



Broxtowe
Borough
COUNCIL

COLLIERS WOOD LOCAL NATURE RESERVE

Management Plan 2019 - 2024

Green Flag Submission Year 3

*"To allow the area to develop naturally,
encourage diverse habitats and introduce
limited features required for the
community use of this open space"*



Thanks to everyone who helps keep Colliers Wood a great place for you to visit and enjoy.

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COLLIERS WOOD, NEWTHORPE, NOTTINGHAM MANAGEMENT PLAN 2019-2024

Document History

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Acknowledgements

CABE Space – A Guide to Producing Park and Green Space Management Plans
Terry Blythe – The Nottinghamshire and Derbyshire Coal Fields Web Site

EXECUTIVE SUMMARY

The provision of parks, recreation grounds and open spaces across the Borough of Broxtowe is recognised as being strategically important to the Council, through the Environment and Health Priorities in the Corporate Plan 2020-2024.

In addition, the Council identified the need to draw together the management and maintenance issues relating to all green spaces in the Borough through the creation of the Green Infrastructure Strategy 2015-2030.

Colliers Wood is a very valuable asset for both the local amenity and visitors to the area. The management plan takes a medium term strategic view of the site and outlines how the area can contribute to both social and environmental issues.

CHAPTER 1 – INTRODUCTION, BACKGROUND AND CONTEXT

Chapter 1 of the Colliers Wood Management Plan sets the scene and provides the introduction and background to the site's management. Information is provided about the location and a description of the site. In addition, the context of the site within the Borough of Broxtowe is discussed and relevant wider policy issues are described.

1.0 Introduction and Background

1.1 Summary of Management Plan

The purpose of this document is to provide a framework for the future management, maintenance and development of Colliers Wood from 2019 to 2024. It builds on the previous plans for the period 2008-2013 and 2013-2018. The original plans were well received by the Green Flag judges and a similar format for this plan has been adopted. Revisions have been made to reflect how the site has changed. It follows the CABE Space guidance on the production of such plans. The plan has been developed as a working tool to provide the focus for everyone involved in the management and development of the site.

The management plan is not a stand-alone document and should be read in conjunction with other relevant policies and documentation as detailed in sections 11 and 12. The plan does however bring together a wide range of issues and information in one document and where relevant, highlights links to other, more detailed documents/policies.

1.2 Format

The format of the management plan is in four sections, which provide the following: -

- A background and context to the site including its history and a policy review;
- A current position statement and assessment of strengths and weaknesses based around the Green Flag Award judging criteria;
- An assessment of long-term objectives and future management prescriptions for the site;
- A five-year action plan for the continuous improvement and a programme to monitor and co-ordinate this.

The plan is written to both support a bid for a Green Flag Award and act as a management tool for the site.

1.3 Target Audience and Usage

The management plan encompasses an agreed action plan for change and continuous improvement within Colliers Wood. It is a working document to assist and support officers of Broxtowe Borough Council, site users, the Friends of

Colliers Wood and the wider community.

The plan is reviewed annually.

2.0 Vision

Broxtowe Borough Council's vision statement is:

'A greener, safer, healthier Borough where everyone prospers.'

In preparing the previous management plans, Broxtowe Borough Council and the Friends of Colliers Wood agreed a vision for the site:

'To allow the area to develop naturally, encourage diverse habitats and introduce limited additional features required for the community use of this open space'.

The vision is still relevant for the current Management Plan.

3.0 Aims

The following aims have been developed to reflect future needs of Colliers Wood. The aims are based upon the key criteria set for the Green Flag Award, recent public consultation, Broxtowe Borough Council's corporate objectives and liaison with stakeholders.

- **To provide a welcoming site for all residents and visitors.**
- **To provide a healthy, safe and secure site for all users.**
- **To achieve a consistently high standard of maintenance and cleanliness.**
- **To advocate and demonstrate sustainable environmental management.**
- **To protect, conserve and promote the nature conservation and heritage value.**
- **To actively promote and enable community participation and involvement.**
- **To raise the profile of the site by maximising marketing opportunities.**
- **To ensure effective and viable management.**

Further details and objectives are outlined in Chapter 3.

4.0 Site Name

The name for the site was chosen following consultation with the public in 1997 during the final stages of open casting, prior to its development as an open space. In total 49 suggested names were put forward. Colliers Wood was the most popular choice from a number of shortlisted selections, given its connection with the site’s past and it’s future potential as an area of woodland and open space.

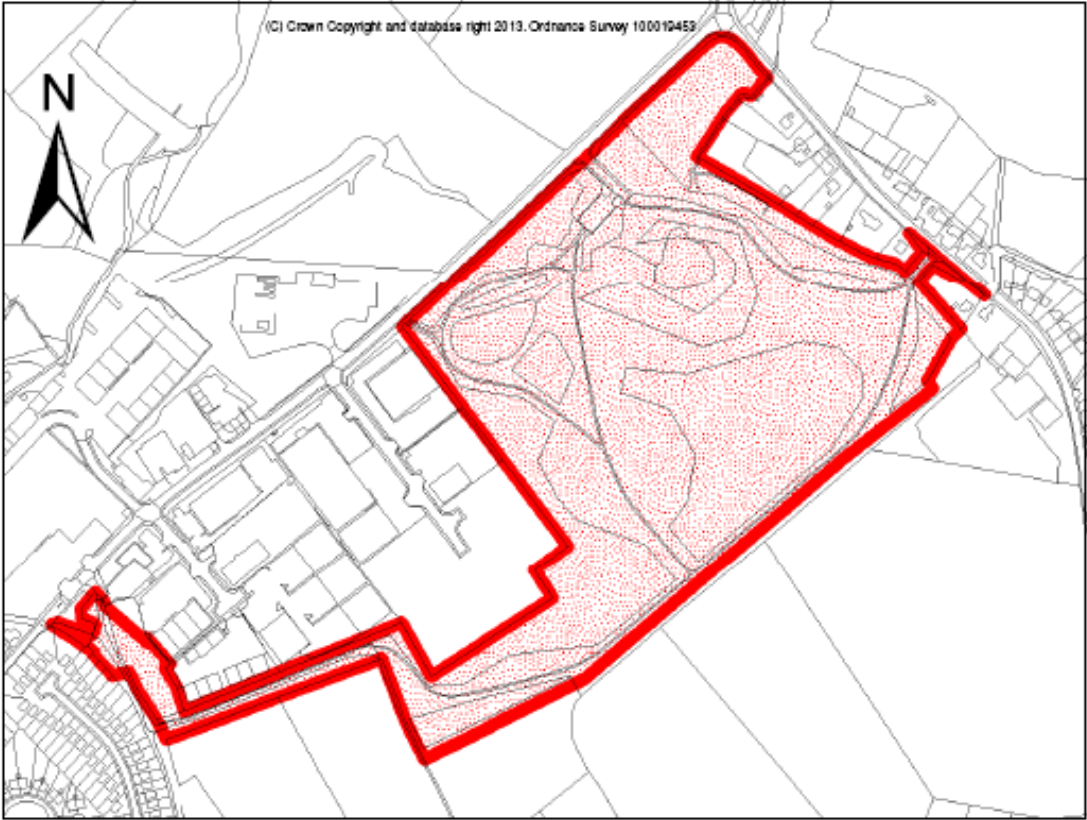


Figure 1a – Plan of Colliers Wood

The shaded area defines the area covered by the Management Plan.

5.0 Location and Size

Colliers Wood is approximately 14.2 hectares in size, comprising a mix of tree planted areas, wildflower areas, open grassland, an area of wetland and open water. See Appendices 1 and 2. It is situated on Engine Lane in the Eastwood North and Greasley/Beauvale Ward, within the Borough of Broxtowe. It is located adjacent to the urban area of Eastwood. It is also easily accessible for many other urban areas in the North of Broxtowe, namely Kimberley, Nuthall, Watnall and Brinsley.

It is 10 miles from Nottingham City centre, 12 miles from Derby City centre and only 10 minutes' drive from Junctions 26 and 27 of the M1.

The site can be located on the OS Landranger map no.129. The grid reference for the main site entrance is 448081:348100.

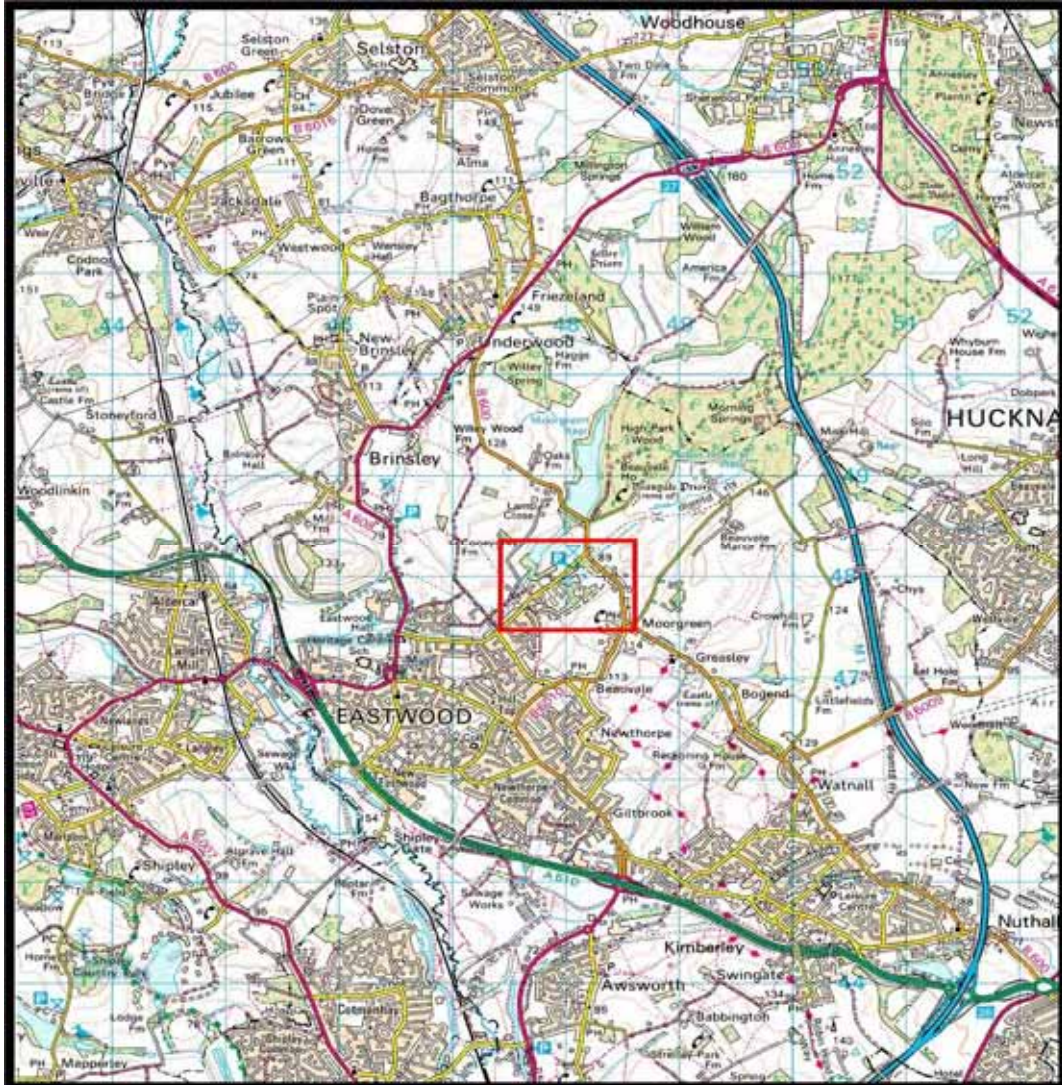


Figure 2 – Location of Colliers Wood

The letter P within the red box shows the sites main entrance.

6.0 Site Description

6.1 Background

Colliers Wood is one of the major green open spaces within the borough that are managed and maintained by Broxtowe Borough Council. It is created on the site of the former Moorgreen Colliery and is part of the Greenwood Community Forest.

The site is a focal point for community participation in educational, environmental and recreational activities. It is a much appreciated facility for dog walkers, families, children and schools/community groups, who all value the site for its quality of life benefits.

There are many key and varied features to the site, including the network of surfaced paths and the developing woodland areas. Facilities include a multi-purpose auditorium, dipping platforms, seats and picnic tables, together with the new community wheel activity space. The interpretation panels and references to mining throughout the site help illustrate the area's history.

The site is well used by local people and visitors and is a popular venue for community events.

6.2 Context within the Adjacent Landscape

The site forms part of a corridor of definitive rights of way with links from Moorgreen Reservoir, Greasley Church, the 'Robin Hood Way' Brinsley Headstocks and Eastwood Hall. Many of the rights of way act as important green corridors as do adjacent hedgerows, the Beauvale Brook and disused railway.

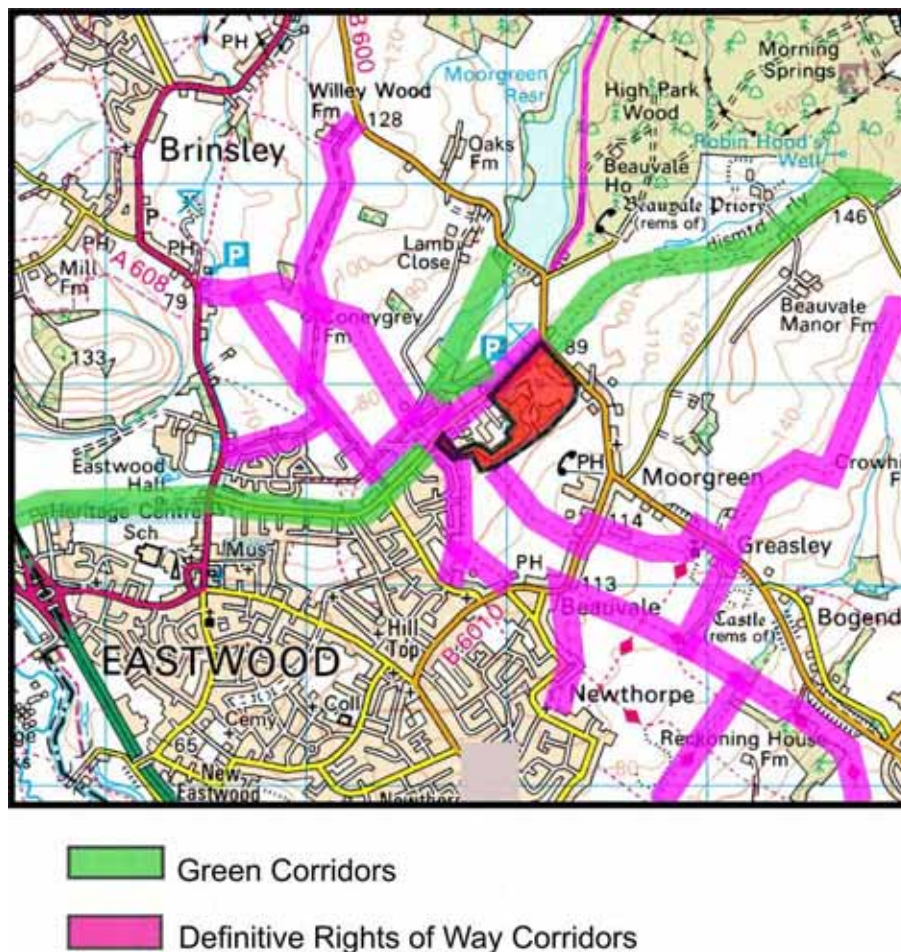


Figure 3 – Rights of Way and Green Corridors to Colliers Wood

The Green Infrastructure Strategy 2015-2030 (see link below) identified GI Corridor 2.2 Nether Green and Beauvale Brook. This runs close to the north western boundary of the site.

<https://www.broxtowe.gov.uk/for-you/parks-and-nature-conservation/nature-conservation/green-infrastructure/>

6.3 Landscape Zones

For management purposes, Colliers Wood is separated into a number of distinct compartments or landscape zones. These areas are briefly described below.

6.3.1 General Open Space

This constitutes 21% of the site or 3 hectares. It includes the multi-purpose auditorium, picnic areas, community wheel activity space, car park, surfaced footpaths and open grassland. This part of the site is used for a variety of community and educational events throughout the year, notably the annual dog show, outdoor theatre performances, Winter Wonderland Celebration and educational visits by schools. The open grassland is now managed as a hay meadow with a cut and collection in late September/early October.



Figure 4 - Open Space

6.3.2 Woodland Compartments

This area constitutes 43% of the site or 6.1 hectares. The trees were planted in 1996/97 using 30-45cm whips. The areas are protected by rabbit proof fencing which also deters public access. Many of the areas have open drainage ditches, which provide a variety of environmental habitats. Establishment of the tree areas has generally been very good. There are however, some areas where establishment has been variable and other parts of the site where the wet ground conditions have resulted in stunted growth.



Figure 5 – Bench and Woodland Compartments

6.3.3 Large Pond

This is an area of water 0.3 hectares in size representing 2% of the total site. It has a dipping platform that is used by school and uniform groups and is actively promoted by the Friends of Colliers Wood. The water level is controlled by an outfall on the north/western boundary of the pond. All the surface water drains on the site feed into this area, either direct or via the smaller pond in the wetland area. An artificial island has been constructed in the middle of the pond for wildlife.



Figure 6 – Large Pond

6.3.4 Small Pond

This is a transitional area that in winter forms a small pond changing to an area with wetland margins in the summer as the water level falls. In the summer the area may dry out completely. This fluctuating habitat provides an alternative environment for many species on the site. It is linked to the large pond by an open ditch and culvert. A number of the site's open ditches feed into this area.

The area needs work to control invasive willow growth.



Figure 7 – Small Pond

6.3.5 Alternative Grassland Areas

Located on the fringes of the woodland compartments are these areas with a mixture of wildflowers. They were originally created as part of the initial landscape of the site using locally sourced seed. They have been expanded and further populated with additional seed and by plug planting undertaken by local schools and youth groups. Specific areas have also been set aside with cereal planting to act as a seed source for mammals and birds.

6.3.6 Wetland Meadow Areas

There are areas of the site that, due to the topography and ground conditions have standing water for large parts of the year, drying out only during the summer months. The most significant areas are located between the Tupton Copse and the D H Lawrence Copse on the Central Meadow. There are also areas of wet woodland in the Wetland Copse and Engine Lane Copse, which provide a further environmental habitat.



Figure 8 – Wildflowers on the edge of annual grass cut area

7.0 Access

The site has a large catchment area attracting visitors from areas in the north of Broxtowe, namely Eastwood, Kimberley, Nuthall, Watnall and Brinsley. Due to its developing potential and increased marketing, it also attracts visitors from all parts of the borough and from neighbouring areas outside the Borough's boundary.

The site is within walking distance of Eastwood Town Centre.

Pedestrian access is possible via 6 formal access points.

In addition, there is one main vehicular access point with car parking off Engine Lane, close to the B600.

From Eastwood Town Centre the Y10 Your Bus Service provides access to the site. Access to the site for bicycles is good and cycle racks have been installed.

8.0 Land Tenure

The site is classed as Public Open Space. Broxtowe Borough Council holds the freehold to the entire site. This was transferred to the Council from British Coal following the completion of open cast mining works. All management, maintenance and policy issues are the responsibility of the Borough Council's Parks and Environment Team.

9.0 Legal Issues

9.1 Byelaws

The site is covered by a generic legislative framework, which seeks to address and control behaviour and activities within the Borough Council's parks, recreation grounds and open spaces. These are promoted and enforced in partnership with the Police, Neighbourhood Wardens, the Council's security contractor and other Council departments.

The open grassland areas of the site are designated as canine faeces removal areas.

9.2 Public Rights of Way

There are a number of definitive rights of way that are on or adjacent to the boundary of the site.

Engine Lane to the north of the site is byway open to all traffic Greasley (BOAT) 2.

Public Right of Way Greasley 67 runs from Engine Lane to Mill Road.
Public Right of Way Greasley 3 runs from Engine Lane to Moorgreen.

9.3 Covenants/Easements

There are various covenants/easements covering the site relating to maintaining the fence boundaries, links with dykes on adjoining land, maintenance of sewers, drains and watercourses and rights of access across the land. These are detailed in full in Land Registry title NT 319207.

9.4 Designations

The site is designated as a Local Nature Reserve. In the Local Plan the area is classified as 'Existing Open Space'.

10.0 History

10.1 1865-1985

One of the final stages in the change in mining patterns in Nottinghamshire was reached in July 1985, with the closure of Moorgreen Colliery, the last of the Eastwood area collieries. There had been 19 working collieries within three miles of the centre of a town associated with the growth of the industrial revolution in the 19th century, the birth of the Midland Railway and D. H. Lawrence. Lawrence once described the area as "the coal blasted countryside, and the pits like black studs linked together by the loop of fine chain, the railway."

Moorgreen was also one of the last two working pits within the Erewash Valley on the western part of the Nottinghamshire coalfield. Moorgreen was always an outstanding colliery and the people who worked there were recognised as among the best. It used to be said: "if you come from Moorgreen, we'll set you on."

Erewash Valley coal was outcropped for centuries and was known to be in use in Nottingham during medieval times. Gradually the outcrops gave way to bell pits - little more than holes dug down to the coal and hollowed out into the shape of a bell. So many were excavated in the area that some fields were unsafe for grazing cattle because of the risk of them falling into an old pit. The coal was so near the surface that the cellar of the New Inn at Newthorpe, not far from Moorgreen, was hewn out of a bed of coal called the Main Seam.

In 1865, the Barber Walker Company sunk Moorgreen's Number 1 and 2 shafts, about 800 feet deep to work the Deep Hard and Deep Soft seams for domestic and industrial steam raising coal. In the same year the No. 3 shaft was also sunk to the Top Hard, a seam known locally as the Rifle Bed, possibly because, at a depth of little over 300 feet, it was so close to the surface that it had been "rifled" so often.

In 1920 two number 1 in 3 incline drifts were driven from the Deep Hard down to the Tupton seam about 150 feet below, though it turned out to be very badly faulted and only a small area was worked between 1920 and 1925. Until 1927 the Second Waterloo seam had been worked from High Park colliery, but at that time a 1 in 1.97 incline drift was completed between it and the Deep Hard and it was then worked from Moorgreen and wound from the Deep Hard horizon. In 1943 work was completed on the construction of Moorgreen's Surface Drift, a 12 by 9 foot six inch arched roadway, 660 yards long at a gradient of one in three. From 1945 Second Waterloo coal was transported up to the surface drift in tubs on an endless rope haulage. The last major project launched by the former owners came in 1945 when the No. 2 coal winding shaft was deepened to the Tupton Horizon at a depth of about 1000 feet.

Production topped a million tonnes a year in 1962 and hovered around that mark until the mid 1970's. The Tupton seam was worked from the deepened No. 2 shaft from 1948, using one of the drifts driven in 1920 for supplies and ventilation, until 1953. In 1949 No. 1 shaft was deepened to the Tupton and

the pit bottom was completed in 1953. No. 3 shaft, which had been sunk to the Top Hard, was used as an upcast shaft for workings in the Second Waterloo seam until 1960 when a connection was made to Watnall colliery and new fans installed there. A major re-organisation was launched in 1968 when the reserves of the neighbouring Selston colliery were divided between Moorgreen and Pye Hill. In the same year Moorgreen became one of the first collieries in the Midlands to introduce the then revolutionary idea of retreat mining, in which the gate roads are driven out to the full extent of the panel before the face is worked "backwards" back towards the main road. At the same time the uneconomic faces in the Waterloo and the whole of the Tupton seam were closed down.

Between 1971 and 1973 a 1 in 4 incline drift was driven from the Tupton to intersect the Second Waterloo seam at the bottom of the surface drift. A conveyor system was completed two years later that allowed all the Blackshale output to be delivered to the surface by conveyor belt. The Second Waterloo was abandoned in 1976.

10.2 1985 - 1998

From 1985 to 1994 the land was disused and was reverting to scrubland. Whilst there was no formal public access, various routes were used for dog walking and the site suffered from problems with use by off-road motorcycles. In 1994 permission was granted by Nottinghamshire County Council, for a limited opencast mining scheme to recover the remaining coal from the site. This work was undertaken over a period of 2 years in 1994 and 1995.

The planning consent for this work did, however, require the site to be restored for future beneficial use with 14 hectares allowed for community woodland and 8 hectares for industrial use. This work was funded by a £358,400 commuted sum paid by British Coal. In addition, a woodland grant to the value of £13,000 was received for the planting works.



Figure 9 – Restoration Works September 1997

Following completion of the open coal mining a landscaping programme was implemented to create the type of environment that was common in the area before the mine was developed.

The commuted sum figure allowed for a 5 year maintenance term, which was undertaken by the main contractor.

In 1991 the former National Coal Board workshops and training centre were purchased by Caunton Engineering, who improved and developed the site as The Moorgreen Industrial Park. Further improvement and redevelopment took place as part of the Eastwood Phoenix Project.

Nottinghamshire County Council upgraded Engine Lane in 1994 as part of the “New Deal” initiative at a cost of £500,000.

The Borough Council’s High Hazel Court units opened in October 1995. They represented an investment of £200,000 and provided purpose built accommodation for small businesses.

The reclamation project provided a further 20 acres of land for new employment, attracting Government and European funding to develop further purpose built units for small and growing businesses and to provide infrastructure to attract larger firms to the site.

On 2 December 1997 former miners from Moorgreen, together with the Mayor of Broxtowe, representatives from Eastwood Town Council and Greasley Parish Council, planted trees as part of National Tree Week. This group of trees known as ‘Miners Copse’ is close to the main pedestrian entrance from the car park.



Figure 10 – Miners Copse

10.3 1998 to 2008

The site was officially opened on 1 May 1998 by the Mayor of Broxtowe and the Mayor of Eastwood. The event was attended by the winner of the naming competition and local school children. After the official speeches and ribbon cutting ceremonies the children took part in a treasure hunt to find clues relating to a mystery word. The word was in fact 'COAL', and they all received a symbolic piece of coal – black tissue paper containing a bar of chocolate as their 'reward'.

Shortly after the official opening the Friends of Colliers Wood was formed. It was set up to maximise the potential and usage of the area for the benefit of the whole community.

Full maintenance responsibility transferred to the Council in April 2002. Since then, there have been a number of significant changes with the installation of the amphitheatre, the creation of a new dipping platform, new signage, a new site leaflet and footpath resurfacing. The most recent addition is the new community wheel activity space.

The first management plan for the site was prepared in autumn/winter 2007.

10.4 2009 Onwards

In reality the site is still only in its infancy. A great deal has, however, been achieved in a short time and the transformation from a vast expanse of transplants to the young woodland areas has been quite dramatic. The future for the site continues to look promising with increased usage, a diverse range of events for the site, changes to management regimes to reflect the Council's Climate Change and Green Futures Strategy and an active Friends Group. This will be expanded on further in Chapter 3 "Where do we want to go?"

11.0 National Context

In developing a management plan for Colliers Wood it is important to understand the current political and policy context in which Park Managers and Maintenance Teams are operating. In recent years parks and open spaces have risen in importance on the political agenda with various national strategies created, setting out a framework for future management. Alongside this however, the financial constraints that local authorities are now working in have changed dramatically over the last few years and will continue to do. A number of current and relevant publications and policy guidance notes are outlined below.

