Package 4 Soyland

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1. Works Quantities

Table 1 shows the proposed work quantities for the Soyland site.

Treatment	Grand Total
Grip/Gully Blocking - Peat (Dam unit)	719
Grip/Gully Blocking - Timber (Dam unit)	22
Grip/Gully Blocking: Heather Bales	399
Grip/Gully Blocking - Stone (Dam unit)	113
Bunding (ha)	36
Re-profiling (m)	178

Standard works specifications can be found in Appendix 9. Site specific works technique information is included in section 4.

Map 1 provides an overview of the site location.
Map 2 indicates the machine access routes and Lift sites
Map 3 shows all proposed restoration works

2. Works Dates

2.1. Start Date:

16th August 2022

2.2. End Date

31st March 2024

2.3. Restricted Dates

Nesting bird season 2023: 1st April 2023 to 15th August 2023,

Nesting bird season 2043: 1st April 2024 to 15th August 2024*

2.4. Works Phasing

Table 1 below provides suggested outline phasing/timing of the different works elements. These are based on completing the works within the dates stipulated in section 2.1, 2.2 and 2.3. The Contractor is required to provide their proposed detailed programme for the works as part of the tender.

Table 1 Suggested Outline Works Phasing

Year	Period	Works element
2022-2023	April 2022 to July 2022	Contractor prepares/finalises HSSE & CDM documentation.
	August 2022 to March 2023	Supply, fly & install Timber dams, heather bales and stone dams. Machine Works may also be started this season if time allows.
2023-2024	April 2023– July 2023	Update/prepare/finalise HSSE & CDM documentation (as required)
	August 2023 to March 2024	*Contingency for completing gully blocking works* Machine work: Bunding, Peat dams and reprofiling

3. Works Site Details

3.1. Work Site Name:

Soyland

3.2. Work Site Grid Reference

Approximate site centre at OS GR SD9818

3.3. Description of location:

Soyland is located approximately 4 km west of the village of Ripponden, West Yorkshire and is located within the "Metropolitan Borough of Calderdale" local government district, within the county of Yorkshire.

The site lies within the South Pennine Moors 'Special Area of Conservation' (SAC) and the South Pennine Moors 'Special Protection Area' (SPA). The site lies within the South Pennine Moors SSSI, and includes SSSI units 99, 100, 101, 102, 103, 105 and 162.

