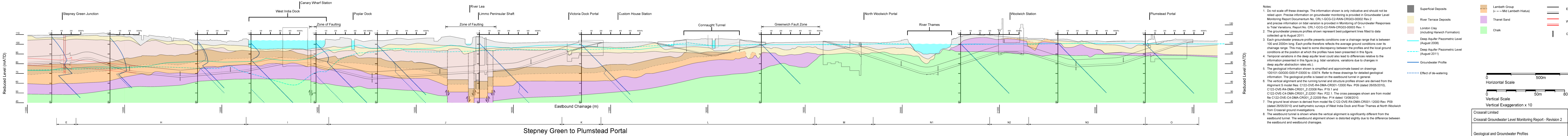


Royal Oak Portal to Pudding Mill Lane



Stepney Green to Plumstead Portal

Notes:

- Do not scale off these drawings. The information shown is only indicative and should not be relied upon. Precise information on groundwater monitoring is provided in Groundwater Level Monitoring Report Documentum No. CRL1-GCG-C2-RAN-CRG03-0002 Rev.2 and precise information on tidal variation is provided in Monitoring of Groundwater Responses to Tidal Variations, Report No. CRL1-GCG-C2-RAN-CRG03-0003 Rev. 1
- The groundwater pressure profiles shown represent best-judgement lines fitted to data collected up to August 2011.
- Each groundwater pressure profile presents conditions over a chainage range that is between 100 and 2000m long. Each profile therefore reflects the average ground conditions over its chainage range. This may lead to some discrepancy between the profiles and the local ground conditions at the position at which the profiles have been presented in this figure.
- Temporal variations in the deep aquifer level could also lead to differences relative to the information presented in this figure (e.g. tidal variations, variations due to changes in deep aquifer abstraction rates etc.).
- The geological information shown is simplified and approximate based on drawings 1D0101-G0G00-G00-P-03000 to -03074. Refer to these drawings for detailed geological information. The geological profile is based on the eastbound tunnel in general.
- The vertical alignment and the running tunnel and structure profiles shown are derived from the Alignment S model files: C122-OVE-R4-DMA-CR001-12000 Rev. P09 (dated 26/05/2010), C122-OVE-R4-DMA-CR001_Z-22009 Rev. P19.1 and C122-OVE-C4-DMA-CR001_Z-22001 Rev. P22.1. The cross passages shown are from model file C122-OVE-C4-DMA-CR001_Z-22009 Rev. P14 dated 13/08/2010.
- The ground level shown is derived from model file C122-OVE-R4-DMA-CR001-12000 Rev. P09 (dated 26/05/2010) and bathymetric surveys of West India Dock and River Thames at North Woolwich from Crossrail ground investigations.
- The westbound tunnel is shown where the vertical alignment is significantly different from the eastbound tunnel. The westbound alignment shown is distorted slightly due to the difference between the eastbound and westbound chainages.

Legend:

- Superficial Deposits
- River Terrace Deposits
- London Clay (including Harwich Formation)
- Lambeth Group
- Mid Lambeth Hiatus
- Thanet Sand
- Chalk
- Eastbound Tunnel
- West bound Tunnel
- Cross Passage
- Deep Aquifer Piezometric Level (August 2008)
- Deep Aquifer Piezometric Level (August 2011)
- Groundwater Profile
- Effect of de-watering

Scales:

Horizontal Scale: 0 to 1000m

Vertical Scale: 0 to 80m

Vertical Exaggeration x 10

Crossrail Limited
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 Geological and Groundwater Profiles

Figure 3.1.2