11.1 National Planning Policy Framework

Published in March 2012 this document sets out the Government's planning policies for England and how these are expected to be applied. It provides a framework within which local people and councils can produce their own

distinctive local and neighbourhood plans, which reflect the needs and priorities of their communities. Relevant topics covered are:

- Promoting healthy communities
- Protecting Green Belt land
- Meeting the challenge of climate change
- Conserving and enhancing the natural environment
- Conserving and enhancing the historic environment

11.2 A Guide to Producing Parks and Green Space Management Plans

Published by CABI space in 2004, this guidance manual sets out a framework for developing and writing management plans for parks and green spaces. The guide provides best practice on the content of management plans, how they could be developed, what they will achieve, when will the work take place and how will it be done.

11.3 Cleaner, Safer, Greener Communities: How to Create Quality Parks and Open Spaces

Published by the Office of the Deputy Prime Minister in June 2005. This guide explores current challenges and opportunities associated with parks and open spaces and highlights current guidance and powers available.

11.4 Paying for Parks

Published by CABI space in 2006, the document sets out eight different models for funding the maintenance and management of urban green space and reviews their benefits and constraints.

12.0 Local Strategic Context

This management plan compliments the wider strategic context of other Broxtowe Borough Council documents and Council Policies. It seeks to achieve the objectives of the strategic framework by translating those that are appropriate, into the management of the site. These documents and policies are listed below:

- Broxtowe (Greater Nottingham) Aligned Core Strategy 2014
- Broxtowe Sustainable Community Strategy 2010-2020
- Broxtowe Corporate Plan 2016-2020
- Green Infrastructure Strategy 2015-2030

12.1 Broxtowe (Greater Nottingham) Aligned Core Strategy 2014

This is a key strategic planning document which:

- Sets out a number of special objectives

- Sets out a spatial development strategy
- Sets out strategic policies to guide and control the overall scale, type and location of new development.

Other designations in the area surrounding Colliers Wood include the following sites of Importance for Nature Conservation:

- The Dumbles
- Beauvale Streamside Meadows
- Moorgreen Reservoir
- Moorgreen Meadow

12.2 Broxtowe Borough Partnership – Sustainable Community Strategy 2010 – 2020

The aim of the Community Strategy is to address key issues facing the Borough of Broxtowe. It is supported by a partnership of agencies involved in the borough, that are committed to working together to improve the quality of life in the community.

Successful community strategies are built upon active input from local communities. The Broxtowe Partnership undertook a major community consultation exercise in order to develop this strategy. Partner organisations and local communities were invited to present their views on priorities for action and this strategy is based largely upon the results of that consultation. It has helped the Council identify clear priorities and targets which may be challenging but are intended to make an impact on quality of life in the area.

The key areas are: -

1. Employment
2. Community Safety
3. Healthy Living
4. Children and Young People
5. Housing
6. The Environment
7. Community Relations

The full strategy is available for viewing on the Broxtowe Borough Council website. See link below.

<https://www.broxtowe.gov.uk/media/1407/sustainable-community-strategy-for-2010-2020.pdf>

12.3 Corporate Plan 2020-2024

The plans priorities are:

Housing

- A good quality home for everyone.

Business Growth

- Invest in our towns and our people.

Environment

- Protect the environment for the future.

Health

- Support people to live well.

Community Safety

- A safe place for everyone.

See link below

<https://www.broxtowe.gov.uk/about-the-council/strategies-plans-policies/corporate-plan/>

12.4 Green Infrastructure Strategy 2015-2030

This strategy was approved by the Council's Leisure, Parks and Cemeteries Committee on 5 July 2016.

The creation of a Green Infrastructure Strategy was a key target in the Council's Corporate Plan. The report took over 18 months to prepare in partnership with Groundwork Greater Nottingham. Public consultation took place during May and June 2015 and engaged a wide range of stakeholders.

The strategy identifies the green assets within the Borough such as amenity and wildlife sites, green access routes, water features such as rivers and ponds and heritage assets. The document studies how these assets fall into corridors forming the green infrastructure network in the Borough. The mapping of these corridors also helps to identify gaps within the network.

The Council worked closely with other agencies and interested groups such as Natural England and Nottinghamshire County Council to create the strategy and, following the consultation, changes were made, principally the addition of six corridors, to create the final document.

The strategy includes lists of ideas and projects that will help form the basis of future capital programmes and assist as part of the consultation process for new planning applications and requests for funding. It will also inform work around the development of parks and open spaces, the management of nature reserves

and wildlife areas, and ways of increasing facilities to encourage healthy active lifestyles.

See link below.

<https://www.broxtowe.gov.uk/for-you/parks-and-nature-conservation/nature-conservation/green-infrastructure/>

12.5 Climate Change

Climate change is one of the most important issues we face, not just locally but nationally and worldwide. In July 2019 the Council declared a “Climate Change Emergency” and committed to becoming carbon neutral by 2027. As part of this process a new Climate Change and Green Futures Programme has been produced. This has 14 key strands with the ones most relevant to Colliers Wood being:

- Water courses
- Meadow planting and wildlife corridors
- Tree planting

See link

<https://www.broxtowe.gov.uk/for-you/climate-change/>

12.6 Procurement Strategy

This has 5 key strategic objectives.

- Procurement should contribute to the realisation of the Council's vision and support the achievement of strategic objectives.
- All procurement projects should be professionally managed so that the intended benefits are delivered.
- Partnering and other alternative service delivery options should be considered for all major projects/expenditure.
- There should be a successful transition to e.commerce as part of the Council's e.government strategy.
- A consistent and co-ordinated approach to procurement should be implemented across the Council.

These objectives will form an integral part of the management plan and in particular the issues detailed below will be considered.

Alternative Service Delivery Methods
Consideration of Partnering
Workforce Issues and employee involvement
Sustainable Procurement
Equal Opportunities

12.7 Risk Management Strategy

The Council's strategy has procedures in place to: -

- Integrate risk management into the culture of the organisation
- Manage risk in accordance with best practice
- Fully document major threats and opportunities
- Clearly identify risk exposures
- Implement costs effective actions to reduce risks
- Ensure conscious and properly evaluated risk decisions

CHAPTER 2 – WHERE ARE WE NOW?

Chapter 2 of the Colliers Wood Management Plan identifies the current management position using the key criteria set for the Green Flag Award. In addition, a SWOT analysis is undertaken for each of the 8 Green Flag criteria, to assist in the establishment of aims and objectives for the site.

13.0 Introduction

The Green Flag Award and the accompanying guide, *Raising the Standard*, provide a useful tool for assessing the quality and performance of open spaces. This chapter outlines the site's current position in relation to the award criteria and builds on the feedback from previous Green Flag judges and from the Friends of Colliers Wood together with consultation exercises undertaken.

14.0 The Green Flag Award

The Green Flag Award is now the recognised national standard for publicly accessible parks and green spaces. The Green Flag Award is a quality award, which recognises well-managed green spaces and aims to raise the standard of management for all open spaces. Sites are judged on both a desk and field assessment on the following criteria:-

- A welcoming place
- Healthy, safe and secure
- Well maintained and clean
- Sustainability
- Conservation and heritage
- Community involvement
- Marketing
- Management

For each criterion heading the management approach and service delivery is summarised with strengths, weaknesses, opportunities and threats identified.

The site has held the award every year since the first Management Plan was produced. This achievement has been celebrated by various annual events with a special celebration to mark 10 years of Green Flag in 2018 (see Section 21.0 and press release Appendix 13).



Figure 11 – Entrance to Colliers Wood from Engine Lane



Figure 12 – Celebrating 10 years of Green Flag

15.0 A Welcoming Place

“A welcoming place is one that invites and draws people into it.”

15.1 Welcoming

The main entrance to the site is off Engine Lane and provides access for cars and pedestrians. This is well maintained and has a double faced site entrance sign. Similar signs are located at the junction of Engine Lane and the B600 and at the entrance opposite Caunton Engineering. These signs were designed in consultation with the Friends of Colliers Wood and also reflect the site’s status as a Local Nature Reserve. They have been very well received. The main entrance, together with the access points off the B600 and opposite Caunton Engineering, have large information signs at strategic locations. The car park has 2 shrub beds containing a tree planted by the Mayor of Broxtowe at the official opening on the site on 1 May 1998.

Visitors to the site from the B600 will see the eye-catching Engine Lane feature, which acts as a gateway to Beauvale and Eastwood (D H Lawrence Country). The wheels and associated signage raise awareness of Colliers Wood and the adjacent industrial estate. The Borough Council worked in partnership with the Friends of Colliers Wood, Greasley Parish Council and Caunton Engineering on this project.



Figure 13 – Engine Lane Gateway Feature at the junction with B600

15.2 Good and Safe Access

In addition to the main site entrance there are 5 other access points. Two of these are from Engine Lane, two are links with the rights of way network and one off the B600. These access points have been modified to allow improved access for people with disabilities, yet discourage motorcycles and ponies.

Engine Lane has been 'traffic calmed' to reduce the speed of through traffic. A large height restriction barrier prevents the route being used as a shortcut for heavy goods vehicles. The main entrance to the site also has a height restriction barrier to prevent unauthorised vehicles.

The Y10 Your Bus service from Eastwood town centre provides access to the site.

The footpaths on the site do require regular attention due to washout and erosion.

15.3 Signage

In addition to the main site entrance boards there are interpretation panels at the entrances to Colliers Wood, which make reference to the site's mining heritage. Route markers have been installed to promote routes through the site and woodland. Both the display panels and route markers were commissioned by Groundwork Greater Nottingham with funding secured from Waste Recycling Environmental Ltd and Greasley Parish Council. The style and wording of the signs was undertaken working closely with the Friends of Colliers Wood. In addition, at strategic locations there are a series of interpretation panels, which provide further information about the wildlife on the site. A new interpretation panel is being located by the Community Wheel Activity Space.

There are 'Colliers Wood' directional signs at both ends of Engine Lane.

15.4 Equal Access for All

Equal access for all is provided by the following: -

- Designated disabled access car parking spaces.
- A route that can be accessed by people with disabilities.
- Seating at strategic locations with armrests.
- Provision for wheelchair access at the outdoor performance area.
- Wheelchair access at all main site entrances.



Figure 14 – Access gate for visitors with disabilities

In addition a new drop kerb is being investigated at the Moorgreen Entrance with a proposal submitted to Nottinghamshire County Council, the Highway Authority.

15.5 COVID-19

2020 has been a very challenging year for all Local Authorities. Parks and Green Spaces have proved invaluable during this period. One visitor expressed their thanks very well:

“I wish to thank you for Colliers Wood. I visit daily and find peace and calm as soon as I go through the gates. It’s beautiful and so very well maintained. You should be proud of what you do. It has been my haven during current times.”

15.6 SWOT Analysis – A Welcoming Place

Strengths	Weaknesses
<ul style="list-style-type: none"> • Attractive entrance with eye catching signage • Surfaced car park with height restriction barrier • Designated car park spaces for people with disabilities • 6 access points • A range of on-site interpretation • On-site notice board to display current information • Access around some areas of the site for people with disabilities 	<ul style="list-style-type: none"> • Limited public transport links • Some vandalism to internal fences • Erosion of footpaths
Opportunities	Threats
<ul style="list-style-type: none"> • Proximity to local schools offers further potential for community involvement • Explore barriers to use by non-site • Install new drop kerb access at Moorgreen entrance • Encourage use of auditorium by schools and community groups • Potential to further improve access for people with disabilities • Increase the range of on-site facilities 	<ul style="list-style-type: none"> • The popularity of the site for dog exercising needs careful management to ensure that dog fouling does not reduce the welcoming effect • The issue of unauthorised fishing and occasional harassment of wildlife needs to be managed.

16.0 Healthy, Safe and Secure

“How well managers understand their users needs, encouraging them to enjoy healthy activities using appropriate, safe to use facilities and activities and to feel personally safe and secure.”

As part of the Council's commitment to the Health and Safety at Works Act 1974, the borough's Health and Safety Manager has the key responsibility of health and safety and monitors this accordingly. Working with the Grounds Maintenance Manager, the following methods and/or procedures are utilised to ensure that there is a safe environment for both the public and members of staff. This list is illustrative, not comprehensive:-

- Risk assessments
- COSHH assessments
- Safe working procedures
- Safe chemical storage, application and disposal (where chemicals are used)
- Specific training and certification e.g. PA 16 and Chainsaw Usage
- Defined roles and responsibilities
- Effective communication methods
- Emergency procedures
- Effective reporting and investigating procedures
- Recognised first aiders
- Manual handling procedures
- The provision of safety equipment and consumables
- A regular inspection regime

16.1 Equipment and Facilities

There is a programme of maintenance and inspection for the facilities detailed below:-

- Twice weekly emptying of litter/dog bins
- Twice yearly inspection to cover all site features and structures.
- Maintenance staff undertake condition check of facilities as part of routine maintenance visits to the site.
- The Friends feedback information on any identified problems.

Issues reported by the public are addressed by the Parks and Green Spaces Manager. Routine maintenance issues are forwarded to the Grounds Maintenance Manager and matters of policy are initially considered by the Green Spaces Development Manager. Any issues that have maintenance implications are then jointly evaluated by all relevant officers with input from the Friends Group.

Broxtowe Borough Council operates a 24-hour emergency call out system, which can be accessed through the Council's main telephone number. The Council is on call out to respond to dangerous trees and any other emergency situations on the site.

16.2 Options For Health

In terms of a healthy green space, the site is very well used by both individuals who enjoy a quiet, relaxing stroll and the more energetic who use the circular routes as 'measured' jogging circuits. In addition, the site is a popular venue for guided walks as part of the joint initiative with Groundwork Greater Nottingham and for the North Broxtowe Walking for Health group 'Walk and Talk'.

<https://www.ageuk.org.uk/notts/our-services/exercise-and-physical-activity/getting-started-with-walking/>

Over the years a regular programme of walks has developed, and a dedicated team of volunteers has emerged.

The annual Duathlon takes place in October each year combining cycling and running (see Appendix 17).



Figure 15 – Broxtowe Duathlon

16.3 Personal Safety

Whilst there is no on-site dedicated site warden the high profile presence of the site's maintenance teams, the daily visits from the Friends Group, regular visits by the Neighbourhood Wardens and the CCTV camera in the car park, helps create a safer environment.

Measures have been undertaken to design out and minimise anti-social behaviour. Examples include:-

- The installation of a permanent CCTV camera linked to the CCTV control room. This provides 24 hour, constantly monitored footage of the car park. Since its introduction car crime has fallen significantly. Prior to its introduction visitors were reluctant to use the car park for fear of break-ins and the evidence of shattered glass from car windows was a regular and very unwelcoming message for visitors. In 2005 there were 27 reported incidents of car crime. In the following years since its introduction incidents have been very rare. This camera was updated and replaced in 2014. The 'Friends of Colliers Wood' were key players in securing its installation.
- Installation of a height restriction barrier at the site entrance to deter unauthorised access.
- Installation of a low knee rail around the car park to prevent unauthorised

- vehicle access.
- Routine cleansing of graffiti
- Working in partnership with local Police to visit the site in the evening if any issues are reported.

The problem of unauthorised access is a constant threat and despite the height restriction barrier and the CCTV camera, the site was accessed by travellers in Summer 2018. The travellers were however quickly removed working with the Council's Legal Section and shrouding of the lock on the barrier improved.

It has been recognised however, that the site does suffer from occasional acts of vandalism and petty theft. These are frustrating to the staff who manage and maintain the site, the Friends of Colliers Wood and most importantly the public who use the site. Prompt action to repair or replace the damaged/stolen equipment is seen as the most effective method of tackling this issue.

The site's leaflet and notice board state that "swimming, paddling and fishing in the pond are not allowed".



Figure 16 – View of car park showing area covered by CCTV camera



Figure 17 – CCTV Camera

16.4 Water Safety

The Council's Health and Safety Manager working with the Environmental Projects Officer have undertaken a Water Safety Audit of all areas of open water in Broxtowe. The large pond at Colliers Wood was identified as having a potentially high risk given high levels of usage of the site and the large area of open water. Whilst one water safety ring has been on the site for many years it was felt that this should be replaced and 2 throw lines and appropriate signage detailing what to do in the case of an emergency installed. This work was undertaken in spring 2019 as a project working with Nottinghamshire Fire Service.



Figure 18 – Emergency Throwline

16.5 Dog Issues

The Council employs a team of 4 Neighbourhood Wardens working on a shift basis. They have enforcement powers to deal with dog fouling. Given its popularity as a dog walking venue, the site is high on the priority list for monitoring. The Council has previously won various national awards for its dog related policies. All litter/dog bins are emptied twice weekly.

The Friends of Colliers Wood have, for many years, run an annual Companion Dog Show. This community event was devised as a key element to raise awareness of the problems arising from fouling. Clearly displayed anti-fouling signs, more frequent patrolling, an increase in visits from responsible dog walkers who set a good example and additional bins has helped combat the fouling along and adjacent to the network of paths. Whilst the problem is much reduced the Friends are keen to see more patrols and enforcement on the site. The Friends run the 'Responsible Dog Ownership' certification scheme which has been very well received. As there is no legal requirement for dogs to be on leads at the site, the emphasis has been to encourage control. Friends will speak to owners when dogs are running free and their actions show clearly that they are not under the control of the handler.

16.6 Rats

A consequence of the increase in popularity of bird feeders on the site has led to a number of issues of rats being reported feeding around the base of the feeders. The issue is being monitored and alternative styles of feeding stations have been introduced to reduce the amount of food falling to the ground.

16.7 Unauthorised Horse/Motorcycle Access

The site did suffer from problems with both unauthorised pony riding and motorcycling at periodic intervals. These actions posed issues of safety to users of the site and cause damage to the stone footpaths and grass areas. Restricting access had to be done carefully in line with requirements of the Equalities Act legislation. New pedestrian entrance gates installed at four locations have stopped pony access and helped to significantly reduce motorcycling incidents.

16.8 Settlement

Given the sites recent history as an opencast site settlement continues to take place, particularly in the areas where the main opencast excavation was. This has resulted in problems where drainage pipes no longer work as effectively when they cross settlement lines. It has also created low spots on the grass areas near the car park, which is used for community events. This area now holds water for longer periods and this impacts on its use.

The management plan recognises that further works on the site need to take these issues into account. Any new drainage pipes need to be laid to a specification suitable for variable settlement. Open ditches as will be utilised where possible and practical.

16.9 Risk Assessment

Table 1 outlines the risk assessment for Colliers Wood.

Seriousness of Potential Injury		Likelihood of Injury Occurring	
1.	Death	1.	Certain
2.	Major injury	2.	Very likely
3.	Minor injury	3.	May happen
		4.	Unlikely
		5.	Very unlikely

Item	Hazard	Seriousness of Potential Injury	Likelihood of Injury Occurring	Risk Score	Control Measures
Paths	Slipping and tripping	3	3	9	Most paths are in good condition but the steep gradients are prone to washout and need regular maintenance. All routes are regularly monitored.
Steps	Slipping, tripping and falling	3	3	9	All steps on the outdoor performance area are regularly monitored and maintained
Trees	Tree or branches falling down	2	3	6	Trees are regularly inspected and maintenance or felling carried out as required
Dogs	Attack from dog Contact with dog fouling	3 3	3 3	9 9	Dog safety initiatives are carried out and people can be fined for allowing dogs to foul
Events	Range of public liabilities	2	3	6	All events have to meet set criteria which are reviewed by the Council. The Friends of Colliers Wood issue a risk assessment for all activities and events they organise
Dipping Platform	Slippage or falling into the water	1	4	4	Side rails provided. Groups are supervised.
Large Pond	Drowning	1	4	4	Signs erected informing that swimming is not permitted. Two throw line stations installed around main pond

Table 1 – Site Specific Risk Assessment

The risk score is obtained by multiplying seriousness of potential injury with likelihood of injury occurring. Any risk score of 3 or lower is unacceptable. A risk score of 4 or 5 is a risk, which should be looked at being reduced if present on a long-term basis.

The Council has a Risk Assessment system called “Safety Organiser” and this details all the assessments for each operation undertaken on site. Each has a designated author and assessor with an annual review date. See Appendix 25 for front sheet of sample risk assessment.

The Lesson in a Box initiative (see Appendix 11) includes specific risk assessments for all the individual activities. The assessments look specifically at risk relating to pupils, staff and parents whilst undertaking the activities.

16.10 SWOT Analysis – Healthy, Safe and Secure

<u>Strengths</u>	<u>Weaknesses</u>
Regular inspection regimes in place Risk assessments in place Active Friends Group who monitor the site on a regular basis Site used by “Walk and Talk” health group CCTV camera in car park Height restriction barrier at main entrance Dog policies in place Friends Group working with local police 2 water safety devices installed	No on-site warden No public toilets on site Dog byelaw signs are outdated Open drainage ditches in tree planted areas Areas of flooding in periods of heavy rain Erosion of paths in periods of heavy rain
<u>Opportunities</u>	<u>Threats</u>
Explore funding opportunities for footpath surfacing together with toilet and ranger facilities for the site	Vandalism Abandoned vehicles Anti-social behavior Unauthorised BMX and motorcycle use Flytipping Uneven settlement of large areas of the site Increasing number of rats on the site with health and environmental implications Unauthorised access to the site by travellers

17.0 Well Maintained and Clean

“For aesthetic as well as health and safety reasons, issues of cleanliness and maintenance must be addressed”.

17.1 Litter and Waste Management

Colliers Wood, whilst a relatively young site has become very popular, attracting a mix of different visitors. Issues such as maintenance, litter collection and bin emptying must therefore be carried out routinely and effectively.

The site is well served with 11 litter/dog bins. These are emptied twice weekly or more often in peak periods. All maintenance staff are encouraged to hand pick litter when observed. The full site is litter picked on a weekly basis. This is supplemented by the work of the Friends Group, who undertake litter picks when required. The close proximity of the industrial site can result in wind-blown litter and this is often tackled by the ‘Friends’. The Council has combined the cleansing functions that were previously undertaken by the Grounds Maintenance and Street Cleansing sections. Under the previous regime one team emptied the dog bins and another the litter bins. The combined approach has resulted in the creation of a dedicated cleansing team responsible for all litter, cleansing and bin emptying on the site, an initiative that has increased service delivery performance.

Other issues such as needles and syringes and fly-tipping are dealt with by a ‘hit squad’ managed by the Council’s Refuse and Cleansing Manager.



Figure 19 – Dog Sign

17.2 Grounds Maintenance and Horticulture

The site is maintained by an area based team, with further input from designated individuals for specialist work. The area based team carry out routine maintenance and minor repair work. Specialist teams are brought in to undertake tree maintenance, gang mowing and hedge cutting. The schedules are shown in Appendices 4 and 5.

In December 2015 the Parks Service won the 'Most Improved' category for Parks, Open Spaces and Horticultural Services. This is an award presented by the Association of Public Excellence (APSE) with the Parks Service judged against 75 other councils in this category. In 2017 and 2018 the Parks Service were selected as finalists in the 'Best Performer' category for Parks, Open Spaces and Horticultural Services at the same APSE awards.

17.3 Building and Infrastructure Maintenance

Over a period of years, the majority of paths have been resurfaced. This is however, an ongoing process. The site has an amphitheatre and dipping platform together with the new community wheel activity space. The maintenance teams, where possible, action repairs immediately. All other repairs are completed within 10 working days unless waiting for spares.



Figure 20 – Stone Surfaced Footpath

17.4 Equipment Maintenance

The equipment used to maintain the site is maintained on a regular basis and used by trained and experienced staff. Risk assessments have been

undertaken for operations and staff provided with appropriate safety equipment and high visibility clothing.

17.5 SWOT Analysis – Well Maintained and Clean

Strengths	Weaknesses
<ul style="list-style-type: none"> • Good standard of grounds maintenance • Establishment of tree planted areas • Little evidence of graffiti • Vehicular and maintenance equipment in good condition • Flexible maintenance team • Partnership working with sub-contractors • Site inspection programme to cover paths, furniture, fences and trees • Thinning programme for woodlands in progress • Hedge planting around the tree planted areas • Parks Service winner of APSE awards for parks, open spaces and horticultural services • Friends have their own on site storage container adjacent to the car park 	<ul style="list-style-type: none"> • No on-site ranger • Litter difficult to remove from large pond and copses • Slow progress on thinning of establishing woodland compartments. • Rabbit fence around tree planted areas starting to deteriorate (no issue with rabbits on the site).
Opportunities	Threats
<ul style="list-style-type: none"> • To obtain external funding for a 'Park Ranger' • Work with schools, external agencies and local community to maintain and develop the site further • Continue to develop the site by upgrading path network and thinning out the woodland areas • Implement the new anti-social behaviour legislation relating to the issue of 'Fixed Penalty Notices' for litter and dog fouling • Plant new hedgerows 	<ul style="list-style-type: none"> • Site is well used by dog walkers. This brings with it a constant need for patrolling and education by the Neighbourhood Wardens • Limited funding for future revenue and capital investment • Potential threat from fouling of grass areas/footpaths and destruction of water's edge vegetation by Canada Geese

18.0 Environmental Management

“The way the site is managed has a positive impact on the environment, locally and globally both now and in the future.”

18.1 Environmental Policies

The Borough’s Green Infrastructure Strategy provides the Parks and Environment Section with clear guidelines on issues relating to sustainable land management.

The Council’s Corporate Plan with its ‘Environment’ priority commits the Authority to opportunities to improve parks, open spaces and countryside and to take responsibility to protect the environment for the future.

The Council’s Climate Change and Green Futures Program has main strands relating to water courses, meadow planting and wildlife corridors and tree planting.

Incorporating this commitment into Park Management has partly been achieved through a gradual review of the previous CCT grounds maintenance specifications. These required specific chemicals and fertilisers to be applied at set times and at set rates. A much more flexible approach is now in place with only minimal herbicide applications in strategic areas.

18.2 Resource Conservation

Mulching of shrub beds in the car park to reduce the need for watering and for weed control. Water consumption is kept to an absolute minimum, with any newly planted trees fitted with irrigation pipes to ensure water reaches the root zone.

18.3 Pesticide Use

The only chemical used is the occasional application of non-residual herbicide Glyphosate to combat weed growth at the edges of the stone surfaced paths.

18.4 Peat Use

There is no peat usage on the site.

18.5 Green Fuels

The authority has two electric powered vans and bio-diesel is now used on all Council vehicles and machines.

Battery operated trimmers, blowers and hedge cutters are now being trialed.

18.6 Waste Minimisation and Recycling

Green waste is kept separate as part of maintenance operations on the site and then transferred to the Kimberley Depot for recycling. Wood waste is shredded and used as mulch in tree planted areas.

Any timber resulting from thinning of the tree planted areas has been left in situ to provide habitats for wildlife.

The new seats and picnic tables are made of recycled plastic.



Figure 21 – Recycled Plastic Picnic Table

18.7 Arboricultural and Woodland Management

This site is predominantly very young developing woodland. Over 17,500 trees were planted in 1996/97 as 30/45cm tall specimens and in the following years have put on significant growth. The wet nature of the ground has helped contribute to this successful establishment, as has the protection from the rabbit deterrent fencing. The mix of species, together with relevant comments is listed in the table below. It has been recognised that the woodland areas are now in need of more intensive maintenance and the Council is working with Greenwood, Notts Wildlife Trust and the Friends group to implement maintenance work to enhance habitat development. Please see Appendix 23 for further details.

