

2024

CANADIAN AIRPORTS

# SAFETY WEEK

## Environmental Safety



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# Introduction

- Canada's airports are committed to being leaders in environmental protection & aviation safety
- Within their operations, they minimize the impact on the environment by implementing practices & investing in equipment & technology
- Airports are regulated by TC & governed by a number of laws and regulations to ensure airports are safe & efficient while protecting the environment
- Attention to the quality of air, water and land will continue, with core environmental programs designed to effectively manage environmental risks & incorporate leading environmental practices

# Project Screening & Construction Monitoring

- Environmental management is integrated into planning, design, construction & operation of all new projects
- All capital projects are screened to review any potential risk to the environment prior to a project commencing
- Airports also invest in equipment & technology to minimize impacts to the environment



# Storm Water Management

## Spill Response

- Spills involving fuel or hazardous substances can affect surface water, soil and groundwater
- They can also cause fires or explosions, and be harmful to human health
- Airports provide clear guidance on preventing and mitigating releases of hazardous substances & ensuring effective cleanup & reporting



# Storm Water Management

## Glycol Mitigation

- Airports capture used glycol by de-icing fluids to minimize impact on environment, particularly in waterways
- The fluid is treated or recycled
- At some airports, the recycled product is re-certified & re-used for aircraft de-icing



# Habitat Management & Wildlife

- Airports are committed to ensuring safe aircraft operations & conserving wildlife
- Airport lands are managed to discourage or prevent specific wildlife from potentially coming into contact with aircraft
- Although birds are a primary concern, all mammals are encompassed in the program

# Habitat Management & Wildlife

Airports discourage birds from feeding in high-risk zones using various non-lethal techniques, such as:

- Draining airside fields to prevent flooding and to discourage waterfowl and gulls from frequenting the area
- Trained border collies, pyrotechnics, lasers and whips to scare or disperse wildlife
- Trap and transport raptors away from airfields
- Bird canons



Bird canons

# Air Quality & Emissions

- Some airports monitor air quality
- Emissions are generated from building and airport operations including vehicles, air-carrier ground operations and landing and take-off of flights
- Local air quality can be affected through the release of air contaminants such as volatile organic compounds and nitrogen oxides
- Airports implement measures to reduce emissions



# Air Quality & Emissions

Airports implement actions to reduce emissions from airports or stakeholders

Examples of actions include:

- LED lighting
- Installation of pre-conditioned air (PCA) and ground power units (GPU) at bridges, which minimize use of fossil fuel equipment
- Restrictions on use of fossil fuel equipment in baggage rooms
- Electric vehicles
- Work with municipalities to improve ground transportation
- Greening of taxi fleets
- Electric Vehicle Charging Stations
- Idle-free programs
- Use of biofuel



# Waste & Recycling

Airports identify and mitigate worker health and safety risks by ensuring good training on how to use, store and work with chemicals

Airports also divert other materials such as bottles, paper, glass, metal & plastics

Examples of waste-reduction projects include:

- Organic waste diversion
- Construction material reuse and recycling
- Materials recycling
- Sustainable printing



# Potable Water Testing

- Specific points are tested at airports to monitor for any variances to potable water used by the public and airport staff
- By monitoring regularly, airports are able to proactively identify any potential issues with potable water and reduce the chance of illness or related problems that would result.



Thank You For Participating In The

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