

Environmental Monitoring Report

1st Quarter: January - March 2024

Agenda

- Actions from last meeting
- General Sustainability Update
- Environmental Update
- Biodiversity Update
- AOB: Suggested topics for 2024

Sustainability Update – Q1 2024

- Materiality assessment for the airport's first Supply Chain Sustainability Charter.
- Hydrogen in Aviation report launch with easyJet, Airbus, Rolls Royce, GKN Aerospace and Orsted.
- Airside hydrogen-powered Ground Support Equipment trial successfully delivered. First airport in UK to trial this. Trial outcome to be published in April.
- Development work to support net zero ops: Installation of HVO tank and more charging points for BRS landside vehicles.
- Environmental Improvement Fund and new Diamond fund launching next week.

Supply Chain Impacts



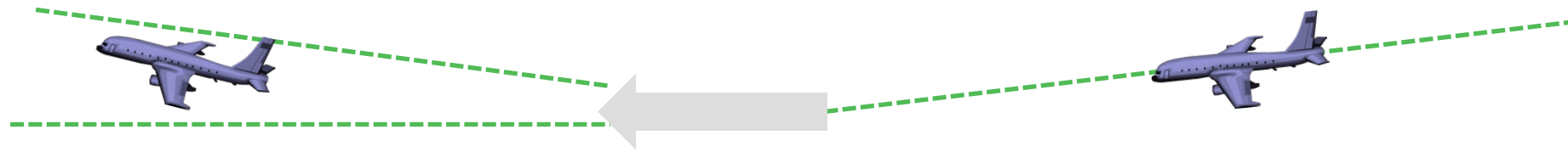
PROJECT ACORN



Environmental Update

Whitney Love

Airspace Activity- Approach and Departure

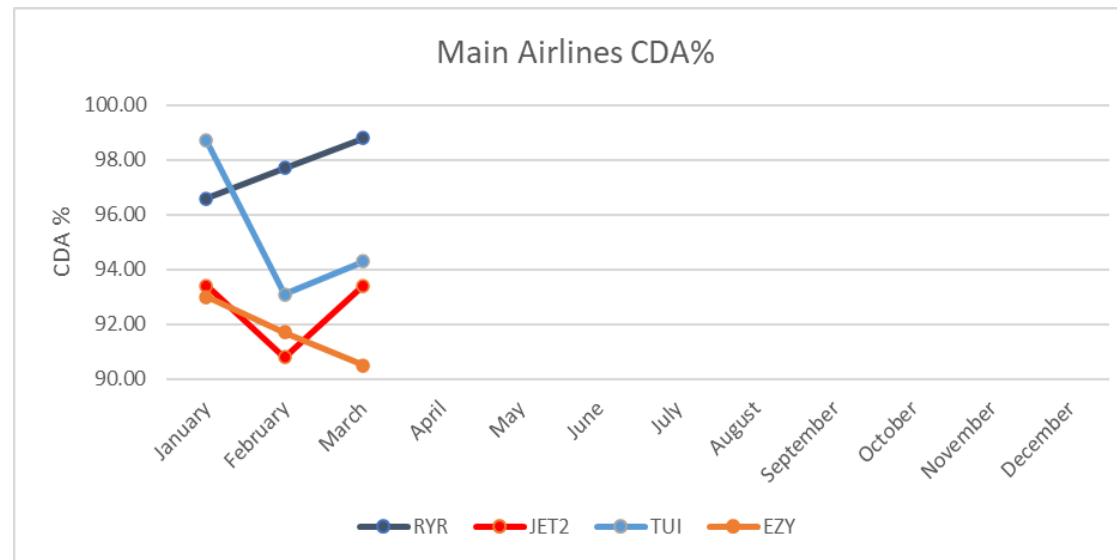


Track Keeping- within Departure Noise Preferential Routes

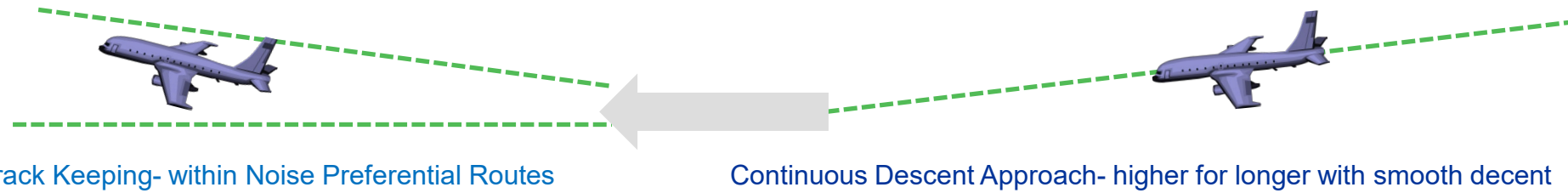
Continuous Descent Approach- higher for longer with smooth decent

- Performing stronger YTD than in 2023 (93.83)
- Factors affecting CDAs include weather and the experience of pilots operating flights that month that month
- EZY YTD performance up 1.33% from 2023 in March 24. Main based airline at BRS.