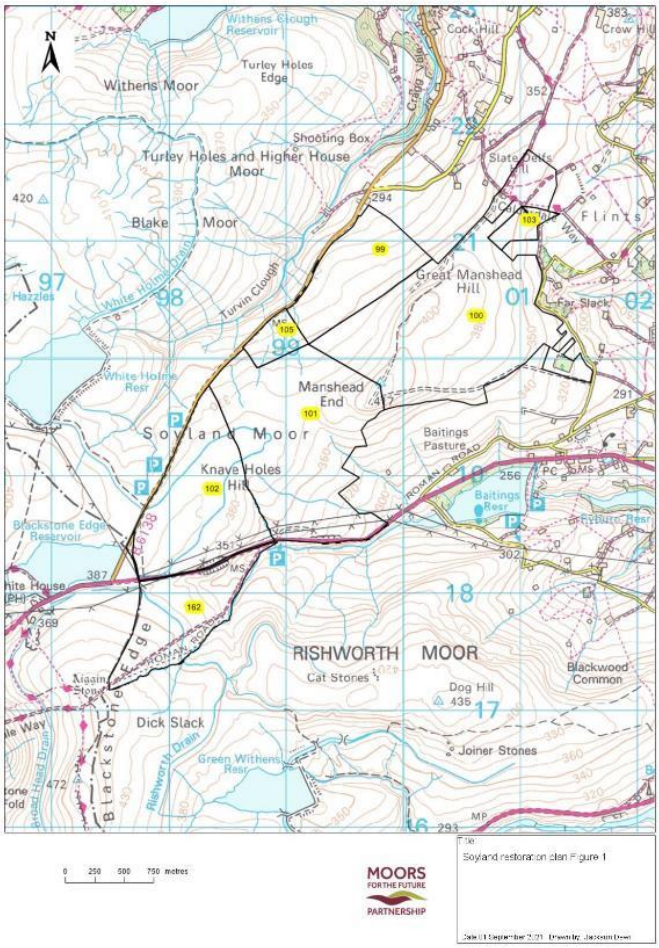


Figure 1 Inset map of SSSI units at the work site

3.4. Description of Site Areas

Soyland North (units 99,100, 101,102,103,104) is between the B6138 (Turvin Road) and the A58 (Rochdale Road). Soyland South (unit 162) area is south of the A58 and sits between Blackstone Edge Moor and Rishworth Moor. Electricity pylons run east to west between the sites making airlifting from one lift site impractical. Two lift sites need to be used.

Both areas are dissected by reservoir conduits which make access more difficult.

See Maps in Section 5.

3.5. Specified Access Points:

The main access points are indicated on Location Map 2.

- Access point A: Grid ref. SD9780018725. A stile for pedestrian access from B6138 (Turvin Road).
- Access points B and C: Grid ref. SD9858718349. Access via a field gate and track from the A58. Suitable for pedestrian and low ground pressure vehicle only.
- Access point D: Grid ref. SD9771618090. Access via a reservoir maintenance track. Reservoir track suitable for most vehicles. Access off the reservoir track onto open moorland suitable only for pedestrian and low ground pressure vehicles.
- Access Point E: Grid ref. SD9858718349. Access via a field gate and track. The gate is locked and access with vehicles will require agreement in advance and a key. Reservoir track suitable for most vehicles. Access off the reservoir track onto open moorland suitable only for pedestrian and low ground pressure vehicles.
- Access Point F: Grid ref. SD97140, 418007. Access via a field gate and track. The gate is locked and access with vehicles will require agreement in advance and a key. Suitable for pedestrian and low ground pressure vehicle only.
- The tenderer is advised to inspect the proposed machine access route in advance of tendering to assess suitability and to determine the need for ground protection/support to allow access/prevent damage.
- The tenderer may propose additional/alternative machine access routes with their submission.

3.6. Delivery and Lift Site Details

There are high voltage power lines that cross Soyland North and South. Two different lift sites must be used to avoid the power lines whilst airlifting.

This area is subject to high levels of anti-social behaviour including vandalism, theft and arson. It is not advised to store any machinery or materials within sight of the public roads or access tracks.

- The tenderer is advised to inspect the proposed delivery and lift sites in advance of tendering to assess suitability and to determine the need for traffic management, ground protection and security measures.
- The Contractor may wish to propose the use different lift sites through the programme, if beneficial for execution of the works.
- The use of any such lift sites are subject to MFFP obtaining relevant stakeholder consents/permissions.

- Soyland North Delivery and Lift Site:
    - Byron Edge Track Lift Site and Delivery Site Grid Ref: SD9732919190
    - Located off B6138 (Turvin Road), north of Blackstone Edge Reservoir
    - Wide track to hard surface parking area. Suitable for most vehicles.
    - Storage areas are located along the edge of the track. Trackway is not required.
    - Banksmen and marshals will be required for deliveries and aerial load lifting. Traffic management will not be required.
    - The Access Track to the Lift Site is a United Utilities access road used for reservoir maintenance. Access must remain clear at all times. The track is also accessible on foot to members of the public. The Contractor should liaise with the Nominated Officer at least 48hrs before requiring initial access to the Lift Site, in order that the Landowner and other stakeholders can be advised and combination code obtained.
    - There is a gate at the bottom of the access track which requires a combination code. This gate must remain locked when the site is not in use. A code will be provided for this purpose. The Lift Site is in a large passing place of hard standing at the side of the track.

