

## Sample: 4(46)

### Grain 1:

*Grain colour/opacity:*

- Colourless/Transparent

*Grain shape/texture:*

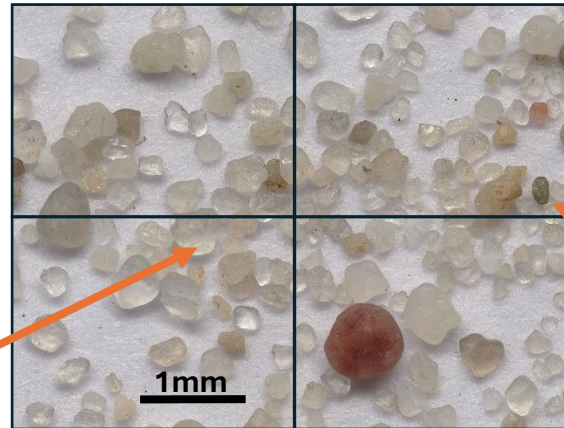
- Sub-rounded
- Spherical
- Angular fractures, polished

*Modal abundance and grain size (estimated):*

- ~90%, 0.1 – 0.5 mm

*Mineral/rock identification:*

- Quartz (mineral)



### Grain 2:

*Grain colour/opacity:*

- Green/Opaque

*Grain shape/texture:*

- Sub-rounded, Sub-spherical
- Smooth surface.

*Modal abundance and grain size (estimated):*

- <1%, 0.1mm

*Mineral/rock identification:*

- Lithic (rock)



### Grain 3:

*Grain colour/opacity:*

- Pink/opaque

*Grain shape/texture:*

- Sub-rounded
- Spherical

*Modal abundance and grain size (estimated):*

- <1%, 1.0mm

*Mineral/rock identification:*

- Feldspar (mineral)

Images courtesy of Jordan Poole  
The University of Liverpool

### Summary:

*Sediment maturity:*

- **Texturally mature:** the grains are generally rounded and spherical with polished edges. **Mineralogically mature:** Primarily quartz grains.

*Provenance:*

- **Distal to the source:** grains are texturally and mineralogically mature.

*Transport history:*

- Non-abraded surfaces demonstrate likely **fluvial transport**. Primarily grain similar size 0.1 – 0.5mm: transport via steady flow velocity.

### Source:

Liverpool

Washed sample of Late Devensian Shirdley Hill Sand.  
Derived almost exclusively from fluvioglacial debris.

Formal grain sample name:

Well sorted, mineralogically and texturally mature sand.