	January	February	March
2024 Total Arrivals	2113	2310	2712
2024 CDA% (All Airlines)	82.3	78.8	79.8
YTD	82.3	80.6	80.33
2023 CDA% (Main Airlines)	95.43	93.3	94.25
YTD	95.43	94.38	94.33



Airspace Activity- Approach and Departure



2024	Departures	Violations	% on track
Jan	2,036	11	99.46
Feb	2,264	9	99.603
March	2,685	16	99.41
April			
May			
June			
July			
August			
September			
October			
November			
December			
Average			



Data only inclusive of commercial movements.

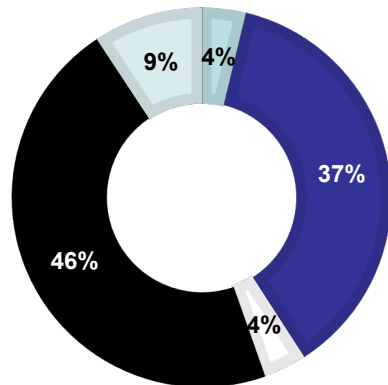
Previous data provided inclusive of helicopter movements and aircraft below 5700kg which are exempt from track keeping as aviation standard.

Total Paid under the Noise Insulation Scheme - 2023

Village	Number of Households	Costs
Cleeve	3	£7,088.51
Felton	13	£42,866.47
Winford	12	£25,792
Wrington	2	£4,146.17
Total	30	£79,893.15

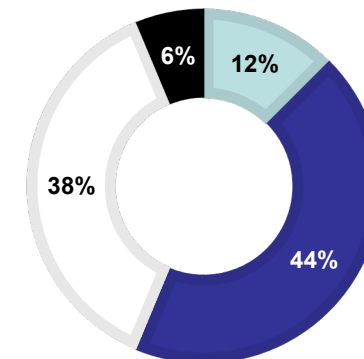
ELIGIBLE HOUSEHOLDS UNDER THE NIS

■ Cleeve ■ Felton ■ Wrington ■ Winford ■ Backwell



NUMBER OF HOUSEHOLDS APPLYING FOR NOISE INSULATION

■ Cleeve ■ Felton ■ Winford ■ Wrington



2024 Noise Mitigation Scheme (NMS)

Scheme goes live 1st week of April. Two application periods:

- Beginning of April – 1st of June
- Beginning of July – 1st of September

- £200,000 has been budgeted for the 2024 NMS. More properties will be eligible for the scheme as it now also provides funding for those within night noise contours.
- Previous schemes required a 50% contribution for some noise bands. This is no longer the case.

Contour	Sum
60 dB $L_{Aeq, 16hr}$ (0700h – 2300h) or above	£8,000
55 dB $L_{Aeq, 8hr}$ (23:00 to 07:00)	£5,550
57 dB $L_{Aeq, 16hr}$ (0700h – 2300h)	£5,000

