------|-------|
| \succ | Total area (m ²) | 7.135 |



| Other buildings and service/storage areas | | | |
|---|-------|--|--|
| > RFF Station (m ²) | 1.180 | | |
| | | | |
| Parking Areas | | | |
| Car parking spaces | 141 | | |
| Bus parking spaces | 12 | | |
| Taxi parking spaces | 13 | | |

1.5. Airport facilities

1.5.1. Fuel Handlers

| Number of fuel handler companies | | | |
|---|-----|--------|-------|
| Number of fuel handler companies operating at the Airport | | | 2 |
| Installations inside the airport | EKO | GISSCO | HAFCO |

| Environmental Management System (EMS) | YES | YES | Not operating at the airport |
|---------------------------------------|-----|-----|---------------------------------|

1.5.2. Ground Handlers

| Number of ground handler companies | | | |
|---|---------|-----------|---------|
| Number of ground handler companies operating at the A | irport | | 3 |
| | | | |
| Installations inside the airport | SKYSERV | SWISSPORT | GOLDAIR |



TRAFFIC DATA STATISTICS 2.

2.1. Annual Traffic Data

Aircraft types

| Annual Traffic Data for the year 2022 | |
|--|---------|
| Overall Annual Air Traffic Movements ¹ | 6.184 |
| Percent of increase or decrease in relation to the previous year | 25,4% |
| Annual passenger traffic | 439.185 |
| Percent of increase or decrease in relation to the previous year | 53,9% |
| Annual cargo transferred (tn) | 164 |
| Percent of increase or decrease in relation to the previous year | -23,2% |

Prevailing aircraft types for domestic flights Aircraft type

| No. of flights |
|----------------|
| 2.938 |
| 743 |
| 452 |
| 332 |
| 314 |
| 270 |
| 64 |
| 62 |
| 50 |
| 50 |
| 150 |
| |
| No. of flights |
| 347 |
| 126 |
| 91 |
| 81 |
| 56 |
| 12 |
| 6 |
| |
| 4 |
| 4 4 |
| |
| |

¹ Military and training flights not included.



2.2. High season traffic data

| High season traffic data (June-September) | |
|--|--------|
| Highest traffic month | August |
| Air traffic movements during the month with highest traffic | 652 |
| Air traffic movements daily average number during the month with highest traffic | 21 |

2.3. Low season traffic data

| Low season traffic data (October-May) | |
|---|----------|
| Lowest traffic month | February |
| Air traffic movements during the month with lowest traffic | 376 |
| Air traffic movements daily average number during the month with lowest traffic | 13 |



3. AIRCRAFT NOISE

3.1. Noise measurements during the reference year

| Have noise measurements at the airpor reference year? | rt's surrounding area been performed during the YES | |
|--|--|--|
| Measurement points | | |
| Barra Ara Maria | | |
| Measurement points coordinate | | |
| | Neapoli area, north of the runway in a hotel yard. Affected by | |
| Θέση 1: 39° 04' 10" Ν 26° 35' 19" Ε | | |
| 26° 35' 19" Ε Θέση 2: 39° 03' 56" Ν 26° 35' 47" Ε | arrivals RWY 14 and departures RWY 32. East of the runway on a hotel roof. Affected by all flights to and from both directions | |
| 26° 35' 19" Ε Θέση 2: 39° 03' 56" Ν | arrivals RWY 14 and departures RWY 32. East of the runway on a hotel roof. Affected by all flights to and from both directions To the south of the runway, in the yard of a house. Affected by | |
| 26° 35' 19" Ε Θέση 2: 39° 03' 56" Ν 26° 35' 47" Ε Θέση 3: 39° 02' 06" Ν | arrivals RWY 14 and departures RWY 32. East of the runway on a hotel roof. Affected by all flights to and | |

Summary of measurement results:

Noise levels are monitored according to the airport's monitoring program. No exceedance of noise indicators levels Lden=70 dB(A) and Lnight=60 dB(A) was observed.

