

City Campus

Landscape Management Plan

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Author: JM	

Contents

1. Introduction and Background	4
1.1. Location	5
1.2. Current Use	6
1.3. Recent and Proposed Development	7
1.4. Green Spaces	11
2. A Welcoming Place	13
2.1. Good and Safe Access	14
2.2. Signage	15
2.3. Equal Access for All	
3. Health, Safety and Security	17
3.1. Appropriate Provision of Quality Facilities and Equipment	
3.2. Safe Equipment and Facilities	19
3.3. Personal Security	
3.4. Health and Safety	
3.5. Accident and Incident Reporting	20
3.6. Dog Fouling	21
3.7. Working Hours	21
4. Cleanliness and Maintenance	22
4.1. Litter and Waste Management	23
4.2. Horticultural Maintenance	24
4.3. Tree Maintenance	25
4.4. Building and Infrastructure Maintenance	25
4.5. Equipment Maintenance	25
4.6. Maintenance Planning	25
5. Environmental Management	27
5.1. Managing Environmental Impacts	
5.2. ISO 14001 Environmental Management System	
5.3. Pesticides and Herbicides	
5.4. Composting	
5.5. Travel & Transport	
5.6. Energy Consumption and Production	
5.7. Staff Engagement	
5.8. Fairtrade	
5.9. Climate Change and Adaptation	
6. Biodiversity, Landscape and Heritage	

6.1. Management of Natural Features, Wild Fauna, and Flora	35
6.2. Peregrine Falcons	35
6.3. Rewilding Areas	36
6.4. Water Conservation	37
6.5. Planting Policy	38
6.6. Conservation of Landscape Features	38
6.7. Biodiversity Monitoring	39
7. Community Involvement	40
7.1. Community Events	41
7.2. Bonnington Gallery	41
7.3. Hedgehog Friendly Campus (HFC)	42
7.4. Room Hire	43
7.5. Sports Facilities	43
7.6. Natural Dye Garden	44
7.7. Student Volunteering	47
8. Marketing and Communication	48
8.1. Marketing and Promotion	49
8.2. Communication Channels	49
8.3. Educational Information	49
9. Management	50
9.1. Management Structure	51
9.2. Project Funding	51
9.3. Management Priorities	51
Appendices	52
Appendix A – Landscape Operations Service Level Agreement	52
Appendix B – Implementation Plan	54
Appendix C – Habitat and Species Conservation Management Plan	55
Estate-Wide Actions	55
Built Environment	56
Woodland & Scrub	57
Non-Agricultural Grasslands	58
Appendix D – City Campus Habitat Map	59



Section 1: Introduction and Background

1. Introduction and Background

1.1. Location

City Campus spans 12 hectares and is located in the heart of Nottingham. This vibrant site features a mix of buildings, including several historic structures thoughtfully repurposed as educational facilities. The campus also boasts diverse habitats, such as hedgerows, urban trees, formal landscaping, amenity grasslands, and innovative green infrastructure, including green roofs and living walls.





City Campus is surrounded by a mix of commercial and residential developments, with several public roads, including Shakespeare Street, running through and around the site. To the West lies Nottingham General Cemetery, while The Arboretum Park is located to the North. Both are significant green spaces in the city centre, providing habitats for a variety of species whilst also offering staff and students opportunities for recreation.

1.2. Current Use

Located in the heart of Nottingham, City Campus stands out with its modernized buildings, award-winning Students' Union, and vibrant facilities. The campus offers a wide variety of teaching and study spaces, alongside restaurants, cafes, and multiple venues for conferences and events. It is home to six academic schools, an innovative public art gallery, collaborative office spaces for local businesses, and the renowned NLS Legal.

A landmark of the city's skyline, NTU's iconic Newton Building is just a short five-minute walk from both the bustling Market Square and the Victoria Centre, Nottingham's premier shopping destination.

In 2024, NTU's Newton and Arkwright buildings hosted the final head-to-head General Election Debate between Sir Keir Starmer and Rishi Sunak. On the day, students from the Centre for Broadcasting & Journalism worked as runners supporting the BBC, while student publications attended as accredited journalists, providing live coverage of this momentous event.



Figure 2 – BBC Election Debate Stage in the Newton Building

1.3. Recent and Proposed Development

Under NTU's Sustainable Construction Policy, all new buildings must achieve a minimum BREEAM Excellent rating, while major refurbishment projects are evaluated for environmental performance and certified under the RICS SKA Rating system.

NTU is a Client Partner of the Considerate Constructors Scheme (CCS), working to improve the image of construction by working with construction companies minimising negative impacts and promoting excellence in appearance, community respect, environmental protection, safety, and workforce care.

1.3.1. Newton & Arkwright Building

The University has invested £90 million in transforming the Grade II* listed Newton and Arkwright buildings at the heart of City Campus. These iconic landmarks have been carefully modernized to preserve their historic charm, with the addition of a striking, ultra-modern Central Court that now connects them.

As two of Nottingham's most recognizable landmarks, the Newton and Arkwright buildings have long played a significant role in shaping the city's educational, cultural, and social fabric. Built nearly 80 years apart, they embody two distinct architectural approaches to meeting the needs of higher education. Originally never intended to function together, their seamless integration through this regeneration project highlights the University's innovative and forward-thinking contribution to Nottingham's heritage and development.

Constructed between 1877 and 1881, the Arkwright building features an intricate Gothic design with striking gables, arches, and pinnacles. Originally home to University College Nottingham, it also housed the city library and a natural history museum. Once praised as the "finest pile of public buildings in Nottinghamshire," Arkwright served as the alma mater of renowned author D. H. Lawrence, inspiring Ursula's college experiences in The Rainbow. Over a century ago, the building was the site of pioneering research by Professor Frederic Stanley Kipping, whose discovery of silicone polymers laid the foundation for a multibillion-pound industry.

The Newton building, constructed between 1956 and 1958 as part of the expansion of the Nottingham and District Technical College, stands as a magnificent example of mid-20th-century architecture. One of the tallest buildings in Nottingham, it features a striking art-deco style and was officially opened in June 1958 by HRH Princess Alexandra of Kent.

Today, it is instantly recognizable as one of Nottingham Trent University's flagship buildings.

The regeneration of the Newton and Arkwright buildings posed the challenge of crafting imaginative and sensitive solutions that honoured their rich history while modernizing their layout and facilities. The result strikes the perfect balance – preserving the most remarkable original features while integrating the cutting-edge 21st-century amenities required by a forward-thinking university.

This ambitious project transformed two tired Grade II* listed buildings with immense potential into proud landmarks at the heart of Nottingham's city-centre university quarter. Achieved through close collaboration with English Heritage and principal contractors Bowmer and Kirkland, the redevelopment prioritizes sustainability. Green credentials include Sedum roofs, smart lifts, and automated window blinds designed to maximize energy efficiency. The project also introduced enhanced disabled access, ensuring the buildings' beautiful teaching, learning, and social spaces are accessible to all.



Figure 3 – Arkwright & Newton Buildings

1.3.2. Belgrave Post Graduate Centre

Opened in March 2024, the fully refurbished postgraduate centre in the Belgrave Building offers three floors of state-of-the-art facilities in the heart of Nottingham city centre.

City Campus Landscape Management Plan

Spanning 4,700 square meters, the space has been thoughtfully designed to cater to the diverse needs of students. It features flexible teaching rooms, dedicated study areas, bookable meeting rooms, and a tiered lecture theatre. Additionally, the centre houses employability services, student support, and a vibrant café, creating a dynamic environment for learning and collaboration. A versatile outdoor space has also been created, designed to support local wildlife and promote well-being. This area will serve as a distinctive venue for events, seamlessly blending natural elements with functionality to enhance the experience for both students and visitors.