- Soyland South Delivery and Lift Site
    - Access point D. Conduit delivery and lit site Grid Ref: SD97828, 17980
    - Located south of Rochdale Road, A58.
    - Hard core single track. Suitable for most vehicles.
    - Storage area is rough vegetation along length of track but access must remain clear at all times. Trackway is not required.
    - Banksmen and marshals will be required for deliveries and aerial load lifting. Traffic management will not be required.
    - The Access Track to the Lift Site is a United Utilities access road used for reservoir maintenance. Access must remain clear at all times. The track is also accessible on foot to members of the public. The Contractor should liaise with the Nominated Officer at least 48hrs before requiring initial access to the Lift Site, in order that the Landowner and other stakeholders can be advised and combination code obtained.
    - There is a gate at the bottom of the access track which requires a combination code. This gate must remain locked when the site is not in use. A code will be provided for this purpose.

3.7. Access Restrictions:

Contractor access is to be restricted to daylight hours only during the Contract Period.

Previous works have been undertaken on the site, including construction of peat dams, and sphagnum planting. The contractor shall, so far as is practicable, avoid disturbing or damaging these completed works, although machine and pedestrian access across the wider areas previously subject to sphagnum planting is considered acceptable.

The Authority cannot confirm what rights there are (if any) to use any car parking or access routes or their suitability (whether of a safety nature or otherwise) for any use (including but not limited to in connection with the Works. Such information is for indicative purposes only and without any liability or obligation on the Authority. The Contractor agrees and confirms that it has not placed any reliance on

such information and that it uses such car parking or access routes wholly at its own risk. Contractors should satisfy themselves as to the safety, suitability and rights to use such car parking and access routes.

3.8. Public Rights of Way / Footpaths:

The site and access route is located within Access Land pursuant to the CRoW Act and there are public footpaths between the Lift Site and Works Site which it is expected that flight lines will cross. Marshalls will be required to maintain safety.

3.9. Vehicles allowed on Works Site:

Contractor vehicles can park at laybys on the B6138 and A58. Parking may be permissible alongside Byron Edge and Conduit Track, but must be agreed in advance with United Utilities. Contractors should satisfy themselves as to the safety, suitability and rights to use such car parking and access routes.

Only suitably low ground pressure vehicles (<3psi) may be taken onto the works site for machine works, cutting, refuelling or transport of required materials associated with the works. Vehicles shall not be used for the sole purpose of personnel transport.

Access for excavators and other low ground pressure vehicles can be made at the access points and outline route as per section 3.5. Contractors should assess to their own satisfaction the exact route to be taken.

3.10. Livestock:

Sheep and cattle graze the Work Site seasonally. The contractor must ensure their works do not disturb livestock or allow livestock to escape.

3.11. Hazards associated with the Works Site:

A summary of the main known hazards are identified to the Contractor in this section. Upon award of the Works Package further information will be provided to the Contractor in the MFFP CDM2015 Pre-Construction Information.

The Works Site is on open moorland at high altitude and include waterlogged areas, deep peat, gullies, stream channels, steep slopes and unstable ground. Previous gully/grip blocking works (peat dams) have created peat dam pools in gullies and grips in the Hassock area of the site.

The Work Site is on Open Access land (pursuant to the CRoW Act) so the Contractor must be aware of and have due regard to members of the public, who may be present at the Site, and ensure appropriate mitigation measures are in place.

Overhead power lines and Pylons run across the site. This represents a potential hazard to aerial load lifting from the proposed lift site. Under certain weather conditions, there is a risk of falling ice from the cables. Contractors should work to the standards set out in GS6 – 'Avoidance of danger from overhead electric power lines Avoiding danger from overhead power lines GS6 (hse.gov.uk) and National Grid Guidance 8589935533-TGN 287_Third party guidance for working near NGET equipment.pdf (nationalgrid.com)

UXO hazard is considered to be LOW (from Zetica Bomb Risk Mapping).
No known belowground services/utilities at the site.