SPECIES	COMMENTS
Acer campestre	Good establishment. Mainly used in hedgerows.
Alnus glutinosa	Very successful, good extension growth. Has enjoyed wet conditions. Thinning taking place.
Alnus incana	Very successful, good extension growth. Has enjoyed wet conditions. Thinning taking place.
Betula pendula	Has established very well.
Betula pubescens	Only limited planting but generally successful.
Corylus avellana	Only limited planting. Average growth.
Crataegus monogyna	Predominantly used as hedging where it has been successful. Single specimens have struggled in wet soil.
Ilex aquifolium	Good establishment. Few in number but used in most of the compartments.
Larix decidua	Only planted in two of the fenced areas. Average to good growth.
Malus sylvestris	Only planted in 3 of the compartments. Limited numbers.
Pinus sylvestris	Only used in two of the fenced areas. Average to good growth. Specimens have been identified and 'halo' pruning undertaken around them to provide space to develop.
Populus tremula	Good extensive growth in wet conditions.
Quercus petraea	Good establishment, struggling to compete against faster growing species. Specimens have been identified and 'halo' pruning undertaken around them to provide space to develop.
Rosa canina	Good establishment. Fairly limited planting.
Salix caprea	Good growth and establishment.
Salix cinerea	Very limited planting but where used it has been successful.
Salix fragilis	Very limited planting but where used it has been successful.
Sorbus aucuparia	A good spread across all the compartments.
Viburnum opulus	Very sparse planting but used occasionally in most compartments.



Figures 22a/b/c - Woodland Development 1997, 2007 and 2018

Consideration has been given to removing some of the post and wire fences around the plantations. However, after a detailed review of all the copse areas the agreed view of both the Friends Group and officers of the Council was that the fences were still valuable. Detailed below are the main benefits/comments relating to the fences.

- They exclude dogs from the areas.
- They exclude people, particularly from those areas with open drain lines.
- They retain the areas for wildlife and habitat development.
- They provide protection for the newly planted trees
- Despite their age they are generally still in good condition.
- They would be expensive to remove.

It was however, recognised that in the long term most of the fences would need to be removed.

In many locations hedges have been planted around the copses which in the long term will replace the fences – see figure 22c.

18.8 Grassland Management

In response to the Green Flag judges' comments a review of the grass cutting policy has been undertaken. The view was that the established cutting frequency for the main open areas contradicted the vision statement for the site and could be reduced to increase the variety of fauna present. Following these comments the policy was relaxed.



Figure 23 – Aerial View of Meadow Grasslands
(photo credit Philip Francomb)

This revised regime was generally well received although issues such as impact of longer grass on cleaning up after dogs is one that is often raised.

Large areas of grassland are now maintained as meadows with the grass cut and collected in late September/early October, with the bales stored on site in discrete locations.

The areas around the car park, picnic tables and outdoor performance area continue to be cut on a 21 day cycle with an additional cut prior to events. The area for the main theatre productions is cut on a 3-weekly cycle until July, when cutting ceases after the event. The area is then maintained in line with the other long grass areas.

It is noted that there will always need to be a balance between operational requirements and leaving areas on a very reduced cutting frequency.

Further modifications will be considered as necessary following discussions between the Friends and the Parks Management Team.



Figure 24a – Cutting of Hay Meadow



Figure 24b – Hay bales located in woodland fringe

18.9 SWOT Analysis – Environmental Management

Strengths	Weaknesses
<ul style="list-style-type: none"> • Successful establishment of trees in the woodland areas. • Use of pesticides kept to a minimum. • Mulching of shrub beds. • No peat use. • Use of bio-fuels. • Policy of thinning woodland areas has commenced. • Use of recycled plastic for seats and picnic tables. • New meadow management and storage of hay bales on site 	<ul style="list-style-type: none"> • Single age tree population. • Rabbit protection fence now starting to deteriorate.
Opportunities	Threats
<ul style="list-style-type: none"> • Further involvement of Greenwood, PCV, Friends group, Notts Wildlife Trust and local college in terms of sustainable management. e.g. thinning tree areas. • Use of recycled plastic for seats and picnic tables. • Improve awareness of sustainability and in particular how the issues relate to all operational staff. • Improve staff training in environmental management. • Use of local providence seed for wild flowers and food source seeds. 	<ul style="list-style-type: none"> • Infestation of site by rabbits. • Potential domination of tree areas by pioneer species. • Reduced revenue funding to support the role of partners working in the open space.

19.0 Biodiversity, Landscape and Heritage

“Attention should be paid to the appropriate management and conservation of natural features, wildlife and fauna, landscape features, buildings and structural features”.

19.1 Natural Features, Wildlife and Flora

Through its Green Infrastructure Strategy, the Council recognises the importance of nature conservation. The plan through its wildlife and biodiversity mapping recognizes the significance of different habitats and species.

A significant part of the site is made up of developing copses, comprising indigenous species. Some of these are bisected by a series of drainage channels, which form a valuable habitat for wildlife.



Figure 25 – Bird screen adjacent to DH Lawrence Copse

Dead trees have been left in situ for habitat and cut timber stacked to produce further environmental habitats within the tree planted areas.



Figure 26 – Habitat Pile

Both the ponds and the wetland areas again provide habitats for a range of vertebrates and invertebrates, together with a range of wildflowers. The Friends Group has been particularly active in recording this information. See Appendices 18 & 19. The information is assessed on a year-by-year basis to identify emerging patterns and species mix. This will also help define habitats and appropriate maintenance regimes.

Appendix 20 details the artificial habitats and species support that the Friends have actively promoted.

The pond dipping platform create a valuable educational resource for local schools and community groups to assess what is thriving under and on the surface of the water.



Figure 27 – Pond Dipping Platform

It was recognised that the main pond contained both goldfish and koi carp that had been deposited there by members of the public over a number of years. These are having a damaging effect on the native wildlife in the pond and are also attracting local people to fish in the pond despite signs advising about “No Fishing”.

In March 2019 the decision was taken to employ a local fish specialist to net the pond and remove as many goldfish and koi as possible. Initially the water levels in the pond were reduced to allow the works to take place. The operation was very successful with significant numbers of fish removed. This attracted a lot of positive publicity and the fish specialist was able to rehome a lot of the fish in a sensitive and environmentally friendly way. The process was repeated in November 2020 albeit on a much smaller scale but there were still a significant number of goldfish removed. It will now form part of the annual maintenance

program for the site.



Figure 28 – Fish Removal from main pond

The fencing surrounding the tree planted areas adjacent the Large Pond has been extended down to the edge of the low water level to prevent the public using these areas as shortcuts around the ponds. These have been supplemented by additional hedge planting. This has helped create 'safe' areas for water fowl, feeding, nesting and roosting.

The Friends are very keen to create hedgehog habitats and have been working with the British Hedgehog Preservation Society and Nottinghamshire Wildlife Trust to help achieve this. See Appendix 20.

Recognising the value of the site the Council worked with the Nottinghamshire Wildlife Trust on the designation of the site as a Local Nature Reserve. This status was achieved in 2012 and was celebrated at an event involving the Mayor of Broxtowe and the Friends of Colliers Wood.

The benefits of achieving Local Nature Reserve Status are:-

- Maintain and enhance the habitat types and species present.
- Combine habitat enhancement and management with education, recreation and access provision.
- Encourage public understanding and awareness of issues relating to the site.
- To conserve and interpret the archaeological and historical elements on the site.

- Monitor the effects of management on the wildlife on the site.

In November 2015 the Friends and officers from the Council welcomed the Forestry Commission's FWAC (Forestry and Woodland Advisory Committee) and Greenwood to the site. The reason for this visit was the Forestry Commission's production of an "urban vision" document, with messages about the many values of woodlands close to where people live.

The Forestry Commission were very impressed with the site and everything that has been achieved in a relatively short space of time.

Working in partnership with Greenwood and Nottinghamshire Wildlife Trust a new Woodland Management Plan has been produced covering the period 2017-2021.

One of the actions in the plan was creating scalloped woodland edges and this work started in the winter of 2018/19 working with the Friends Group.



Figure 29 – Scalloped woodland edge

<https://www.broxtowe.gov.uk/media/4143/woodland-management-plan-colliers-wood-final.pdf>

In early 2016 a yew tree was planted as part of the "We Love Yew" campaign. This is an initiative within the Conservation Foundation celebrating and protecting the yew trees heritage. The tree was sourced from a parent tree in Hambledon, Surrey thought to be over 1000 years old.

Working with Nottinghamshire Wildlife Trust an initiative was launched to get the public involved with recording mammal populations on the site. See Appendix 21.

19.2 Large Pond Water Level

The Large Pond was created as part of the original landscaping scheme for the site. The maximum water level is controlled by an outfall on the northern edge of the pond. Since its construction the ponds water level has dropped significantly in the summer months promoting the introduction of a series of boards on the outfall to raise the maximum water level and thus increase its water holding capacity in the winter period. This has achieved a higher water level in the early Summer period. A partial success, but the main pond remains an issue of concern in the Summer months. The action plan for the site prescribes that the drains feeding the Large Pond are maintained to ensure that water can reliably drain into this area and maximise the water level.

19.3 Historical Context



Figure 30 – Moorgreen Colliery (photograph courtesy of Anthony Kirby)

The site has links with the local mining industry and D H Lawrence.

The nearby town of Eastwood has long been associated with the literary figure of D.H. Lawrence who was born there in 1885. Lawrence's father, a miner, worked at his native Brinsley, the sister pit of Moorgreen. Lawrence used local characters and events as a source for many of his books and described the landscape of the area as 'the country of my heart'. In his novel 'Sons and Lovers', Lawrence renamed Moorgreen Minton Pit, which he described as a 'large mine among cornfields'.

19.4 SWOT Analysis – Biodiversity, Landscape and Heritage

Strengths	Weaknesses
<ul style="list-style-type: none"> • Local Nature Reserve. • Good interpretation of conservation and heritage features of the site. • The Green Infrastructure Strategy recognises the value of the site. • Felled trees in developing woodlands left for habitat expansion. • Specific areas of alternative grasslands on the site with management regimes. • New meadow management and storage of hay bales on site. • Detailed recordings of biodiversity of the site by ‘Friends’ group. • Working with NWT to manage tree planted areas. • Inward migration of a broad range of species from adjacent areas. • Friends encouraging visitors to report species recordings. • Yew tree planted as part of “We Love Yew” campaign. • New Woodland Management Plan 2017-2021 for the site. • Programme to remove goldfish and koi carp from main pond commenced. 	<ul style="list-style-type: none"> • Single age tree population. • Attempts to introduce wildflowers have only had very limited success.
Opportunities	Threats
<ul style="list-style-type: none"> • Management and development of tree planted areas, opening up-glades and allowing public access to designated areas. • Continue to manage the woodland working with Greenwood, Friends and NWT. • Management and development of the site to build on its value as a Local Nature Reserve. • Increase the number of hedgehogs on the site. • Work with Nottinghamshire Wildlife Trust to record mammal populations. 	<ul style="list-style-type: none"> • Dominant species in tree planted areas e.g. alder. • Invasion by ragwort and thistles. • Difficulty in maintaining water levels in main pond. • Encroachment by briar from adjacent land. • Public fishing in the main pond.



Figure 31 – Mine Pulley Wheel and Coal Truck

20.0 Community Involvement

“Management should actively pursue the involvement of members of the community with representation of as many park user groups as possible.”

This should be entirely appropriate for the site and the needs of the local community.

20.1 Friends of Colliers Wood

Following the official opening of Colliers Wood in May 1998, an article in the local Eastwood & Kimberley Advertiser newspaper was the catalyst for the formation of the ‘Friends of Colliers Wood’. BTCV organised and chaired the first meeting of interested local people and representatives from various community and borough organisations at Durban House Heritage Centre in November 1998. The meeting concluded that there would be public support for a Friends group and further meetings were held to explore the areas of interest/involvement for a group and encourage comment on the immediate issues. On 3 March 1999 the group was formalised and two officers were elected. BTCV continued to directly advise until 2000. In subsequent years the Friends have managed to evolve a strong nucleus of active members backed by a large group of occasional helpers who assist at events, and the many regular site visitors who volunteer information and guidance.

At the 2000 AGM new officers were appointed who developed a new statement of objectives. After a lengthy period of research, consideration and testing, the Friends published and agreed their first constitution in January 2002. At the 2013 AGM a resolution was passed to change the status of the Friends of Colliers Wood to that of a small unregistered charity. This required some modifications to the constitution and a new version was signed on 5 January 2014.

The constitution established seven objectives that were based on the original statement. These remain as first approved:

- To sustain, and where appropriate improve, the living and inanimate environment of a geographic area based on the Colliers Wood site at Engine Lane, Moorgreen to the benefit of the population that reside in and/or use these areas.
- To liaise, as representatives of the public, with the Colliers Wood owners Broxtowe Borough Council to influence the management and further development of the site in order to maximise the benefits available and suitability of the facilities for the aspirations of the evolving community.
- To promote and sponsor further environmental projects that have a physical relationship with the Colliers Wood site when it can be shown that there will be additional public benefit accruing.
- Additional projects isolated from the site and its immediate surrounds may also be promoted when it is considered that an educational benefit may accrue to a section of the community, or, an environmental improvement that has exceptional benefit can be realised. These projects may or may not have a long-term life.
- To promote responsible citizenship related to the living environment through example, education and realised personal benefit.
- To provide opportunities for voluntary work devoted to the community's benefit.
- To promote healthy lifestyles through improvements in the opportunity for out-of-doors exercise within visually pleasing environments.



Figure 32 – Friends Volunteer Banner

The Friends of Colliers Wood have a meeting on the second Wednesday of each month. This is the forum for organising activities and events, refining policy and for dealing with ongoing practical issues. The Friends try to ensure that frequent handouts provide information regarding the range of activities, events and other areas of interest that might appeal, and always directly invite people to become members. Most activities and all events are well publicised via newspaper articles, radio diaries, posters and banners, the Broxtowe and Friends of Colliers Wood websites and when appropriate, flyers. Press releases and flyers usually include details of the meetings venue and dates/time. Additionally, county, borough and parish listings are used to advertise annual events and activities which have firm dates. An email list of people who have requested notification is used to inform many regular participants. The dedicated site notice board is an important method of communication with visitors. The Friends display meeting minutes, subjects of seasonal relevance, advice notes and posters for activities/events and there is always a contact telephone number shown. Posters and banners on site and at the perimeter fencing are employed to reach a wider audience.

In 2012 the Friends applied for and obtained planning permission for a site maintenance store to be located in an area of the copse just off the main car park. This was installed in Autumn 2014 and sits well, screened by the existing planting. All work was organised by the friends including construction of the bases, ground clearance works and supervision of the installation. This has proved very helpful in organising task maintenance days and community led events.

See Appendix 12 for sample of minutes from Friends meetings.



Figure 33 - Site Maintenance Store

When working on the site the Friends wear a uniform comprising red fleeces with Friends of Colliers Wood logo



Figure 34 – On Site Notice board

A policy of co-operation with commercial organisations has helped establish rewarding relationships with many local and regional businesses. Practical help, gifts of equipment and financial support have been forthcoming. Caunton Engineering Ltd worked very closely with the Friends and the Borough Council on the restoration and installation of the winding wheel sections for the Friends Community Wheel Activity Space project. This company is located in the only major buildings surviving from the Moorgreen Colliery complex. They have positioned a mural depicting the changing image of Colliers Wood on the gable of one of these buildings that faces onto Engine Lane, demonstrating their support for the community and adding interest to the 'street scene'. See Figure 35.

Link to Friends Website below.

www.friendsofcollierswood.org.uk



Figure 35 – Mural Caunton Engineering

20.2 Site Theatre and Concerts

Commencing in July 2006 as part of the Eastwood Arts Festival, the Borough's Events and Arts Development Team and more recently trading as Liberty Leisure Limited has organised major outdoor theatre productions using the Rain or Shine Theatre Company.

In 2006 Shakespeare's 'A Midsummer Night's Dream' encapsulated the 300 plus ticket paying audience enjoying a lovely summer evening with a copse backdrop and off-stage birds flying in to roost. The audience was drawn from an extensive catchment area and their feedback was so positive that the Borough agreed to make the event annual. See Appendix 15.



Figures 36a/b - A Midsummer Night's Dream

This flexibility of venue provided confidence in the sites suitability for large audience events which, together with the freely expressed positive audience reaction, helped affirm this theatre as an annual event.

Theatre/musical productions have continued every summer with a sample list detailed below.

2013 – The Comedy of Errors
2014 – Treasure Island
2016 – Mid Summer Night’s Dream and Colliers Wood Proms
2018 – Greatest Showman Film Screening

To celebrate the completion of the auditorium project, the Friends of Colliers Wood organised a free inaugural concert performance by the Eastwood Colliers’ Male Voice Choir. Some 200 people sat or picnicked in the sunshine being entertained by this choir that was originally formed from the employees of the Moorgreen Colliery. This event helped demonstrate the breadth of potential uses for this structure.

Unfortunately, COVID-19 has meant that no organised events were able to take place in 2020. Plans are however being considered for COVID-19 secure events in 2021.



Figures 37a/b – Official Opening Amphitheatre

20.3 Community Events

Local communities are encouraged to participate in open-air activities at the site. Appendix 7 details the full list of events.

The Friends sponsor three annual site based events that residents and visitors can participate in and one annual indoor community event. Additionally, the Friends organise periodic events and maintenance/habitat development tasks that are open for anyone to participate in. Youth groups, schools, churches and clubs are offered help for any site based event they wish to organise. An annual Easter Sunday dawn service draws a large attendance from multi-church congregations. Greasley Baptist Sunday School afternoon picnic, first introduced in 2007, is supported with publicity and practical help that includes on site activities with an environmental slant.

Companion Dog Show

This was the first annual community event to be established. It's schedule is the first Sunday in August.

Beginning in 2000 as a Sponsored Walk in aid of Hearing Dogs for the Deaf, it provided the opportunity for the 1st Eastwood Baden Powell Scout group to help with the preparation/dismantling work and the support work during the event day. In subsequent years other scout groups and youth groups have assisted.

The success of the event in drawing family groups from a wide range of backgrounds encouraged the Friends in 2002 to add a Companion Dog Show element held under Kennel Club rules. This was very popular and quickly became the main attraction. It expanded to cover four breed classes and seventeen novelty classes with suitable prizes and rosettes for each class.

Over time an obedience demonstration has been added to encourage more formal training of visitor's dogs. To further encourage responsible attitudes testing for the Good Citizen Bronze Certificate has been added.

Up to 200 people attend the event, with a wide span of ages and many family groups. The area used for the show is suitable for invalid chair mobility and infirm people attended. The Mayors of Broxtowe have supported the event by attending and normally becoming involved in the activities and helping with the presentation of the winner's cups/shields.

In 2011 Greasley Parish Council supported the show by sponsoring a portable toilet for the event. The event has become an annual fixture in the site's diary.



Figure 38 – Companion Dog Show, Best of 6 Legs Competition

Winter Woodland Celebrations

The second annual site based community event was established in 2004 by the Friends to help demonstrate the value of visiting the site during the winter period. It is held on the first Sunday in December marketed for young families. This is now an annual event. It successfully attracts the target audience along with grandparents and other relatives. For the children there is a Santa's Grotto that is very popular. A specific Scots Pine has been adopted as the Colliers Wood Christmas tree and the children are invited to help dress it. Publicity encourages children to prepare and bring along their own decorations for display and the Friends ensure that there are ample baubles available for those who are unable to do so. Additionally, an environmental workshop is run with the help of the Greenwood Partnership. This is always popular, particularly with the older children and parents, and the resulting nut feeders, 'butterflies', fat balls, feeding cones, etc. decorate the site well into the new year. Adult interest is drawn to seasonal stalls, hot chestnuts, mince pies and a choir or band.



Figure 39 – Winter Wonderland Celebration

Family Pond Dipping

Following completion of the new dipping platform, the Friends have held regular Family Pond Dipping sessions. A grant was obtained from the Broxtowe Action Fund that enabled the purchase of nets, trays and field study sheets.

Duathlon

In October 2010 Colliers Wood was the venue for the first ever Broxtowe Duathlon. The event combined biking and running with Colliers Wood being the venue for both running legs and the transition from run to bike and back from bike to run. Please see Appendix 17. The event has been repeated annually.

Colliers Wood Canter

2014 saw the introduction of this event as a 3k or 5k run every second Saturday of the month. The event is hosted by the Kimberley and District Striders Running Club.

Periodic Events

The Friends publicise all site based events and activities in which participation is possible. Some of the maintenance tasks are simple, e.g. 'litter picking', but are well attended by individuals and couples and take the helpers to areas of the site that they would not normally see. Their response is always positive. Wildflower planting events require more supervision and tend to attract more

family groups. Support is good, even when the planting occurs in adverse weather conditions. Some planting sessions are organised by partner organisations for specific school groups. Parents usually attend to assist the teachers and the Friends contribute with preparations and supervision.

One event prior to COVID-19 was part of the Council's "Clean and Green" initiative. This is a campaign to make Broxtowe a clean place working with the local community.

<https://www.broxtowe.gov.uk/for-you/litter-and-street-cleansing/clean-and-green/>

20.4 Projects

Avenue of Limes

The Friends of Colliers Wood policies include off-site plantings in small urban pockets and expansion of the public accessible space into adjacent brown-field sites. One of the purposes of these schemes is to encourage physical links between the urban street environments/back gardens and the adjacent rural landscapes, creating environmental corridors where possible to reinforce species populations through migration.

In 1999 Marion Layton, a founder member of the Friends wanted to extend the project further and sought support from the companies within the adjacent industrial units and those involved in their development. Generous financial contributions were offered and the Greenwood Community Forest Partnership helped finance the work through the Community Conservation Grant 2000/2001 scheme. With further contributions from Broxtowe Borough Council, the second phase of the avenue completed the plantings on the 'south' side of Engine Lane, past the industrial site and on to link with the Engine Lane entrance at the west end of Colliers Wood. A section along the 'north' side of the road was also planted raising the total number in the avenue to 102.

The avenue is beginning to take on an established appearance with canopies forming.

Following Marion's death, the avenue was renamed 'The Marion Layton Avenue of Limes', in respect of her dedicated and tireless work towards improvements to the communities living environment.



Figure 40 – Avenue of Limes

Auditorium

Conceived by the Friends as an open-air classroom to accommodate visiting school children, this feature gradually evolved into a small multi-purpose amphitheatre as potential user requirements were better understood. The structure can operate in three modes:

- Audience seated on the tiered platforms with ‘performance’ on the stage area.
- Audience on chairs beyond the tiered platforms with ‘performance’ on the stage and or tiered platforms
- Audience on the ground or chairs in the meadow area on the Large Pond side of the auditorium with the ‘performance’ on the stage and/or tiered platforms.

The latter mode was used for the inaugural concert.

Groundwork Greater Nottingham designed the auditorium to meet the Friends of Colliers Wood requirements. Disabled audience access is incorporated and support provision was made for scenery, banners, lighting and speakers. Tier heights vary to cater for different age children and adult audiences. The specification delivered a robust and flexible structure suitable for accommodating some of the ongoing ground settlement without excessive maintenance. Location of the structure was agreed with the Friends after a careful review of alternative sites.

Community Wheel Activity Space Project

This scheme promoted by the Friends is the latest addition to the site. A partnership application between the Friends and the Borough Council to Waste Recycling Environmental (WREN) resulted in a funding award of £10,100. This, in addition to fund raising activities by the Friends generated a budget of £13,800. Summer 2019 saw the completion of the project with local company Caunton Engineering installing the 2 winding wheels as an “in kind” contribution to the project. They had been storing the wheels on their premises for many years.

The 5.4m diameter pit-head shaft winding wheel has been mounted in two halves as robust easels for displays of community art work. Some displays will be just for a day using fabric, canvas, ceramic, stone, wood or metal based creations. Other more robust metal, stone and timber works will be able to be welded or bolted to the structures. The wheels’ silhouette will be a poignant reminder of the sites industrial history, whilst clearly demonstrating the determination of the community to progress with a positive attitude to learning new skills. The scheme also includes seating which was installed in Summer 2018. See Appendix 14.

The new picnic tables were used as the location to celebrate 10 years of Green Flag at Colliers Wood. Unfortunately, due to COVID-19 the wheels have not yet been used for a community art project.

20.5 Appropriate Provision for the Community

Colliers Wood is different to many of the Borough’s open spaces, in that it doesn’t have a children’s play area with equipment and there are none of the outdoor sporting facilities that you would find on a traditional park or recreation ground. Instead it offers a sense of peace and the opportunity for informal walking and the chance to get away from the active pace of modern life. The site concentrates on community provision and education through the on-site interpretation panels, site leaflet, dipping platform, auditorium, community wheel activity space and site activities.



Figures 41 – Seat overlooking Main Pond

Disability access provision has been improved to ensure good access to all areas served by the paths. The showground area, auditorium and Large Pond and Moorgreen meadow area have suitable access. These facilities are in line with the “BT Countryside for All” standards and guidelines. The car park has designated spaces for people with disabilities.

The Council’s Equalities Working Group is looking at all the Council’s services, including parks and open spaces, to make sure that services provided are in accordance with the Equality Standard. This has included the use of questionnaires for ‘hard to reach’ groups.

20.6 Public Consultation

To assess the public’s view of the site, regular consultation has been undertaken.

Consultation was undertaken as part of the production of the Broxtowe Parks Standard. This is a standard produced to ensure that all of the Parks and Open spaces in the borough are well managed and maintained.

The Broxtowe Parks Standard uses some of the core principals from the Green Flag onsite assessment.

The consultation identified the following:

47% of visitors walk to the site

42% of visitors travel to the site by car.

The most popular reasons for visiting the site were:

- Peace and Quiet
- See birds and wildlife
- For a walk
- Enjoy flowers and trees
- Walk the dog

This reflects the views expressed in the survey in 2008 and again demonstrates the site's core values

Other responses were:

100% of people felt the welcome to the site was very good or good.

84% felt the signage was very good or good.

74% felt the cleanliness of the site was very good or good.

47% felt that cleanliness relating to dog fouling was very good or good. 16% felt it was poor or very poor, so there is still room for improvement.

84% felt that the standard of grass cutting was very good or good.

89% felt that the maintenance of the trees was very good or good.

42% felt that the management of vandalism and anti-social behaviour was very good or good. 11% felt that more needed to be done. The new CCTV camera has helped with this.

74% felt that nature and wildlife management was very good or good. This is a rise on the previous survey, but there is still room for further improvement particularly given the responses relating to people's reasons for visiting the site. This is recognised in the SWOT analysis.

The most pleasing statistic was that 79% of people felt that their overall impression of the site was very good or good with no responses in the poor or very poor categories.

When assessed against all of the other parks and open spaces, as part of the Broxtowe Parks Standard, Colliers Wood scored very highly and achieved the standard by a comfortable margin with an overall 72% of scores being very good or good.

The Broxtowe Parks Standard requires sites to score:

- 85% of marks in the fair, good or very good categories and
- 45% of marks in the good and very good categories.

The responses received were very diverse but there was a series of common themes.

