

Landscape Establishment and Maintenance Supporting Statement

- Volume and type of material which would be brought to the site.

All imported material will be inert. The imported fill material will be tested and certified clean to ensure its suitability. This will be administered in accordance with the Environment Agency approval process for the remediation of this site. Total volume of imported material will be 21,600M³

- Timescale over which this would occur and any phasing of earth works and landscape works.

The duration will be dependent on seasons, and availability of the imported material, however we would propose to complete the project within two years of commencement of the works, and with phased completions of areas within the two year programme.

- Field Drainage, topsoil quality and depths and grass seeding for playing fields.

Drainage for the amenity areas will be sufficiently provided by a 400mm free draining sub-soil layer.

Top soil will partially invoke British Standard 3882 and typically be to the following specification:-

Q28/342 Imported top soil, custom mix

- Texture to BS 3882, figure 1: Any class from silt loam to sandy clay
- Reaction, to BS 1377-3: *Ph 5.5-8.5*
- Organic matter: *Minimum 5%*
- Nutrient content: *Minimum index values for nitrogen, phosphorus, potassium and magnesium to be as BS 3882 multipurpose topsoil.*
- Crumb structure: *Made up of discernible crumbs.*
- Stones: Size in any dimension (maximum): *20mm for playing fields, 50mm for general planting areas, 200mm for woodlands.*
Stone content by dry weight (maximum): *No requirement.*
- Foreign matter: On visual inspection, free of fragments and roots of aggressive weeds, sticks, straw, subsoil, pieces of brick, concrete, glass, wire, large lumps of clay or vegetation, and the like.

The depths & volumes of imported materials are as follows:-

Top soil layer 200mm thick, volume = 4,000 M³ approx;
Subsoil free draining 400mm thick layer, volume = 8,000 M³ approx;
Subsoil to make up levels requires a volume = 9,500 M³ approx;
Recycled drainage material 100 M³ approx.

Grass seed will be provided to the proposed two flat plateau areas for community use to the following specification:-

Q30/310 Grass Seed

- Mixture: *Perennial rye grass or similar approved.*
- Application rate: *35g/m² or to supplier's recommended application rate.*
- Specification of wildflower grass seed/ sowing rates, native tree shrub planting mix, plant stock, soil preparation, planting method (pit planting will be required to aid effective establishment) and protection.

Wild flower grass seed will be provided to newly exposed/imported topsoil on new embankments/mounds created by the improvement works to the following specification:-

Q30/312 Wildflower seed mixture

Supplier: *British Seed Houses Amenity or similar approved*

- Mixture reference: *WFG2 Flowering Meadow*

Origin (as defined in the National Plant Specification): *Refer to supplier's information.*

Rate of application: *5g/m²*

Existing embankments and landscaping unaffected by the improvement works will remain as existing.

Where identified on the proposed plan, trees will be planted to the noted density on newly formed mounds. The native tree shrub planting mix will be agreed between the Applicant and Landscape Officer.

Soil for tree planting is to be moist, friable and not waterlogged. Aggressive weeds (particularly grasses) should be controlled before planting as they will compete with the new trees. Deciduous trees are to be planted between late October and late March, and not in frozen conditions.

Trees will be planted using the pit planting method, this involves digging out a pit which must be deep and wide enough to take the roots. The base of the pit should be forked over to improve drainage and the roots should be spread evenly around the pit.

Tree protection if required will be agreed on site between the Applicant and Landscape Officer.

- Establishment and 5 years maintenance specification and programme of operations, with management requirements after this date (ensure watering immediately after planting to full ground capacity and subsequently during prolong dry spells over the next 2 years).

A landscape maintenance plan will be developed by the Brymbo Community Association and follow the applicable principles set out in BS7370-3 Ground maintenance: Recommendations for maintenance of amenity and functional turf (other than sports turf) and BS7370-4 Ground maintenance: Recommendations for maintenance of soft landscape.

The following specification clauses have been provided to communicate the intent of maintenance procedures that are to be further developed within the Brymbo Community Association management plan:-

Q30/620 Maintaining amenity and functional grassed areas

- Maximum height of growth at any time: *Generally 50mm*
- Preparation: *Before each cut remove all litter and debris.*
- Cutting: *As and when necessary to a height of 25mm*
Arising: *Remove*
- Weed control: *Substantially free of broad leaved weeds.*
Method: *Application of a suitable selective herbicide.*
- Stones brought to the surface: *Remove regularly.*
Size: *Exceeding 25mm in any dimension.*
- Watering: *Water topsoil evenly without displacing seed or soil, at a frequency to ensure establishment and continued thriving of all seeding.*

Q30/650 Maintaining grassed areas with perennial wild flowers

- Preparation: *Before each cut remove all litter and debris.*
- Height and frequency of cut in first growing season: *n/a*
Time of first cut: *Site visits should be made to decide on the timings of mowing, and advice obtained from the seed supplier.*
Height of first cut: *Not below 50mm*
Frequency of subsequent cutting (minimum): *once per year, two cuts (maximum)*
Height of growth permitted (maximum) *n/a*
- Height and frequency of cut in second growing season: *n/a*
-Time of cut: *Single mowing in October, or with additional cut in early August.*
-Height of cut: *Not below 50mm*
- Watering: *Water topsoil evenly without displacing seed or soil, at a frequency to ensure establishment and continued thriving of all seeding.*

Q35/210 Maintenance of grassed areas

- General: *Maintain turf in a manner appropriate to the intended use.*
- Soil and grass:
Condition: *Maintain a healthy vigorous sward, free from disease, fungal growth, discolouration, scorch or wilt.*
- Waterlogging and compaction: *Prevent.*
- Damage: *Repair trampling, abrasion or scalping.*
- Litter and fallen leaves: *Remove regularly to maintain a neat appearance.*

Q35/211 Maintenance of grassed areas

Standard: To BS 7370-3. Carry out maintenance appropriate to each category of turf as follows:

- Objectives: To BS 7370-3, table 6.
- Programme: To BS 7370-3, clause 11.
- Mowing methods: To BS 7370-3, table 3.

Q35/710 Woodland planting maintenance

- Watering: *In exceptional circumstances to prevent plants dying.*
- Loose plants: *Re-firm surrounding soil, without compacting.*
- Vegetation: *Except trees and coppice shoots to be retained, cut down to 100mm above ground level within the plantation area.*
Arising: *Leave*

- An indication of who would be responsible for maintenance.
Brymbo Community Association will have responsibility for maintenance of the area and will agree a management plan in consultation with the local community based on the principles discussed in this document.