3.12. SSSI

The site is located within the South Pennine Moors SSSI. SSSI Consent/Assent will be arranged by MFFP in co-ordination with Yorkshire Water. No works shall commence prior to confirmation from MFFP that SSSI consent/assent has been granted.

3.13. Scheduled Ancient Monuments and other Archaeology

Based on previous engagement with the West Yorkshire Archaeological Services, a number of features of archaeological/historical interest are considered to be present at the site.
There is also archaeological interest in the basal peat deposits based on the presence of previous Mesolithic age flint finds in proximity to the site, which are interpreted to represent the potential for a flint production site or temporary settlement. These may require amendment to standard methodologies for machine excavation works (i.e. as outlined in section Error! Reference source not found. for peat dams).

4. Work Techniques- Site Specific Details

Site specific details pertaining to the proposed works are outlined in following sections, to be read in conjunction with MFFP standard specifications. Unless identified below the methodology should follow the standard specification as set out in Appendix 9.

Stone, heather bale dams and bunding shall follow the standard methodology.

4.1. Reprofiling

178 m of re-profiling is proposed at Soyland to stabilise and facilitate re-vegetation of bare and over-steep gully sides or hagg edges.

Photo 1 shows an example of where re-profiling is needed to re-profile the bare and eroding hagg edge/gully side to aid stabilisation and allow bare peat restoration techniques to be applied. The overhanging vegetation at the top can be seen in this photo.
Where possible, existing vegetation should be used to re-vegetate/ stabilise the reprofiled slopes. It is anticipated that there is enough existing vegetation to cover reprofiled slopes and brash / geotextile is not required. Where potential for flow along the toe of the slope is present, the turves should be placed along the toe of the slope, rather than at the crest. This will help prevent erosion of the toe of the slope.

Photo 1 Photo showing typical bare peat gully side/hagg edge identified for re-profiling.