Positives	Negatives
<ul style="list-style-type: none"> • Important site for wildlife • Site clean, tidy and well maintained • Very positive use of land 	<ul style="list-style-type: none"> • Lack of toilets • Path erosion • Drainage/water management • More events • Improvement needed to wildflower areas

The most recent consultation was undertaken in autumn 2019 again as part of the Broxtowe Parks Standard. Once again the site scored very well with an impressive 86% of people saying that the site was very good or good. This was up from 72% in the previous consultation. Further details are provided below.

Category	% Good or Very Good	Comments
Welcoming	91	
Signage	81	
Cleanliness	85	
Dog Fouling	75	A big improvement on the previous survey
Paths	87	
Grass Cutting	70	Missed comments with some people requesting more cut areas and others welcoming a relaxed mowing regime.
Trees	78	
Anti-Social Behaviour	75	A good score that reflects the lack of anti-social behavior on the site
Nature & Wildlife	85	Again an increase of the previous survey which is positive for the site as a local Nature Reserve
Overall impression of site	87	Up 8% from before and again a very pleasing statistic

These views have been incorporated into the future aims and objectives for the site and are reflected in the action plan. The issue of lack of toilets cannot be easily addressed without significant financial contribution and this will be considered as part of the plan reviews potential external funding contributions.

20.4 SWOT Analysis – Community Involvement

Strengths	Weaknesses
<ul style="list-style-type: none"> • The Friends of Colliers Wood has a diverse membership • The range of events that take place on site is diverse and varied • Growing community ownership and commitment to sites future • Facilities available for varied age groups and abilities • Members of Friends Group undertake regular litter picks and community events • Site hosts the popular Dog Show, Winter Woodland Celebrations, Theatre Productions and Duathlon • Strong links with local school with events linked to performance area and pond dipping platform • Friends Group have taken the lead on resolving insurance cover for organised events for all Friends Groups across the Borough. • Friends have their own on site storage container adjacent to the car park. • Positive consultation feedback 	<ul style="list-style-type: none"> • Views of ‘non users’ are unrepresented as part of the consultation process
Opportunities	Threats
<ul style="list-style-type: none"> • Promote greater community use of the site • Promote further the potential to use the site for educational opportunities with local schools • Develop more opportunities for large scale community events • Potential for community artwork on the site • New community wheel activity space has potential to attract new people to the site 	<ul style="list-style-type: none"> • Working and developing further events with the community is very time consuming • Consultation ‘overload’ for the public

21.0 Marketing and Communication

“Knowing and understanding the community who use the site means that managers can develop far more active engagement from users.”

21.1 Marketing and Promotion

With the development of the site as a ‘new’ area of open space, a leaflet was produced in 1998. This served the site well for nearly 10 years. However, in 2006, following a successful bid to Waste Recycling Environmental Ltd, funding was obtained for a new leaflet that brought the site up-to-date and reflected some of the changes that have taken place. This leaflet was produced working in partnership with Groundwork Greater Nottingham and the Friends of Colliers Wood. It was published in Spring 2008 and has proved to be very popular with favourable feedback. In early 2018 working with the Friends the leaflet was updated and reprinted.

The Friends of Colliers Wood have developed their own distinctive logo, which combines the developing woodland and the sites mining heritage.

Large signs have been erected at the main entrances to the site, reflecting the sites status as a Local Nature Reserve. These are very eye catching and have been well received. These replaced the old wooden signs that had been in place since the site opened.

The Friends also produce flyers, event handouts, posters, banners and information sheets. The site is regularly listed in parish, borough and county publications.

The link on the Borough Council’s website provides information on the site and gives information on how to become a ‘Friend’.

In Summer 2018 to celebrate 10 years of achieving Green Flag for the site a new poster was produced detailing 10 great things to do at Colliers Wood. These range from taking a gentle walk around the site, to having a go in the Colliers Wood Canter. See Appendix 10 for the poster.

Radio Nottingham used the site to promote a ‘Walks in Nottingham’ feature. This proved very popular and featured in their ‘Years Best Visits’ list.

New initiatives and events are publicised through press releases and use of the sites notice board. The Mayor is invited to attend events.

21.2 Education and Interpretation

The site operates a “Lesson in the Box” scheme. This is a high quality educational resource aimed at schools and is formulated around curriculum based activities.

It is broken down into a series of activities, each relating to the specific key stages that the schools use as part of the national curriculum together with the learning outcomes and the resources needed.

The activities include: -

- Study of pond ecosystem, mini-beast safari and fishing
- High in the Sky - a story of growing plants etc.
- Quadrants and Timescales – used to identify what life processes and living things can be found on the site
- Hedgerow survey
- Cocktail Souvenirs – sorting and using materials found on site
- Prickly Ticky – assessing the characteristics of natural materials
- Colour Pallet – developing awareness of the richness of the environment and the colours to be found there

See Appendix 11.

“Your School Your Environment” is a partnership including Broxtowe Borough Council, Nottinghamshire County Council, Nottinghamshire Wildlife Trust and Greenwood Community Forest. The aim is to support environmental education and sustainability in schools by offering information, support and opportunities to share ideas to teachers from across Broxtowe.

In terms of on-site interpretation, the site has a number of information panels, which provide the visitor with details about the site’s history and development, route maps for the trails and environmental information.



Figure 42 – On site interpretation sign

21.3 SWOT Analysis – Marketing and Communication

Strengths	Weaknesses
<ul style="list-style-type: none"> • Well developed events programme in place • Published material is of high quality • Good interpretation boards and signs around the site • Good use of on-site notice boards • Site information on Council’s web site • Excellent education pack for use by schools • Site leaflet for the site updated in 2018 • Friends of Colliers Wood have their own website • Highly visible site entrance signs • 10 great things to do at Colliers Wood poster 	<ul style="list-style-type: none"> • Limited information on user numbers or usage types
Opportunities	Threats
<ul style="list-style-type: none"> • Promote further the Friends of Colliers Wood • Maximise the potential of press releases for the site 	<ul style="list-style-type: none"> • Leaflets need to be regularly reviewed as they can easily become out of date • COVID-19 and restrictions on future events

22.0 Management

“The Green Flag award requires the establishment of an active management plan based on a deep understanding of the community that it serves”.

22.1 Finance

The plan recognises the importance of forward financial management and the need to record how budgets are spent and where opportunities for raising revenue can be maximised.

In terms of future funding sources, the Council’s current revenue budget for the site is £16,250. This makes an allowance for both horticultural maintenance works and repairs to the sites infrastructure. Other potential funding sources will also continue to be investigated to assist with the future development of the site. Possible funding streams are detailed below:-

- Natural England
Capital and revenue grants for habitat conservation, community education, improvement and establishment of greater access to countryside.

- Section 106 Funding from developers of new housing sites
- Landfill Tax, FCC Environment, Biffa etc.

The site has been able to secure various funding pots and these are detailed below:-

- Council's ongoing Capital Programme. The site has in the past received funding from capital receipts through the Neighbourhood Pride and Environmental Initiatives programme.
- Landfill Tax. This has been a valuable source of funding with contributions from WREN. Schemes with a total value of £30,000 have been implemented from Landfill Tax on the site. This has included the amphitheatre, new dipping platform and community wheel activity space.
- A partnership with Groundwork Greater Nottingham allowed £11,000 to be released enabling information panels, marker posts and leaflets to be produced and installed.
- A bid to Greenwood by the Friends secured a £250 grant. This was used to fund new hedge planting at the main entrance and to gap up other hedges around the site.

The plan must also recognise the challenging financial climate faced by local authorities and the threat of a reduced revenue/capital budget may restrict some of the actions within the action plan. This is further compounded by COVID-19 and the financial consequences potentially arising from this. Issues relating to alternative policies and joined up working will be investigated for the site and all outdoor facilities provided by the authority.

22.2 Personnel

A recent Senior Management Restructure has seen the Environment team become part of the Strategic Directors Department.

The Parks & Environment Team is led by the Parks and Green Spaces Manager who has overall management responsibilities for all policy and maintenance issues. The team meet on a regular basis to ensure there is no duplication of effort and there are good lines of communication. Detailed below are the respective roles of the officers in relation to the site.

- | | |
|--|---|
| Green Spaces Development Manager | - Horticultural Design Works. New capital works. Nature Conservation and liaison with community groups. |
| Grounds Maintenance & Arboricultural Manager | - Day to day management of all maintenance operations for the site. |
| Environmental Projects Officer | - Responsible for drainage issues. |

In terms of on-site maintenance, the majority of the work is undertaken by a team of 4 people who carry out the grass cutting, shrub bed maintenance and general maintenance. Whilst this work is all scheduled, there is flexibility to meet the demands of the changing seasons and to ensure that the site looks at its best for key events. The maintenance teams report back any issues identified requiring additional attention e.g. vandalism. The litter bin and cleansing team also perform an extended role in reporting back any issues identified on the ground.

There is also close liaison between the Parks & Environment team and the Council's trading company Liberty Leisure Limited. This is a Broxtowe Borough Council company that delivers leisure, culture, sports and events to the community of Broxtowe. These links are particularly important given the sites important role in major community events.

22.3 Adjacent Land Influences on the Site's Future Management

Various sites just outside the site's boundary are designated as existing Sites of Importance for Nature Conservation (SINCs). These are detailed below:-

- The Dumbles – Biological SINC. A notable wildlife area incorporating pools.
- Beauvale Streamside Meadows – Biological SINC. Species rich damp meadow.
- Moorgreen Reservoir – Biological SINC. A water body of relatively natural appearance.
- Moorgreen Meadow – Biological SINC. An important Hay Meadow.

22.4 SWOT Analysis – Management

Strengths	Weaknesses
<ul style="list-style-type: none"> • The site is well maintained and the facilities are of a high quality • Friends of Colliers Wood are very active and help to promote and manage the site • The main issues facing the site's development have been identified • Management Plan incorporates a SWOT analysis and is SMART to measure progress • Keep Britain Tidy Group asked permission to circulate the Green Flag Management Plan as an example of good practice, permission was given • Strong links with Liberty Leisure Limited 	<ul style="list-style-type: none"> • No previous measures of progress against targeted activities
Opportunities	
<ul style="list-style-type: none"> • Develop further links between survey results and on-site activities • Continue to explore further opportunities for raising capital and revenue • Potential for increased involvement from volunteers e.g. PCV and Notts Wildlife Trust • Potential links with adjacent SINCs 	<ul style="list-style-type: none"> • No site specific forward capital programme for the site • The challenging financial climate faced by local authorities and a reducing revenue budget for parks services work over the coming years • COVID-19 and potential financial implications

CHAPTER 3 – WHERE DO WE WANT TO GO?

Chapter 3 of the Colliers Wood Management Plan brings together the information from Chapter 1 and the analysis in Chapter 2 to create objectives and management prescriptions, which relate back to the aims set out in section 3.0 of the document. These are set out below and underpin the overall and long-term development of the site. Chapter 3 and Chapter 4 are the part of the management plan, which takes the site forward. They are issued as a working document to maintenance teams, officers, friends and partners involved in the management of the site.

23.0 Aims, Objectives and Management Prescriptions

23.1 Aim

To provide a welcoming site for all visitors.

23.1.1 Objective

Ensure the site is welcoming, with good and safe access for all abilities and clear signage at all entrances.

23.1.2 Management Prescriptions

- Keep entrance signage and interpretation panels clean, readable and up-to-date.
- Inspect and maintain boundary fencing, site furniture and paths.
- Sweep and cleanse car park and entrance road regularly.
- Keep pedestrian entrances clean and free from flooding by surfacing heavily worn or eroded areas and clearing drainage channels.

23.2 Aim

To provide a healthy, safe and secure site for all users.

23.2.1 Objective

Maintain equipment, facilities and the site's infrastructure to a high standard. Minimise issues relating to anti-social behaviour, ensure health and safety procedures are in place and maximise options for health.

23.2.2 Management Prescriptions

- Ensure safety of site's stone paved paths.
- Encourage responsible dog ownership.
- Undertake annual risk assessments.
- Keep drainage ditches free from standing water.
- Site to be used for 'healthy' opportunities.

- Replace site furniture where appropriate.
- Manage car parking security.
- Manage water safety issues.

23.3 Aim

To achieve a consistently high standard of maintenance and cleanliness.

23.3.1 Objective

Have a comprehensive and clear management system in place for all aspects of the sites maintenance with regular inspection and performance monitoring and by ensuring visitors have an opportunity to comment.

23.3.2 Management Prescriptions

- Maintain all areas in accordance with specification and schedules.
- Keep site free from litter and dog waste.
- Work with adjacent businesses to promote responsible waste management.
- Hand removal of invasive species.
- Additional tree/hedge planting where gaps have developed.
- Review value of rabbit fences.
- Review condition of deer fence.

23.4 Aim

To advocate and demonstrate sustainable environmental management.

23.4.1 Objective

Minimise the use of pesticides, reduce waste and energy consumption, encourage recycling of materials, promote nature conservation and continue with no use of peat.

23.4.2 Management Prescriptions

- Promote sustainable planting.
- Compost green waste.
- Training of Broxtowe staff in sustainable land management.
- Implement recommendations in Woodland Management Plan.

23.5 Aim

To protect, conserve and promote the nature conservation and heritage value.

23.5.1 Objective

Identify evolving requirements and develop suitable management prescriptions for important landscape, ecological and historical features. Encourage biodiversity within the site. Actively promote nature conservation.

23.5.2 Management Prescriptions

- Improve wildflower areas.
- Work towards resolving water management issues.
- Manage development of habitats to encourage bio-diversity.
- Evolve maintenance routines compatible with habitats.
- Maintain interpretation boards and heritage features.
- Introduce and expand artificial habitats as an aid to bio-diversity.
- Implement recommendations from the Borough's Green Infrastructure Strategy.

23.6 Aim

To actively promote and enable community participation and involvement.

23.6.1 Objective

Support the Friends of Colliers Wood, PCV, Greenwood, Groundwork Greater Nottingham, NWT and Liberty Leisure Limited to assist in the active management of the site and provide a varied programme of events and art activities. Undertake regular consultation and surveys using a range of techniques.

23.6.2 Management Prescriptions

- Promote the Friends of Colliers Wood.
- Implement further varied events and activities.
- Encourage and promote school and community events.
- Consultation with users and non-users.

23.7 Aim

To raise the profile of the site by maximising marketing opportunities.

23.7.1 Objective

Ensure the site has a high profile, promote the education pack, ensure good interpretation of all features and encourage and enable use by schools and other groups.

23.7.2 Management Prescriptions

- Keep the site leaflets up-to-date.
- Promote events and activities.

- Utilise the internet and all aspects of social media.

23.8 Aim

To ensure effective and viable management.

23.8.1 Objective

Ensure standards are maintained by securing the necessary revenue and capital funding and that the management plan is regularly reviewed and updated

23.8.2 Management Prescriptions

- Annual monitoring of Management Plan.
- Explore alternative funding sources.
- Major review of management plan in late summer/autumn 2024.

CHAPTER 4 – HOW WILL WE KNOW WHEN WE’VE ARRIVED?

Chapter 4 is the final chapter in the Colliers Wood management plan and provides the focus for ongoing improvement and development. The chapter sets out an action plan for a five year period and also explains how the plan will be reviewed and monitored.

24.0 Introduction

The following action plan sets out the intended actions required to continue to improve Colliers Wood in relation to the issues identified within the previous sections of the management plan.

The Parks and Environment team will implement the action plan with support from the Friends of Colliers Wood. It is intended that the action plan will be adapted to reflect the judges’ feedback from the Green Flag assessments.

The management plan is a live document that is responsive to change. Amendments will regularly be made to reflect changes and incorporate the views of users and the wider community.

25.0 Action Plan 2019-2024

The action plan is divided into the 8 aims previously identified. These reflect the criteria established by Green Flag for managing quality green spaces.

- To provide a welcoming site for all site users.
- To provide a healthy, safe and secure site for all users.
- To achieve a consistently high standard of maintenance and cleanliness.
- To advocate and demonstrate sustainable environmental management.
- To protect, conserve and promote the nature conservation and heritage value
- To actively promote and enable community participation and involvement.
- To raise the profile of the site by maximising marketing opportunities.
- To ensure effective and viable management.

All the aims have prescriptions and actions, which correspond with the objectives identified in Chapter 3. A performance measure and estimated cost are also identified together with a nominated officer/group responsible for the action and a relevant timescale.

The action plan covers the full duration of the management plan.

26.0 Abbreviations used in Colliers Wood Management Plan

Organisations

Abbreviation	Organisation/Department
BBC	Broxtowe Borough Council
ETC	Eastwood Town Council
FoCW	Friends of Colliers Wood
GNWD	Greenwood Community Forest
GPC	Greasley Parish Council
NCC	Nottinghamshire County Council
NWT	Nottinghamshire Wildlife Trust
PCV	Practical Conservation Volunteers
LLL	Liberty Leisure Limited
WPD	Western Power Distribution

Broxtowe Borough Council Officers

Abbreviation	Organisation/Department
EPO	Environmental Projects Officer
ET	Environmental Technician
GMM	Grounds Maintenance and Arboricultural Manager
NW	Neighbourhood Warden
PGSM	Parks and Green Spaces Manager
GSDM	Green Space Development Manager
HSM	Health & Safety Manager
WSCM	Waste and Street Cleansing Manager

Aim - To provide a welcoming site for all visitors – sheet 1

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Keep site entrance name board and interpretation panels clean, readable and appropriate	Signage & panels maintained in good & clean condition.	19-20 £500 20-21 £500 21-22 £500 22-23 £500 23-24 £500	No negative reports from public	GDSM
	Consider additional signs at pedestrian entrances	19-20 £1000	Signs erected	
Progress: Works undertaken in accordance with schedule. No new signs erected to date				
Inspect & maintain boundary fencing, site furniture & paths	Boundaries & paths preventive maintenance at 4 monthly intervals	19-20 £1,200 20-21 £1,200	No damage left unattended for more than 10 days.	GDSM and GMM
	Record number of public reports. Replace wooden bollards on way marked trails in 2020 possibly with recycled plastic bollards	21-22 £1,200 22-23 £1,200 23-24 £1,200	Bollards replaced	
Progress: Occasional repair work undertaken as necessary. Old benches replaced with memorial seats. Ongoing repairs to tackle path washout undertaken. Funding not yet identified for way marking bollard replacement.				

Aim – To provide a welcoming site for all visitors – Sheet 2

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Sweep and cleanse car park and entrance road regularly Grit car park access road in snow conditions	Entrance roadway & parking maintained in a clean & tidy condition Road accessible	Road swept in Feb, May, August and November. Litter picking weekly. Access road gritted as conditions dictate. Costs contained within revenue budget for site.	Grounds staff visual inspection & reports from FoCW	WSCM
Progress: Works undertaken as specified				
Keep pedestrian entrances clean & free from flooding by surfacing heavily worn or eroded areas & clearing overflowing drainage channels	Entrance areas paving topped twice per annum as necessary.	March and October over 5 year period. Costs contained within revenue budget	Decreased frequency of emergency maintenance action per annum	GMM
Progress: Drainage channels cleared as necessary. Pedestrian entrances are free from flooding.				

Aim - To provide a healthy, safe and secure site for all users – sheet 1

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Ensure safety of site's stone paved paths.	Programme of resurfacing & grading of paths and drainage for surface run-off water.	Summer/Autumn 19 £1,500 Summer/Autumn 20 £1,500 Summer/Autumn 21 £1,500 Summer/Autumn 22 £1,500 Summer/Autumn 23 £1,500	Reduction in frequency of reported damage and inspection remedial reports.	GMM
	Emergency remedial work to eroded areas	Emergency and remedial work to eroded areas. Annual allowance £750	Avoidance of public claims.	
	Inspect on a 4 month cycle and after particularly heavy rain and on response to public notification. Investigate alternative surfacing options for worst affected areas.	Summer 2020 £15,000	Funding obtained	PGSM
Progress: Surface erosion of paths particularly in times of storm conditions is an ongoing problem. A change in material used and installation method has proved effective. No funding secured for major resurface.				
Encourage responsible dog ownership	Continue to review and update Dog Byelaw signs	New signs proposed Summer 2021	Signs updated	NW
	Regular monitoring by Neighbourhood Wardens	Ongoing random visits.	Note number of faeces on and adjacent footpaths.	NW
	Pursue prosecutions and publicise	over 5 year period	Target site for prosecutions	NW
	Bins for dog fouling renewed as required	£300 annual allowance over 5 years	No bin deficiency to be reported	NW
	Continue to promote "Responsible Dog Ownership" scheme	Annual Event	Increase in responsible dog ownership	FoCW

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
<p>Progress: Dog bins are well used and emptied regularly. Still issues with dog fouling but public perception of the issue is much improved as reflected by consultation. Neighbourhood Wardens regular patrol the site. FOCW promote “Responsible Dog Ownership” certification scheme.</p>				

Colliers Wood Action Plan 2019 - 2024

Aim - To provide a healthy, safe and secure site for all users – sheet 2

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Undertake annual risk assessments	Annual review	December 2019, 2020, 2021, 2022, 2023, 2024 Costs contained within revenue budget	Annual reduction in changes required	GMM and HSM
Progress: No known increase in danger				
Keep drainage ditches free from standing water	Ditches graded and cleared of slippages and vegetation.	Winter 2019-20, Winter 2021-22, Winter 2023-24 £1000	Nominal invert water on dry days	GMM
	Link drains cleared of sediment or re-laid or new drains installed	Autumn 2019, Autumn 2021, Autumn 2023 £1500		
Progress: Ditches cut and cleansed as necessary				
Site to be used for 'Healthy' opportunities	Walking for Health schemes. Broxtowe Duathlon Colliers Wood Canter	Ongoing over 5 year period	Monitor numbers	LLL and FoCW
	Publicise circular routes and links to footpaths	Ongoing over 5 year period	Random questioning of visitors	
Progress: Site continues to be popular for walking but COVID-19 prevented Broxtowe Duathlon and Colliers Wood Canter in 2020				

Colliers Wood Action Plan 2019 - 2024

Aim - To provide a healthy, safe and secure site for all users – sheet 3

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Replace site furniture where appropriate	Replace when existing deteriorates to be unfit for purpose	When required over 5 year period £1,000	No public complaints	GSDM
	Consider installing recycling bins when bins are replaced	As required £1,000	New recycling bin installed	WSCM
Progress: Style of replacement recycled benches agreed with FoCW and new memorial seats installed. Picnic tables replaced with recycled material				
Manage car parking security	Monitor CCTV identification of incidents.	Ongoing over 5 year period	Increase in culprit identification	PGSM
	Maintain CCTV sight lines by pruning tree growth	December annually, costs contained within revenue budget	Monitor blockages covered by tree growth	GMM
	Maintain views from Engine Lane by selective tree removal	December annually, costs contained within revenue budget	Visual inspection	GMM
Progress: CCTV camera proving effective. No incidents reported in car park. Vegetation cut as necessary. Anti-social behavior is very low				
Manage water safety issues	Install new throw lines and relevant signage by main pond	Throw lines and signage installed Summer 2019	Reduction in risk in terms of water safety	EPO and HSM
Progress: Throwlines and signage inspected and checked on regular basis with written report submitted. No problems identified and throw lines have not had to be used since their installation.				

Colliers Wood Action Plan 2019 - 2024

Aim - To achieve a consistently high standard of maintenance and cleanliness – sheet 1

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Maintain all areas in accordance with specifications and schedules	Comply with scheduled maintenance program.	Ongoing throughout year. Costs contained within revenue budget	Monitoring performance against specifications	GMM
Progress: Works undertaken				
Keep site free from litter and dog waste	Empty bins in accordance with schedule	Twice weekly	Maintenance reports analysed for consistency Record of public complaints	WSCM
	Collect site litter Periodic intensive removal	Weekly Twice yearly. Costs contained within revenue budget		FoCW
Progress: Dog bins well used but still occasional problems adjacent to paths. Bins emptied as specified. Friends continue to clean litter as necessary				
Work with adjacent businesses to promote responsible waste management	Reinforce responsibility to adjacent companies	Annually	Site free from wind-blown commercial waste	ET/FoCW
	Report litter incidents and identify offending premises	Ongoing		
Progress: Environmental Technician advises adjacent businesses as necessary as the their responsibility				

Colliers Wood Action Plan 2019 - 2024

Aim - To achieve a consistently high standard of maintenance and cleanliness – sheet 2

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Hand removal of invasive species	Remove ragwort Remove thistle from copses Remove bramble from Wetland Copse	Annually on a rotation basis. One year from copse, one year from meadows	Reduction of species distribution on year-by-year basis	FoCW PCV GMM
Progress: Limited work undertaken in 2020 due to COVID-19				
Additional tree/hedge planting where gaps have developed	Late summer inspection to identify gaps	July/August each year	Reinstatement of appropriate tree cover	GSDM
Progress: Additional planting undertaken in winter 2020				
Review value of rabbit fences	Inspect rabbit fence condition Decision to retain/repair or remove.	Annual inspection Annual remedial work £500	Survival of underplanted wildflowers Animal damage and vandalism	PGSM FoCW
Progress: Fencing generally still in reasonable condition and serves its purpose. It also prevents dogs and people gaining access to the areas				
Review condition of deer fence	Inspect fence condition Assess requirement and restriction of mammal migration pathways Consult with North Notts Deer Group	Annually in April As required	Note any report of deer sightings and damage to site or residents property	GSDM FoCW
Progress: Fence still in reasonable condition. No deer sightings reported.				

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Review structural condition of Amphitheatre	Inspect condition	Annually in April	Note any damage and action repairs	GSDM
Progress: Repair work undertaken autumn 2019				

Colliers Wood Action Plan 2019 - 2024

Aim - To advocate and demonstrate sustainable environmental management – sheet 1

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Promote sustainable planting	Thinning of copse plantings.	Annually £1500	Visual inspection for restricted growth. Growth rates for slower growing species	GSDM/FoCW/PCV
	Maintenance of mature trees.	Annually in November		
	Create 'halo' of clear ground around priority long term species in DH Lawrence copse	Costs contained within revenue budget	New hedges planted	FoCW/GMM/GSDM
	Identify areas for gapping up existing hedge lines and investigate planting new hedge lines around copse areas.	Autumn 2019		
	Undertake scalloping of copse edges	Winter 2019		
Consider coppicing policy for wetland copse	Commencing winter 2019/20 and ongoing. Costs contained within revenue budget	Annual review of ground flora species change	FoCW/GMM	
			Coppicing undertaken	FoCW/GMM/WPD
Progress: Copse thinning taking place. 'Halo' pruning undertaken. Additional hedge planting undertaken. First scalloped edge to copse created by FoCW				
Compost green waste	Collect and transfer for composting arising from meadow areas	March to October annually. Costs contained within revenue budget	Minimal green waste present on meadow areas	GMM
Progress: In a change of policy this year cuttings were collected and baled on site and stored in locations on the edge of copses.				
Training of Broxtowe staff in sustainable land management	Refresher courses and induction training.	As required	Periodic review of implementation success	GSDM EPO

Colliers Wood Action Plan 2019 - 2024

Aim - To advocate and demonstrate sustainable environmental management – sheet 2

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Progress: Training provided to staff on Environmental Issues				
Implement recommendations in Woodland Management Plan	Actions implemented and plan reviewed	Annually. Costs contained within revenue budget	Targets in Woodland Management Plan achieved	FOCW/GMM/ GSDM/ NWT
Progress: Programme of works undertaken adopted from the management recommendations. Full extent of works restricted by COVID-19				

Colliers Wood Action Plan 2019 - 2024

Aim – To protect, conserve and promote the nature conservation and heritage value – sheet 1

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Improve wildflower areas	Specific species seeding at designated areas. Increase diversity of species when necessary Increase width of marginals at Large Pond.	Annual as required Costs contained within revenue budget Spring 2020 £1000	Survival rate. Number of new species recorded. Increase in pond species Number of waterfowl nesting Survival of new plant species and record of attracted species	PCV/FoCW GSDM
Progress: Seeding undertaken on an annual basis. Marginal planting undertaken and to be reassessed in summer 2021				
Work towards resolving water management issues	Ditch cleaning & grading Drainage repairs and cleaning	Winter 19-20/Winter 21-22 Winter 23-24 £1000 Autumn 19, 20, 21 £1500	Target water level in Large Pond never drops below the original outlet cill level	PGSM GMM
Progress: Ditch works undertaken. Pond levels can vary from extreme lows to flooding.				