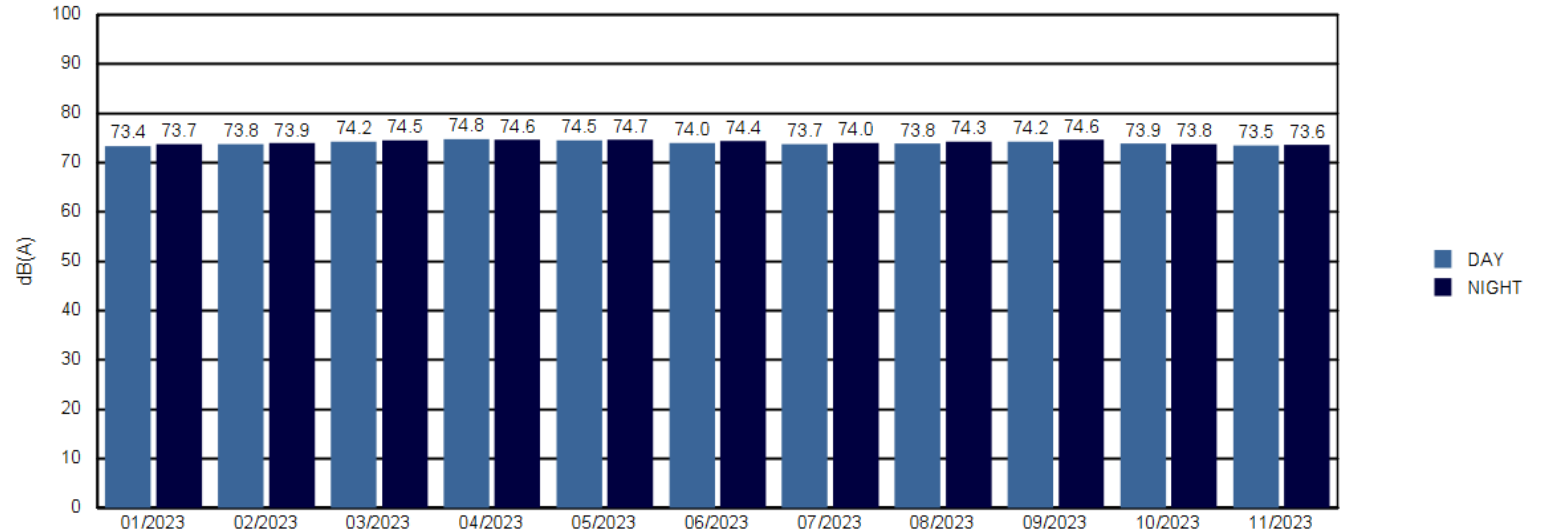
Day and Night Noise Climates 2022 vs 2023

Noise climate definition:

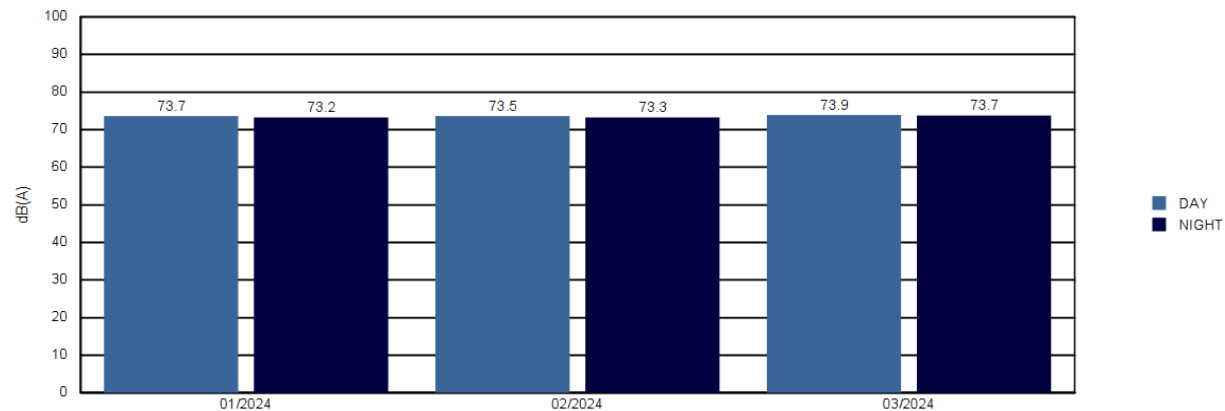
A noise climate is the average sound level experienced over a set time. In this case, noise is measured over the day period (0600 to 2330) and night period (2331 to 0559) for each month of the year at each of the Airport's static noise monitoring stations