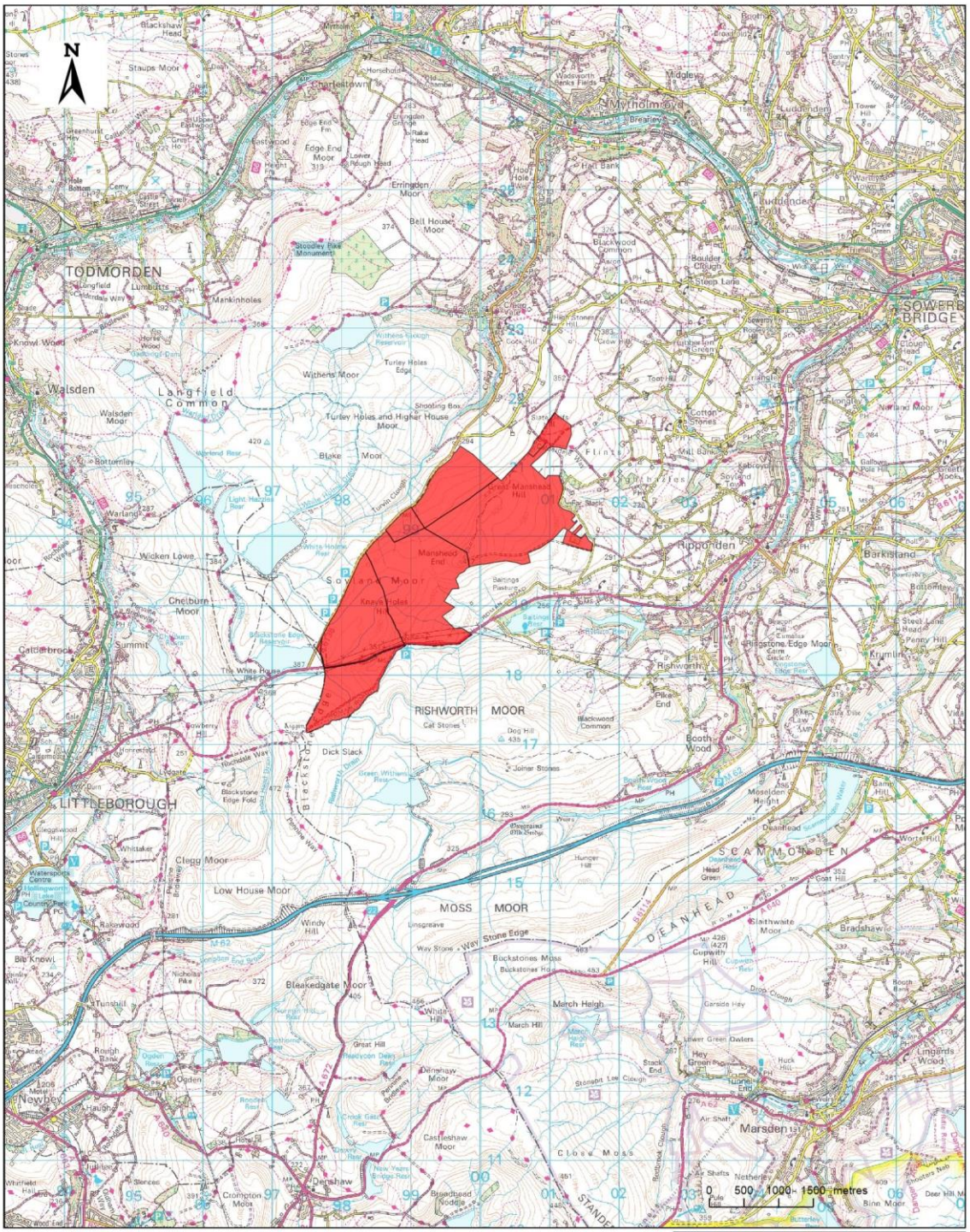
4.2. Gully Blocking: Timber Dams

Timber dams shall be constructed in line with standard MFFP Timber Dam specification. Timber dams shall be of the "non leaky" construction type; that is with no gaps between planks.

Photo 2 Photograph showing typical location for timber dam at Soyland

5. Maps

Map 1: Site Location Overview
Map 2: Works, Access and Lift Site Overview.
Map 3: All Proposed Restoration Works