Figure 4 – Belgrave Centre

1.3.2. Design and Digital Arts Building

The new Design & Digital Arts building, created for the Nottingham School of Art & Design, is designed to equip graduates for success in the expanding cultural and creative industries. The building features advanced technologies and workspaces that will be accessible to students across a range of disciplines, including graphic design, illustration, motion graphics, UX design, filmmaking, television production, animation, games design, and visual effects. These state-of-the-art facilities will foster creative skills, helping graduates succeed in professional, technical, and commercial careers within the rapidly growing cultural and creative industries.



Figure 5 – Design and Digital Arts Building

The development also features a Green Wall, adding a vibrant botanical backdrop to a roof terrace. Spanning approximately 75 square meters, the living facades face west and south, capturing optimal sunlight. The design incorporates seasonal flowering plants to attract pollinators, with an organic arrangement divided into two matrices to suit the different exposures. The south elevation boasts a variety of flowering plants, including Bellflower, Erysimum Bowles Mauve, Bergenia, and Heuchera.



Figure 6 – Design and Digital Arts Building Green Wall

1.4. Green Spaces

1.4.1. Boots Roof Garden

Boots Roof Garden offers new space for students and staff to relax, socialise and study in. Accessed through the top floor of Boots Library, the garden has Wi-Fi access, seating, and covered areas to shelter you from the elements. The library staff have set up a volunteer group, who will be working to maximise opportunities for students and staff. This garden was created with the involvement of horticultural students, from our Brackenhurst Campus, who were instrumental in the species selection and design of the beds.

Green roofs are a fantastic way to improve building efficiency, reduce flood risk and provide a tranquil environment for people and wildlife. Boots Library does all of this, using recycled and sustainable materials throughout. To help protect and enhance biodiversity on the City Campus, the planting scheme in the garden includes a range of plants to attract a variety of wildlife species.



Figure 7 – Boots Library Roof Garden

1.4.2. Dryden Corner

The redevelopment of Dryden Corner transformed a neglected and unwelcoming plot into a vibrant and inviting space, perfect for enjoying lunch or soaking up the sunshine between lectures. Designed by NTU alumna Jackie Setchfield, the corner garden boasts the rill, a calming water feature, along ample seating crafted from sustainably sourced wood. In 2023, a striking 12-meter-high poem was painted onto the side of a building at Dryden Corner to inspire reflection and encourage visitors to take a moment for themselves. This artwork was created by NTU alumna Lucinda Ireland and features a poem titled Here & Now, written by Claire Miller, a Web and Digital Content Officer at NTU. Claire penned the poem while seated in the Dryden Pocket Garden, drawing inspiration directly from the space and its atmosphere. The poem now adorns the side of 50 Shakespeare Street, a testament to the creative energy sparked by this transformed environment.



Figure 8 – Here & Now Poetry Wall



Figure 9 – Dryden Corner



Section 2: A Welcoming Place

2. A Welcoming Place

2.1. Good and Safe Access

City Campus is easily accessible via Nottingham City Transport services, with all routes stopping within a 5-minute walk of the campus. Uni 4 offers a direct link between Clifton Campus, Nottingham Train Station, and City Campus on weekdays during term time. NTU students can enjoy discounted fares through the NCTX Buses app.

Nottingham's extensive tram system, operated by Nottingham Express Transport (NET), also serves the campus, with a stop located right outside.

For those driving, the city's park-and-ride services provide a cost-effective alternative to parking in the city centre. We recommend using one of the following sites, where you can board any tram heading to Toton Lane or Clifton South:

- The Forest (NG7 6AQ)
- Phoenix Park (NG8 6AS)
- Toton Lane (NG9 7JA)



Figure 10 – NET Tram at City Campus

If you plan to park in the city centre, the closest and largest parking facilities to City Campus are:

- Trinity Square (NG1 4BT)
- Talbot Street (NG1 5GG)
- The Victoria Centre (NG1 3QN)

Additionally, the NTU Cycle Hub, located on City Campus, offers staff and students the option to hire a bike for £49 per year. This service is ideal for traveling between campuses, accommodations, and around the city.



Figure 11 – City Campus Cycle Hub

Access across the site meets BS 8300, ensuring that the design of buildings and their approaches meet the needs of people with disabilities, making them accessible to all. This includes level or ramped access into buildings, dropped kerbs, and tactile paving at most road crossings. Pathways throughout the campus are designed to be accessible for wheelchairs and pushchairs. In all new developments, careful consideration is given to Disability Discrimination Act requirements.

2.2. Signage

Standardised signage featuring the NTU logo and typeface is prominently displayed across the campus. In 2020, the campus underwent a comprehensive signage update, with

external signs, monoliths, and windows being rebranded and reskinned to reflect the university's identity. Additionally, rewilding signage can be found across NTU's rewilding areas, designed to engage and educate the public on the importance of providing habitats for birds, bees, and other local wildlife.



Figure 12 – Waverley Building and Rewilding Area Signage.

2.3. Equal Access for All

As well as being a valuable resource for students and academics, City Campus provides facilities that are used by the local community. This includes Bonington Gallery, which hosts exhibitions and events completely free to access, and open to all. Inside the Bonington Building, you'll find a main gallery space, the Bonington Vitrines – micro-exhibitions in display cases, a cabinet displaying highlights from the gallery archive, and satellite exhibitions in our atrium space. As well as our exhibitions, we offer an events programme of talks, workshops, film screenings and performances.

Bonington's Art Shop is open to the public and is one of the few remaining art supplies shops in the city. It offers a wide range of products – from card and paper to paints, pens, sketchbooks and more.



Section 3: Health, Safety and Security

3. Health, Safety and Security

3.1. Appropriate Provision of Quality Facilities and Equipment

The University is committed to ensuring that the campus remains a safe environment for all users. To maintain safety, the Estates Department conducts a program of regular inspections to identify and address potential issues. A sample maintenance plan can be found in Appendix A. Staff and students can report any problems to the maintenance department via the Estates Helpdesk, accessible through MyHub. These issues are prioritised and addressed as quickly as possible. The public can report concerns to Reception Officers or use the contact numbers displayed throughout the campus. A wide range of well-maintained indoor and outdoor green spaces is available for students, staff, and the public, with landscaping, maintenance, and sports staff ensuring their upkeep to a high standard.

The campus dining outlets offer a diverse selection of freshly prepared meals from around the world each week, including great-value breakfasts and healthier options. The NTU Catering Team collaborates with the Sustainability and Procurement Teams to consider ethical, social, and environmental factors when selecting food and drink products.



Figure 13 – Outdoor Seating Space on Goldsmith Street

Outdoor seating is available throughout the campus, including in the Dryden Corner greenspace, Goldsmith Street, and the Boots Library Roof Garden. Toilets are located across the campus, with some facilities accessible to the public.

Security staff, all trained first aiders, are available 24/7 to assist campus users. They can be reached at **0115 848 6600**, a number which is provided on the campus information boards.

3.2. Safe Equipment and Facilities

Built features within the grounds are regularly inspected, and appropriate actions are taken, as necessary. All equipment used to maintain the grounds undergoes an annual inspection to ensure its safety. Landscape Services also implements a Reactec Hand Arm Vibration (HAV) safety system to protect staff during their work activities.

As part of NTU's involvement with the Hedgehog Friendly Campus (HFC) initiative, all strimmers and mowers were labelled in 2020 to remind users to check for hedgehogs and other wildlife before use. More information on the HFC initiative can be found in **Section 7.2**.

The Landscape Services Manager actively monitors potential external threats to the tree stock, such as the national spread of tree diseases, and takes pre-emptive action as needed. External consultants, FPCR Environment and Design Ltd conduct a survey of all tree stock, including woodlands on campus, every three years. This survey provides advice on tree health and identifies any trees that are dead, dying, or dangerous. The most recent survey was completed in December 2022.