Noise monitors in Felton, Congresbury and Littleton Hill

Lower average noise recorded YTD in 24 than 23

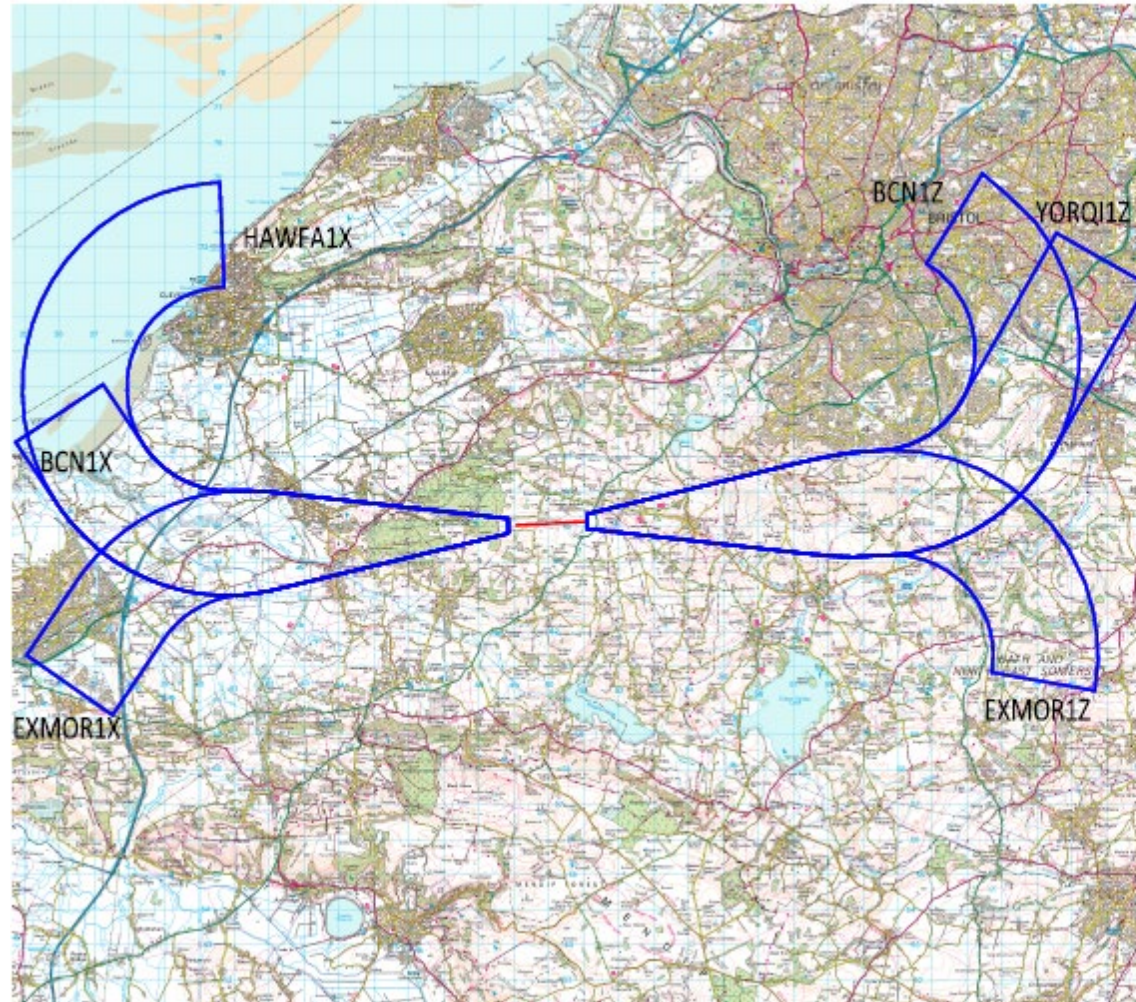


2023



2024

Noise Preferential Routes



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LEGEND:

- Bristol Airport Runway
- Departure Route Corridor

Rev	Date	Description	Initials

REVISIONS

**Bickerdike
Allen
Partners**
Architecture
Acoustics
Technology

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**Bristol Airport
Noise Action Plan**