Aim – To protect, conserve and promote the nature conservation and heritage value – sheet 2

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Manage development of 'natural' habitats to encourage bio-diversity	Species survey & recording	Current and ongoing	Database statistics	FoCW
	Implement grass maintenance schedule.	Current and ongoing	Increase in species throughout food chain	GMM
	Review development of copses	Annually in Autumn	No overwhelming dominance of single species	FoCW
	Review issue of increasing fish numbers in main pond and look to ways to control/resolve this	2019/20	Reduction in fish stocks	GDSM/FoCW/ GMM
	Remove bramble from Wetland Copse and field boundary ditches	2019-2024	Area cleared of bramble	FoCW/PCV
<p>Progress: FoCW continue to survey and record species. Changes to grass collection arrangements in autumn 2020. Copse scallop work undertaken. Main pond water levels reduced as significant number of fish removed in March 2019. A smaller scale fish removal exercise was undertaken in November 2020.</p>				

Colliers Wood Action Plan 2019 - 2024

Aim – To protect, conserve and promote the nature conservation and heritage value – sheet 3

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Evolve maintenance routines compatible with habitats	All cut timber retained, compressed and pile locations predetermined	Annually	Increase in relevant species	GMM/FoCW
	Frequent removal of pioneer species regrowth in copses	Annually (Contained within revenue budget)	Public response and species recorded. Regrowth density & improvement in species mix	FoCW/GMM/ PCV
			Establishment of understorey species	GMM//PCV
Progress: Prunings from copse scalloping stacked and retained on edge of area. Pioneer species regrowth removal ongoing.				
Maintain interpretation boards & heritage features	Panels & features maintained in good & clean condition at 4 monthly intervals.	19-20 £300 20-21 £300 21-22 £300 22-23 £300 23-24 £300	No negative reports from public.	GSDM
	Panels updated and or replaced if necessary.	23-24 £3000	Relationship to species survey	
Progress: Some deterioration of panels but still in serviceable condition and well used by visitors.				

Colliers Wood Action Plan 2019 - 2024

Aim - To protect, conserve and promote the nature conservation and heritage value – sheet 4

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Introduce and expand artificial habitats as an aid to bio-diversity	Continue to create habitat stacks from brash	2019-2024	Quality of insects and mammals over wintering	FoCW
	Look for opportunities to introduce bird nest boxes to encourage specific species when trees gain sufficient girth	2023-2024	Target of 15	FoCW
	Retain some bales of grass cutting to composting at designated location	2019-2024	Reptile use	GMM
Progress: Habitat stacks continue to be created. Hay bales stores on edge of woodland compartments autumn 2020.				
Implement recommendations from the Borough's Green Infrastructure Strategy	Management Plan adjusted as necessary	Autumn 2019 and ongoing	Determined as changes occur	BPME/GSDM
Progress: Recommendations continue to be reviewed.				

Colliers Wood Action Plan 2019 - 2024

Aim - To actively promote and enable community participation and involvement – sheet 1

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Promote the Friends of Colliers Wood and works undertaken	Meetings advertised and notes distributed; hardcopy & email.	Ongoing	Attendees at meetings. Demand for meeting notes.	FoCW
	Flyers and posters at display opportunities	Ongoing average 3 displays per annum £60	Flyers taken. Level of interest in displays.	
	Press releases advertising events & activities	Ongoing average one per month	Attendees questioners	
	Continuously update FoCW web site	Ongoing	'hit' rate	
Progress: Meeting notes distributed. Delays with Friends Website being updated. Flyers and posters displayed but this has been limited in 2020 due to COVID-19.				
Implement further varied events and activities	Further participation activities per annum organised by LL Art related events	Annually. Costs contained in revenue budget. After installation of Community Wheel Activity Space Project	Attendee numbers & activity interest feedback Participant numbers	PGSM/ FoCW/LLL
Progress: Events put on hold in 2020 due to COVID-19.				

Colliers Wood Action Plan 2019 - 2024

Aim - To actively promote and enable community participation and involvement – sheet 2

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Encourage and promote school and community events	Encourage schools and community groups to use the site.	2 unsupervised events per annum	Demand level.	GSDM FoCW
Progress: Events put on hold in 2020 due to COVID-19.				
Consultation with users and non-users	Surveys at appropriate times	Variable	Number of responses obtained	BPME FoCW
	Site contact with users	Ongoing	Feedback received	
Progress: Public consultation in 2019 as part of Broxtowe Parks Standard provided high satisfaction levels.				

Colliers Wood Action Plan 2019 - 2024

Aim -To raise the profile of the site by maximising marketing opportunities – sheet 1

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Keep the site leaflets up-to-date	Detailed check/adjustments prior to additional print runs	Ongoing	Accuracy/relevance of contents	PGS FoCW
Progress: Leaflets widely distributed. Note made to mention use of radar keys for kissing gates in next review.				
Promote events and activities	Press releases for all events	2 weeks prior	Releases featured in local papers	GSDM
	‘County News’ articles Broxtowe ‘What’s on Where’ listing in Broxtowe Matters	Four times per annum Twice yearly, May & October	Feedback from attendees	
	Parish email & mail-drop diary	Four times per annum		FoCW
	Promote ‘Lesson in a Box’ initiative Poster & banner displays	Ongoing For each event	Frequency of box use	
Progress: With COVID-19 there have been very few events. Site was promoted for exercise and for ‘mindfulness’ during lockdown and was very popular. Green Flag success promoted through press releases.				

Colliers Wood Action Plan 2019 - 2024

Aim -To raise the profile of the site by maximising marketing opportunities – sheet 2

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Utilise the internet and all aspects of social media	FoCW website	Current, regularly updated	Hits. Expansion of subjects. Refresh rate. Feedback. Enquiries.	FoCW PGSM
	Email posting lists	For each event/activity		
	Broxtowe website	Current, regular update.	Hits on Colliers Wood pages . Increased number of subscribers	
	Broxtowe Parks and Green Spaces newsletter	Monthly newsletters		
<p>Progress: FoCW website has good ‘hit’ rate. Broxtowe website updated. Site gets regular mention in the Council’s monthly Parks and Green Spaces newsletter.</p>				

Colliers Wood Action Plan 2019 - 2024

Aim -To ensure effective and viable management – sheet 1

Prescription	Action	Action Date & Estimated Cost	Performance Measure	Responsibility for Action
Annual monitoring of Management Plan	Annual review & update as required.	November annually	Level of revisions required	PGSM/GSDM/ GMM/FoCW
Progress: Annual reviews undertaken as part of the production of the Year 3 Management Plan.				
Explore alternative funding sources	Review annually what funding streams are available Examine the funding opportunities arising from new housing developments as part of Section 106 contributions	Annually	New funding secured	PGSM/GSDM
Progress: Funding sources continue to be reviewed. Funding secured for completion of the Community Wheel Activity Space Project.				
Major review in 2024	Prepare new Management plan.	October 2024	Results exceeding or falling short of plan requirement.	PGSM/GSDM/ GMM/FoCW
Progress: Will be undertaken in accordance with action date				

27.0 Monitoring and Evaluation

The Colliers Wood Management plan will be continually reviewed using the process detailed below.

27.1 Annual Review

Progress against the action plan will be reviewed by the Parks and Green Spaces Manager in conjunction with officers from the Parks team and other relevant people.

27.2 Policy Revisions


Where new strategies or policies are introduced during the lifetime of the plan these will be noted and incorporated as necessary. Changes to the narrative of the plan will be made as appropriate as part of the review process.

27.3 Fundamental Review

A fundamental review will be taken in year 5 of the management plan. Partners and stakeholders will be consulted and a full evaluation of the plan will be undertaken.

Appendix 1 –Scale Plan (1:5000 showing site boundary)

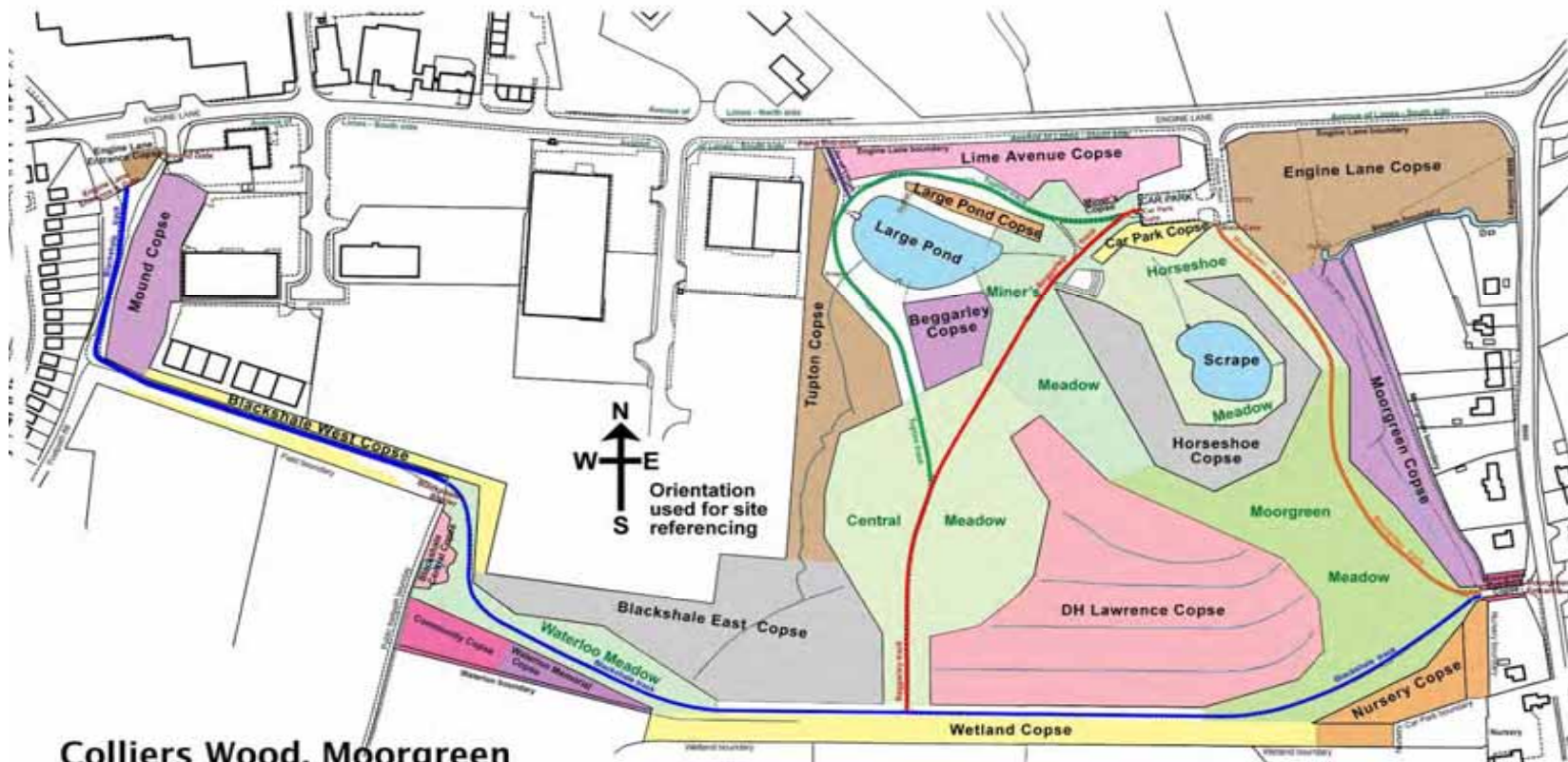


 <p>Broxtowe Borough COUNCIL</p> <p>Directorate of Environment Council Offices, Foster Avenue, Beeston, Nottingham NG9 1AB Tel: 0115 917 7777 Fax: 0115 917 3600</p>	Project	Colliers Wood Moorgreen Local Nature Reserve	Dwg No.	ENV/011/16/PT
	Title	Appendix One Site Boundary	Drawn by	WJA
	Scale	1:5,000	Date	JUN 13
	<small>© Crown Copyright and database right 2013. Ordnance Survey 100014433</small>			

Appendix 2 – Aerial Photograph of the Site



Appendix 3 – Plan showing names of site features



Colliers Wood, Moorgreen
Identities of site features. Rev. 1 February 2008

Appendix 4 – Grounds Maintenance Specifications

All maintenance work undertaken on the site is carried out in accordance with the specifications as detailed below.

These were the basis of the original CCT documents but have been amended over time to reflect changes in working practices and Best Value principles.

The following specifications summarise the main points of the original documents.

Specification A - Grass Cutting

Specification J - Shrub/Rose Bed Maintenance

Specification M – Inspection and Maintenance of Whips and Trees below 6.0m in height

Specification N – Hedge Maintenance

Specification V - Cleansing

SPECIFICATION A

GRASS CUTTING

A1 General

To be read in conjunction with Appendix 23 Habitat Development at Colliers Wood.

A2 Method of Operation

Prior to cutting any area, the Contractor will remove all litter to ensure no injury to persons or damage results, and to avoid the shredding by machinery of any such material.

All grass will be cut evenly, to the same height on each site and without damaging the existing surface.

A2 Mowing

General Areas:

All grass areas shall be mown using a rotary machine. Vegetation will be cut on a 3 weekly cycle with a cut length of 30mm height.

Annual Cut Areas:

All such areas should be rotary or flail mown to a height of 50mm in September / October.

Wild Flower Areas:

The cornfield annuals areas are to be cut in late summer/early autumn. The cereal planting area is to be cut the following spring after flowering to provide a source of food for mammals and birds.

High Profile Areas:

Maintained as per the general area but with an additional cut undertaken prior to events.

SPECIFICATION J

SHRUB BED MAINTENANCE

J1 Clearing of Beds

All beds will be cleared of litter, rubbish, leaves and weeds etc. as part of the pruning operation. In addition, all beds shall be cleared of litter, rubbish, leaves and weeds etc. on four further occasions throughout the year. The clearances shall take place during the first week in April, June, August and October.

J2 Pruning

The purpose of pruning is to build a strong framework keeping shrubs healthy and vigorous, maintaining the shape and balance, ensuring the maximum amount of flowering wood is produced and that the shrubs are kept so that they do not create a nuisance or danger. Where plants overlap hard areas, growth will be allowed until it restricts use of that area.

Pruning and removal of branches is to be carried out using sharp, clean implements to give a clean sloping cut with one flat face.

Flowering Deciduous Shrubs – At the beginning of the growing season they shall be checked and all deadwood, broken, damaged, overcrowded or crossing branches cut out.

Pruning shall be undertaken in accordance with the following timetable:

Category A – Shrubs flowering in winter will be pruned in early spring (April – May).

Category B – Shrubs flowering March to July will be pruned immediately after flowering.

Category C – Shrubs flowering July to September will be cut back to old wood in January or February.

Category D – Cornus (dogwood) and willows grown as shrubs. These should be pruned hard back to within 150mm of the base at the end of March.

Evergreen shrubs, except Lavender and Hypericum. No regular annual pruning required except to remove unwanted growth etc.

SPECIFICATION M

INSPECTION AND MAINTENANCE OF WHIPS AND TREES BELOW 6.00M IN HEIGHT

M1 Inspection and General Maintenance

Ties shall be inspected once per season by the Contractor in November immediately after gales or as instructed by the Supervising Officer, and adjusted to conform to stem growth and to prevent chaffing.

Stakes shall be inspected by the Contractor once per season in November and immediately after gales or as instructed by the Supervising Officer, checking for looseness, breaks or decay and replaced for whatever reason as necessary with new stakes.

Stakes will remain in position until trees and whips are self-supporting. After removal of the stake the resulting post hole will be filled with soil and then lightly compacted.

M2 Pruning

Pruning and removal of branches is to be carried out using sharp, clean implements to give a cut flush with the adjoining stem and in such a way that no part of the stem is damaged or torn. Secateurs to be used on small growth, long handled pruners, or small toothed saw for larger growth.

Where trees are growing adjacent to buildings, fixtures etc. or encroaching beyond certain boundaries, pruning will be required to remove the offending growth by thinning out and reducing the crown by up to 50% whilst still retaining the natural crown shape.

The Contractor will remove all branches to the branch collar or a suitable lateral when carrying out pruning.

Cuts will be made so that one clean sloping face is left. This will be done as close to but without cutting into the branch collar or leaving a stub.

SPECIFICATION N

HEDGE MAINTENANCE

N1 General

All hedges are to be pruned to the shape required by the Supervising Officer.

The Contractor will use sharp secateurs, shears or mechanical cutters

according to the type and location of the hedge.

All cuts will be clean, and any ragged edges will be removed using a sharp knife, except where side arm flail work is carried out.

Any obstacles, street furniture, gate posts, trees etc. must be trimmed around.

Any established or young trees in the hedge should be worked around.

Unless otherwise stated, current growth will be removed back to the old wood, and the hedge will be pruned back to the same height width and general shape as that which existed at the completion of the last approved pruning.

N2 Pruning

All hedges shall be pruned in October.

Cut back growth to previous year's wood to create a hedge slightly narrow in shape from the base to the top and compact in habit. Ensure that no poisonous hedge trimmings, fruit or plants are cut and left on neighbouring land where there is a risk to domestic or other animals. The hedge should be trimmed to leave clean tidy cuts with a minimum amount of long trimming left as debris. Severe lacerations must be avoided at all times. Trimmings in excess of 100mm in length should be removed from site. All highways and paths must be left free of trimmings and debris at the end of each working day.

SPECIFICATION V

CLEANSING

V1 General

The term "Cleansing" shall include the following items of work:

- Emptying of all litter bins including removal of any litter and debris on the areas adjacent to the bins and the replacement of disposable liners where applicable.
- Sweeping of tarmac footpaths and car parks on a 3 monthly cycle.
- Removal of litter etc. from shrub beds.
- Removal of litter from grass and woodland areas.

All litter, stones, debris etc. resulting from cleansing operations shall be removed from site by the Contractor at the end of each working day.

V2 Emptying Bins

On all Parks, Recreation Grounds, Open Spaces, Play areas, the Contractor

will empty completely all the litter/dog bins and dispose of the contents from site.

Emptying of such litter bins will be undertaken twice weekly.

Any litter in the immediate vicinity or surrounding a litter bin shall be swept up and removed after the litter bin has been emptied.

V3 Sweeping

All footpaths, car parks, drives and other hard landscaped areas shall be swept on a 3 monthly cycle. The Contractor shall sweep the area in a methodical manner. The larger areas shall be swept with a mechanical sweeper, with the small paths etc. swept using a hard-bristled hand broom.

V4 Litter Picking

All grass and woodland areas shall be cleansed twice weekly. The areas should be cleansed in a methodical manner with particular attention paid to this heavily used area of the site.

V5 Additional Work

In addition to the work listed previously the Contractor will be expected to periodically undertake additional works:

- Removal of deposits resulting from fly tipping.
- Removal of items associated with fly posting or graffiti.

Appendix 5 – Annual Grounds Maintenance Schedule – Colliers Wood

The following schedule separates the work into a series of items, which relate to the grounds maintenance specifications. Also included is the frequency of operations against a monthly timescale.

Work Item	Frequency of Operation per Month											
Month	J	F	M	A	M	J	J	A	S	O	N	D
General Grass Cutting				1	2	1	2	2	1	1		
High Profile Area				1	2	1	2	2	1	1		
Annual Cut Areas										1		
Hedge Maintenance										1		
Litter/Dog Bins	8	8	8	8	8	8	8	8	8	8	8	8
Sweeping			1			1			1			1
Litter Picking	8	8	8	8	8	8	8	8	8	8	8	8

Appendix 6 – 10 Years on – From Wasteland to Woodland

These photographs detail the dramatic transformation that took place over a 10 year period. The 'before' photographs were taken in September 1997 and the 'after' ones in October 2007.

A key part of the successful establishment has been the wet ground conditions. This resulted in very few tree failures in the early years of establishment and has helped to put on good extension growth in the subsequent years.

Before – Dipping Platform September 1997



After – 2007



Before – Large Pond September 1997



After – September 2007



Before – View of Small Pond September 1997



After - 2007



Before – Top Path September 1997



After – 2007



Appendix 7 – Community Events at Colliers Wood

- The Friends of Colliers Wood organize various task mornings throughout the year including copse management, ragwort removal, litter collection and general habitat management.
- The Kimberley and District Striders hold the Colliers Wood Canter on the second Saturday of each month with the option of two distances 3k and 5k.
- Easter Sunday – Sunrise Service
- Family pond dipping events organised by the Friends of Colliers Wood
- Outdoor film screenings
- Companion Dog Show – first Sunday in August
- Broxtowe Duathlon – second Sunday in October
- Winter Wonderland – last Sunday in November

In 2020 this list was significantly reduced due to the impact of COVID-19.

Appendix 8 – List of Improvement Works Undertaken over last 5 years

2015/16

- Programme of Halo pruning in D H Lawrence copse continued.
- Path reinstatement work undertaken
- New site notice board installed
- Old chain link fence removed from edge of Blackshale West Copse.

2016/17

- Programme of Halo pruning in D H Lawrence copse continued.
- Path reinstatement work undertaken.
- New recycled plastic seats installed.
- Repair work undertaken to picnic benches.
- “We Love Yew” tree planted.
- Working with Greenwood and Notts Wildlife Trust to develop woodland management plan.

2017/18

- Path reinstatement work undertaken
- New recycled plastic memorial benches installed
- First phase of works to Community Wheel Activity Space completed
- Site leaflet updated
- Woodland Management Plan Produced.

2018/19

- Path repair work undertaken
- New recycled picnic table installed
- Copse work undertaken in accordance with Woodland Management Plan
- New throw line stations installed
- Major hedge laying works undertaken adjacent to industrial land.


2019/20

- Community Wheel Activity Space Project completed with the installation of winding wheels
- Practical Conservation Volunteers created enclosures in pond to establish native oxygenated plants and more ‘showy’ natives to attract pollinating insects.

- Main pond drained and significant numbers of goldfish and koi carp removed
- Further hedge planting works carried out around copse areas
- Path reinstatement works undertaken
- Friends sowed wildflower seeds in central meadow area
- Old dipping platform removed

Appendix 9 – Colliers Wood Leaflet 2018


<https://www.broxtowe.gov.uk/media/4461/colliers-wood-informational-leaflet.pdf>



The Colliery


Coal has been mined in this area for nearly 700 years. The monks of Beavale Priory held rights to mine coal and it is believed there were shallow workings dating back to Roman times. Indeed, within a mile of nearby Brinsley Headstocks, more than 100 shafts were sunk over the last 200 years. The development of the towns and villages in the area owe much to this mining heritage.

Colliers Wood and the surrounding area was once the site of Moorgreen Colliery. Opened by Barber, Walker & Company in 1885, three shafts were sunk and coal production commenced in 1871. At its height the colliery employed a high proportion of the local working men and produced around 1,000,000 tons of coal per year. The colliery was part of a large complex of mines in the Greasley parish. Other pits included Wainall, New London, Deep, High Park and Lodge. Deep mining came to an end in 1985 with the closure of Moorgreen and Pyle Hill collieries.



Friends of Colliers Wood

The Friends are a community group who, with enthusiasm and energy, work to enhance the site. They run education and site based events to encourage use of the woodland. Anyone with an environmental or community interest is welcome. Email: secretary@friendsofcollierswood.org.uk Telephone: 0115 938 5101 Website: www.friendsofcollierswood.org.uk



Facilities & Events

Site facilities include picnic tables and seats along the footpaths, a pond dipping platform and the community wheel activity space. These facilities can be used by schools and community groups for educational or social activities. The Friends of Colliers Wood organise a series of site based events throughout the year. These have included, live performances, dog shows and volunteer conservation days. To find out more information, contact the Friends (see details below).

Information for Disabled Visitors

The site contains a variety of walks, with some accessible seating provided along the paths. For up to date information please refer to the contact details below.

Please Help Look After This Site

- No horses/cycles/motorcycles.
- Take your litter home.
- Do not disturb nesting birds or other wildlife.
- Use the dog bins provided.
- Keep dogs on leads and out of ponds and copses.
- Do not light fires.
- Do not paddle, fish or swim in the ponds.

Further Information, Site issues

More information about Colliers Wood can be found at www.broxtowe.gov.uk. To report any problems please contact Broxtowe Borough Council on 0115 917 7777.

Acknowledgments


The photographs used in this booklet have been kindly provided by Geoff Caidwell (Wildlife) and Anthony Kirby (Mining Heritage).

The woodland is open to the public at all times.

How to find Colliers Wood


Situated in the north of the Borough of Broxtowe, Colliers Wood is located just off the B600 on Engine Lane on the edge of the village of Moorgreen. Junctions 26 and 27 of the M1 give easy access to the site.

Colliers Wood is close to other attractions including D.H Lawrence Birthplace Museum in Eastwood, Beauvale Priory and Moorgreen Reservoir.




Colliers Wood

Local Nature Reserve



An attractive woodland arising from an industrial past in the beautiful Borough of Broxtowe



Wetlands
 One of the attractions of Colliers Wood is its large pond, a fast disappearing wildlife habitat. With its shallow edges fringed with reeds and Yellow Flag, it provides a home for frogs, toads and the larvae of dragon and damselflies. As well as the main pond, scarce resources such as drainage ditches and wetlands have been created, providing different depths of water and bog, ideal for a non-community of aquatic species. The main pond has Moorhens, Mallards, Mute Swans, Cods, Mandarin Duck with the occasional Tufted Duck. A Grey Heron may also be seen feeding. The wakerole, an increasingly rare species, has been spotted in the drainage ditches on the site.

Woodlands and the edges
 The mixed deciduous copses at Colliers Wood contain mainly Oak, Birch and Alder, with additional tree species such as Rowan, Hazel, Willow, Scots Pine and Larch. These, together with the shrubs, Hawthorn, Guelder Rose, Dog Rose and Holly provide food and shelter for a wide range of insects, birds and mammals. The meadows adjacent to the copses provide open sunny spots for many wildflowers and butterflies to thrive. Small birds at the site such as Meadow Pipit, tit and warblers, attract kestrels, Buzzards, Sparrow Hawks and Tawny Owls that can often be seen hunting over the woodland.

Community Woodland
 Colliers Wood, created between 1897 and 1998, on the site of the former Moorgreen Colliery is a community woodland that forms part of the Greenwood Community Forest.

Spring and Summer
 Grey Partridge and Common Pheasant emerge from the copses to feed in the meadows. Common Blue, Large White and Tortoiseshell butterflies fly in the sunny meadows with Galkkeepers and Meadow Browns along the woodland edges. During your visit you may hear a Skylark singing high above the meadows, see a Willow Warbler along the woodland edges or spot a Green Woodpecker flying low across the paths.