3.3. Personal Security

Security at City Campus operates 24/7, providing surveillance and peace of mind to all site users. The campus is monitored by a network of CCTV cameras that record 24 hours a day, with footage accessible to the Security Team, ensuring excellent coverage across the site.

Newly installed Emergency Security Points (ESPs) are strategically located around the campus to enhance safety. These can be found at the following locations:

- ESP5 Sandby Medical Centre
- ESP6 Chaucer Path to Djanogoly
- ESP7 Bonington
- ESP11 Hampden St Car Park

These ESPs were placed based on feedback from NTU students and staff, identifying the areas where they would be most beneficial. The ESPs allow NTU students, staff, or the public to contact the 24/7 Security Team in case of an emergency. Each point is equipped with an intercom, camera, and CCTV system that scans the surrounding area. When the button is pressed, it rings like a phone, and a Security Officer will respond. The caller can then explain the issue through the intercom, and the Security Team will assess the situation, provide advice, attend the scene, or contact emergency services if necessary.

The on-site Landscape Services Team works closely with the Security Team to ensure CCTV views remain unobstructed and that sightlines along footpaths and access routes are maintained. Street lighting provides adequate illumination along roads and paths around the main campus. Where hedges are located along these routes, they are maintained to a maximum height of 1.5m to improve visibility for security and maintenance purposes.

All incidents of crime are recorded, and annual statistics are compiled. This helps the Security Team assess progress, refine the security policy, and take appropriate action to reduce the likelihood of future incidents.

3.4. Health and Safety

The Landscape Services Manager is responsible for ensuring safe working practices within the Landscape Services Team. Risk assessments and safe working procedures are regularly reviewed to maintain safety standards. Control of Substances Hazardous to Health (COSHH) assessments are documented and updated as needed. The team is fully trained in their responsibilities under Health and Safety legislation. Staff working on the grounds are provided with the required protective clothing and equipment. In addition, they receive training on key safety topics, including chainsaw use, tree climbing, fire safety, and first aid. Staff also have access to relevant risk assessments and information leaflets that outline potential hazards specific to their roles.

The University's Health, Safety, and Wellbeing Team has developed comprehensive health and safety policies and procedures. All necessary precautions are taken to ensure that the grounds can be used with minimal risk of accidents or injury. Effective management practices are in place to address and mitigate health and safety concerns.

3.5. Accident and Incident Reporting

In compliance with Health and Safety at Work legislation, the University ensures that all accidents and near misses on-site are reported using a standard reporting procedure. The

results are monitored centrally, and the University initiates accident investigations when necessary.

3.6. Dog Fouling

A dog waste bin is available for public use in the vicinity of the Chaucer building to provide facilities for those cleaning up after their dogs.

3.7. Working Hours

The Estates Department collaborates closely with the Timetabling Department to avoid conflicts with residents or students during exam periods, sports events, or open days. In the event of any disruptions to the campus, staff and students are contacted via digital Estates Works Notifications. For updates on campus development, staff and students can visit the <u>Campus Developments</u> webpage.



Section 4: Cleanliness and Maintenance

4. Cleanliness and Maintenance

4.1. Litter and Waste Management

The appearance of the campus is a top priority for the University, as it plays a key role in attracting new students. The Landscape Services Team is responsible for maintaining the campus landscape, while the Facilities Team empties external litter and recycling bins daily, along with conducting litter picks and leaf sweeping when necessary. All entrances are manually cleaned and picked up every day, and the sweeper services hard surfaces each morning.

To encourage campus users to keep the environment clean, litter bins and recycling stations are provided extensively throughout the site. In 2021, all external litter bins were replaced to ensure a more cohesive approach to waste disposal.

Clothing recycling banks are located throughout the city, providing staff, students, and visitors with the opportunity to donate unwanted clothes, footwear, and books to the British Heart Foundation (BHF). These collection points are situated near City Campus on the following streets:

- Burns Street
- St Ann's Street
- Maid Marian Way
- Curzon Street
- Raleigh Street

The Sustainability Team has partnered with UPP (our on-campus halls provider) and Nottingham Trent Students' Union (NTSU) to promote these donation locations across three of NTU's campuses. In 2019, this collaboration was recognized with the Retail Partner Award at the British Heart Foundation Hero Awards.

Each year, as students vacate their halls of residence, a significant amount of unwanted clothing, kitchen items, electrical appliances, and unused food ends up in landfills. To address this, NTU's Sustainability Team launched the Big Clear Out initiative in partnership with UPP and NTSU, with support from the Facilities and Community Liaison teams. Collection boxes for homewares and food were placed in halls reception areas from April to August, making it easy for students to donate and maximize the impact with minimal

effort. During the 2022/23 and 2023/24 move-out periods, this initiative successfully diverted approximately 14,000 kg of waste from landfills and incineration, benefiting charitable organizations. This project demonstrates the effectiveness of collaboration and highlights the University's collective commitment to sustainability.

NTU operates a fully integrated Environmental Management System (EMS), with further details provided in **Section 5**. As part of this system, a series of policies have been developed to support the sustainability objectives of the EMS. NTU's waste guides, available on the Sustainability webpages, encourage the use of recycling bins and donation banks. In December 2024, NTU rolled out new signage on all internal bins to clarify waste acceptance criteria. The Sustainability Team also promotes the use of Warp It, an online portal for the reuse of furniture and equipment. All NTU staff are encouraged to use Warp It to redistribute unwanted furniture. Since its launch in September 2018, this initiative has saved £336,354, diverted 41,002 kg of waste from landfill, and significantly increased resource efficiency.

4.2. Horticultural Maintenance

The Landscape Services Team is responsible for maintaining the grounds and enhancing the campus's outward appearance. The team meets regularly to discuss seasonal priorities, such as leaf clearance in autumn and cutting of amenity spaces in summer. In addition to an annual programme of short-term maintenance tasks, a longer-term plan addresses more complex issues, such as replanting specific areas.



Figure 14 – Students Using Arkwright Amenity Lawn

4.3. Tree Maintenance

FPCR conducts three-year surveys that map the location of every tree or group of trees, assigning each a unique code. A linked database provides detailed information on the species and condition of each tree, highlighting any necessary maintenance. The Landscape Services Team uses this dynamic database to manage the tree stock effectively. This work is further supported by reactive measures, such as responding to storm damage when needed.

4.4. Building and Infrastructure Maintenance

The Campus features a diverse range of buildings in terms of age, scale, style, and function. While each building serves a specific purpose—whether for teaching, research, administration, or residential use—all share the same vibrant setting. The Estates Department ensures that all buildings are maintained to a high standard, with an on-site maintenance team responsible for their upkeep.

4.5. Equipment Maintenance

A programme of equipment inspections is in place to ensure that all work equipment is safe to use, as required by the Provision and Use of Work Equipment Regulations 1998 (PUWER). Appliances are PAT tested, to comply with the Health and Safety at Work Act (1974), which places a duty on employers to ensure that electrical appliances used by employees, or the public are safe to use. Six-monthly inspections are carried out on tree climbing equipment under the Lifting Operations and Lifting Equipment Regulations 1998 (LOLER).

NTU's vehicles are managed by Campus Services, who ensure that they are serviced, tested, and inspected as required. Specialist vehicles, such as tractors, are either owned or leased. Servicing and maintenance of lease vehicles are included in the lease fee.

A designated vehicle wash-down area is located within Bonnington Yard. This facility has been approved by Severn Trent for the discharge of effluent related to vehicle washing. It is used to clean and maintain landscape machinery, equipment, and NTU fleet vehicles.