Departure Route Corridors

DRAWN: JC

CHECKED: NW

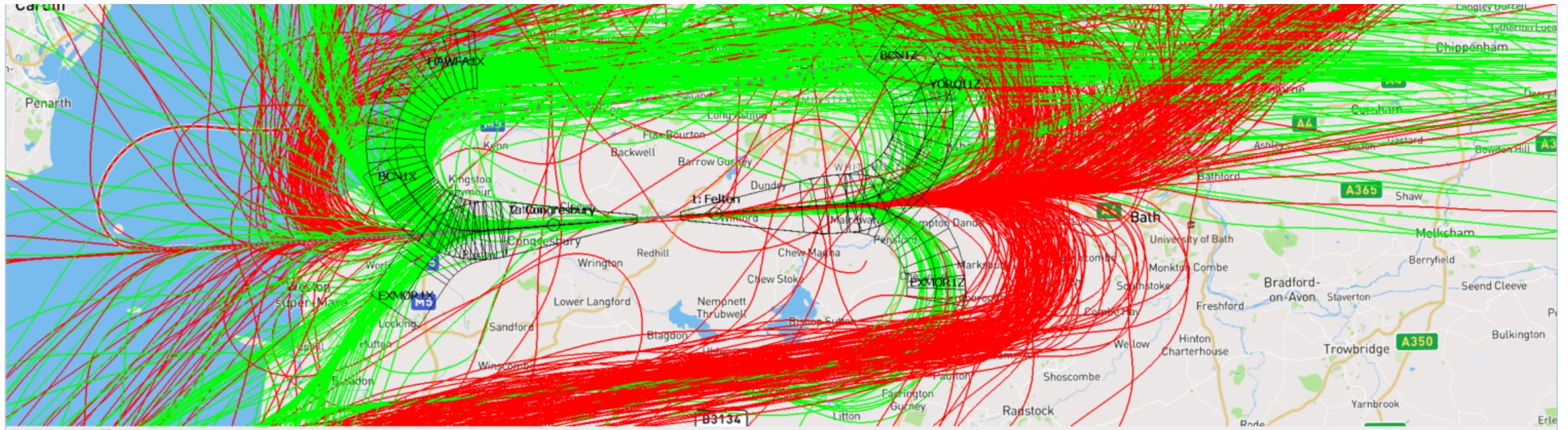
DATE: June 2023

SCALE: 1:150,000@A4

Drawing No:

A11519 01 DR001 1.0

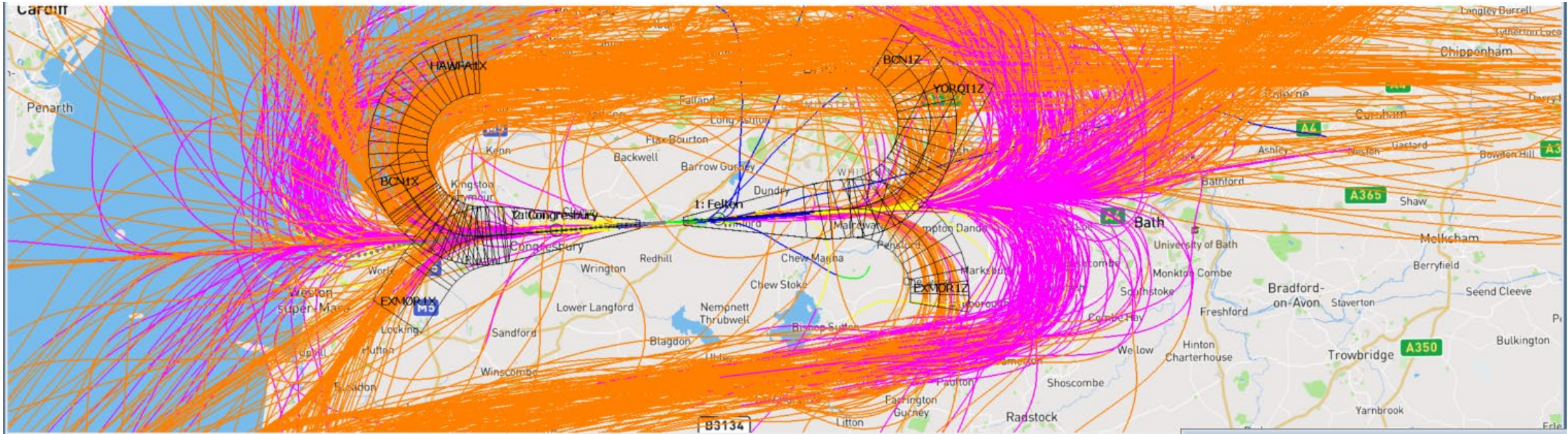
Departure and Arrival Tracks – WC 26/02



Green =
Departures
Red = Arrivals

- Includes all flights
- Commercial
 - Helicopter
 - Private
 - Flight School

Departure and Arrival Tracks – 01/11 – 07/11 – Half Term



Key:

- Green – 500 - 1000ft
- Blue – 1000 – 2000ft
- Yellow – 2000 – 3000ft
- Pink – 3000 – 5000ft
- Orange – 5000ft+

Includes all flights

- Commercial
- Helicopter
- Private
- Flight School

5 track keeping

violations

3 EZY

2 EAI

1140 total movements

Biodiversity Update

Matt Johns



Overview

- Integrated Landscape and Biodiversity Mitigation and Management Plan
- Lulsgate Wood
- MSCP and Transport Interchange
- Cogloop 2
- Next steps 12mppa biodiversity delivery
- Biodiversity Monitoring 2024