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3.2. Noise levels calculation based on noise simulation software

| Aircraft noise levels calculation based on noise simulation software | |
|--|--|
| Cofficiency used to N/A | |

Software used: N/A

Noise indicators and respective contours calculation: N/A

Noise contours: N/A

Summary of results:

According to environmental term, there is no obligation for noise simulation software this year.



4. AIR QUALITY

4.1. Air quality measurements during the reference year

| Have air quality measurements at the reference year? | airport's surrounding area been performed during the | YES | |
|--|---|------------|--|
| | Measurement points | | |
| | A Paraete and and a second as second and a | | |
| Measurement points | Measurement points description | . f | |
| Position 1 | Settlement Agrilia Kratigos at a distance of approximately 2 kn runway | n from the | |
| Position 2 | At a distance of approximately 700m to the north of the runway. | | |
| Measurement period: | 22.09.2022 - 07.10.2022 24.01.2023 - 08.02.2023 | | |
| Pollutants measured: | PM ₁₀ , PM _{2,5} , NO ₂ , SO ₂ , C ₆ H ₆ , O ₃ , CO | | |

Summary of measurement results:

Air quality is monitored according to the airport's monitoring program. No exceedance of the air quality limits was observed.

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4.2. Air pollutants emission and dispersion modelling

Calculation of air pollutants concentrations based on an emission and dispersion modelling NO

Software used: N/A

Pollutants concentrations and respective contours calculation: N/A

Summary of results:

According to environmental term, there is no obligation for air pollutants emission and dispersion this year.



5. WASTE MANAGEMENT

| Waste | Collection | Management/Disposal |
|---|--|--|
| Recyclables (paper, plastic, metals, glass) | Separate collection by the Municipality of Lesvos | Disposal at material recovery facility or transshipment for recycling |
| Residues (Mixed Waste) and Bulky Waste | Collection by the Municipality of Lesvos | Disposal in landfill |
| Notes: | | |
| their waste together with Fraport G Regarding the "alternative manage i. Waste Lubricant Oil (WLO): Col ii. Waste Electrical & Electronic E system "Appliances Recycling S iii. Accumulators: Collection and m iv. Small batteries: Collection and m v. Used tires: Collection and mana The total quantities of the hazard managed by licensed private comp of the legislation in force. 4. The total quantities of the produced final recipients, are recorded by Fr | reece B (central management). ment' waste categories (Waste lubrican lection and management by authorized Equipment (WEEE): Collection and ma S.A." anagement by alternative management nanagement by alternative management gement by alternative management gement by alternative management sys ous waste further to the above-mention anies which have a contract with Frapor d waste by category resulting from all action aport Greece B and submitted in the El | collector "CYTOP S.A." anagement by alternative management system "Re-Battery S.A." at system "AFIS S.A." |



6. ECOSYSTEM AROUND THE AIRORT

6.1. Flora-Fauna

| Flora | |
|---|-----|
| Are there protected zones of vegetation/habitats in the broader airport area? | YES |
| (if YES) Short description: Mitilini Airport "Odysseas Elytis" is near to the Natura 2000 sites: GR4110005 Lesvos: Kolpos Geras, Elos Ntipi Kai Oros Olympos (Area:11,918.14ha) | |
| GR4110013 Lesvos: Kolpos Geras, Eli Ntipi Kai Charamida (Area:5,172.26ha) | |
| Fauna | |
| Are there protected species of fauna/birds in the broader airport area? | YES |
| (if YES) Short description: | |
| The protected bird species that have been observed at Mitilini airport since April 2017 are presented below: | |
| Mitilini Airport "Odysseas Elytis" is near to the Important Bird Area GR138: Gera gulf, Ntipi and Charamida marshes, Lesvos (Area: 5661.95ha). | |
| Black stork (Ciconia nigra), Booted eagle (Hieraaetus pennatus), Eurasian skylark (Alauda arvensis), | |
| Lapwing (Vanellus vanellus), Mediterranean gull (Larus melanocephalus), Red-footed falcon (Falco vespertinus), Sandwich tern (Sterna sandvicensis), Short-toed snake eagle (Circaetus gallicus) | |