4.6. Maintenance Planning

The Landscape Services Team is adaptable to changing conditions, taking on tasks such as gritting roads during icy weather and clearing tree debris after strong winds. Daily maintenance is coordinated through team discussions, with objectives and actions set by

the Landscape Services Manager. Health and safety-related tasks are prioritised. The team also follows a tree replacement policy, planting a new tree for every one removed through maintenance.

Cyclical maintenance activities, including shrub bed care, summer bedding planting, mowing, and strimming, are carried out by the Landscape Services Team. A sample planning document for this work can be found in **Appendix A**.



Section 5: Environmental Management

5. Environmental Management

5.1. Managing Environmental Impacts

NTU is dedicated to acknowledging and minimizing its environmental impact. As of January 2025, NTU is ranked as a first-class university in the People & Planet League and is placed 2nd in the University of Indonesia Green Metric World University Ranking. The University has several policies related to environmental sustainability, including an overarching Environmental Policy, which is reviewed annually by senior management and is publicly available on <u>NTU's Sustainability webpages</u>.

NTU has committed to achieving Net Zero Carbon (NZC) emissions by 2040, fostering a Zero Carbon culture across the NTU community. NZC by 2040 has become a strategic institutional key performance indicator (KPI). This commitment will address carbon emissions linked to energy use across the NTU estate and tackle scope 3 emissions—those emissions from activities over which NTU has less direct control.

5.2. ISO 14001 Environmental Management System

NTU's Environmental Management System (EMS) was initially established through the 'EcoCampus' scheme, achieving platinum status of EcoCampus qualifies the university for ISO 14001 standard certification. The University first gained full certification in November 2012.

ISO 14001 is an international standard that provides a framework for identifying and controlling environmental impacts, improving environmental performance, and ensuring legal compliance.

5.2.1. Environmental Management Review Committee

The Environmental Management Review Committee meets bi-annually to oversee the successful implementation of the University's EMS across the NTU estate. The committee reviews and discusses key objectives aimed at improving environmental performance, including waste reduction, promoting sustainable transport, lowering energy-related emissions, reducing water consumption, fostering sustainable procurement practices, and enhancing biodiversity.

This ongoing review ensures that NTU remains committed to its environmental sustainability goals and continues to make progress in these critical areas.

5.3. Pesticides and Herbicides

Integrated Pest Management (IPM) is utilised to maintain the landscapes, using an environmentally sensitive approach that combines various sustainable practices. Pesticides are only used when necessary and following legislative guidelines. This is part of a broader integrated approach, where manual and biological control measures are prioritized. Herbicides, turf fungicides, and insecticides are applied in specific areas when appropriate.

All ground maintenance staff are fully trained in the safe application of these chemicals and hold the necessary certifications.

5.4. Composting

To minimise the environmental impact of landscaping, NTU uses peat alternatives or peatreduced compost, including on-site compost. Horticultural waste from the grounds is recycled into compost or mulch. Landscape Services staff separate woody materials (for mulching) from softer materials like autumn leaves (to enrich soil). A composting machine and chipper are used to process the waste at Clifton Campus, with an additional composting area at the Waverly Natural Dye Garden. All compost generated is reused onsite.

5.5. Travel & Transport

5.5.1. NCT Buses

During term time, the award-winning NTU NCTX Number 4 bus service runs every 7-10 minutes between the City Campus and Clifton Campus, while the NCT Number 26 connects City Campus with Brackenhurst. The fleet was upgraded at the start of the 2019/20 academic year, replacing the previous buses with the latest clean buses equipped with Euro IV engines, significantly reducing emissions and carbon output.

5.5.2. NET Tram

The City Campus is easily accessible by tram, with a dedicated stop at the centre of the site, called 'Nottingham Trent University.' Be sure to purchase a ticket before boarding to avoid penalty fares and alight at the Nottingham Trent University stop. For more information on the city's park and ride services, visit the NET website.

5.5.3. Cycle Provisions

The University hosts a Cycle Hub to encourage staff and students to cycle more frequently. The initiative includes infrastructure improvements between campuses, the promotion of cycling through social media and engagement events, and a bike hire scheme.

Over 200 hybrid bikes, in various sizes for both men and women, are available for hire for £49 per academic year (plus a £60 refundable deposit). The hire fee includes maintenance sessions, lights, a D lock, access to secure cycle storage at all campuses, and free Ridewise training and ongoing support such as drop-in surgeries. Since 2020, e-bikes have been available for staff to trial as an alternative mode of transport.

NTU's Sustainability webpages provide staff, students, and the public with up-to-date information on cycle facilities, including maps of cycle routes, compound locations, lockers, and showers. The site also offers information on buying a bike, bike maintenance, and cycling clothing. Plans include adding more cycle-related information to the campus's external information boards. Currently, 600 bicycle spaces are available across campus, with many located in restricted access shelters that require swipe card access and are monitored by CCTV. As part of the City Campus travel plan, cycle facilities are being upgraded to provide more covered, restricted access parking.

5.5.4. E Scooters

NTU is supporting the Nottingham City Council e-scooter trial, providing a greener travel option for short-distance journeys across Nottingham. The scheme initially began back in October 2020 to help ease travel worries during the COVID-19 pandemic as part of a 12-month trial but has since been extended a few times with the scheme set to continue to May 2026. Further extension decisions have not yet been confirmed by the Department for Transport.

Nottingham's e-scooter rental scheme is set to return in March 2025 with Tier-Dott selected as the council's new operator. 1,300 striking blue and red vehicles branded as "Dott" are to be activated across Nottingham as a part of the government-back rental trial. E-scooters offer the potential for convenient, fun, clean and affordable travel, reduce reliance on car trips and lower harmful emissions.

5.5.5. Electric Vehicles

NTU offers 32 electric vehicle (EV) charging bays across its City, Clifton, and Brackenhurst Campuses, providing convenient charging options for staff and students with electric vehicles. Of these, five bays are designated accessible spaces for blue badge holders, with City Campus hosting 10 of the total bays. Since 2014, NTU has been committed to reducing its carbon footprint, beginning with the purchase of its first zero-emissions van for the maintenance teams. Additionally, the Landscape Services team uses electric-powered John Deere gators (all-terrain utility vehicles) for on-site maintenance, further enhancing the campus's sustainability efforts.

5.6. Energy Consumption and Production

5.6.1. Solar Photovoltaic Panels (PV)

NTU has installed photovoltaic (PV) systems on the Chaucer and Dryden Enterprise Centre buildings. In the academic year 2023/24, these installations generated a total of 41,835 kWh of renewable energy, contributing to the university's sustainability efforts and reducing its reliance on non-renewable energy sources.

5.6.1. District Heat Network

The Nottingham District Energy Scheme offers a low-carbon fuel source by recovering energy from waste. Several buildings across NTU's City Campus are connected to this district heating network, including 50 Shakespeare Street, Barnes Wallis, Bonnington, Chaucer, Byron Halls of Residence, Dryden, Newton & Arkwright, and Maudslay. This district heating network, the largest in the UK, has been operational for over three decades. It helps offset around 27,000 tonnes of CO2 emissions annually that would otherwise be produced by the alternative use of gas, making a significant contribution to the university's sustainability efforts.

5.7. Staff Engagement

In January 2019 NTU launched Green Rewards, a programme for all students and staff to sign up to and take part in. Participants earn rewards for taking actions that reduce their impact on the environment, positively impact the local community and boost their health and well-being. As of January 2025, NTU has 3,295 students and 1,436s staff signed up to the Green Rewards platform with 426,906 actions completed which has led the avoidance of 808,549 kg of CO2.

As of January 2025, 70 staff are currently signed up for the "Sustainability Representatives" Scheme. The scheme consists of department representatives who are encouraged to engage with the Sustainability Team and report any issues and suggestions across the campus landscape and operations. Termly meetings, with guest speakers are held with the group, and a Microsoft Teams Network allows continual discussion.