Landscape and Biodiversity Plan

Planning Condition 20 - Landscape

Box 1: Planning Condition 20

Planning Condition 20: Preparation of Detailed Landscape Designs

Condition 20 - No development shall begin until the landscape planting and landscape improvement areas that are shown in the 'Integrated / embedded landscape, visual and ecology mitigation masterplan' (Drawing Number 40506-Bri075c) have been developed into detailed landscape designs for each area. These shall be submitted to and approved by the Local Planning Authority before the landscape works are carried out and they shall include the following details:

- a) Existing and proposed finished ground levels;*
- b) Existing trees, shrubs, hedges or other soft features to be removed and retained;*
- c) Details of the location and type of tree protection measures;*
- d) Planting plans, including specifications of species, sizes, planting centres, number and percentage mix of all new planting;*
- e) Details of how the soft landscaping will enhance biodiversity value*
- f) A timetable for implementing the approved landscaping works for each area;*
- g) A management plan of the landscaping scheme; including maintenance details and a timescale for implementation of the planting period, phased implementation and complexity of agreed scope of works.*

Planning Condition 25 - Biodiversity

Planning Condition 25: Preparation of the Biodiversity Mitigation and Management Plan (BMMP)

Condition 25 - Prior to the commencement of any part of the extension to the 'Silver Zone' car park (Site 'M' on the 'Site Reference Plan' – Drawing Number 17090-00-100-402 Rev 00) or the approved highway works at the A38 / Downside Road / West Lane (Site 'O' on Site Reference Plan – Drawing Number 17090-00-100-402), a Biodiversity Mitigation and Management Plan (BMMP) that accords with the document titled: 'Integrated / embedded Landscape, Visual and Ecology Mitigation Masterplan' Wood Consultants (August 2019) and Chapter 11 of the 'Environmental Statement', shall be submitted to, and approved in writing by, the Local Planning Authority. The BMMP shall include the following:

- a) Description and evaluation of on-site features to be managed;
- b) Description of the off-site features to be managed including replacement habitat for horseshoe bats as detailed in Outline SAC/SPD Ecological Management Plan for North Somerset and Mendip Bat SAC SPD (Johns Associates, 2018);
- c) Details of the extent and location of habitat retention, creation and enhancement measures;
- d) Ecological trends and constraints that might influence management;
- e) Aims and objectives of management;
- f) Appropriate management options for achieving aims and objectives.
- g) Prescriptions for management actions;
- h) The timescales for implementation of the BMMP, demonstrating that replacement horseshoe bat habitat will be available before suitable on-site habitat is removed, disturbed or otherwise negatively impacted in accordance with the North Somerset and Mendip Bats Special Area of Conservation (SAC) Guidance on Development: Supplementary Planning Document (Adopted January 2018);
- i) A work schedule (including an annual work plan capable of being rolled forward over a ten-year period and recommendation for ongoing review);
- j) Details of the body or organisation responsible for managing the day-to-day implementation of the plan;
- k) Ongoing monitoring and remedial measures including a monitoring schedule for the off-site replacement habitat for horseshoe bats as detailed in Outline SAC/SPD Ecological Management Plan for North Somerset and Mendip Bat SAC SPD (Johns Associates, 2018). This shall include a compliance report submitted to and agreed in writing before suitable on-site habitat for horseshoe bats is removed, disturbed, or otherwise negatively impacted, to demonstrate that suitable off-site compensatory habitat has been provided. The means of reporting the findings to the Local Planning Authority and Natural England shall also be specified. The BMMP shall also include details of the mechanism(s) by which the long-term implementation of the plan will be secured by the developer, detailing responsibility for its delivery. The plan shall also set out contingencies and/or triggers and options for remedial action to ensure that it delivers the fully functioning biodiversity objectives of the approved scheme. The approved BMMP will be implemented in accordance with the approved details.



Lulsgate Wood



FORESTRY WORK IN PROGRESS

Woodland management may look drastic, however it is important for:

Biodiversity Many of our native flora and fauna have adapted to take advantage of the dynamic habitats created by woodland work such as thinning or coppicing.

The planet Well managed trees grow quickly using the power of the sun to convert atmospheric CO₂ into wood—a truly sustainable resource with many uses.

Society Well managed woodlands are a joy to spend time in, they provide local jobs and contribute to the rural economy.

You can help to keep our woods and forests flourishing by buying products made from British timber.