Soyland

Title:
Map 1 Soyland location map

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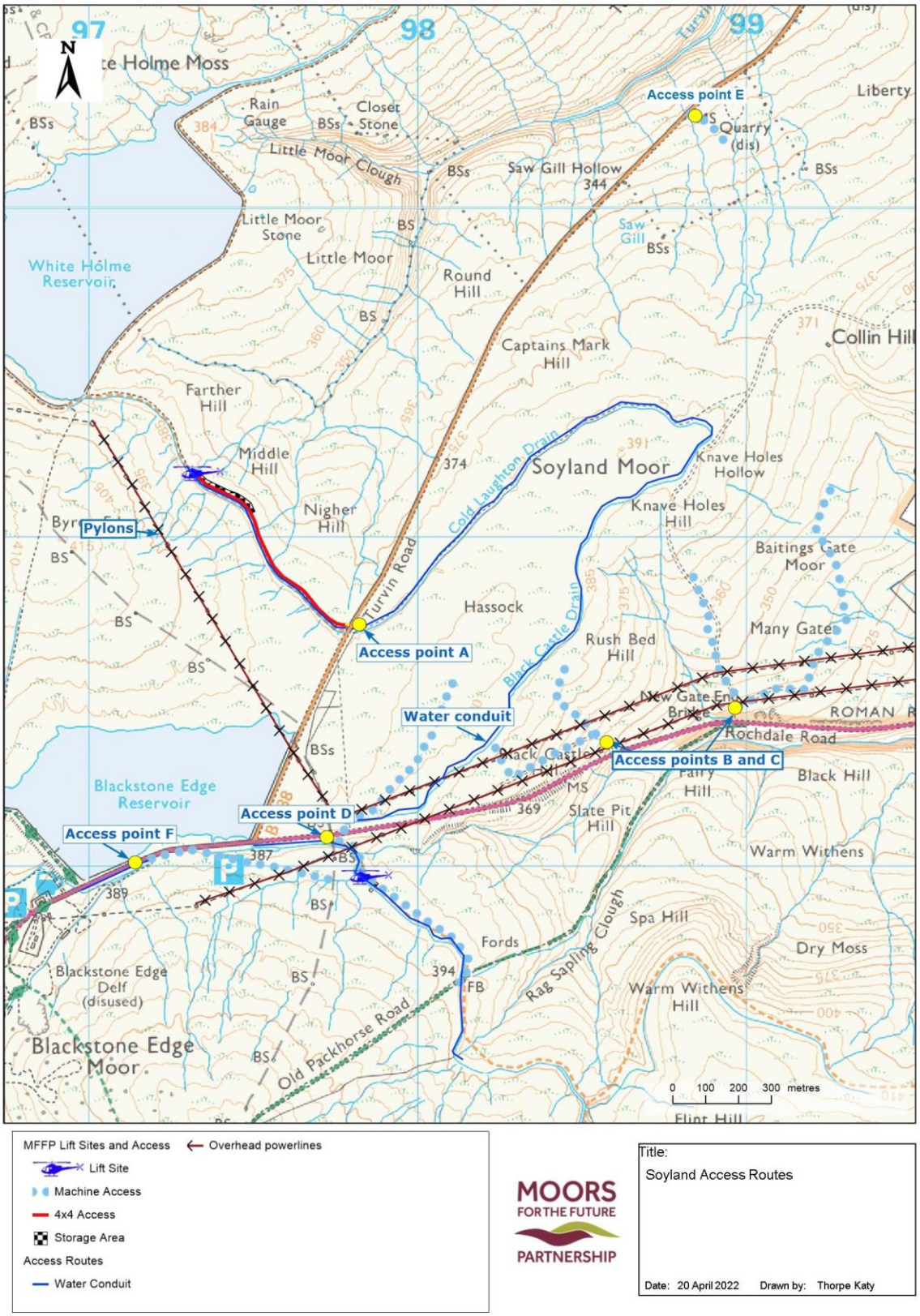
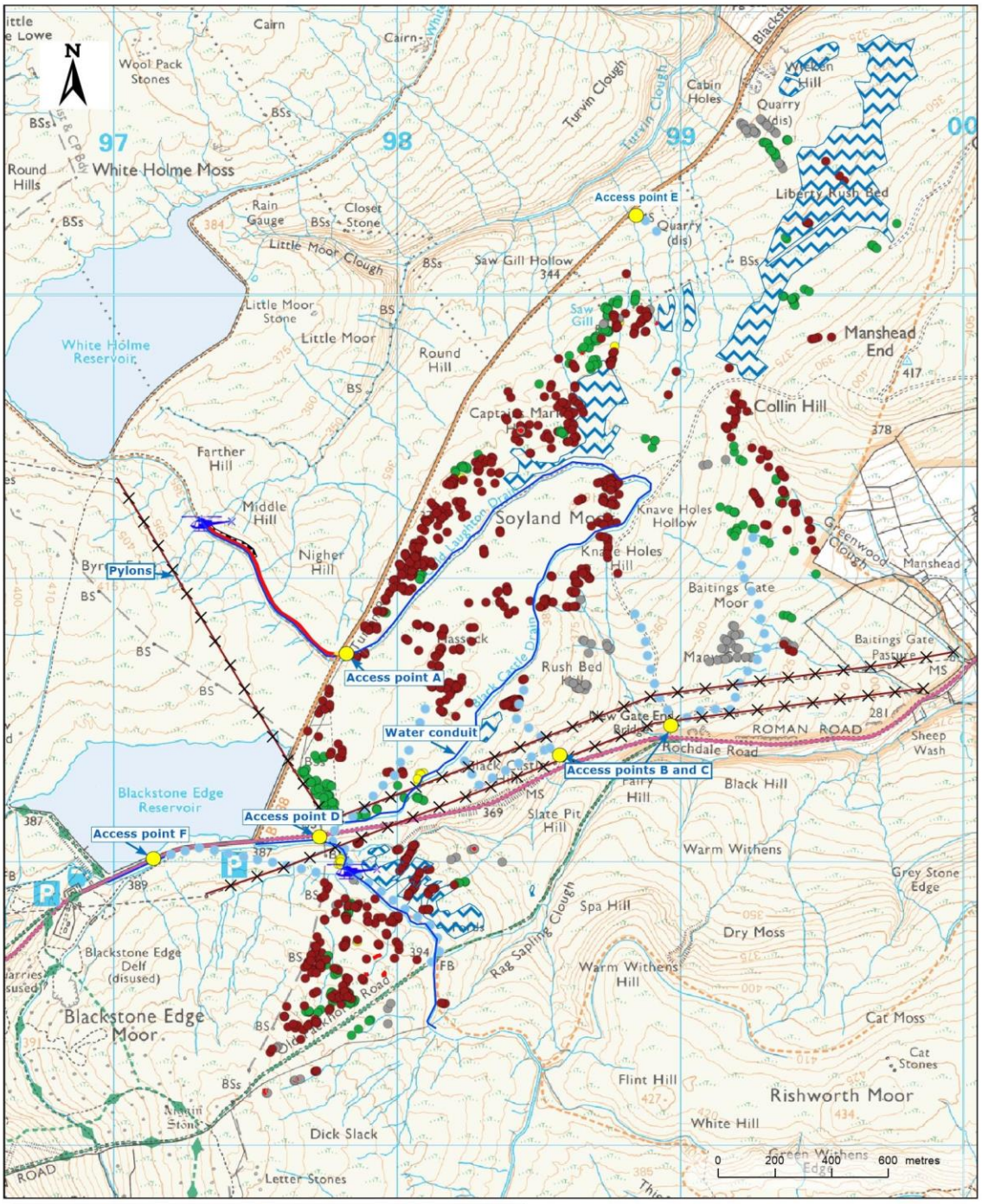