The Sustainability Team run monthly staff awareness courses for all colleagues, including new starters. The training allows staff to gain an understanding of sustainability at NTU, understand their responsibilities as staff members and find out ways they can get involved with sustainability projects and events.

5.8. Fairtrade

NTU has been awarded Fairtrade University status for the last 14 years. Fairtrade products are available in all Campus shops and catering outlets and used in all meetings hosted by the University and the Students' Union.

Fairtrade Fortnight events are held at NTU each year to raise awareness of the impact of Fairtrade amongst staff and students. This is led by the Fairtrade Steering Group who demonstrate a strong commitment to increasing Fairtrade consumption on all NTU Campuses. The ST and Fairtrade Steering Group achieved the new Fairtrade Universities and Colleges Award (FTUC) under the updated criteria in 2019. In 2024 we retained our accreditation; the next audit will take place in 2026.

5.9. Climate Change and Adaptation

As one of the UK's largest universities, NTU acknowledges the significant environmental impact of its activities at both local and global levels. The University is committed to reducing its contributions to climate change and has adopted a holistic, integrated approach to landscape management to help adapt to its effects.

One example of this commitment is the Landscape Services team's decision to stop purchasing peat-containing compost. They are currently experimenting with various alternative products to replace peat-based products. The campus is working through its remaining stock, alongside alternatives like bark mulch.

Additionally, to combat the impacts of climate change, the Landscape Services team has adapted the management of the City Campus. This includes regularly reviewing and selecting species that are more resilient to climate conditions, such as drought-tolerant species, and utilizing advanced stock that establishes more quickly. These efforts align with NTU's broader sustainability goals, helping to ensure that the campus is more resilient to the effects of climate change.

5.9.1. Green Infrastructure

The Newton and Arkwright buildings at NTU feature one of the largest green roofs in the region, covering approximately 2,500m² with thirteen different types of sedums. This roof, along with the Boots Roof Garden, plays a vital role in attracting a variety of invertebrates to the city centre. In addition, University Hall and the Design and Digital Arts building house living green walls, which further contribute to the urban habitat for local wildlife while also assisting in improving local air quality by removing impurities, while naturally absorbing and retaining heat – reducing the need for air conditioning and therefore reducing energy costs.

Green roofs and living walls not only support biodiversity but also provide numerous environmental benefits. They enhance building efficiency by improving insulation, reducing energy consumption, and helping to manage stormwater, which can reduce flood risk. These green spaces also offer a tranquil environment for both people and wildlife, supporting NTU's sustainability and urban greening initiatives.



Section 6: Biodiversity, Landscape and Heritage

6. Biodiversity, Landscape and Heritage

6.1. Management of Natural Features, Wild Fauna, and Flora

At NTU, various management techniques are employed across the Campus to maximise biodiversity and create diverse habitats. For example, patches of woodland are carefully managed to promote biodiversity by allowing native ground flora to flourish. Small piles of wood and stone are left in place to provide shelter for ground-dwelling animals such as hedgehogs and toads.

Bug hotels are regularly installed as part of compensation work for new developments, as well as through student projects and engagement activities. These insect refuges are essential for supporting pollinators and other beneficial insects. Student research has also focused on studying the effectiveness of bug hotels, particularly in areas near recreational spaces.

In addition, bird and bat boxes are installed on trees as part of development projects, further enhancing the campus's wildlife habitats. When safe and practical, dying trees are left standing to support biodiversity, as they provide habitats for various species. Tree stumps are cut high to encourage wood-boring beetles, and some are sculpted to retain water, creating additional ecological benefits.

NTU is a Platinum accredited as a Hedgehog Friendly Campus (HFC) for the Clifton, Brackenhurst and City Campuses. More information on HFC is provided in **Section 7.2**.

These efforts reflect NTU's commitment to fostering a rich and diverse environment that supports a wide range of species while enhancing the beauty and ecological health of the campus.

6.2. Peregrine Falcons

Peregrine falcons have been nesting on a window ledge on level 9 of NTU's Newton building for over twenty years, with more than 45 chicks successfully fledging from the site during this time. These birds of prey are protected under Schedule 1 of the Wildlife and Countryside Act 1981, highlighting their importance in biodiversity conservation.

NTU collaborates with the Nottinghamshire Wildlife Trust to protect the falcons and their nesting site. The university also hosts a live webcam, known as the 'falcon cam,' which allows viewers from around the world to watch the falcons throughout the breeding season,

which runs from March to September. The live stream of the falcons' activities has gained significant popularity, with more than 1 million views worldwide in 2023.

This initiative not only helps protect these remarkable birds but also provides a unique opportunity for global audiences to engage with nature and learn about the falcons' journey as they raise their chicks in an urban environment.



Figure 15 – *Peregrine Falcon Nest Box*

6.3. Rewilding Areas

The Landscape Services Team has been working closely with the Sustainability Team to enhance biodiversity on campus by expanding areas of diverse neutral grassland habitat. This effort is part of a broader initiative to reduce the extent of amenity grassland, making way for rewilded areas and wildflower meadows.

In 2024, a significant milestone was achieved when Bee orchids flowered in a rewilding area at the City Campus, further demonstrating the success of this ecological approach. The areas designated for rewilding are managed by reducing mowing to a single annual cut in late summer, which allows wildflowers to mature, set seed, and propagate. Cuttings from the grassland are then collected and removed, helping to maintain low-fertility soils, which in turn encourages greater species diversity.

Before undertaking any grassland management, the team ensures the safety of local wildlife by checking for hedgehogs or other creatures that could be at risk from mowing and strimming equipment. To promote awareness, "Check for hedgehogs" warning labels are displayed on all grounds maintenance equipment, reminding staff to be vigilant and minimise harm to these vulnerable species.



Figure 16 – Rewilding Area Bee Orchid

6.4. Water Conservation

Summer bedding schemes at NTU are designed with sustainability and water conservation in mind. To reduce the need for frequent watering and to ensure the plants thrive during dry periods, the Landscape Services Team uses water-retaining granules or gel in the planting beds. These materials help retain moisture in the soil, allowing the plants to access water for a longer period, even during hot weather. In addition, the beds are mulched, which further aids in retaining moisture by reducing evaporation. Mulching also helps suppress weeds, regulate soil temperature, and improve soil structure, all of which contribute to a more sustainable and low-maintenance bedding system. This approach helps NTU conserve water and reduce the environmental impact of its landscaping efforts while maintaining the aesthetic quality of the campus.

6.5. Planting Policy

NTU places a strong emphasis on using native species for landscaping to promote biodiversity and create appropriate habitats for local wildlife. The Landscape Services Team prioritise the planting of native nectar and berry-producing species of local provenance across the estate's landscaping. Where non-native plants are used, it is ensured that they are carefully selected to enhance biodiversity. Tree planting and woodland or hedgerow replacements largely focus on locally native species such as Ash, Field Maple, and Oak, which are found throughout the campus woodlands. The Landscape Services Team is vigilant in monitoring the health of the trees, particularly concerning diseases like Ash dieback. In the event of a reported case, the team follows best practice procedures to manage and mitigate the spread.

The £100,000 glasshouse facility at Brackenhurst Campus plays a key role in supporting sustainable landscaping practices by producing a wide variety of seasonal bedding plants from seeds and plugs. This facility provides over 30,000 plants annually, fulfilling most of NTU's soft landscaping needs across all campuses. If needed, additional plants are sourced from external nurseries.

6.6. Conservation of Landscape Features

NTU's City Campus is home to six Grade II listed buildings and features, including the iconic Newton, Arkwright, and Terrace Royal buildings, highlighting the University's commitment to preserving architectural heritage. Additionally, part of the campus is located within a designated Tree Conservation Area. Several trees on the campus are protected under Tree Preservation Orders (TPOs) due to their significant historical and ecological value and their contribution to the landscape.