Enjoy your time in the woods & help us to keep you safe by following the guidance on any signs you see.












































MSCP and Transport Interchange

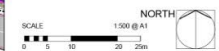
KEY

-  Site boundary
-  Proposed shrub and groundcover planting
-  Proposed specimen trees
Specimen tree sizes to typically range from ANS 18-20cm girth to EHS 18-15cm girth sizes eg avenue trees / key locations
Other incidental tree groupings to include smaller sizes eg 14-15cm girth stock plus multi-stem and feathered trees depending on species / location
-  Proposed regularly mown grass areas
Mown verges for visibility adjacent to roads and provide good definition to adjoining taller grassland areas
-  Proposed species rich grassland and wildflower areas
Areas to be managed as a summer-flowering 'meadow' grassland
-  Proposed maintenance access track / footpath
-  Proposed native hedging
-  Proposed features / totems to add visual interest (details tbc)
-  Limestone boulder groupings
Utilising site derived stone where possible to create 'stone garden' features set within the landscape
-  Proposed macadam surface
-  Proposed footpath
-  Proposed timber post and rail fence
-  Proposed guard rail
-  Proposed pedestrian hand rail
-  Proposed N2 W2 safety system barrier (VRS)
-  Proposed single sided terminal (VRS)
-  Proposed H2 W2 parapet (VRS)

CUT LINE - REFER TO DRAWING J01153-MP-02

REV	DESCRIPTION	DATE	BY	CHK	UW
1	FIRST ISSUE	2025.08.29	JH	MU	

SCALE 1:500 @ A1



Project: MSCP2 BRISTOL AIRPORT
 Client: BRISTOL AIRPORT
 Drawing title: LANDSCAPE MASTERPLAN