Autumn and Winter
 In the autumn and winter months the berry bearing trees and shrubs provide rich pickings for flocks of Redwing, Mistlethrush and Fieldfare. In addition, the seedheads of the wildflower meadows provide a valuable source of food for flocks of Goldfinches and other seed-eating birds. The presence of other woodlands nearby and the large number of fruit bearing trees in the woods means that there is always a possibility of something unusual visiting the site, particularly when the weather is cold.

Walks around Colliers Wood

- Barter Trail - 17km - 35 to 50 minutes**
 This trail takes you alongside the woodlands, hedgerows and meadows of the site and provides views of neighbouring fields before returning to the main pond via Engine Lane's avenue of Limes. Listen out for Willow Warblers and Chiffchaffs in the Spring or Goldfinches feeding in the Autumn. Galkkeeper or Speckled Wood butterflies may be seen along the trail in Summer. With links to other public footpaths it can easily form part of a longer walk. Please note Engine Lane is a public highway adjacent to the site.
- Walker Trail - 8km - 20 to 30 minutes**
 A short circular walk that takes you to the pond and dipping platform, up through the meadows and past the woodlands. Look out for House Martins at the pond or a Skylark over the meadows in spring. Insects such as Common Darter dragonflies may be spotted in summer. The walk can be shortened by taking the path to the left from the car park, past the auditorium. Choosing the mown path to your left takes you across one of the meadows where you rejoin a path back to the car park.

Legend:

- Woodlands
- Roads
- Wetland
- Surface and Paths
- Mown Grass Path
- Water
- Dipping Platform
- Activity Space
- Community Woodland

Landmarks: Eastwold Town Centre and Old Lawrence Birthplace Museum, Moorgreen Industrial Park, Engine Lane, Car Park, Broad Meadow Ball, St Peter's Church, Barrowfield Primary, Northon Reservoir.

Images: Small inset images show a butterfly on a purple flower, a pond with a duck, a pond with a heron, a pond with a duck, and a pond with a duck.

Appendix 10 – Flyers

a) Companion Dog Show

COMPANION DOG SHOW
at Colliers Wood, Moorgreen
NG16 3QU
Sunday 5th August

Breed & Novelty classes
Registration from 11.00am Judging starts at midday

Jackie DeLong- Dancing with Dogs
Stalls, hot food, **Games**
Agility Course & Re-call
Courtesy of Broxtowe Neighbourhood Wardens

ice cream, drinks
Obedience Demonstration
Responsible Ownership Certificate testing

Details available from Margaret Sutcliffe
Tel. 01773 603692 or 07917 854486
Registration form & class schedule available from:
www.friendsofcollierswood.org.uk

In Aid of **Dogs for the Disabled**
Registered Charity No. 1042200

FRIENDS OF COLLIERS WOOD

b) Bird Walk

BIRD WALK
at Colliers Wood, Moorgreen

Identify winter visitors and year round birds by sight and sound

Sunday 4th November
10.00 - 12.30am

Walk leader
CHRISTOPHER HALL
top bird guide from Eastwood

After the walk, Chris will give a review of the birds seen at the Horse & Groom. For more information on the activities and events that Chris organises, visit www.newhorizonsonline.co.uk

Attendance number is limited
Please reserve places by contacting the Friends

To reserve a place, please call 0115 938 5101 or email:
secretary@friendsofcollierswood

A FREE Community Event
Part of the 'Fun with Learning' program.
Children under 16 years
must be accompanied by an adult.



d) Family Pond Dipping

Pond Dipping Day for family groups

@ Colliers Wood, Engine Lane, Moorgreen

Sunday 10th June

starts at 10.30am, closes at 3.00pm

ALL CHILDREN UNDER 16 YEARS MUST BE ACCOMPANIED
Nets and trays will be available for your use. Please bring your own pen/pencil and note book and ensure children are suitably dressed.

FRIENDS will be there to help.

There is no charge for taking part.

Equipment must be returned in good condition or replaced.

**a Community
Event**

Part of the FoCW
'Fun with Learning'
program

FRIENDS OF
COLLIERS
WOOD



f) Colliers Wood Prom

THE D.H. LAWRENCE
* FESTIVAL *
OF CULTURE

Broxtowe
Borough
COUNCIL

Colliers Wood Prom

Date: Sunday 18th September
Time: 3pm – 6pm (Gates open at 2pm)
Location: Colliers Wood Nature Reserve,
 Moorgreen, Nottingham NG16 3QU

Bring your picnic, rug or some chairs and join us for an afternoon of live music performances from various artists including the Nottingham Symphonic Orchestra and Composer Luca Natali Stradivari (descendent of Antonio Stradivari) and Jeanie Barton and her band

Parking is available on site weather permitting; alternatively there will be free parking along Engine Lane.

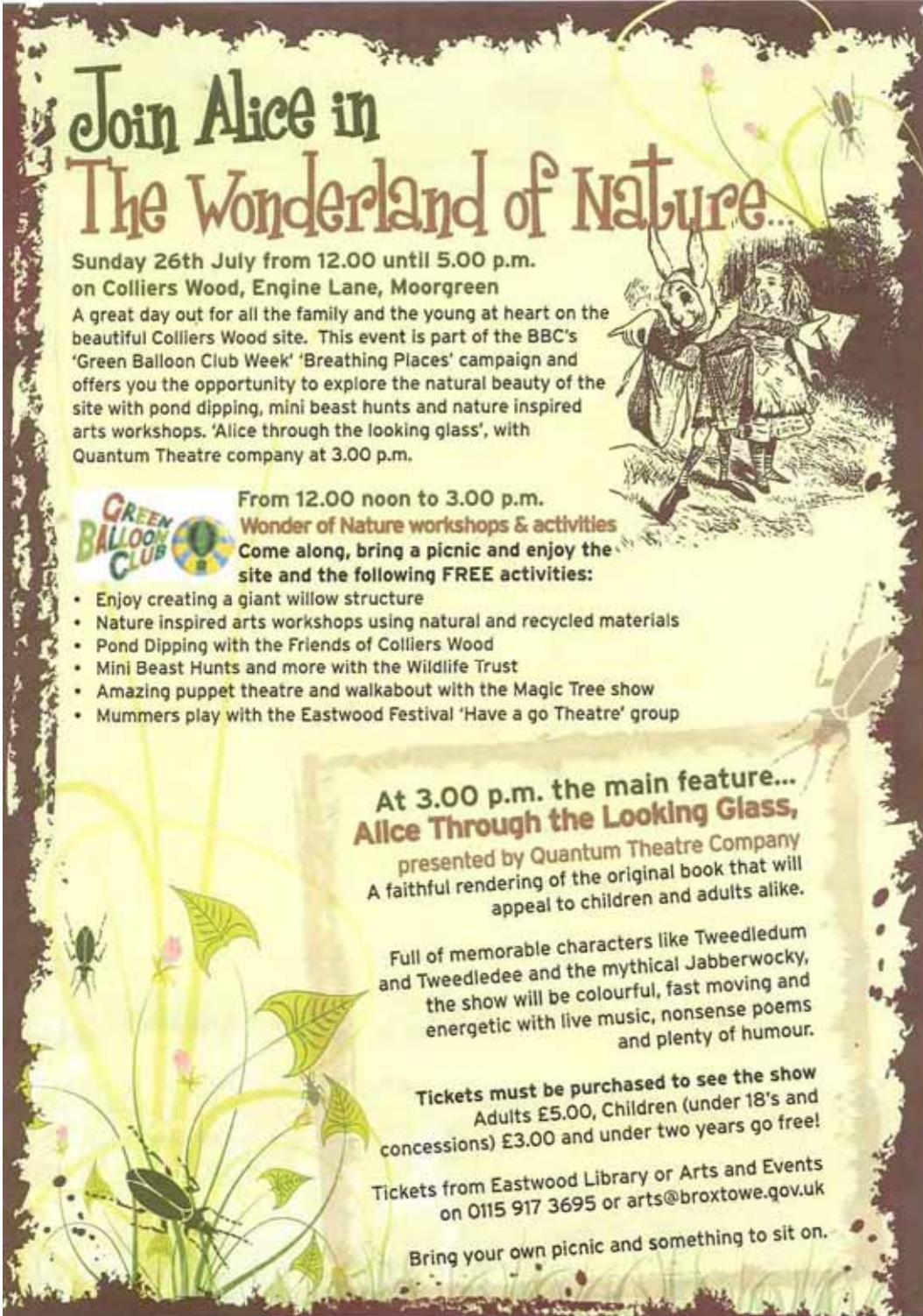
PROMS TICKET PRICES
 ADVANCED Single ticket £6
 ADVANCED Double Ticket £10
 On the Gate: Single Tickets £8
 Under 16's will be Free

To purchase your ticket or for more information contact Broxtowe Events
 t: 0115 917 3695 e: events@broxtowe.gov.uk
 W: www.broxtowe.gov.uk/broxtoweevents

NB: Be prepared for all weather as all performances are outdoors.

Broxtowe Events
 Broxtowe Borough Council


g) Alice in the Wonderland of Nature



Join Alice in The Wonderland of Nature...

Sunday 26th July from 12.00 until 5.00 p.m.
on Colliers Wood, Engine Lane, Moorgreen

A great day out for all the family and the young at heart on the beautiful Colliers Wood site. This event is part of the BBC's 'Green Balloon Club Week' 'Breathing Places' campaign and offers you the opportunity to explore the natural beauty of the site with pond dipping, mini beast hunts and nature inspired arts workshops. 'Alice through the looking glass', with Quantum Theatre company at 3.00 p.m.

 From 12.00 noon to 3.00 p.m.
Wonder of Nature workshops & activities
Come along, bring a picnic and enjoy the site and the following **FREE** activities:

- Enjoy creating a giant willow structure
- Nature inspired arts workshops using natural and recycled materials
- Pond Dipping with the Friends of Colliers Wood
- Mini Beast Hunts and more with the Wildlife Trust
- Amazing puppet theatre and walkabout with the Magic Tree show
- Mummies play with the Eastwood Festival 'Have a go Theatre' group

**At 3.00 p.m. the main feature...
Alice Through the Looking Glass,**
presented by Quantum Theatre Company
A faithful rendering of the original book that will appeal to children and adults alike.

Full of memorable characters like Tweedledum and Tweedledee and the mythical Jabberwocky, the show will be colourful, fast moving and energetic with live music, nonsense poems and plenty of humour.

Tickets must be purchased to see the show
Adults £5.00, Children (under 18's and concessions) £3.00 and under two years go free!

Tickets from Eastwood Library or Arts and Events
on 0115 917 3695 or arts@broxtowe.gov.uk

Bring your own picnic and something to sit on.

h) Colliers Wood Canter



Colliers Wood Canter
3K or 5K Run

Every Second Saturday of the Month

First Run: 15th February

All abilities welcome!

FREE timed runs hosted by Kimberley and District Striders Running Club

9am Start!

Visit www.kadsrunning.co.uk



i) Duathlon Poster

The poster features a green top section with a circular badge on the left that says "Leisure members get £5 off entry price! Enter code Dua5". The main headline reads "WHY WOULDN'T YOU... RUN BIKE RUN?". Below this is a logo for "Sandycl... MOORGREEN DUATHLON FAMILY FUN RUN" with silhouettes of a runner, a child, and a cyclist. The event is described as "A chip timed cycling and running event for competitors aged 15 years plus." Two categories are listed: "BEGINNERS" (2K RUN, A 8K BIKE RIDE AND A 1K RUN) and "CHALLENGE" (4K RUN, A 15K BIKE RIDE AND A 2K RUN). The event is held at "Colliers Wood" on "Sunday 14th October" with "Races start from 9am". Entry starts from £14.00 per competitor, with a deadline of 11th October. A "2k FUN RUN" medal is shown with details: "Adults and Children Starts @ 12pm £4 per person". The Leisure logo is at the bottom left, and contact information (0115 917 3691, www.leisure.co.uk/events) is at the bottom right.

Leisure members get £5 off entry price! Enter code Dua5

WHY WOULDN'T YOU... RUN BIKE RUN?

Sandycl... MOORGREEN DUATHLON
FAMILY FUN RUN

A chip timed cycling and running event for competitors aged 15 years plus.

BEGINNERS	CHALLENGE
2K RUN, A 8K BIKE RIDE AND A 1K RUN.	4K RUN, A 15K BIKE RIDE AND A 2K RUN.
	TEAM RELAY OPTION AVAILABLE.

Colliers Wood
Sunday 14th October
Races start from 9am

Entry starts from £14.00 per competitor. Deadline for entry is 11th October
Visit website for more information www.leisure.co.uk/events

BOOK NOW <https://www.stuweb.co.uk>

2k FUN RUN
Adults and Children
Starts @ 12pm
£4 per person

leisure Events
0115 917 3691
www.leisure.co.uk/events

j) Ten Great Things To Do At Colliers Wood



Broxtowe
Borough
COUNCIL

CELEBRATING 10 YEARS AS A GREEN FLAG AWARD WINNING LOCAL NATURE RESERVE

Thanks to everyone who helps keep Colliers Wood a great place for you to visit and enjoy.

Try these ten great things to do at Colliers Wood

- 1 Take a walk around the site
- 2 Have a go at pond dipping
- 3 Relax and chat to others at the Community Wheel
- 4 Enjoy a picnic in an attractive location
- 5 Take part in the monthly Colliers Wood Canter
- 6 Attend the Sunrise Service on Easter Sunday
- 7 Take part in or visit one of the events on the site
- 8 Enjoy a walk with your dog
- 9 Delight at the trees seasonal changes and autumn colours
- 10 Look to join the Friends of Colliers Wood



Green
Flag
Award

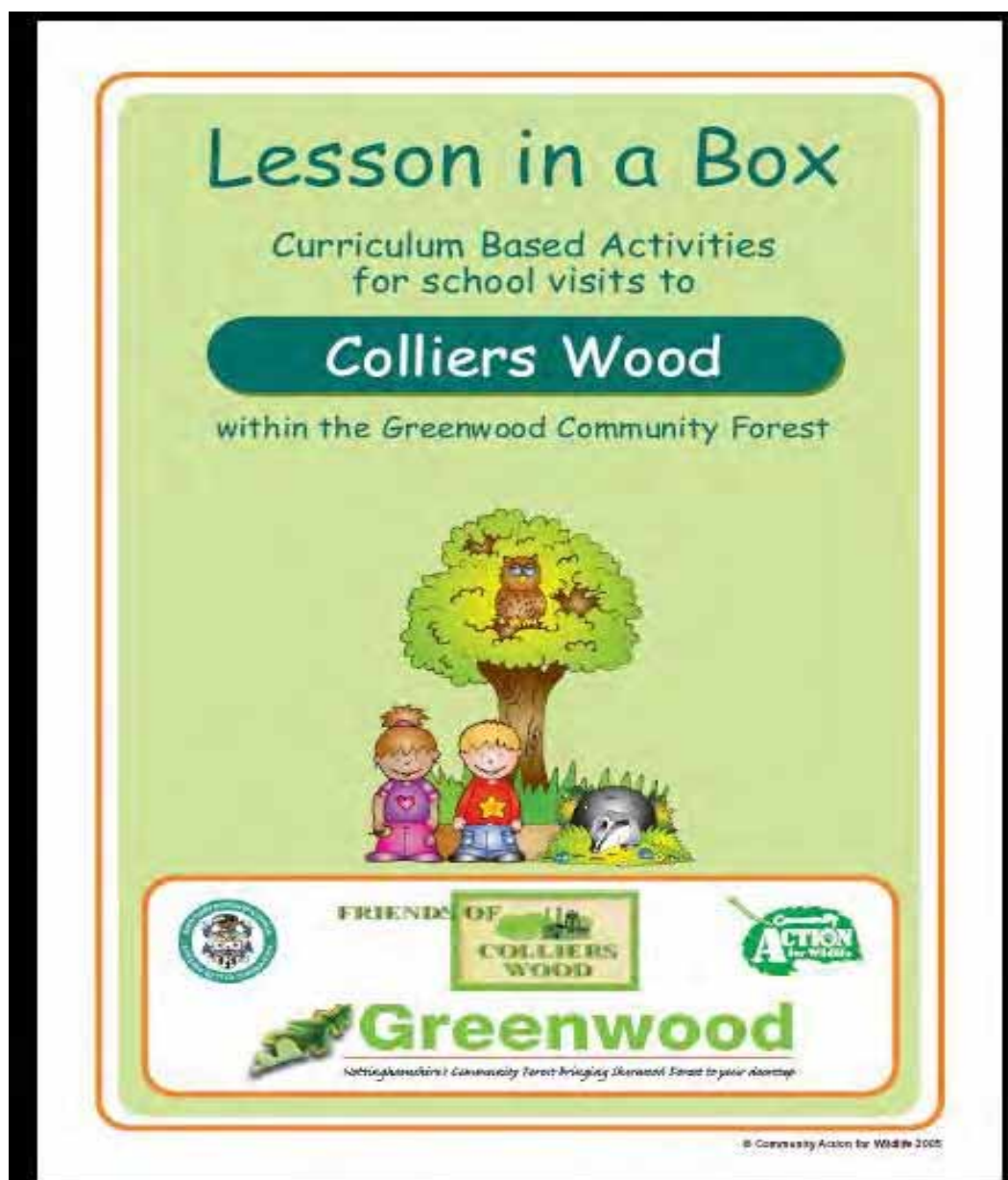


www.broxtowe.gov.uk

Appendix 11 – Lesson in a Box

Detailed on the following pages are the opening 2 sheets from the Lessons in a Box publication. In total there are 5 parts:-

- a) Part 1 – Description of the activity kit
- b) Part 2 – An introduction for teachers and leaders
- c) Part 3 – Teacher Lesson Planning Guide
- d) Part 4 – Safety Guidelines
- e) Part 5 – Activity Sheets



Welcome To Lesson in a Box

This activity kit has been designed for use with groups of children in the outdoors to help enrich their knowledge of the environment and their local area. The activities are linked to the National Curriculum and QCA documents but are equally valuable for groups not working to these targets. The resources have been designed to be accessible to all teachers and group leaders most of whom will not be environmental education specialists.

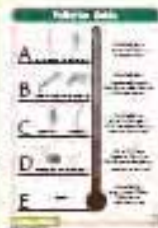
The activities are designed to support the curriculum while providing a wide variety of experiences which are easy to follow and fun to do. The activities can be linked to form a daily programme or used individually to complement existing subject planning.

Included in the activity sheets:

- A description of suggested activities
- What you will need for each activity
- Instructions on how to do the activities
- Ideas for further work
- Photocopiable sheets related to the activities



The activities can be used with KS1 and KS2 pupils. The Teacher Lesson Planning Grid links all of the activities to the National Curriculum and QCA documents and shows learning outcomes and resources needed. It is intended that this grid will complement subject planning structures in schools.



Although the aim is that groups self-lead their activities, some INSET training and on site support is available and is outlined in An Introduction for Teachers and Leaders included in this kit. It is intended that this publication will provide the information required by leaders when organising a visit to Colliers Wood.

Also included in this pack is Safety In Groups Guidelines. This includes advice on safety policies, codes of practice and risk assessments for schools visiting Colliers Wood, covering the health and safety aspects of organising a visit to a non- LEA site. Further advice on risk assessments and copies of activity specific and site specific risk assessments are available from the Broxtowe Borough Council, Tel: 0115 9177777.



Appendix 12 – Sample Minutes of the Friends of Colliers Wood Meetings

FRIENDS OF COLLIERS WOOD

NOTES OF MEETING HELD AT GREASLEY S&C HALL, WEDNESDAY 10TH OCTOBER 2018

Present: M Fletcher; A Cooke; M Turner; J Smith; D Hill; G Caldwell; R Turner
Apologies received from: M Sutcliffe
12.09.18 meeting notes- accepted as recorded.

EVENTS AND MARKETING

Winter Woodland Celebration task schedule reviewed. Poster content adjusted for event activities. Start at 11.00hr and complete at 13.00hrs agreed. Grotto charge confirmed. MargaretT will organise purchase and wrapping of Santa's presents. Santa's post bag for children's letters will be in the Grotto. Doorstep Nature to be invited.

This year's Notts Bag forum will be on Wednesday 28th November. Subject is Wetlands. Places need pre-booking. Contact secretary for bookings.

David Godard is given a talk, Dragonflies and Damselflies, on 24th October for Millennium Green Trust at St Edmunds Church, Mansfield Woodhouse. Free entry by ticket.

ADMINISTRATION & FINANCIALS

Collections at Tesco Express on 13th/14th October. MargaretT sorted staffing. Normal handouts.

SITE MANAGEMENT, MAINTENANCE AND PROJECTS

Friends reviews of draft of the Community Wheel Activity Space interpretation board artwork discussed in detail from new layout drafts. Content to be reconsidered prior to final layout proposal.

Edge of board frame protected for safety.

Site viewing of chosen trial copse edge scallop location to be arranged prior to work commencing.

Bird feeding area rope and feeders installed. May require tightening.

The paving slab supports to the second dipping platform are to be relocated.

Loosely installed steel post previously adjacent to the dipping platform is now in the pond.

Possible installation of a light system in container to be researched.

ANY OTHER BUSINESS

- FoCW Christmas fuddle to be on a December Wednesday.
- Trying afternoon meetings in lieu of the evening meetings was raised as a possibility.
- The possibility of a drinking water fountain being provided at the site was raised.

THE NEXT MONTHLY MEETING WILL BE AT GREASLEY SPORTS AND COMMUNITY HALL ON WEDNESDAY 14TH NOVEMBER, 2018

R Turner 12.10.18 tel 0115 938 5101

secretary@friendsofcollierswood.org.uk

Appendix 13 – Press Releases



News Release

Issue Date: 24 07 2018

TEN AWARD WINNING YEARS AT COLLIERS WOOD

MAYOR OF THE BOROUGH of Broxtowe, Councillor Derek Burnett BEM joined The Friends of Colliers Wood, along with Officers from the Council's Parks Team to celebrate its 10th consecutive Green Flag award.

Green Flags are awarded in recognition of good maintenance standards, strong community involvement and appropriate facilities at parks and open spaces across the Country.

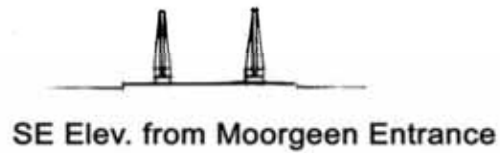
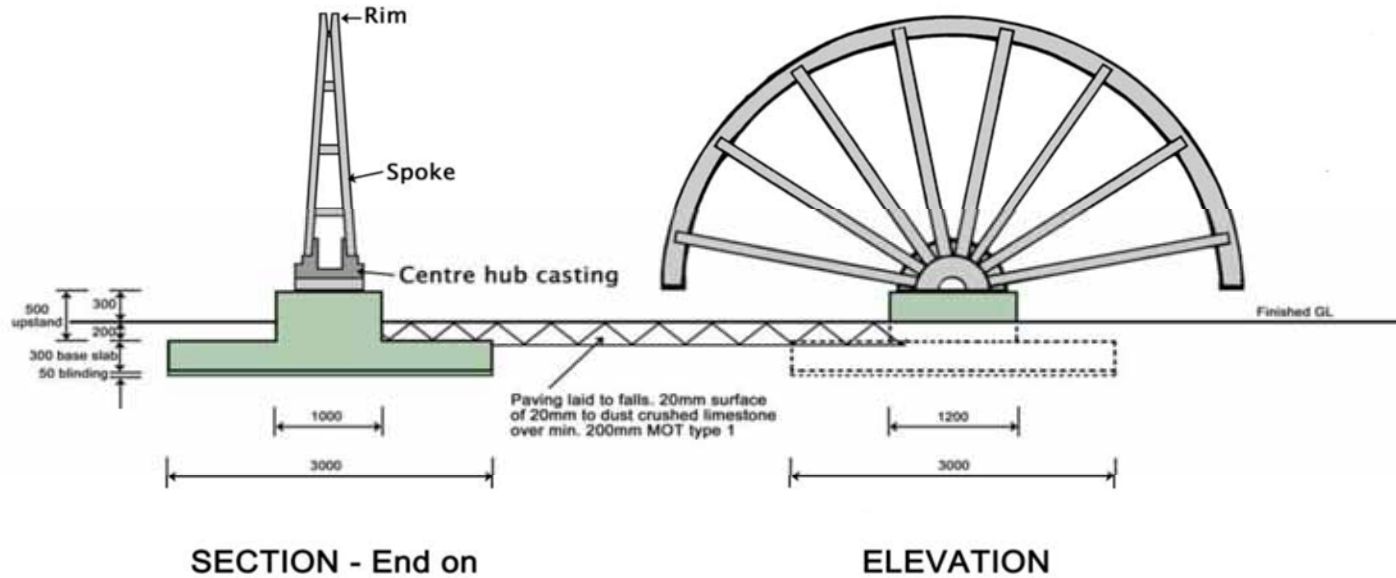
Chair of the Leisure and Environment Committee, Councillor Shane Easom said: "I'm so proud that we have retained the Green Flag award at Colliers Wood for the 10th consecutive year, along with retaining all of our other Green Flags in the Borough.

We launched our Pride in Parks scheme earlier in the year and this year's Green Flag Awards go to show that we really do take pride in our Boroughs parks and open spaces."

To celebrate, the Council has also produced a list of 'Top Ten' things to do at Colliers Wood to help families enjoy the site throughout the year.

The Borough Council is also celebrating retaining the Green Flag at Bramcote Hills Park, and the borough's Community Green Flag sites at Brinsley Headstocks, Alexandrina Plantation/Sandy Lane Open Space and Bramcote Old Church Tower.