These protected trees, along with all others on the campus, are regularly surveyed by external consultants to ensure their health and safety. Maintenance is carried out as needed, reflecting NTU's dedication to safeguarding its natural and built heritage while maintaining ecological integrity.

City Campus Landscape Management Plan

6.7. Biodiversity Monitoring

Staff, Students, and the public have been helping monitor the biodiversity found on campus by posting their observations on the NTU iNaturalist Campus Biodiversity Network Project.

Recording and sharing species observations, is helping to inform conservation work across the estate and create research-quality data for scientists working to understand and protect nature. Citizen scientists, made up of students staff and visitors to campus, have observed more than 550 species across NTU campuses using iNaturalist.



Figure 17 – iNaturalist Biodiversity Monitoring Project



Section 7: Community Involvement

7. Community Involvement

7.1. Community Events

NTU's City Campus serves as a vital asset to the community, welcoming students, staff, local school children, members of the public, and community groups to engage in a variety of events held throughout the year. This inclusive approach reflects the University's dedication to fostering a shared sense of connection and stewardship.

The Sustainability Team and Landscape Services Staff actively create opportunities for staff, students, and community members to collaborate in enhancing the campus environment. These efforts aim to ensure that the campus remains an inviting and enriching space for everyone to enjoy while promoting sustainability and environmental stewardship. From art galleries and band performances to natural dye demonstrations, there is something for all to enjoy.

The University often arranges one-day seminars on subjects taught on Campus. These are open to professionals and the public, to make training available to a wider audience.

Open Days offer another opportunity to all sections of the community, giving people with an interest in higher education a chance to view and use the facilities. A full programme of site-wide open days is advertised widely, with temporary signage provided on roads to ease access.

7.2. Bonnington Gallery

Founded in 1969, Bonington Gallery has been a cornerstone of Nottingham's vibrant visual arts community for over 50 years. Known for its forward-thinking and innovative programming, the Gallery displays exhibitions and events of local, national, and international importance.

Situated within Nottingham Trent University's (NTU) School of Art & Design, the Gallery thrives in a creative academic environment where students and staff are actively involved in making, critiquing, designing, and researching. This dynamic context shapes the Gallery's multidisciplinary programme, encompassing visual art, fashion, film, music, and design.

Bonington Gallery's strong collaboration with NTU's academic community ensures its exhibitions and events are deeply connected to cultural and societal discourse, linking

historical perspectives with contemporary and future creative practices. Its influence extends beyond the University, enriching Nottingham's cultural landscape and reaching wider audiences.

Completely free and open to the public, Bonington Gallery has hosted exhibitions featuring local artists such as Hetain Patel, Frank Stella, Tacita Dean, Permindar Kaur, Sonia Boyce, Isaac Julien, Steve McQueen, Glenn Ligon, and Andrew Logan. The Gallery also offers a robust programme of talks, workshops, film screenings, and performances, further engaging the public in creative discourse. The public can also access Bonington's Art Shop—one of Nottingham's last remaining art supply stores— which is open to the public, providing essential materials for both budding and professional artists.

7.3. Hedgehog Friendly Campus (HFC)

Since 2020, Nottingham Trent University (NTU) has actively participated in the Hedgehog Friendly Campus (HFC) initiative, providing an exciting platform to engage students and staff in actions to create a safer and more welcoming environment for hedgehogs. This commitment culminated in NTU achieving the HFC Platinum Award in 2024, recognising its efforts to establish a lasting legacy for hedgehog conservation on campus.

Key highlights of the initiative include:

- Awareness Campaigns: Awareness stickers have been added to all estate strimmers and mowers to reduce harm to hedgehogs (see Section 3.2).
- Events and Education: NTU has supported the British Hedgehog Preservation Society's Hedgehog Awareness Week and hosted events, webinars, and social media campaigns to educate the community on hedgehog conservation.
- Surveys and Audits: Regular hazard audits and hedgehog surveys have been conducted, with students and staff participating in mammal tunnel surveys to monitor hedgehog presence across campus.
- Training and Skills Development: In 2022, the Landscaping Services Team attended Hedgehog Friendly Grounds training, enhancing their landscaping techniques to better support hedgehog habitats.

The initiative not only underscores NTU's dedication to biodiversity but also fosters a greater sense of community involvement and environmental stewardship among students and staff.

7.4. Room Hire

Nottingham Trent University's City Campus offers a diverse range of event spaces available for hire, accommodating events of all sizes, from intimate meetings to large conferences. Located in the heart of Nottingham's city centre, the campus provides a vibrant setting with excellent transport links and state-of-the-art facilities, making it an ideal choice for events. Spaces available for hire include:

- Newton and Arkwright A premier venue featuring flexible spaces equipped with the latest audiovisual technology. The conference centre includes lecture theatres, breakout rooms, and boardrooms, making it perfect for corporate meetings, seminars, and workshops. The largest lecture theatre accommodates up to 450 guests, while smaller meeting rooms are suitable for groups of 10-50 attendees.
- University Hall -This stunning Grade II listed building blends historic charm with modern amenities. Its adaptable layout makes it suitable for performances, award ceremonies, and networking events.
- Boots Library Meeting Rooms Ideal for academic and collaborative workshops, these rooms offer a quiet, focused environment equipped with presentation facilities and high-speed internet.
- **The Old Chemistry Theatre** A unique venue with vintage character, perfect for talks, panel discussions, and creative presentations.
- Bonington Gallery and Atrium An inspiring space that can host art exhibitions, creative workshops, or informal networking events in a visually stimulating environment.

NTU offers tailored catering options ranging from light refreshments to full meals, ensuring your event is supported by quality food and drink. On-site event coordinators are also available to assist with planning and execution.

7.5. Sports Facilities

NTU Sport provides a comprehensive range of facilities and activities designed to cater to diverse needs, including students, staff, and members of the local community. From recreational users to elite athletes, NTU Sport supports all levels of participation. Located within the Students' Union building, the City Sports Centre features:

- A two-storey gym with 100 fitness stations
- A 30ft climbing wall.

- A sports therapy suite offering physiotherapy and massage services.
- A multi-purpose sports hall, built to Sport England standards.
- Indoor pitches and courts
- A dance studio hosting fitness classes and sports club sessions

This infrastructure is part of NTU's broader effort to promote health, well-being, and community engagement through accessible, high-quality sports facilities.

NTU Sport is committed to fostering both recreational and competitive sports. The facilities are designed to meet the evolving needs of students, staff, and the local community, reflecting the growing interest in sports and fitness activities at all levels. Examples of community access include:

- <u>Stone Soup Academy</u> use the City sports hall 4 times a week for its PE program,
 Stone soup offers alternative provisions supporting students in academic and personal development outside mainstream education.
- <u>Nottingham Forest Futures</u> uses the City sports hall and studio twice a week, an innovative initiative aimed at transforming the lives of young individuals between the ages of 14 and 25. Dedicated to empowering youth and young adults through a carefully designed combination of football and mentoring.
- <u>Landmarks Specialist College</u> use the City sports hall and fitness suite at various points throughout the year, Landmarks offers life skills, vocational and employability pathways to young people with special educational needs.
- <u>NEST School</u> use the sports hall at City, NEST is a full-time specialist education provider for young people aged 15-19 years, who are seeking asylum.
- <u>Nottingham College</u> use the City sports hall for their PE assessments, Nottingham College is an FE provider offering college courses to young people of all abilities.

7.6. Natural Dye Garden

The Nottingham School of Art & Design has transformed a space outside the Waverley building into a natural dye garden, creating a sustainable, organic, and chemical-free area for cultivating plants. This garden supports teaching, student projects, and sustainability efforts, promoting environmentally conscious practices in design and art.