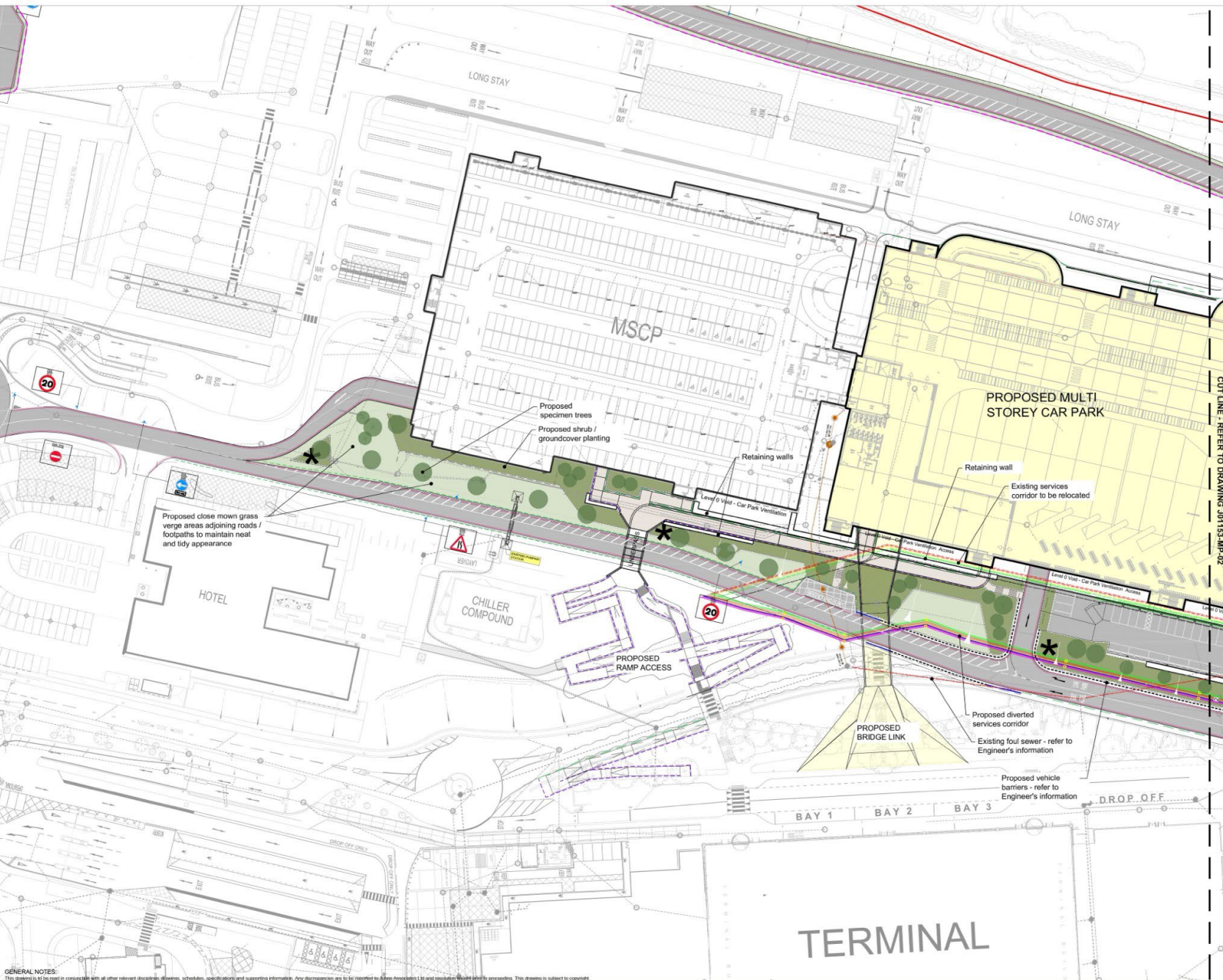
Status: INFORMATION

Drawing Number: J01167-MP-01	Scale: 1:500@A1	Revision: -
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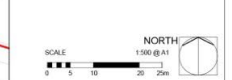


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- KEY**
- Site boundary
 - Proposed shrub and groundcover planting
 - Proposed specimen trees
Specimen tree sizes to typically range from ANS 15-20cm girth to EHS 15-18cm girth sizes eg avenue trees / key locations.
Other incidental tree groupings to include smaller sizes eg 14-15cm girth stock plus multi-stem and feathered trees depending on species / location
 - Proposed regularly mown grass areas
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REV	DESCRIPTION	DATE	BY	CHK



Project: **MSCP2 BRISTOL AIRPORT**
 Client: **BRISTOL AIRPORT**
 Drawing title: **LANDSCAPE MASTERPLAN**

Status: **INFORMATION**
 Drawing Number: **J01167-MP-02** Scale: **1:500@A1** Revision: **-**

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- KEY**
- Site boundary
 - Proposed shrub and groundcover planting
 - Proposed specimen trees
Specimen tree sizes to typically range from ANS 18-20cm girth to EHS 18-18cm girth sizes eg several trees / key locations.
 Other incidental tree groupings to include smaller sizes eg 14-16cm girth stock plus multi-stem and feathered trees depending on species / location
 - Proposed regularly mown grass areas
Mown verges for viability adjacent to roads and provide good definition to adjoining later grassland areas
 - Proposed species rich grassland and wildflower areas
Areas to be managed as a summer-flowering 'meadow' grassland
 - Proposed maintenance access track / footpath
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 - Proposed H2 V2 parapet (VRS)

CUT LINE - REFER TO DRAWING J01167-MP-02

Proposed shrub / groundcover planting areas

Native hedgerow for habitat and screening

Specimen trees for visual amenity, wildlife and shading

Limestone boulders from excavated soil used as potential features and habitat

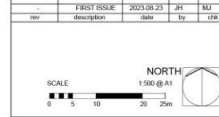
Species rich grassland to enhance wildlife and reduce maintenance

Proposed close mown grass verge areas adjoining roads / footpaths to maintain neat and tidy appearance

SITE OF OTB

MAIN SUB STATION

REV	DESCRIPTION	DATE	BY	CHECKED



Project: MSCP2 BRISTOL AIRPORT

Client: BRISTOL AIRPORT

Drawing title: LANDSCAPE MASTERPLAN

Status: INFORMATION

Drawing Number:	Scale:	Revision:
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Next Steps 12mppa Biodiversity Delivery







Biodiversity Monitoring 2024

UKHAB
NVC
Condition
Hedgerow
Trees
Invasive Non Native Species
IHS

A
Bristol Airport





Bats:
Activity Transects
Automated
Thermal/Infra-red
Structures/Roosts
Crossing Point
Trapping

Badger



**Great Crested
Newt and Other
Amphibians**





Reptiles



Invertebrates



Dormouse



Breeding Birds

- incidental information
 - other mammals
 - fungi
- wider records BRERC etc
 - influences on habitat condition and species presence
- opportunities for further enhancement
- management plan/actions updated in response
- wider landscape connectivity



Reporting on progress



Monitoring Reports – Change/Improvements



Ongoing close liaison with North Somerset Council, Natural England, Avon Wildlife Trust and Forestry Commission

Many thanks for listening

Please do ask questions!

Proposed topics for 2024

- Q1: Biodiversity
- Q2: Environmental management
- Q3: Carbon, ACT programme
- Q4: Year in Review, feedback from members