PROPOSED LANDFILL SITE AT WAPLEY, BRISTOL

STATEMENT OF SITE PHYSICAL CHARACTERISTICS

1. Soil Resources: Topsoil

The units refered to can be found on the accompanying Soil Resources map.

"Topsoil" is defined as the organic rich surface horizon.

Two topsoil units have been identified in the area of interest. Both units have similar depths of topsoil, 20cm but a distinction is made between the texture of the soil. The larger unit has heavier textures of heavy clay loam, heavy silty clay loam and occassionally clays. The smaller unit has lighter textures, medium clay loam and medium silty clay loam. These two groups of textures are distinct in terms of workability and should be handled separately.

Unit 1 ,4: 20cm dark grey brown/dark brown HZCL/HCL/C
Moderate fine and medium subangular blocky
Many roots
Few stones (limestone)

Unit 2,3,5: 20cm dark grey brown MCL/MZCL
Moderate fine subangular blocky
Many roots
Few stones (limestone)

A total topsoil resource of 49200 cu m is available, distributed as shown in Table 1 and on the accompanying soil resource map.

Table 1: Topsoil resources

Map unit	Depth	Area(ha)	Soils	Volume(cu m)
1,4	20cm	8.1	HZCL/ HCL/C	16200
2,3,5	20cm	16.5	MCL/MZCL	33000

2. Soil Resources: Subsoil

"Subsoil" is defined as the less organic rich lower horizons.

Two subsoil units have been identified. Over part of the site there is only soil to a depth of 60cm overlying limestone. Across the rest of the site soil is available to a depth of 120cm. All the subsoil is clay. The two units are described below.

Unit 1,2: 20-35cm olive grey/brown clay
Moderate fine angular and subangular blocky
Common roots
35-60cm light olive brown clay
Massive
Few roots

Unit 3,4,5: 20-60cm olive grey clay
Strong coase angular blocky
Common roots
Generally few stones
60-120cm olive clay
Massive
Very few roots
Very few stones

The depths at which each horizon exist is variable so average depths for the horizons have been taken.

A total subsoil resource of 196200cu m is available, the distribution of which is shown in Table 2.

Table 2 Subsoil Resources

Map Unit	Depth	Area(ha)	Soils	Volume
1,2	20—60	8.3	C	33200
3,4,5	20—120	16.3	C	163000