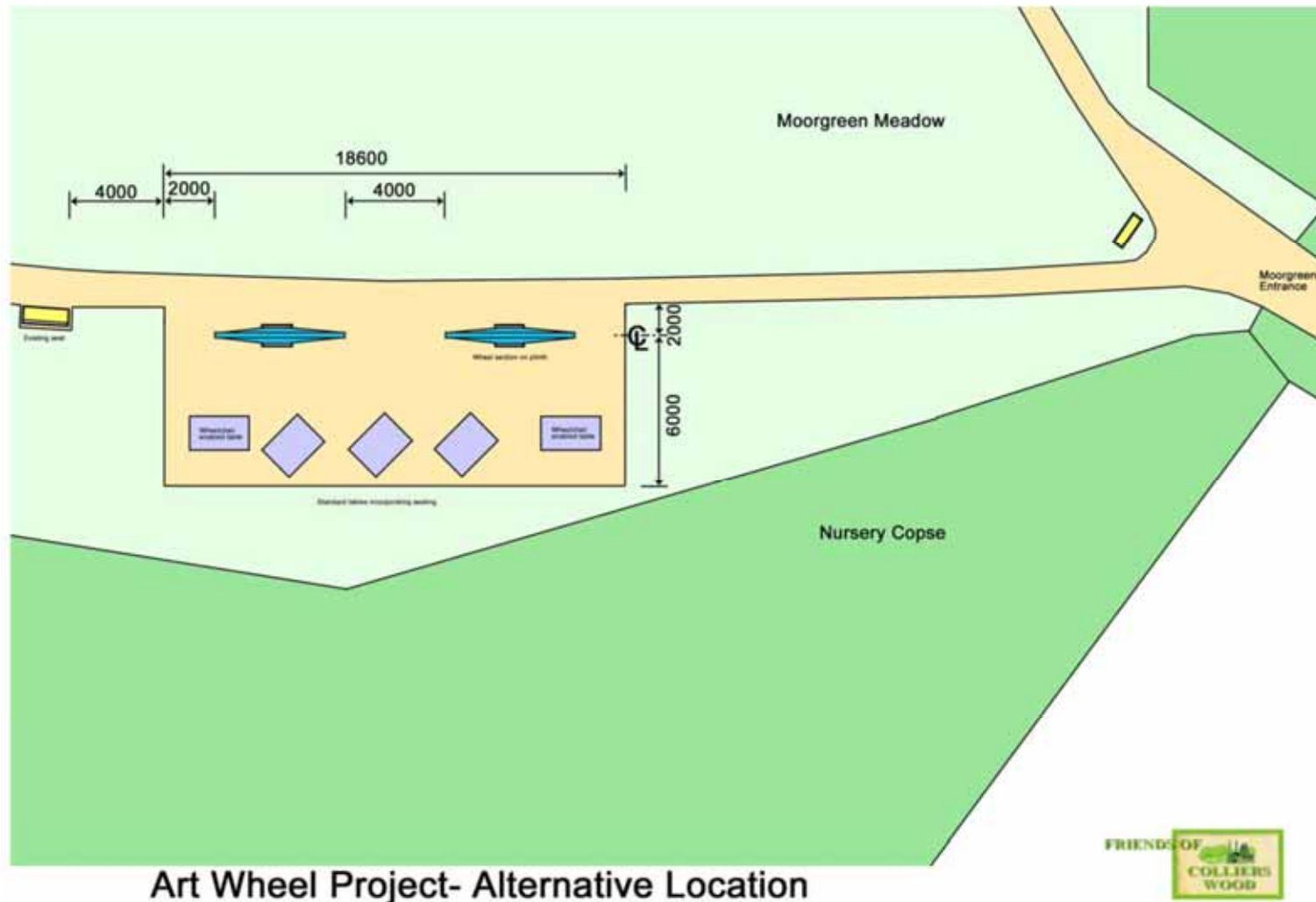
Appendix 14a – Community Wheel Activity Space Project Design Drawings



Art Wheel Canvas Project at Colliers Wood
 Drawing No: AW16-4

April 2016





Appendix 14b – Community Wheel Activity Space Project - Installation









Appendix 15 – Outdoor Theatre at Colliers Wood



Outdoor Theatre

2011

The Rain or Shine Theatre company revisited Colliers Wood and were welcomed by a sell-out audience who enjoyed a fantastic performance of *Much Ado About Nothing*. The event has now become a much anticipated date in many local people's diaries. The picnics become more elaborate every year, while people enjoy meeting with old friends and neighbours, enjoying a high-quality theatre as the sun sets.

2012

This year saw another Shakespeare production, this time 'As You Like It'. Once again it was very well received with jesters, philosophers, wenches and shepherds.

On Saturday, 1 July as a musical celebration of the Olympic year and to make the link between the 2008 Olympics in Beijing and Broxtowe, an outdoor concert was planned for the site. Visitors were encouraged to bring a picnic and listen to an afternoon of relaxing music to celebrate the beginning of the Olympics. The programme included Chinese Whispers a 5-piece ensemble of classically trained Chinese musicians to be followed by the Nottingham Concert Band performing a range of popular and classical anthems linked to sport and music. Unfortunately, the non-stop rain in Summer 2012 meant that at the last minute the concert had to be moved to nearby Durban House, where it took place on the large tarmac car park.

2013

Once again it was a Shakespeare production. This time it was 'The Comedy of Errors'

2014

Saw a move away from Shakespeare with Robert Louis Stevenson's 'Treasure Island'.

2015

For the first time in 7 years there was no evening theatre production. A review of the event was undertaken by the Arts Development Team and the Friends of Colliers Wood.

2016

Following the review the event was relaunched with "A Mid Summers Night Dream". The event was moved to a Friday evening and proved to be a success.

2017

A wet and rainy night saw a production of Twelfth Night. Despite the weather there was still a reasonable turn out and the event was once again well received.

2018

For the first time the site was used for an outdoor film screening with "The Greatest Showman" being the peoples' choice. This proved to be a huge success and further screenings are proposed for 2019.

2019

Following the success of the outdoor film screening in 2018 this type of event was repeated with a showing of Mama Mia.

2020

Event cancelled due to COVID-19.

Appendix 16 – Scarecrow Event at Colliers Wood

The Moorgreen Residents Association has, for several years, successfully organised scarecrow days to coincide with the Greasley Gathering event. This has resulted in an impressive display in residents' front gardens. The Greasley Gathering is held on the Spring Bank Holiday.

In 2015 the Friends extended this initiative with a themed display at Colliers Wood.

The theme for 2015 was Alice in Wonderland.

Scarecrows were erected adjacent to a footpath at the entrance to the site. Most remained for many days after the event.

The scarecrows were identified by a poster depicting its name/character, and the name of the organisation, team or individual creating it.

Greasley Gathering has a free bus service continually touring the parish on the event day. The bus stopped at Colliers Wood allowing passengers to alight and look at the scarecrow displays.

The event was a huge success and was repeated in 2016 with the theme of "Horrible Histories".

In 2018 the Greasley Gathering decided to use Colliers Wood again, this time for a "Miners Cave" for people to crawl through. This was in a vehicle located on the car park. This was undertaken working closely with the Friends of Colliers Wood.



Alice in Wonderland Scarecrow Event

Appendix 17 – Outdoor Sport at Colliers Wood

The Duathlon was the first sports event run at Colliers Wood and the first in the Borough of Broxtowe.

The event has evolved over time since its introduction in 2010. There is now a beginner's event with a 2k run, an 8k bike ride ending with a 1k run. The challenge event comprises a 4k run, a 15k bike ride and a final 2k run. The events are targeted at competitors of all ages and ability over 15 years of age with the running taking place on the site and the cycling on local roads.

The event is oversubscribed each year with a waiting list. It has always been a huge success and attracts many favorable comments.

"The best thing about both Broxtowe events was that they are totally inclusive, which encourages athletes of all standards to have a go which is excellent. It was great to see so many people having a go at sports that can sometimes appear intimidating."

"Well organised, great route and fab weather! It was the first time I have done a duathlon and already I can't wait until next year's event!"

"I thought you organised a great event this morning. I really enjoyed it. Nice park to run in and the bike route was challenging. The marshals were great and plenty of signage."

"Brilliant race, well organised, great marshalls and a lovely venue. We will be back next year."

"My daughter just completed the junior duathlon today. I'd just like to compliment you on a brilliantly organised event, in particular the briefing and warm up at the beginning was just perfect and a brilliant idea. It was her first duathlon and she really enjoyed it, can't wait for next season."

The latest sporting addition is the Colliers Wood Canter which takes place on the second Saturday of every month offering the option of a 3K or 5K run. It is managed by the Kimberley and District Striders.

<http://www.kadsrunning.co.uk/collierswoodcanter.html>

Appendix 18 – Biodiversity Recordings

Colliers Wood sits on the upper coal measures at the foot of the magnesian limestone ridge. Streams and brooks run westward from this escarpment in the general direction of the site area. It was recognized that potential exists for inward migration of species from this limestone area, even though the soil conditions are radically different and support different habitats.

Formal identification of species present, started within a year of landscaping completion. Initially the work confirmed the known introduced species of trees and shrubs, some of the grasses, rush and reeds and the emergent wildflowers that had been seeded and planted in plug form. This work picked up the additional flora species arising from nursery errors and the limited flora from areas unaffected by the open-cast mining operation.

Initially, frequent full site surveys were undertaken to recognize the speed of establishment of inward migrants. This provided some guidance on the nature of the developing habitats. With subsequent modifications to the management of meadow areas and the gradual development of copse canopies, the inflow from the adjacent landscapes has continued. Full site surveys are now only made periodically. However, regular feedback from site users helps confirm species on an ad-hoc basis. Additionally, whenever possible, we utilize voluntary specialists to survey specific families. These have included insects, amphibians, reptiles, aves and fungi.

Frequency of predator sightings implies a significant increase in the population of small mammals. Some confirmation has been gained from the introduction, in 2012, of a transect of refuge mats. This transect surveying is aimed at establishing reptile presence; but all species seen will be recorded.

For long term progress monitoring of the most significant habitats, a full species belt transect is being established. This will be 40m long and will include close canopy copse, ditch, copse perimeter, annual cut meadow and frequently cut meadow habitats. Surveys will be twice yearly.

Copses have been surveyed using the standard classifications. This was aided by Castle College students undertaking transect line habitat surveys of the largest copse. Copse surveys will continue to monitor the under-storey developments and the progress of 'no interference' management of two copses.

The poorly drained clays, shale and coal washing detritus that constitutes the upper levels of the fill material, has resulted in variable growth of some sections of copse and meadow. Together with the uneven settlement of the fill material, these soil conditions have led to the development of several very small pockets of different habitats. The Friends intend to identify these habitat types using accepted definitions and observe any species specifically associated with each.

Periodically, records are sent to the Nottinghamshire Biological and Geological Records Centre and to Nottinghamshire BAPS.

Appendix 19 – Biodiversity Recordings Undertaken by Friends of Colliers Wood

Indicators referring to biodiversity listings:

¹ denotes species on the UK Biodiversity Action Plan List of Priority Species & Habitats (August 2007)

^C denotes species on Notts. LBAP List of Species of Conservation Concern – species that are rare or declining in the County; species identified as being priorities for local people or characteristic of the County.

^R denotes birds on RSPB Red List

^A denotes birds on RSPB Amber List

Plantea – trees and shrubs

Common Name	Latin Name
Alder, common	<i>Alnus glutinosa</i>
Alder, grey - Italian	<i>Alnus incana</i>
Apple, crab	<i>Malus sylvestris</i>
Apple, cultivated	<i>Malus domestica</i>
Ash	<i>Fraxinus excelsior</i>
Aspen	<i>Populus tremula</i>
Birch, downy	<i>Betula pubescens</i>
Birch, silver	<i>Betula pendula</i>
Bird Cherry	<i>Prunus padus</i>
Blackthorn	<i>Prunus spinosa</i>
Bramble	<i>Rubus fruticosus</i>
Broom	<i>Sarothamnus scoparius</i>
Buckthorn, alder	<i>Frangula alnus</i>
Cherry, wild	<i>Prunus avium</i>
Dogwood	<i>Cornus sanguinea</i>
Elder	<i>Sambucus nigra</i>
Gorse	<i>Ulex europaeus</i>
Hawthorn	<i>Crataegus monogyna</i>

Common Name	Latin Name
Hazel	<i>Corylus avellana</i>
Holly	<i>Ilex aquifolium</i>
Larch, European	<i>Larix decidua</i>
Lime, silver	<i>Tilia tomentosa</i>
Maple, field	<i>Acer campestre</i>
Oak, English	<i>Quercus robur</i>
Oak, sessile	<i>Quercus petraea</i>
Pine, Austrian	<i>Pinus nigra</i> subsp. <i>Salzmanii</i> var. <i>corsicana</i>
Rose, dog	<i>Rosa canina</i>
Rose, guelder	<i>Viburnum opulus</i>
Rowan (Mountain Ash)	<i>Sorbus aucuparia</i>
Scots pine	<i>Pinus sylvestris</i>
Sycamore	<i>Acer pseudoplatanus</i>
Willow, crack	<i>Salix fragilis</i>
Willow, goat	<i>Salix caprea</i>
Willow, grey	<i>Salix cinerea</i>
Yew	<i>Taxus baccata</i>

Plantea – wild flowers

Common Name	Latin Name
Anemone, wood	Anemone nemorosa
Betony	Betonica officinalis
Bedstraw, hedge	Galium mollugo
Bedstraw, yellow (Lady's)	Galium verum
Binweed, field	Convolvulus arvensis
Bindweed, larger	Calystegia sepium
Bluebell C	Endymion non-scriptus
Bracken	Pteridium aquilinum
Burdock, greater	Arctium lappa
Burnet, great	Sanguisorba officinalis
Burnet, salad	Sanguisorba mino
Butterbur	Petasites hybridus
Buttercup, creeping	Ranunculus repens
Buttercup, meadow	Ranunculus acris
Campion, white	Melandrium album
Carrot, wild C	Daucus carota
Cat's-ear, common	Hypochaeris radicata
Celandine, greater	Chelidonium majus
Celandine, lesser	Ranunculus ficaria
Centaury, common	Centaurium minus
Chickweed	Stellaria media
Chickweed, mouse- ear	Cerastium vulgatum
Chicory C	Cichorium intybus
Clover, alsike	Trifolium hybridum

Common Name	Latin Name
Clover, red	Trifolium pratense
Clover, white	Trifolium repens
Coltsfoot	Tussilago farfara
Comfrey	Symphytum officinale
Corn camomile	Anthemis arvensis
Corncockle	Agrostemma githago
Cornflower	Centaurea cyanus
Corn Marigold	Glebionis segetum
Cowslip C	Primula veris
Crane's-bill, meadow C	Geranium pratensis
Crocus –garden escape	Crocus
Daffodil –garden escape	Narcissus
Daisy	Bellis perennis
Daisy, ox-eye	Chrysanthemum leucanthemum
Dandelion	Taxaxacum officinale
Deadnettle, red	Lamium purpureum
Deadnettle, white	Lamium album
Devilsbit scabious	Succisa pratensis
Dock, broad-leaved	Rumex obtusifolius
Dock, curled	Rumex crispus
Dock, sharp	Rumex conglomeratus
Evening primrose, common	Oenothera biennis

Common Name	Latin Name
Feverfew	Chrysanthemum parthenium
Flag, yellow	Iris pseudacorus
Forgetmenot, common	Myosotis arvensis
Foxglove	Digitalis purpurea
Goats-beard	Tragopogon pratensis
Good King Henry	Chenopodium bonus-henricus
Goosefoot, white	Chenopodium album
Goosegrass	Galium aparine
Groundsel, common	Senecio vulgaris
Hawkbit, autumnal	Leontodon autumnalis
Hawkbit, rough	Leontodon hispidus
Hawk's-beard, smooth C	Crepis capillaris
Hawkweed, common	Hieracium vulgatum
Heather	Calluna vulgaris
Herb Bennett	Geum urbanum
Herb Robert	Geranium robertianum
Hogweed	Heracium spondylium
Honeysuckle	Lonicera periclymenum
Horsetail, common	Equisetum arvense
Ivy	Hedera helix
Knapweed, lesser	Centaurea nigra
Lady's bedstraw	Galium verum
Lady's mantle	Alchemilla vulgaris
Lady's smock	Cardamine pratensis
Loosestrife, purple	Lythrum salicaria
Lords and Ladies	Arum maculatum

Common Name	Latin Name
Lucerne	Medicago sativa ssp sativa
Lupin –garden escape	Lupinus polyphyllus
Mayweed, scentless	Tripleurospermum inodorum
Meadow-sweet	Filipendula ulmaria
Medick, black	Medicago lupulina
Melilot, common	Melilotus officinalis
Melilot, tall	Melilotus altissima
Melilot, white	Melilotus alba
Mugwort	Artemesia vulgaris
Mustard, black	Brassica nigra
Mustard, garlic	Alliaria petiolata
Mustard, hedge	Sisymbrium officinale
Nettle, red dead	Lamium purpureum
Nettle, stinging	Urtica dioica
Nightshade, black	Solanum nigrum
Nightshade, woody	Solanum dulcamara
Orchid, common spotted	Dactylorhiza fuchsii
Orchid, southern marsh	Dactylorhiza praetermissa
Ox-tongue, bristly	Picris echioides
Parsley, cow	Anthriscus sylvestris
Persicaria, spotted	Polygonum persicaria
Pimpernel, scarlet C	Anagallis arvensis
Plantain, greater	Plantago major
Plantain, hoary	Plantago media
Plantain. Ratstail	Plantago major
Plantain, ribwort	Plantago lanceolata
Poppy, field	Papaver rhoeas
Primrose	Primula vulgaris

Common Name	Latin Name
Ragged Robin	<i>Lychnis flos-cuculi</i>
Ragwort, common	<i>Senecio jacobaea</i>
Ramsons	<i>Allium ursinum</i>
Rattle, yellow	<i>Rhinanthus minor</i>
Reedmace, false bulrush	<i>Typha latifolia</i>
Self-heal	<i>Prunella vulgaris</i>
Shepherd's purse	<i>Capsella bursa-pastoris</i>
Skullcap, common	<i>Salvia pratensis</i>

Common Name	Latin Name
Snowdrop	<i>Galanthus nivalis</i>
Sorrel, common	<i>Rumex acetosa</i>
Sorrel, sheep's	<i>Rumex acetosella</i>
Sowthistle, common	<i>Sonchus arvensis</i>
Speedwell, field C	<i>Veronica persica</i>
Spurge, wood	<i>Euphorbia amygdaloides</i>
St. John's wort, common	<i>Hypericum perforatum</i>
Stitchwort, lesser C	<i>Stellaria graminea</i>

Plantea – Grasses – monocotyledons & pteridophytes

Common Name	Latin Name
Bent-grass, creeping	<i>Agrostis stolonifera</i>
Bulrush (Club-rush), (Common)	<i>Scirpus lacustris</i>
Cocksfoot	<i>Dactylis glomerata</i>
Couch grass, common	<i>Elymus repens</i>
Dogtail, crested	<i>Cynosurus cristatus</i>
Fescue, red	<i>Festuca rubra</i>
Field Wood-rush	<i>Luzula campestris</i>
Foxtail, marsh	<i>Alopecurus geniculatus</i>
Horsetail, common	<i>Equisetum arvense</i>
Meadow-grass, annual	<i>Poa annual</i>
Meadow-grass, rough	<i>Poa trivialis</i>
Meadow-grass,	<i>Poa pratensis</i>

Common Name	Latin Name
smooth	
Oat, wild	<i>Avenafatua</i>
Oat-grass, false	<i>Arrhenatheruml elatius</i>
Reedmace	<i>Typhalatifolia</i>
Rush, common spike	<i>Eleocharis palustris</i>
Rush, hard	<i>Juncus inflexus</i>
Rush, soft	<i>Juncus effusus</i>
Rye-grass, perennial	<i>Lolium perenne</i>
Sedge, glaucous	<i>Carex flacca</i>
Timothy	<i>Phleum pratense</i>
Tufted hair	<i>Deschampsia cespitosa</i>
Yorkshire fog	<i>Holcus lanatus</i>

Plantea – Fungi

Common Name	Latin Name
Bearded milkcap	Lactarius pubescens
Birch boletus	Leccinum scabrum
Blushing bracket	Daedaleopais confragosa
Brown Roll-rim	Paxillus involutus
Coral spot	Nectria cinnabarina
Field mushroom	Agaricus campestris
Fairies' bonnets	Coprinus disseminatus
Fly agaric	Amanita muscaria
Hairy curtain crust	Stereum hirsutum
Ink cap, glistening	Coprinus micaseus

Common Name	Latin Name
Ink cap, shaggy	Coprinus comatus
Puffball, pestle	Calvatia excipuliformis
Sepia brittlegill	Russula sororia
Sulphur tuft	Hypholoma fasciculare
Sycamore tarspot	Rhytisma acerinum
Veiled poisonpie	Hebeloma mesophaeum
Puffball, pestle	Calvatia excipuliformis
Sepia brittlegill	Russula sororia
Sulphur tuft	Hypholoma fasciculare
Sycamore tarspot	Rhytisma acerinum
Veiled poisonpie	Hebeloma mesophaeum

Rust & Powdery Mildews

Common Name	Latin Name
a rust fungi	Coleosporium tussilaginis
a powdery mildew	Erysiphe sordida
Birch Rust	Melampsorium betulinum
a rust fungi	Puccinia acetosae

Common Name	Latin Name
a rust fungi	Puccinia pulverulenta
Blackthorn Rust	Tranzschelia pruni- spinosa
Great Burnet Rust	Xenodchus carbonarius

Lichens

Common Name	Latin Name
a lichen	Arthonia radiata
a lichen	Cladonia chlorophaea

Common Name	Latin Name
a lichen	Cladonia furcata

Plantea – Bryophytes

Common Name	Latin Name
Moss	Leptodictium

Common Name	Latin Name
Moss	Rhytidiadelphus squarrosus

Vertebrates – Mammals

Common Name	Latin Name
Fox	Vulpes
Hare, brown ^{1 c}	Lepus europaeus
Mole	Talpa europaea
Rat, brown	Rattus norvegicus
Rabbit	Oryctolagus cuniculus

Common Name	Latin Name
Shrew, common ^c	Sorex araneus
Squirrel, grey	Sciurus carolinensis
Vole, bank	Clethrionomys glareolus
Vole, field	Microtus agrestis

Vertebrates – Reptilia and Amphibia

Common Name	Latin Name
Frog, common ^c	Rana temporaria
Newt, smooth ^c	Triturus vulgaris

Common Name	Latin Name
Toad, common ^{1 c}	Bufo

Vertebrates – Aves

Common Name	Latin Name
Blackbird ^{c A}	Turdus merula
Blackcap ^c	Sylvia atricapilla
Bullfinch ^{1cA}	Pyrrhula pyrrhula
Bunting, reed ^{1cA}	Emberiza schoeniclus
Buzzard, common ^c	Buteo buteo
Chaffinch	Fringilla coelebs
Chiffchaff ^c	Phylloscopus collybita

Common Name	Latin Name
Coot	Fulica atra
Crow, carrion	Corvus corone
Dove, collared	Streptopelia decaocto
Dove, stock ^c	Columba oenas
Duck, Mandarin	Aix galericulata
Duck, ruddy	Oxyura jamaicensis
Duck, tufted ^c	Aythya fuligula

Common Name	Latin Name
Dunnock ^{1 C A}	Prunella modularis
Fieldfare ^{C R}	Turdus pilaris
Goldcrest ^C	Regulus regulus
Goldfinch ^C	Carduelis carduelis
Goose, Canada	Branta canadensis
Goose, greylag	Anser anser
Greenfinch ^C	Carduelis chloris
Gull, black-headed	Larus ridibundus
Gull, common ^A	Larus canus
Heron, grey ^C	Ardea cinerea
Greenfinch ^C	Carduelis chloris
Gull, black-headed	Larus ridibundus
Gull, common ^A	Larus canus
Heron, grey ^C	Ardea cinerea
Hobby	Falco subbuteo
Jackdaw	Corvus monedula
Jay	Garrulus glandarius
Kestrel ^{C A}	Falco tinnunculus
Kingfisher ^C	Alcedo atthis
Lapwing ^{C R}	Vanellus vanellus
Linnet ^{1 C R}	Carduelis cannabina
Magpie	Pica pica
Mallard ^C	Anas platyrhynchos
Martin, house ^{C A}	Delichon urbica
Moorhen	Gallinula chloropus
Osprey	Pandion Haliaeetus
Owl, little	Athene noctua
Owl, tawny ^C	Strix aluco
Partridge, grey ^{1 C R}	Perdix perdix

Common Name	Latin Name
Partridge, red-legged	Alectoris rufa
Pheasant, common	Phasianus colchicus
Pipit, tree ^{1 C A}	Anthus trivialis
Pochard ^{C A}	Aythya ferina
Redpoll	Carduelis flammea
Redstart, common ^{C A}	Phoenicurus phoenicurus
Redwing ^R	Turdus iliacus
Robin	Erithacus rubecula
Rook	Corvus frugilegus
Siskin	Carduelis spinus
Skylark ^{1 C R}	Alauda arvensis
Snipe, jack ^C	Lymnocyptes minimus
Sparrow, house ^{1 C R}	Passer domesticus
Sparrowhawk ^C	Accipiter nisus
Starling ^C	Sturnus vulgaris
Swallow ^{C A}	Hirundo rustica
Swan, mute ^C	Cygnus olor
Swift ^A	Apus apus
Teal, Common	Anas crecca
Tern, Common	Sterna hirundo
Thrush, mistle ^A	Turdus viscivorus
Thrush, song ^{1 C R}	Turdus philomelos
Tit, blue ^C	Parus caeruleus
Tit, coal ^C	Parus ater
Tit, great ^C	Parus major
Tit, long-tailed	Aegithalos caudatus
Tit, marsh ^{1 C R}	Parus palustris

Common Name	Latin Name
Treecreeper, common	Certhia familiaris
Wagtail, grey ^{C A}	Motacilla cinerea
Wagtail, pied ^C	Motacilla alba
Warbler, garden ^C	Sylvia borin
Warbler, willow ^{C A}	Phylloscopus trochilus
Warbler, wood ^{C R}	Phylloscopus sibilatrix
Waxwing ^C	Bombycilla garrulus
Whitethroat, common ^{C A}	Sylvia communis
Whitethroat, lesser ^C	Sylvia curruca

Common Name	Latin Name
Woodcock ^{C A}	Scolopax rusticola
Woodpecker, greater	
spotted ^C	Dendrocopos major
Woodpecker, green ^{C A}	Picus viridis
Woodpecker, lesser	
spotted ^{1 R}	Dendrocopos minor
Woodpigeon	Columba palumbus
Wren	Troglodytes troglodytes
Yellowhammer ^{1 C R}	Emberiza citrinella

Invertebrates - Annelida

Common Name	Latin Name
Leech	Hemiclepsis marginata

Invertebrates – Arthropods – Insecta Lepidoptera

Common Name	Latin Name
<i>Barred Yellow</i>	Cidaria fulvata
<i>Blackneck C</i>	Lygephila pastinum
<i>Black Rustic</i>	Aporophyla nigra
<i>Blue, common</i>	Polyommatus icarus
<i>Blue, holly</i>	Celastrina argiolus
<i>Bright-line Brown-eye</i>	Lacanobia oleracrea
<i>Brimstone Moth</i>	Opisthograptis luteolata
<i>Buff Arches</i>	Habrosyne pyritoides
<i>Brown-spot Pinion</i>	Agrochola litura

Common Name	Latin Name
<i>Buff-tip</i>	Phalera bucephala
<i>Bulrush Wainscot</i>	Nonagria typhae
<i>Burnet Companion</i>	Callistege mi
<i>Canary-shouldered Thorn</i>	Ennomos alniaria
<i>Carpet, Flame</i>	Xanthorhoe designate
<i>Carpet, Garden</i>	Xanthorhoe fluctuata
<i>Carpet, Silver-ground</i>	Xanthorhoe montanata
<i>Chimney Sweeper</i>	Odezia atrata