The use of natural dyes grown in the garden offers multiple environmental advantages:

- **Renewable and biodegradable resources**: Natural dyes are derived from plants, making them fully renewable and environmentally friendly.
- **Non-toxic production**: Unlike synthetic dyes, natural dyes do not expose workers to harmful chemicals or produce hazardous by-products.
- Efficient water use: Natural dye production requires less water, and nutrient-rich wastewater can be recycled.



Figure 18 – Natural Dye Garden Raised Bed

The natural dye garden is a self-sustaining space incorporating compost bins for organic waste recycling, water butts to collect and reuse rainwater and chemical-free cultivation techniques, fostering an organic growth process.

The garden is accessible to students as a learning resource, supporting their education in sustainable practices. It also serves as a well-being resource, providing a tranquil space for students to connect with nature. This initiative aligns with NTU's commitment to sustainability, offering an innovative approach to combining education, creativity, and environmental responsibility. Staff also hosted a Community Day for the garden in 2024, offering workshop activities including planting and experimenting with natural dying techniques.



Figure 19 – Natural Dye Garden Community Day



Figure 20 – Natural Dye Garden Signage

7.7. Student Volunteering

As part of the 2023 Student Welcome, NTU Sustainability partnered with NTSU and Global Lounge to transform an area of ornamental planting into a pollinator paradise. Student volunteers took part in sessions to prepare the ground and plant native wildflower plug plants, creating a vibrant space to support pollinators and other wildlife. This initiative not only enhances campus biodiversity but also encourages students to engage in sustainability efforts and contribute to a healthier environment.



Figure 21 – Pollinator Square Wildflower Patch



Section 8: Marketing and Communication

8. Marketing and Communication

8.1. Marketing and Promotion

Efforts are being increased to raise awareness in the local community about the facilities available at City Campus for public use and enjoyment. The NTU website provides detailed information about the campus, including the various facilities and green spaces open to the public. Additionally, the news section of the main website and NTU's Sustainability webpages offer updates on current and upcoming events, keeping the community informed and engaged with what the campus has to offer.

8.2. Communication Channels

NTU's internal communication systems include the MyNTU dashboard, which provides daily updates to all staff members about upcoming events and news within the University. Additionally, the University Calendar is available on the website for both students and staff to reference.

The campus's Green Flag status is actively promoted through various events such as Sustainability Awareness sessions, Sustainability in Practice tours, and Welcome Week activities. It is also featured on the NTU Sustainability web pages and Instagram channel.

The Sustainability Team maintains strong relationships with both staff and student communication teams to ensure that key messages and opportunities for involvement are widely advertised. The team manages its own social media accounts, while many other NTU accounts also help share news and event information.

NTU Estates also uses an Instagram account as a visual portfolio and maintains dedicated web pages to keep staff and students informed about any disruptions and updates on ongoing campus developments.

8.3. Educational Information

NTU's Sustainability webpages feature a dedicated section for City Campus, where staff, students, and members of the public can access this Landscape Management Plan (LMP) and explore the numerous opportunities available on campus.



Section 9: Management

9. Management

9.1. Management Structure

City Campus is managed by the Landscape Services Team, which operates under the Estates Department. In collaboration with the Sustainability Team, they ensure that up-todate information on best practices for environmental management is shared across the University.

The Director of Estates, with the support of the University Executive Team, oversees the management and implementation of the University's Environmental Policy.

The Landscape Services Team holds regular meetings with academic staff to provide updates and ensure alignment between the team's activities and teaching projects.

The Sustainability Team and the Landscape Services Manager annually review this Landscape Management Plan.

9.2. Project Funding

For redevelopment projects, the University uses working capital for site work to support these initiatives. With each new building project, the University aims to incorporate new landscaped areas, which are guided by the Sustainability Team.

The Landscape Services Team manages an annual budget of circa £500,000 for all three campuses. A detailed breakdown of spending on larger projects can be found in the Implementation Plan in **Appendix B**.

9.3. Management Priorities

The current short-term aims for City Campus are:

- Review and expand rewilded areas across the campus.
- Embed existing and future engagement activities into campus management.
- Realign resources, from the wider team, in completing key tasks.

The long-term aims are:

- Increased creation of invertebrate, bird, bat and, small mammal habitats across the estate as part of the campus development.
- Secure additional funding to maintain our commitment to green spaces.

Appendices

Appendix A – Landscape Operations Service Level Agreement

Landscape Maintenance Operations

- Mowing: The Landscape Services (LS) team will manage & mow key areas from March to December each year. These areas will be kept to a height of between 25-75mm as appropriate. Where the weather significantly impacts these grass height parameters areas will be cut as soon as practicable and where weather & ground conditions permit.
- 2. Strimming: the LS team will undertake this activity from March to December each year to maintain areas inaccessible by regular mowing i.e. around trees, obstacles and building perimeters. Subject to other work priorities the LS team aim to complete this task 3-6 times per year only.
- 3. Wildflower areas: maintenance of these areas will be dependent upon local and species variations as well as prevailing weather and ground conditions. The maintenance of these areas, at Clifton Campus, sits with contractors unless agreed otherwise. Wildflower areas at Brackenhurst are managed by the LS team in conjunction with NTU ConSoc. All wildflower areas are subject to a cut-and-collect activity during late Aug/ early Sept.
- 4. **Rewilded areas**: maintenance of these areas will be agreed/identified across all campuses to support biodiversity and plots may vary from year to year. These areas are left unmown from the end of April to early September after which they will be subject to a cut-and-collect process to tidy up for the Autumn.
- **5.** Lawn edges: where deemed necessary key areas will be subject to edging off with half-moons during the Autumn/Winter. Targeted areas will be subject to trimming back, with lawn shears, six times per year (Spring-Summer) to maintain a tidy edge along key ornamental beds.
- **6. Pruning**: Periodically prune and deadhead a wide range of plants depending on species and time throughout the full year.
- 7. Hedges/understorey mixes: these will have their tops and sides pruned 1-2 times per year subject to location and potential visibility/safety issues as well as managing the health & vigour of hedges Any works during the bird nesting season (1st week of March 1st week of Sept) will be subject to a bird nest survey 24 hours before any works commencing. All such surveys are to be signed, dated and kept for record.
- 8. Leaf clearance: will be managed during the autumn & winter periods as part of overall landscape maintenance activities. However, due to the sheer volume of leaf fall, across all campuses, collection will be limited and prioritised accordingly.
- **9.** Weed & pest control: will be undertaken by a variety of methods in line with best practice which limits the use of pesticides to the absolute minimum. Such activities include mulching, hand weeding, and creative and selective planting. The use of herbicides will be through spot treatment and the number of applications will range between 3-6 times per year. From time to time, we will contract out broad-scale chemical control to specific areas i.e. grass sports pitches to improve the quality and integrity of the surfaces and this activity will be undertaken at times to keep impact, for users and the environment, to an absolute minimum.
- 10. Sports Pitches (Natural & Synthetic surfaces): will be prepared, maintained, and set up to support on-campus student BUCS fixtures which will be supplied by NTU Sport. LS are committed to supporting all fixture commitments but will liaise with key stakeholders where prevailing weather and ground conditions may either (1) put the end user at risk and/or (2) put the integrity of the surfaces at risk and/or may cause long-term damage. Where a request

comes in for external use, we will consider the viability and potential implications whilst putting BUCS commitments as our primary consideration. The final decision on cancellations rests with the LS team and in particular the lead operative who maintains the NTU sports pitches. All grass sports surfaces will be reviewed, throughout the season, to determine any potential end-of-season renovations taking place soon after term 2. All decisions will also factor in available funds to do so.