7. WILDLIFE HAZARD MANAGEMENT

| Wildlife strikes and wildlife hazard management measures | | |
|--|-------------|--|
| Wildlife species that suffered a strike | Strikes (%) | |
| Small passerines | 67% | |
| Pigeons | 17% | |
| Gulls | 16% | |
| Wildlife strike risk mitigation measures: | | |

The presence and behavior of wildlife species at Mitilini airport is monitored in regular intervals, daily, from dawn to dusk. Some of the wildlife control methods applied at Mitilini airport are: distress calls (bioacoustics), digital sounds, anti-bird laser, etc. Preventive long-term actions that are mainly related to habitat management measures (e.g. grass cutting, water body management) are also taken to further reduce the presence of species constituting a risk to flight safety. In addition, a NOTAM is published and regularly updated.



8. CULTURAL HERITAGE

| Have new cultural heritage properties been discovered during the reporting period? | | | NO | |
|--|-------------------|-------------------|----------------------|-------------|
| (if YES) Details provided in the table below: | | | | |
| Location | Date of discovery | Type of discovery | Additional protectio | on measures |



9. **RESOURCES CONSUMPTION**

9.1. Energy consumption

| Energy consumption (monthly electric energy consumption, in Kwh) | | |
|--|--------------|--|
| Total annual electric energy consumption (in Kwh) | 1.417.989,24 | |

9.2. Fuel consumption

| Fuel consumption | |
|--------------------------------------|-------------------------------|
| Number of FG vehicles at the airport | 11 |
| Total annual fuel consumption | Diesel (lt) 9.159,57 |
| | Unleaded gasoline (It) 400,75 |

9.3. Heating oil or natural gas consumption

| Heating oil or natural gas consumption | |
|--|-----|
| Total annual heating oil consumption (It) | -* |
| Total annual heating natural gas consumption (m ³) | N/A |
| *Heating and air conditioning is performed via heat pumps | |

9.4. Fuel consumption for generator

| Fuel consumption | |
|--|----------|
| Total annual consumption (m ³) | 1.705,19 |

9.5. Water consumption

| Water consumption | |
|--|----------|
| Total annual consumption (m ³) | 8.687,51 |



10. GREENHOUSE GAS EMISSIONS & CARBON FOOTPRINT

Greenhouse gas emissions that were included in the carbon footprint calculation are the CO_2 emissions included in scope 1 & 2 of the GHG protocol:

- Scope 1: Direct GHG emissions that occur from sources that are owned and/or controlled by the airport,
- Scope 2: Indirect GHG emissions from the generation of purchased electricity, steam, heat or cooling consumed by the airport.

| Source Flows | Total CO ₂ Emissions (t) 2022 |
|--|---|
| Direct emissions form heating fuel (scope 1) | 0,0 |
| Direct emissions from fuel used for fleet vehicles (scope 1) | 25,4 |
| Direct emissions from fuel used for generators (scope 1) | 4,5 |
| Indirect emissions from electricity consumption (scope 2) | 595,6 |
| Total (t) | 625,5 |
| Kg CO ₂ /passenger | 1,42 |

Notes:

Fraport Greece B is committed to the monitoring, management and reduction of its airports carbon footprint. In order for this target to be achieved:

- Direct and indirect carbon emissions from all the emission sources in the airports' boundaries are calculated and reported, based on the GHG Protocol (scope 1 & 2)
- The airport is certified according to ACA (Airport Carbon Accreditation), Level-1



11. HUMAN COMSUMPTION WATER MONITORING PROGRAM

| Human consumption water quality | |
|---|---|
| Water supply (public water network or airport's boreholes) | Municipal Water & Sewage Company (DEYA) of Lesvos |
| Is sampling of the airport's water network performed? | YES |
| (if YES) Sampling frequency: | Quarterly |
| Summary of results: The results of the microbiological and chemical analyses show that the parameters analyzed as regards the airport's water network are <u>within the legislative limits</u> defined by the Ministerial Decision $\Gamma 1 (\delta)/\Gamma \Pi$ ork. 67322/ GG 3282 B/19-9-2017 regarding the quality of human consumption water | |



