

SUB-APPENDIX A4: SOIL ACCEPTABILITY CRITERIA

NOT PROTECTIVELY MARKED

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In situ testing

| Soil Determinand | Method of analysis | Limit of detection | Acceptance/Action Criterion* | Notes |
|--------------------|----------------------|--------------------|------------------------------|--|
| Compaction/density | Cone penetrometer | N/A | N/A | Qualitative field notes to form part of monthly reporting. |
| Soil structure | Visual inspection | N/A | N/A | Semi-quantitative (ie ped dimensions) field notes to form part of monthly reporting. |
| Odour | Manual determination | N/A | N/A | Qualitative field notes to form part of monthly reporting. |

*Criterion above or below which action should be taken (not applicable for qualitative and semi-quantitative in situ data)

Laboratory testing

| Soil Determinand | Method of analysis | Limit of detection | Acceptance/Action Criterion* | Notes |
|---|--|--|--|--|
| Soil moisture (%) | Oven dry at 105°C | N/A | Moisture content at plastic limit for <i>in situ</i> soil | Plastic limit to be determined ahead of any works commencing on site |
| pH | Sticky end point distilled water and CaCl ₂ | 0.01 pH unit | Within 15% of status characterised as baseline conditions prior to start of ground preparation works | |
| Organic Matter (%) | LOI and Walkley Black | 1% | Within 15% of status characterised as baseline conditions prior to start of ground preparation works | |
| Conductivity | Sticky end point distilled water | 5µS/cm | Within 15% of status characterised as baseline conditions prior to start of ground preparation works | |
| Total N, P, K and Mg | MAFF/ADAS | Tot N - Tot P - Tot K - Tot Mg - | Agriculture: Semi-natural habitats: | TBC |
| Extractable NH ₄ -H and NO ₃ -N | Extractable in 2M KCl | Extr NH ₄ -N Extr NO ₃ -N | | TBC |
| Aggregate stability | Wet sieving | N/A | Within 15% of status characterised as baseline | |

NOT PROTECTIVELY MARKED

| Soil Determinand | Method of analysis | Limit of detection | Acceptance/Action Criterion* | Notes |
|-------------------------|---------------------------|---------------------------|---|--------------|
| | | | conditions prior to start of ground preparation works | |

*Criterion above or below which action should be taken