Common Name	Latin Name
<i>Cinnabar 1</i>	<i>Tyria jacobaeae</i>
<i>Clay</i>	<i>Mythimna ferrago</i>
<i>Clouded Border</i>	<i>Lomaspilis marginata</i>
<i>Clouded Silver</i>	<i>Lomographa temerata</i>
<i>Comma</i>	<i>Polygonia c-album</i>
<i>Common Carpet</i>	<i>Epirrhoe alternata</i>
<i>Common Marbled Carpet</i>	<i>Chloroclysta truncate</i>
<i>Common Swift</i>	<i>Hepialus lupulinus</i>
<i>Common White Wave</i>	<i>Cabera pusaria</i>
<i>Copper Underwing</i>	<i>Amphipyra pyramidea</i>
<i>Dark Arches</i>	<i>Apamea monoglypha</i>
<i>Dart, Heart and</i>	<i>Agrotis exclamationis</i>
<i>Dart, Shuttle Shaped</i>	<i>Agrotis puta</i>
<i>Dingy Shell</i>	<i>Euchoeca nebulata</i>
<i>Elephant Hawk-moth</i>	<i>Deilephila elpenor</i>
<i>Fan-foot</i>	<i>Zanclognatha tarsipennalis</i>
<i>Flame</i>	<i>Axylia putris</i>
<i>Flame Shoulder</i>	<i>Ochropleura plecta</i>
<i>Flounced Rustic</i>	<i>Luperina testacea</i>
<i>Frosted Orange</i>	<i>Gortyna flavago</i>
<i>Garden Grass-veener</i>	<i>Chrysoteuchia culmella</i>
<i>Gatekeeper</i>	<i>Pyronia tithonus</i>
<i>Ghost Moth</i>	<i>Hepialus humuli humuli</i>
<i>Gold Spot</i>	<i>Plusia festucae</i>
<i>Grass Moth</i>	<i>Crambus pascciella</i>

Common Name	Latin Name
<i>Green Carpet</i>	<i>Colostygia pectinataria</i>
<i>Heath, small 1</i>	<i>Coenonympha pamphilus</i>
<i>Ingrailed Clay</i>	<i>Diarsia mendica mendica</i>
<i>Latticed Heath</i>	<i>Chiasmia clathrata</i>
<i>Lesser Broad Bordered</i>	
<i>Yellow Underwing</i>	<i>Noctua janthe</i>
<i>Lesser Swallow Prominent</i>	<i>Pheosia gnoma</i>
<i>Light Emerald</i>	<i>Campaea margaritata</i>
<i>Lime-speck Pug</i>	<i>Eupithecia centaureata</i>
<i>Magpie, Small</i>	<i>Eurrhynx hortulata</i>
<i>Micro-moth</i>	<i>Caloptilia stigmatella</i>
<i>Minor, Marbled agg</i>	<i>Oligia strigilis agg.</i>
<i>Minor, Middle-barred</i>	<i>Oligia fasciuncula</i>
<i>Meadow brown</i>	<i>Maniola jurtina</i>
<i>Mottled Beauty</i>	<i>Alcis repandata</i>
<i>Mottled Rustic</i>	<i>Caradrina morpheus</i>
<i>Orange-tip</i>	<i>Anthocharis cardamines</i>
<i>Painted Lady</i>	<i>Cynthia cardui</i>
<i>Pale-shouldered Brocade</i>	<i>Lacanobia thalassina</i>
<i>Peach blossom</i>	<i>Thyatira batis</i>
<i>Peacock</i>	<i>Inachis io</i>
<i>Peppered Moth</i>	<i>Biston betularia</i>
<i>Poplar Hawk-moth</i>	<i>Laothoe populi</i>
<i>Pyramid moth</i>	<i>Agriphila straminella</i>
<i>Pyramid moth</i>	<i>Agriphilatristella</i>
<i>Pyralid moth</i>	<i>Calamotropha paludella</i>

Common Name	Latin Name
<i>Pyralid moth</i>	<i>Udea olivalis</i>
<i>Red admiral</i>	<i>Vanessa atalanta</i>
<i>Red-green Carpet</i>	<i>Chloroclysta siterata</i>
<i>Riband Wave</i>	<i>Idaea aversata</i>
<i>Ringlet</i>	<i>Aphantopus hyperantus</i>
<i>Rosy Rustic</i>	<i>Hydraecia micacea</i>
<i>Sallow</i>	<i>Xanthia icteritia</i>
<i>Sallow, Barred</i>	<i>Xanthia aurago</i>
<i>Sallow, Orange</i>	<i>Xanthia citrigo</i>
<i>Scorched Wing</i>	<i>Plagodis dolabraria</i>
<i>Setaceous Hebrew Character</i>	<i>Xestia c-nigrum</i>
<i>Six-striped Rustic</i>	<i>Xestia sexstrigata</i>
<i>Skipper, small</i>	<i>Thymelicus sylvestris</i>
<i>Skipper, Large</i>	<i>Ochlodes venata</i>
<i>Small Dotted Buff</i>	<i>Photodes minima</i>
<i>Small Fan-foot</i>	<i>Herminia grisealis</i>
<i>Snout</i>	<i>Hypena proboscidalis</i>
<i>Speckled wood</i>	<i>Pararge aegeria</i>
<i>Square-spot, Double</i>	<i>Xestia triangulum</i>
<i>Square-spot, Rustic</i>	<i>Xestia xanthographa</i>
<i>Straw Dot</i>	<i>Rivula sericealis</i>

Common Name	Latin Name
<i>Tortoiseshell, small</i>	<i>Aglais urticae</i>
<i>uncertain</i>	<i>Hoplodrina alsines</i>
<i>Wainscot, Common</i>	<i>Mythimna pallens</i>
<i>Wainscot, Shoulder-striped</i>	<i>Mythimna comma</i>
<i>Wainscot, Smoky</i>	<i>Mythimna impura</i>
<i>White Ermine</i>	<i>Spilosoma lubricipea</i>
<i>White, green-veined</i>	<i>Pieris napi</i>
<i>White, large</i>	<i>Pieris brassicae</i>
<i>White, small</i>	<i>Pieris rapae</i>
<i>Willow Beauty</i>	<i>Peribatodes rhomboidaria</i>
<i>Y, Beautiful Golden</i>	<i>Autographa pulchrina</i>
<i>Y, Plain Golden</i>	<i>Autographa jota</i>
<i>Y, Silver</i>	<i>Autographa gamma</i>
<i>Yellow-line Quaker</i>	<i>Agrochola macilenta</i>
<i>Yellow Underwing, Large</i>	<i>Noctua pronuba</i>
<i>Yellow Underwing,</i>	<i>Noctua comes</i>
<i>Yellow Wave, Small</i>	<i>Hydrelia flammeolaria</i>
<i>Yponomeutidae small ermine moth</i>	<i>Argyresthia goedartella</i>

Invertebrates – Arthropods – Insecta Coleoptera

Common Name	Latin Name
<i>a dung beetle or chafer</i>	Aphodius rufipes
<i>a Carabidae ground beetle</i>	Pterostichus niger
Guelder-rose leaf beetle	Pyrrhalta viburni
Ladybird, Harlequin	Harmonia axyridis

Common Name	Latin Name
Ladybird, orange 16 spot	Halyzia sedecimguttata
Ladybird, seven-spot	Coccinella septempunctata
Longhorn Beetle	Rutpela maculata

Invertebrates – Arthropods – Insecta Ephemeroptera and Odonata

Common Name	Latin Name
Blue-tailed damselfly	Ischnura pumilio
Brown Hawker dragonfly	Aeshna grandis
Common Blue damselfly	Enallagma cyathigerum

Common Name	Latin Name
Common darter dragonfly	Sympetrum striolatum
Southern Hawker dragonfly	Aeshna cyanea

Invertebrates – Arthropods – Insecta Hemiptera

Common Name	Latin Name
<i>a ground bug</i>	Chilacis typhae
<i>a plant bug or grass bug</i>	Pantilius tunicatus

Common Name	Latin Name
<i>a shield bug</i>	Elasmotethus interstinctus
Sloe Bug	Dolycoris baccarum

Invertebrates – Arthropods – Arachnida

Common Name	Latin Name
Orb-weaver, bankside	Lariniodes cornutus

Common Name	Latin Name
Daddy Long-legs	Pholcus phalangioides

Invertebrates - Molluscs

Common Name	Latin Name
Slug, black	<i>Arion ater</i>
Slug, brown	<i>Arion ater</i>

Common Name	Latin Name
Snail, pond	<i>Lymnaea stagnalis</i>
Snail	<i>Helix aspersa</i>

Invertebrates – other Arthropods – to be scheduled by order when sufficient recorded

Common Name	Latin Name
Bumble bee, buff-tailed	<i>Bombus terrestris</i>
Bumble bee, red-tailed	<i>Bombus lapidaries</i>
Crane Fly's	
Grasshopper	<i>Chorthippus brunneus</i>
a gall fly	<i>Urophora cardui</i>

Common Name	Latin Name
Pond skater	<i>Gerris lacustris</i>
Water beetle	<i>Hydrobius fuscipes</i>
Water skater	<i>Asellus aquaticus</i>
Water boatman, greater	<i>Notonecta glauca</i>
Water boatman, lesser	<i>Corixa punctata</i>

Appendix 20 – Artificial Habitats and Species Support

Several initiatives have been agreed to support or expand bio-diversity at Colliers Wood. The following are the key ones so far enacted.

Reptiles

Periodic reported sightings of common lizard have never been confirmed by affirmed sightings or physical indicators. They are known to be present in various habitats along the adjacent magnesian limestone escarpment and upper coal measures landscapes.

Grass snakes are known to nest locally in compost heaps, but presently no sightings have been reported at the site. Opportunity for basking is limited because of the present nature of the copse and grassland habitats, and the vegetation and ground level variability is not yet ideal. However, the Friends believe it worthwhile to try and encourage grass snakes and ensure habitats for lizards develop. A location on the south facing edge of the Horseshoe Copse has been used to deposit annual cut mowings to try and create a 'hot spot'. A secluded passage to water is available from this spot.

Further opportunities have been created in 2020 with the stacking of hay bales at various locations along the copse perimeters.

Birds – general

The bird screen and feeding stations to the south of the DH Lawrence copse are a popular venue for bird watching. This area has been chosen to avoid feeding stations being created at various locations around this site with public leaving seeds, nuts and fruit. These unofficial feeding points have at times created a problem with rats.

Small mammals and insects

Brash from copse thinning has been stacked in both mound and linear arrangements to provide some cover and winter protection to small mammals and insects.

Specifically positioned habitat piles have been constructed from the brash arising from hedge laying. These are formed from short cut lengths of brash, laid linearly and well packed. To gain a height of 1.0 to 1.5 meters, stakes are used to help support the material and to retain stack shape. The material is not over compacted.

This method of stacking creates many voids in depth and provides some degree of insulation against cold for over-wintering. Shrews and field voles are known to use these habitat piles and caterpillars are found on and adjacent in the spring.

Whenever possible, failed trees within the copses have been left standing during the thinning operation. They are known to be a food source for the woodpeckers that are regularly seen at site.

There is little other naturally arising decaying timber of any size at the site. To encourage beetles in particular, mature felled timber from known sources has been imported and stacked for decaying.

Owls

For some years, tawny owl have been seen and heard whilst hunting at the site and in adjacent fields. Little owl sightings at the site are less regular, but they are known to roost in the area.

Gordon Ellis, from the South Nottinghamshire Barn Owl Group, has advised local farmers who participate in the environmental stewardship schemes, on the positioning of various owl boxes. Gordon agreed to help the Friends when they decided to try to encourage both tawny and little owl to nest at the site. After surveying the site, suitable locations were found with his guidance for one box for each species.

The tawny owl box was the first to be positioned. It is located on a large silver birch tree within a limited access part of the site that is close to the incoming brook. A suitable pathway from launching, allows for the dipping flight path without encountering obstacles.

A modification of the 'Dutch' style box has been used. This is designed to give better protection from predators of chicks and adds safety features for fledglings preparing for flight.

A maintenance/inspection program has been agreed with a local ringing licensed member of the SNBOG, Michael Pearson. Michael will perform the annual tasks and obtain permits when required.

The little owl box has been fixed in the upper branch structure of a robust young oak located, within a hedgerow, on the site perimeter with agricultural fields adjacent. Conveniently positioned branches adjacent the proposed position will permit easy access/egress for the owls. This box has the standard 'L' plan tunnel entrance with a sunken nest area.

Hedgehogs

With the recent publicity regarding the diminished hedgehog population, the Friends have been investigating measures they can adopt to help support them.

Aware that hedgehogs exist in areas surrounding the site through reports of carcasses and, more rarely, sightings, there has never been a sighting report on the site itself. Wet copses and areas of wet meadow are not sustainable habitats for hedgehogs and this was thought to be the main deterrent.

A site visit of the British Hedgehog Preservation Society along with Nottinghamshire Wildlife Trust looked at the site habitats to consider the possibility of there already being established hedgehogs and what habitat modifications were possible to enhance the prospect. This confirmed the understanding that some areas were too wet but also identified that significant areas exist that are sufficiently dry for safe habitation. Two forms of action were recommended.

To try and establish if hedgehogs already exist, a standard format hedgehog survey be used. This involves positioning several “hedgehog footprint tracking tunnels” along likely foraging and traversing routes for a one week period and then checking the recorded foot prints daily against standard sets. FoCW are interested in conducting such a survey.

The second action related to minor modifications on the site:

- Rabbit fences are a major obstacle to hedgehog movement. At a task morning in October 2016 the Friends created 29 holes in the fences on the west side of Central Meadow. The mesh at the bottom of the fences was modified to create small holes whilst not compromising the structure of the fence.
- Habitat stacks created with the formation of uninterrupted entry routes of sufficient size at ground level. These will consist of suitable section logs creating a tunnel. A second approach will be to place a pallet at the base of the stack. Brash would then be stacked and compressed over the pallet. This method has proven to be a very successful basis for nesting space at other sites.
- Encouragement of suitable food sources. The meadow and copse habitat measure are aimed at creating sufficient food sources for a population of hedgehogs without them having to cross Engine Lane for foraging. More decaying wood/tree stacks will help during the difficult times of the year.

Appendix 21 –Recording Species Observations Reported by Visitors

The FoCW welcome all help that enables us to expand our records of species that exist on the site or visit the site for feeding and refuge. Information regarding species helps in the planning of habitat work and confirms the success or otherwise of actions taken.

It is important that reported sightings are checked to verify, prior to the new species being added to the species list.

Verification method varies depending upon the nature of the species and the knowledge base readily available. For flora there are well documented identification features and ample confirmed images for comparison. For difficult flora, the Friends make use of specialists via email, sending them images to help identify. These images may include details of leaf, stalk and flower. Aves are readily confirmed by several amateur ornithologists who regularly visit the site and pass information to each other. Mammals, amphibians and the larger insects are also easily verified from printed material and web pages.

Fungi are more difficult. For a majority of fungi, identification is only certain when, after all external details have been verified; they are then cut open to reveal internal structure and smell. It is also important to note the trees and shrubs adjacent to their position. Most insects require expert identification of the sample. This can include dragonflies and damselflies, many of which have major colour variations and need thorough checking of abdominal segments, anal appendage and body structure/colours for accurate identification.

The Friends request that you record the location of your sighting, along with date and any images taken by phone or camera. Description of location should utilise our standard site feature names. A hard copy of this plan will be sent on request, or you can view/download on our website. This plan is under the 'Site' side tab and top 'Site Information' tab. For peripheral locations, please use descriptions such as 'field to south and at west end of site, opposite Blackshale West Copse'. Clear location instructions are a very big help for Friends to speedily check.

If you have been able to identify the species, please tell us the method used, including book/website name. Our species list is regularly updated. An updated version is posted on our website, viewable under the 'Ecology' side tab and 'Species Record' top tab.

After checking if the species is 'new', your sightings should be emailed to secretary@friendsofcollierswood.org.uk or reported directly to a FoCW on site, or by calling 0115 9385101 or 01773 762249

Friends have an agreed procedure for verification and your sighting will be promptly followed up.

Appendix 22 – Help Record Our Mammal Populations

The article detailed below was produced by Michael Walker of the Nottinghamshire Wildlife Trust. <http://www.nottsmammals.org.uk/recording.html>

Help Record Our Mammal Populations

Mammals are a poorly recorded animal group in Nottinghamshire with many of our common species appearing to be much rarer than they actually are. In September 2014 Nottinghamshire Wildlife Trust launched a mammal atlas project to encourage recording and to feedback information to recorders. Since the publication of the first provisional atlas the situation has improved greatly and many people are now regularly reporting the species they see. The atlas was updated in March 2016 (available from <http://www.nottsmammals.org.uk/mammalatlas.html>) and this upturn in recording is clearly shown on the new maps (especially for the mole which must be the easiest to identify field sign)

How to record – information on all the methods of recording is available from <http://www.nottsmammals.org.uk/recording.html> . You can send in casual records of any species you see anywhere in the county or just report what you see in your garden by using the garden mammal survey form on the website.

What to record – any species from anywhere! This could be the hedgehog in your garden, the squirrel in your local park or a badger that you have seen dead at the side of the road. Even species regarded as common should be reported. Many species are under reported because of the mistaken belief that they are everywhere or that we wouldn't be interested. We are as interested in rabbit records as much as polecat!

Feedback – your records are entered onto the county mammal database and the species maps on the website are regularly updated.

If you have any questions or comments on mammal recording in the county please contact Michael Walker via email at mwalker@nottswt.co.uk or by phone (office hours) on 0115 958 8242

Michael Walker

Nottinghamshire Wildlife Trust

Appendix 23 – Habitat Development at Colliers Wood

The Friends of Colliers Wood are working jointly with Broxtowe Borough Council on the environmental features of the site. Being a public open space with a multitude of uses, there are many conflicting requirements, some of which are not always sympathetic to wildlife. A balance sometimes has to be found with those that are essential to address and those that can be compromised. Inevitably the chosen solutions will not always prove to be acceptable to all site users and may need future modification.

Copses

General requirements for wooded areas were identified as:

- Screening value species to dominate in copses adjacent to industrial units
- Copses adjacent Engine Lane to emphasise noise reduction density of growth
- Water tolerant species to be encouraged in wet and poorly drained areas
- Island copses to have interesting vertical profiles
- No pathway to be 'crowded' to the extent that security may become an issue
- External long views over Engine Lane Copse, Moorgreen Copse, Nursery Copse and Wetland Copse to be maintained. Avenue of Limes will eventually interfere with NE views from lower areas of the site
- Tupton, Blackshale East and DH Lawrence copses to be prime environmental studies locations

A visual survey of each copse was undertaken and the following factors were considered to determine the applicable management solution.

- 1) Establishment success of each species in copse
- 2) Long term effects of soil and drainage conditions
- 3) Range of tree/shrub species present
- 4) Retention of a range of undergrowth species
- 5) Screening value of copse
- 6) Possible future hedgerow boundaries
- 7) Aesthetics, especially winter colour, dominant tree forms, overall copse profile when viewed at a distance
- 8) Maintenance of high level of food sources to attract wide range of species
- 9) Height interference of external views from paths and meadows
- 10) Maintenance access
- 11) Future public access for environmental activity or as a walking route

As pioneer species were the most successfully established, a general statement for thinning guidance was agreed - 'where there is goat willow and/or alder invading the space of any other species, they are to be removed.'

The team recognise that there will be an impact on the species using these trees as food sources. As an example, siskins are presently abundant in autumn and may well decrease in number as alder, their main food source on site, is progressively removed.

Trees with a good visual appearance/colour and value as a food source will be encouraged in areas adjacent the most heavily used tracks. Infill planting along these routes will concentrate on those species, e.g. rowan, field maple, crab apple, holly, blackthorn, silver birch, downy birch and aspen.

In the larger expanses of copse, small glades will be formed. The first of these will be created in the Horseshoe Copse in winter 2019. Planted shrubs of dog rose, guelder rose and hazel are already being supplemented by other self-set species. These will form the basis of the understorey development. Supplementary planting will be considered at a later stage.

The wetland copse needs to be managed in a different way to the rest of the copses due to overhead power lines which run along the length of the copse. Western Power Distribution the electricity network operator for the Midlands undertake pruning work to the trees in this copse to prevent close contact with the power lines. The Friends are keen however to introduce a coppicing programme for this copse on a 5 year cycle. This is something that will be considered further throughout this management plan.

Recent work has been undertaken in the D H Lawrence copse working with the Friends, Nottinghamshire Wildlife Trust, Volunteers and Friends to undertake halo pruning predominantly around the oak, pine and larch trees.

The recent incidents of tree diseases throughout the country may result in caution being exercised in terms of thinning of all areas until the full extent of these diseases are known and better understood.

A new Woodland Management Plan 2017-2021 has been produced in conjunction with Greenwood and Nottinghamshire Wildlife Trust.

<https://www.broxtowe.gov.uk/media/4143/woodland-management-plan-colliers-wood-final.pdf>

One of the actions in the Plan was creating scalloped woodland edges and this work started in the winter of 2018/19 working with the Friends Group.

The first stage of work is in the Horseshoe Copse.

Monitoring of the sunshine has illustrated the warmed area and the pattern of shade arising from retained scallop perimeter trees. Orientation of the scallop appears to be ideal.

The brash has been stacked in two large habitat piles. Both piles have had a wooden pallet incorporated at the bottom as a tempting easy access and refuge for hedgehogs.

A linear log pile is positioned at the rear perimeter of the cleared area. Different length and diameter logs have been used randomly with the aim of achieving variable rates of decay.

Hedgerows

The desire to expand the hedgerow habitats led to replacing some of the rabbit fencing protecting the copses with new hedgerows. It was recognised that hedgerows could also be used to restrict access to specific areas including the protection of water fowl nesting areas adjacent to the large pond and that in appropriate locations they would add to the overall visual appearance. Conversely, the Friends were adamant that Colliers Wood should not take on an urban park appearance with any regimented arrangement. Visitors' opinions reinforced the desire to retain the character of natural open countryside as far as it was possible to do so.

Laying of the mature hedgerow along the southern boundary was identified as an urgent requirement and this has now been completed. The hedge on the boundary with the industrial estate has also been laid. Infill planting to mature hedges also continues to be a priority. Topping and facing up of the new young hedgerows now takes place on an annual basis.

New hedgerows were planted in the winter of 2019/20 and 2020/21.

Grass Areas

Formulating a grass cutting regime involves various conflicts in requirements. The site is popular with dog walkers, most of who act responsibly. The Friends do not think it prudent to make it more difficult for the visitors to remove dog faeces, nor do they want to preclude visitors whose health is susceptible to pollen. However there is a desire to substantially elevate the grassland habitat to extend the food chain and regain ground nesting birds.

Practical considerations relating to site events also have to be taken into consideration.

The site has been reviewed using the following list of factors:

- Specific uses of meadow areas. These may be events by Friends or others, child play/game areas, picnic areas, etc.
- Cleaning of dog fouling. Problem amongst long grass.
- Lesson-in-a-Box activity areas and access to them.
- Visual appearance at different times of the year.
- Encouragement of grass species mix more akin to the sub-soil, drainage and location.
- Expansion of wildflower mix.
- Variation of alignment of main path route from Beggarley Track to Moorgreen Track
- Avoidance/control of ragwort or invasive species.
- Protection of ground nesting birds and small mammals.
- Relationship with under-storey growth in adjacent copses.
- Wide path margins.

- Asthma/hay fever problems.
- Access for maintenance equipment.
- Temporary vehicle access for events.
- Costs.

However, even with these assessments and considerations the timing of the grass cutting operation and the extent of the uncut margins remains an issue that is debated annually, often with conflicting opinions and thoughts on the best way for the site to be managed.

In 2020 the approach of leaving large areas of grass uncut and then collecting as hay bales seemed to strike the right balance.

In autumn 2020 the Friends sowed wildflower seeds in the central meadow following COVID-19 guidelines.

Appendix 24 – Health & Safety – Policy Statement



HEALTH AND SAFETY POLICY STATEMENT

Broxtowe Borough Council, as an employer and landlord, is fully committed to the health, safety and welfare of all its Councillors, employees, visitors to its premises, occupiers and others who may be affected by its work activities. It is the Council's policy to endeavour to provide safe and healthy working conditions and to enlist the active support of all its Councillors and employees to achieve this end.

The objectives of the policy are to promote standards of health, safety, fire prevention, hygiene and welfare, which comply fully with the spirit and requirements of legislation. The Council undertakes, so far as is reasonably practicable, to:

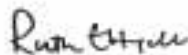
- Maintain plant and systems of work that are safe and reduce the risk to health
- Ensure safe practices in connection with the use, handling, storage and transport of articles and substances
- Provide such information, instruction, training and supervision as is necessary to promote the health (including mental health) and safety of all Councillors and employees
- Maintain work places in a safe condition and provide a safe means of access to and egress from such work places
- Provide and maintain a safe working environment with minimal risks to health and with adequate facilities for employees' welfare at work
- Prevent accidents and causes of work related ill health

The Council's Health and Safety Policy, which includes the organisational responsibilities and arrangements is detailed in the Health and Safety Section on the Council's intranet. These will be reviewed regularly to take into consideration changes within the Council, legislation and technological advancement. The Safety Committee discusses workplace health and safety matters twice yearly.

Directors, Heads of Service, Managers and Supervisors will ensure compliance with all health and safety legislation including the Council's Health and Safety Policy and codes of practice.

Each Councillor and employee is reminded that they have a legal responsibility to take care of their own health and safety and also the health and safety of others who may be affected by actions or decisions made by them.

The Council gives its full backing to this policy and will support all those who endeavour to carry it out.




Signed:
Chief Executive

Date: 03 May 2018



Appendix 25 – Sample Risk Assessment



RISK ASSESSMENT SUMMARY - AUTHORISED
 Grass cutting with Pedestrian Operated Rotary Push Mower .

Medium

4 - Medium

1. Introduction

Site

Reference

Description/ Operations/ Activities covered by this assessment

Assessor

Job title

People at risk **First assessed**

Assessment date **Review date**

2. People at Risk

Agency Personnel, Children, Contractor(s), Disabled Personnel, Employees, Members of the Public

3. Task/Hazards

Task/Hazard	Effects	Sev	Controls	Prob	Rating
01 Start Mowing Machine Collision (Static Object)	Abrasions Bruising Cuts / Lacerations Impact Injuries Musculoskeletal Injury Unconsciousness	2	Assess Environment Health & Safety Policies/Codes of Practice Housekeeping Licensed Operatives Only Guarding (if applicable) Visual Inspections	1	2
01 Start Mowing Machine Manual Handling - Occasional	Bruising Musculoskeletal Injury Impact Injuries Slip / Trip / Fall	1	Manual / Kinetic Handling Controls Assess Weight Training Housekeeping	1	1
01 Start Mowing Machine Noise - Over 85 dBA	Hearing Impairment Stress / Psychological Injury Collision (Vehicle to Person) where applicable	2	Noise Exposure Awareness Assess Environment Training Job Rotation PPE	1	2
01 Start Mowing Machine Slips, trips & falls	Bruising Cuts / Lacerations Impact Injuries Musculoskeletal Injury Unconsciousness - - - -	2	Assess Environment Visual Inspections Health & Safety Policies/Codes of Practice Housekeeping Weather Monitoring - - - - -	2	4

Monday, 26 November 2018 12:34 PM

1/8

Appendix 26 – Community Groups and other Organisations Involved with Development and Implementation of the Management Plan

- a) Friends of Colliers Wood
Secretary – Bob Turner
33 Ascot Avenue
Kimberley
Nottingham
NG16 2TU

Tel. 0115 9385101
- b) Greenwood Community Forest
Nottinghamshire County Council
Conservation Team
County Hall
Loughborough Road
West Bridgford Nottingham
NG2 7QP

Tel: 0115 9932598
- c) Nottinghamshire Wildlife Trust
The Old Ragged School
Brook Street Nottingham
NG1 1ED

Tel: 0115 9588242
- d) Practical Conservation Volunteers (PCV)

Tel: 01332 864581