OLA E= 14/2 1			
GLA 57 Wickham	Valley Brickw	orks Complex	
Grid Reference: Best exposure	e at TQ 4604 7743	Site Type: Former aggregate sites	
Site Area (hectares): 14.67		Current use: Steep inaccessible cliff in front of and behind residential area	
Site ownership: Various		Borough: London Borough of Greenwich	
Field surveyor: Vernon Marks, Paul Rainey, Laurie		Date: November 2010	
Baker Last visited: Paul Rainey, Diana Clements		2014	
Current geological designation: LIGS		Other designation: Borough Grade II SINC (Woolwich Cemeteries and Rockliffe Gardens)	
Site Map OS Topography © 0	Crown Copyright		
Playing Field	Woolwich Cemetery	FO Playing Field Turpin's Cave 34m PW Hill Grove	
Stratigraphy and Rock Ty	East Wickham Op	en Space F" /	
Time Unit: Quaternary	'Undifferentiated Tha	mes Gravels'	
Rock Type:	Includes 'Brickearth'	1100 Clavolo	
Time Unit: Eocene		n Member, Harwich Formation, Thames Group	
Rock Type: Sand and gravel	Details: Sand and pe	obles (mostly round, black), with a fragile brackish Calcitic conglomerate found at certain horizons.	
Time Unit: Paleocene- Eocene	Rock Unit: Upnor and Woolwich Formations, Lambeth Group		
Rock Type: Clay, silt, sand	Details: Glauconitic sands overlain by a unit of blue-grey sand followed by interbedded grey clays and sands with a well-preserved brackish mollusc fauna. Marine Upnor sand at base.		
Time Unit: Paleocene	Rock Unit: Thanet Formation		
Rock Type: Clay, silt, sand	Details: Pale yellow-b	rown fine-grained sand	
Time Unit : Late Cretaceous	Rock Unit: White Cha	ılk Subgroup	
Rock Type: Chalk	Details: Chalk with flin	nts (unseen)	
Site Description			
The complex is the remains of	three adiacent pits:		

- 1) Cemetery Brickyard (1861-1908, now Rockcliff Gardens),
- 2) South Metropolitan Brickyard (1880-1912, reworked for sand in 1940s and 50s) (now Radnor Crescent and Prestwood Close) and
- 3) Gregory's Pit, also known as Wickham Lane Brick Pit (c. 1840-1930) (now between Alliance Road and Wickham Lane.

The area has been entirely built over but behind the garages in Radnor Crescent the tall cliff forming the southern edge of the South Metropolitan Quarry can still be seen through the trees (best viewed in winter). The geology of this cliff is similar to Gilbert's Pit SSSI (GLA 14) except for an unusual unit of blue- grey sand at the top of the Upnor Formation. Woolwich Cemetery is at the top of the cliff but allows no access. A recently installed fence surrounding the base of the c.100m long exposure, perhaps to discourage dumping, allows no access from the bottom either but with binoculars small patches of exposure in midand upper- cliff could still be seen in 2014. All three Brick Works were mixing clay and sand from Upnor, Woolwich and Thanet Formations from their open pits with chalk from their own underground mines but also exploited local 'Brickearth'.

In the 1950s the underground mines were filled with fly-ash slurry and sealed off. Rockcliffe Gardens are of interest as an attempt to develop a major area of subsidence into the mine in 1937.

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Assessment of Site Value					
Geodiversity topic: Lithostratigraphy; sedimentology; palaeontology.					
Access and Safety					
Aspect	Description				
Safety of access	Access no longer possible; scree at the base, still vertical at the top				
Safety of exposure	The remaining cliff is fenced off and overgrown; the rest of the complex is built over.				
Permission to visit	Private land with no access				
Current condition	Overgrown.				
Current conflicting activities	Access and vegetation.				
Restricting conditions	Vegetation				
Nature of exposure	Residual cliff in former quarry complex				
Culture, Heritage & Econon	nic				
Aspect	Description	Rating			
Historic, archaeological & literary associations	There is scope for a geological/industrial archaeology walk through this area and neighbouring former brick pits and chalk mines to the north and chalk pits to the east.	6			
Aesthetic landscape	A fairly striking cliff visible to local residents	4			
History of Earth Sciences	Whitaker, 1889 describes the pits. Geologist Association excursions to the quarries are described in the Proceedings (PGA): Leach & Polkinghorne,1906; Baker & Priest,1919; Leach, 1929, Pitcher, 1948, Epps, 1956. Leach, 1910 and Pearman, 1973 describe the mines. South Metropolitan Brickyard (Radnor Crescent) is also described in GA Guide No. 68, 2012.	4			
Economic geology	Brickmaking in 19 th century and up to 1930. Underground chalk mining until 1920. One pit reworked for sand in 1950s.	4			
GeoScientific Merit					
Geomorphology	Steep valley beneath Harwich Formation plateau which has been quarried leaving a residual cliff	4			
Sedimentology	Upnor Formation, Woolwich Formation and Blackheath Beds (Harwich Formation) are all still visible on the cliff-face, albeit sporadically and illustrate the variability in the succession from marine to estuarine and back to marine with alternating sands, clays and shell bed, with the rounded Blackheath Pebbles at the top. The prominent white band, visible from the base is the shell bed within the Woolwich Formation.	4			
Palaeontology	Brackish fauna in the Woolwich Formations, probably also in	4			

	Blackheath Beds.	
Igneous/mineral/ Metamorphic Geology	None.	0
Structural Geology	None.	0
Lithostratigraphy	Succession of lithology at one site (more accessible at GLA 14, Gilbert's Pit, SSSI). Historically pits were of much interest for nature of unconformities.	4
Potential use	Research; further education; on-site interpretation.	
Fragility	natural overgrowing; weathering/slumping.	
Current Site Value		
Community	Green background.	6
Education	Close to route of Green Chain Walk Geotrail	6
Geodiversity value		
LIGS: Disused quarries included because of their historical significance in the area and the possibility of informing walkers on the Green Chain Walk.		

GLA 57 Wickham Valley Brickworks Complex



From Radnor Crescent.. Photo: Diana Clements 2012