97
98
99
N
Access point E
Liberty
Quarry (dis)
Rain Gauge
Closet Stone
Little Moor Clough
Saw Gill Hollow
344
Little Moor Stone
Little Moor
Saw Gill
White Holme Reservoir
Round Hill
Captains Mark Hill
Collin Hill
Farther Hill
Middle Hill
Soyland Moor
Knave Holes Hollow
Knave Holes Hill
Nigher Hill
Pylons
Cold Laughton Drain
Turvin Road
Baitings Gate Moor
Hassock
Access point A
Black Castle Drain
Rush Bed Hill
Many Gate
Water conduit
Rochdale Road
Access points B and C
Black Hill
Blackstone Edge Reservoir
Access point D
Access point F
Slate Pit Hill
Warm Withens
Spa Hill
Fords
Rag Sapling Clough
Dry Moss
Blackstone Edge Delf (disused)
Warm Withens Hill
Blackstone Edge Moor
Old Packhorse Road
Flint Hill
0 100 200 300 metres
MFFP Lift Sites and Access
Lift Site
Machine Access
4x4 Access
Storage Area
Access Routes
Water Conduit
Overhead powerlines
MOORS FOR THE FUTURE PARTNERSHIP
Title:
Soyland Access Routes
Date: 20 April 2022
Drawn by: Thorpe Katy



MFFP Lift Sites and Access
- Lift Site
- Machine Access
- 4x4 Access
- Storage Area

Access Routes
- Water Conduit

Overhead powerlines
Yorkshire Water Survey Data
- Re-profiling
- Gully Blocking, Peat
- Gully Blocking, Stone
- Gully Blocking, Heather Bale
- Gully Blocking, Coir

Gully Blocking, Timber
Bunding

MOORS FOR THE FUTURE PARTNERSHIP

Title:
Soyland Works 2022-2024

Date: 20 April 2022 Drawn by: Thorpe Katy