

Whitehaven Golf Course

Earthworks & Planting Methodology (For All Areas to Receive Imported Recycled Fill Material)

- 1. Tree Protection** – Erect tree protection fencing around the Root Protection Areas of any existing trees, tree groups & hedgerows (which are to be retained) adjacent to earthworks areas, prior to site clearance works.
- 2. Site Clearance** – Clear proposed earthworks/mound areas of any rubbish, debris, vegetation & grub out roots (avoiding topsoil compaction) & remove cleared material to tip.
- 3. Topsoil Treatment** - Apply a suitable translocated non-residual herbicide to proposed earthworks/mound areas prior to topsoil removal & allow vegetation to die back.
- 4. Topsoil Removal** – Remove topsoil to full depth nom 300-400mm & stockpile separately (avoiding compaction). Topsoil mounds to be a maximum height of 1.5m & maximum width of 5m.
- 5. Subsoil Removal** – Remove soil nom 600-700mm depth (from topsoil removed level) & stockpile separately (avoiding compaction). If subsoil is shallower then remove full depth of subsoil only.
- 6. Import Golf Course Fill Material** – Import & spread in layers screened & graded fill; 150mm down, free draining inert material made up of soils, stone, concrete (no wood, plastic or metal). Material to be visually inspected for compliance by Landscape Architect (LA)'s specification when tipped out. Any non-compliant materials to be removed. All fill material to be supplied by Lawson's Recycling Yard at Beckermat (or any other source approved by LA). Fill material to be graded to form the mound formation level contours required (nom 900mm below proposed finish contours), prior to subsoil replacement.
- 7. Replace subsoil** – Remove from stockpile & spread in layers over imported fill material to provide nom 600mm consolidated depth of cover (avoiding compaction) & grade to required contours.
- 8. Replace topsoil** - Remove from stockpile & spread in layers over subsoil to provide nom 300mm consolidated depth of cover (avoiding compaction)
- 9. Topsoil preparation** - Grade to the required final proposed contours, providing smooth even playing surface suitable to receive planting &/or seeding.
- 10. Grass seeding (for woodland planted areas & open golf-rough grassed areas)** – Prepare a fine tilth for seeding & cast specified proprietary low maintenance seed mix suitable for golf rough which is tolerant of multiple cutting heights (50 to 75mm for second-cut/primary rough) or to be left uncut where desired at the green keepers discretion.
- 11. Grass seeding (for fairways)** – Prepare fine tilth for seeding & cast specified proprietary seed mix suitable for golf fairways tolerant of low mowing height.
- 12. Woodland Planting** – Plant woodland trees & woodland shrubs into the newly established grass sward, using an auger to dig planting pits & incorporating topsoil ameliorants & slow-release fertilisers into backfilled tree/shrub pits. Install

tree/shrub guards & mulch mats/1m bark mulch diameter rings around plant stations.

- 13. Ornamental Shrub Planting** – Plant ornamental shrubs into prepared planting beds (non-seeded areas) incorporating topsoil ameliorants cultivated thoroughly into the topsoil & slow-release fertilisers within shrub planting pits. Planting beds to be blanket mulched with bark to 75mm depth after planting.

Planting Methodology

(Out-with Earthworks Areas – No Imported Fill Material)

- 1. Tree Protection** – Erect tree protection fencing around Root Protection Areas of any existing trees, tree groups & hedgerows (which are to be retained) adjacent to or within proposed new planting areas, prior to site clearance works.
- 2. Site Clearance** – Clear proposed planting areas of any rubbish, debris, undesirable vegetation/vegetation marked for clearance & grub out associated roots (avoiding topsoil compaction) & remove to tip.
- 3. Topsoil Treatment** - Apply a suitable translocated non-residual herbicide to the proposed planting areas prior to topsoil cultivation & allow vegetation to die back.
- 4. Topsoil Cultivation** – Cultivate to full depth the existing topsoil *in-situ* to relieve compaction & incorporate topsoil ameliorants fully into the existing topsoil.
- 5. Topsoil Preparation** – Remove debris brought to the surface & grade levels to provide smooth even playing surface suitable to receive planting &/or seeding.
- 6. Grass seeding (for woodland planted areas & open golf-rough grassed areas)** – Prepare a fine tilth for seeding & cast specified proprietary low maintenance seed mix suitable for golf rough, which is tolerant of multiple cutting heights (50 to 75mm for second-cut/primary rough) or to be left uncut where desired at the green keepers discretion.
- 7. Woodland Planting** – Plant woodland trees & woodland shrubs into the newly established grass sward, using an auger to create planting pits & incorporating topsoil ameliorants & slow-release fertilisers into backfilled tree/shrub pits. Install tree/shrub guards & mulch mats/1m bark mulch diameter ring around plants.
- 8. Ornamental Shrub Planting** – Plant ornamental shrubs into prepared planting beds (non-seeded areas) incorporating topsoil ameliorants cultivated into topsoil & slow-release fertilisers within planting pits. Planting beds to be blanket mulched with bark chippings to 75mm depth after planting.