

**Banks Group: Land at Eastfield, Shepley  
Soil Profile Pit Descriptions**

<b>Profile Pit TP1</b>	
<b>Location:</b>	<b>Northeast of main site, near auger boring location 1</b>
<b>OS Grid Reference:</b>	<b>SE 19634 09678</b>
<b>Land Use:</b>	<b>Agricultural – Stubble</b>
<b>Aspect:</b>	Middle of 2-4° slope
<b>Soil type 1:</b>	Moderately stony heavy clay loam topsoil overlying heavy clay loam upper subsoil and clay lower subsoil at depth. Moderately structured subsoils overlain by weakly developed topsoil structure. Abundant mottled grey, black and ochreous mottling.
<b>Land Quality:</b>	ALC Grade 3b (Wetness Class IV)

<b>Soil Profile 1</b>	<b>Depth (cm)</b>	<b>Description</b>
	<b>0-0.28</b> (topsoil)	Very dark grey (7.5YR 3/1) heavy clay loam; with rare ochreous yellowish brown mottles; common small and medium hard sandstones, glass and pottery; dry; weakly developed to adherent coarse angular blocky structure; high packing density; moderately strong soil strength; very plastic and very sticky; common fine fibrous roots; common fine pores and common fine fissures; dormant small and medium earthworms; non-calcareous; gradual wavy boundary. Crop residue at 16cm.
	<b>0.28 – 0.50</b> (upper subsoil)	Brown (10YR 5/3) heavy clay loam: many clear distinct ochreous yellowish brown (10YR 5/8, 10YR 5/4) mottles; few (1-3%) small coal, hard sandstone and weathered sandstone; slightly moist; moderately developed coarse angular blocky structure; high density; moderately strong; few fine fibrous roots; common fine fissures and few pores. Large vertical earthworm channels and dormant earthworms; non calcareous; clear abrupt boundary.
	<b>0.50 - 1.20</b> (lower subsoil)	Yellowish brown (10YR 5/6) clay: abundant sharp prominent black and greenish grey (10YR 2/1, GLEY1 6/10Y) mottles; common (3-5%) small weathered sandstones, hardstones and coal; slightly moist; moderately developed coarse angular blocky structure; high packing density; very firm; very plastic and very sticky; rare fine pores; rare fine fissures; few fine fibrous roots; no visible fauna; non-calcareous; percentage of weathered sandstone increases with depth; unable to break peds with fingers. <b>End of trial pit</b>

**Banks Group: Land at Eastfield, Shepley**  
**Soil Profile Pit Descriptions**

<b>Profile Pit TP2</b>	
<b>Location:</b>	<b>Northeast of main site, near auger boring location 1</b>
<b>OS Grid Reference:</b>	<b>SE 19638 09674</b>
<b>Land Use:</b>	<b>Agricultural – Stubble</b>
<b>Aspect:</b>	Middle of 2-4° slope
<b>Soil type 2:</b>	Very stony, weakly structured heavy clay loam topsoil over extremely stony heavy clay loam subsoil impenetrable beyond 50cm. Sandstone outcrop below 50cm. Absent of mottles in the topsoil, subsoil highly mottled where present. Lower subsoil not reached due to impenetrable sandstones.
<b>Land Quality:</b>	ALC Grade 3b (Wetness Class IV)

<b>Soil Profile 2</b>	<b>Depth (m)</b>	<b>Description</b>
	<b>0-0.29 (topsoil)</b>	Very dark greyish brown (10YR 3/2) heavy clay loam; unmottled. Abundant (10-20%) stone content of hard and weathered sandstones; dry; weakly developed to adherent coarse angular blocky structure; high packing density; moderately firm soil strength; very plastic; very sticky; common fine fibrous roots; few fine fissures; rare very fine macro pores; common dormant earthworms; non-calcareous; abrupt smooth boundary.
	<b>0.29-0.50 (subsoil)</b>	Dark yellowish brown (10YR 4/6) heavy clay loam with many clear distinct dark grey (10YR 4/1 mottles; extremely abundant (30-50%) large hard and weathered sandstones; dry; moderately developed coarse sub angular blocky structure; high packing density; moderately firm soil structure; very plastic; very sticky; rare very fine fibrous roots; rare fine fissures and few very fine pores. No visible soil fauna; non-calcareous; boundary not reached. Sandstone, impenetrable at 50cm to handheld tools.  <b>End of trial pit</b>