- 11. **Arboriculture work:** All NTU trees and woodlands will be subject to a 3 yearly consultant's survey to determine the health, condition and potential risk posed (including any recommendations on replacements). Any recommended works will be prioritised as prescribed by the survey. The LS lead operative, who maintains the NTU trees and woodlands, will determine all other remedial works that may be required in between surveys and in particular as soon as practicable after any storms This lead operative will report back, to management, on any interim works, that requires attention, and/or the intervention of further reports and support required by external arboriculturists/consultants. All related works will be completed in line with BS3998:2010. At key locations, some trees fall within conservation areas and may also be subject to Tree Preservation Orders (TPOs). Any work to these trees should first be assessed and approved by the relevant local authority tree officers, by submitting a formal application with all supporting evidence here. No works shall proceed until consent has been granted. This consent can take up to 8 weeks to be approved unless superseded by any immediate or obvious risks.
- 12. Glasshouse work: the LS team oversee the production of a range of plant materials to support various landscape projects and seasonal bedding schemes across NTU. Volume varies, subject to available resources, but can turn around up to 30k of propagated material every year from seed, cuttings and plugs should resources allow.
- **13.** Snow clearance & gritting: will be supported, by the LS team, during adverse winter weather and in conjunction with other key personnel in line with the Estates Gritting Procedure
- 14. Litter control: as part of its routine activities the LS team will collect litter from key landscape areas such as sports areas, shrub beds and lawn areas (inc. dog waste bins). This will be underpinned with support from FSA operatives who oversee overall litter control for all NTU external spaces (inc. waste bins)
- 15. **Green Waste Recycling:** as part of its wide range of activities LS produces a significant amount of green waste including leaves, tree, and shrub arisings as well as grass cuttings. Such waste is managed via our recycling compound to generate compost to be returned to the NTU landscapes where mulching is required. This process reinforces our commitment to recycling green waste, generated by our activities, as well as reducing the reliance on water consumption and application of pesticides.
- **16. Watering**: will be determined by landscape-specific demand throughout the year and be driven by the prevailing climate conditions. Where practicable we will utilise measures to reduce water usage such as the application of water-absorbing gel, wetting agents, and mulches. In addition, we will procure and plant drought-tolerant species, in key settings and aspects,
- **17.** Living Walls: will be managed and maintained, through monthly visits/inspections, by external contractors.
- **18. Indoor Planters:** which fall under the remit of LS only will be subject to monthly visits to carry out watering, feeding and general health and condition checks. All internal planters that fall outside of this remit will not be subject to such visits.
- **19. Sedum Roof:** will be visited 1-2 per year to remove debris and weeds and check general condition. These visits will be carried out in the Autumn-Winter.
- **20. Water Features:** will be maintained and tended to with a combination of LS and contractors as well as academics & students to support coursework and research.

Appendix B – Implementation Plan

	Action	Target	Budget	Timescale	Owner	Status
	Review and implement rewilded areas	To increase the biodiversity of specific areas of grassland by allowing the area to rewild. This will result in the natural establishment of flora and increase the habitat provisions for invertebrates and amphibians.	Within existing budget	2024+	AH	To prioritise and manage within maintenance frequencies
Campus	Promote and support key stakeholders to engage further with green spaces	To promote and enable NTU staff and student groups to engage with green space management.	Within existing budget	2024+	AH/JM	Herb Garden & Dye Garden in progress and dialogue in place with Library team RE roof garden etc.
City	General maintenance regimes	To maintain and improve where possible the City campus for staff, students, and wildlife.	Within the existing budget (Subject to SLA)	Ongoing	АН	See Service Level Agreement (Appendix A)
	DaDA Living Wall management and maintenance	To reinforce the sustainability and biodiversity value	Circa £7.5k pa	June 2025+	AH/RT/SB	The remit for management falls under Landscape Services/contract
	Create a Habitat and Protected Species Action Plan for City Campus	To guide future campus development and the ongoing management of the estate to protect and enhance biodiversity	None required	2024+	JM	Completed 2024 (See Appendix C for applicable habitats)

Appendix C – Habitat and Species Conservation Management Plan

Estate-Wide Actions

Action	Owner
Ensure compliance with all national and international legislation regarding biodiversity and the conservation of species and habitats.	S
Define and commission surveys to baseline NTU's biodiversity, produce habitat maps for the estate and set ambitious targets for biodiversity.	S
Prioritise the planting and management of native nectar and berry-producing species of local provenance across the estate's landscaping. Where non-native plants are used, ensure that they are carefully selected to enhance biodiversity.	L
Create new habitats through landscape management interventions or by using green and blue infrastructure, such as green roofs and living walls, within development footprints.	CD & L
Monitor and control any invasive species that are or become present within the estate; eradicate invasive species wherever possible.	L&S
Review the estate for habitat fragmentation; improve connectivity within the estate and within the wider landscape by strategically planting native tree species and creating wildlife corridors.	L&S
Where possible, hedgehog highways will be installed in physical barriers that affect connectivity and access e.g., fencing.	S
Continue to install and monitor bat boxes, bird boxes, bird feeders, hedgehog houses, insect hotels, hibernacula, and log piles across all campuses.	CD, L & S
Halt all use of peat-based products in the university's Landscaping Services activities from spring 2023.	L
Engage with staff, students, and visitors on the importance of biodiversity and actions that can be taken to conserve and enhance biodiversity within the estate e.g., using signage and citizen science monitoring projects.	S
Annually report on biodiversity actions undertaken across the estate within the Sustainability Report, which is publicly available on the NTU website.	S

Built Environment

Dwner
D
. & S
D
CD & S
D



Woodland & Scrub

Action	Owner	
Increase the species and structural diversity of woodlands, by targeting woodland management to create a diverse range of habitats e.g., allowing ground flora to grow by selectively thinning, planting suitable species e.g., those listed within the National Vegetation Classification (NVC) or translocating local leaf litter to encourage flora establishment in suitable habitats.	ARES & L	
Create additional habitats in woodlands, such as log piles and leaf piles, to provide shelter for invertebrates, amphibians, and hedgehogs.	L	
Standing dead wood and fallen timber will be left in situ unless they pose a safety hazard to footpaths, roads, or highly public areas. This will provide biodiversity benefits to a variety of species including invertebrates and birds.	L	AD THE AL
Where practicable and safe to do so, as much standing dead wood will be left as possible and tree stumps will be cut as high as feasible to encourage invertebrates that are dependent on dead or decaying wood.	L	Ree Starks
Proactively monitor potential external threats to tree stock, including the national spread of tree diseases; undertake pre-emptive action if required.	L	- Solar a
Install nesting boxes for various bird and bat species to encourage breeding populations and provide woodland shelter.	L & S	
Protect all veteran trees within the estate and undertake regular condition inspections to determine sensitive management requirements and manage appropriately.	ARES & L	

Non-Agricultural Grasslands

Action	Owner
Extend the area of diverse neutral grassland habitat, by reducing the area of amenity grassland across the estate.	L
Continue to review and expand rewilded and wildflower-planted areas within the estate, by reducing the management of	ARES, L & S
grassland areas and planting local provenance native wildflower seed mixes of pollen and nectar-producing species.	
Mow grassland areas annually from late summer, to allow wildflowers to set seed and propagate. Cuttings will be collected	L
and removed to achieve and maintain low-fertility soils.	
Encourage species diversity by reducing soil fertility and introducing local province native species such as yellow rattle.	L
Before the management of grassland, checks will be undertaken for any hedgehogs or other wildlife in the area, to reduce	L
the risk of harm from mowing and strimming equipment. "Check for hedgehogs" warning labels are present on all grounds	
maintenance equipment as a reminder for staff.	



Appendix D – City Campus Habitat Map