12. RAINWATER

| RAINWATER (collection, treatment disposal and recipient) | | |
|--|--|----------|
| Area Collection/treatment/disposal | | [YES/NO] |
| Apron and manoeuvring area | Collected in drainage ditches leading to the sea | YES |
| Other runoffs (runway etc.) | Collected in drainage ditches leading to the sea | YES |
| Treatment of rainwater by oil-separator | | NO |

Rainwater quality

| Is sampling of the airport's rainwater performed? YES | |
|--|--------|
| (if YES) Sampling frequency: | Yearly |
| Parameters analyzed: pH, conductivity,TSS, DO, NO ₃ , NO ₂ , Oil & grease, BOD, COD, Total Petroleum Hydrocarbons (TPH), PAHs, BTEX, Heavy metals,PCBs, Detergents | |
| Summary of results: | |
| Surface rainwater quality is monitored according to the airport's monitoring program. Due to the absence of designated recipients and relevant national quality limits for surface rainwater, the Environmental Health & Safety Guidelines of the International Finance Corporation (IFC) are adopted. Surface rainwater monitoring for 2022, was not performed. | |



13. GROUNDWATER AND/OR SOIL AND/OR SOIL GAS MONITORING

| Groundwater and/or soil and/or soil gas quality | |
|--|--|
| Is sampling of the airport's groundwater and/or soil and/or soil gas performed? YES | |
| (if YES) Sampling frequency: Yearl | |
| Parameters analyzed: Groundwater: TPH, BTEX, benzene, MTBE, PAH (16 priority compounds according to USEPA, except Naphthalene) PAH [Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3,c,d)pyrene, Benzo(g,h,i)perylene], Naphthalen & Soil gas: Acetone, Benzene, 2-Butanone, Chlorobenzene, Chloroform, Chloromethane, 1,2-Dichloroethane 1,2-Dicholoroethene (trans), Ethylbenzene, n-hexane, 4-methyl-2-perntanone (MIBK), methyl-tertiary-butylether (MTBE), Naphthalene, Styrene, Tetracholoroethylene (PCE), Toluene, 1,1,1-Trichloroethane, Tricholoroethylene (TCE), Vinyl chloride (VC), Xylene (total) | |
| Summary of results: | |
| Groundwater quality is monitored according to the airport's monitoring program. Groundwater monitoring for 2022 was not performed. According to the approved environmental terms, monitoring of groundwater and air from the Fuel Handlers is not foreseen for the year 2022. | |



14. SEWAGE TREATMENT AND DISPOSAL

| | Sewage | |
|---|---|------|
| Sewage network to the municipal waste water treatment plant (WWTP) NO | | NO |
| | Autonomous airport's waste water treatment plant (WWTP) | YES* |

Blue water

Collection and disposal:

Collection in watertight tank and disposal to the municipal sewage network.

| Waste water treatment plant description (where applicable) Description of characteristics and condition of the airport's WWTP including possible problems. Type and frequency of the effluent quality measurements. | |
|---|---|
| Degree of treatment of airport's WWTP | Secondary treatment & chlorination |
| Treatment method | Prolonged ventilation |
| Disposal of treated wastewater | Limited irrigation during March-October according to the Environmental Terms** |
| Sludge disposal | Landfill |
| Sampling frequency of WWTP effluent | Monthly |
| Parameters analyzed | BOD, SS, TN, TP, T. Coliforms, E.coli, pH, residual Cl ₂ |
| Summary of quality of WWTP effluent | Limits as set in Table 1 of the Annex of JMD 145116/2001 |

*For the year 2022, the sewage were transferred to the local WWTP, for operational reasons. The WWTP restart is scheduled for 2023.