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Table 1: Crossrail Water Consumption Data

450-500	4 years, 2 months	
	(54 Rail Periods ²)	364,361
450-500	5 years, 3 months (68 Rail Periods)	833,926

C310 Thames Tunnel (JV: Hochtief / J Murphy & Sons Ltd)	Tunnelling	The C310 Crossrail Thames Tunnel contract used a mix shield or "slurry" method of tunnelling chalk to carve out twin tunnels of 2.8km from Plumstead to North Woolwich. This method comprised of a sealed, pressurised, air-locked chamber behind the cutter head where the excavated spoil is mixed with bentonite (a mixture of clay and water) to form a liquid. The liquid is then removed through a system of pipework. This method was chosen because of the tidal effect of the River Thames, soft chalk geology and high groundwater level	6 km of tunnels	3 years, 7 months (47 Rail Periods)	405,168
C315 Connaught Funnel Refurbishment & Fit Out (VINCI Construction UK Ltd)	Civils	Connaught Tunnel situated between Custom House and North Woolwich was a Victorian brick lined structure, which was renovated as part of the Crossrail works by C315 (VINCI Construction UK Ltd). The renovations and modifications included removal of existing tracks, lowering the concrete inverts to accommodate the new Crossrail trains and overhead line equipment and create cast steel lined tunnels with a single twin-track concrete box to replace twin single track brick lined tunnels.	Extracted Information 30-35 not available	3 years, 1 month (40 Rail Periods)	4,604
C340 – Royal Victoria Dock Portal (VINCI Construction UK Ltd)	Civils - Portal	C340 involves the construction of the portal at Victoria Dock. The completed structure will form a sloping gradient for the new trains to transition between deep driven tunnels and ground level at the new Custom House Station. The portal also includes an intervention point from track to street level as well as a facility for Mechanical and Electrical Equipment and drainage sump with pumps.	Extracted Information 25-30 not available	3 years, 10 months (50 Rail Periods)	5,538

350 Pudding Mill Lane Portal (Morgan Sindall (Infrastructure) Plc	Civils – Portal	The C350 project comprises the construction of a tunnel portal and a new elevated Docklands Light Railway station at Pudding Mill Lane, plus associated structures to bring the subterranean railway into the above ground existing rail network. The project will also link new Crossrail tunnels to the existing Network Rail infrastructure. Associated works include a reinforced earthwork embankment, six span viaducts and a number of other bridge structures, to realign the track and link to the existing railway. The project scope also includes full mechanical and electrical work for the station works, all track and rail systems, plus highways and hard landscaping works.	Surface Area Approx. 38,877 m ²	45-50	5 years, 9 months (75 Rail periods)	13,143
C360 - Eleanor St & Mile End Shafts (JV: Costain Ltd / Skanska Construction UK Ltd)	Shafts	C360 comprised of the Crossrail intermediate shafts and headhouses at Mile End Park and Eleanor Street (including all associated enabling works), and the construction of the headhouses at Stepney Green, Limmo Peninsula and Fisher Street. These shafts are to provide intervention access to the Crossrail tunnels and in some cases to accommodate tunnel ventilation fans.	Extracted Information not available	35-40	4 years, 6 months (59 Rail Periods)*	26,016
C405 Paddington Station Advanced Piling & Main Works (JV: Costain Limited / Skanska Construction UK Limited)	Station (cut- and-cover box by top down construction)	The C405 Paddington Station Main Works contract consists of a new station box construction using a cut and cover method at the southern side of the existing Paddington Network Rail Station.	260m long, 25m wide and 23m deep	100-150	5 years, 3 months (68 Rail Periods)*	41,472

C412 - Bond Street	Station	The project comprises of the construction of 2 no. 35m	2 x 35m deep	100-150	3 years, 5 months	6,275
Main Station Works	(mined	deep station boxes (250metres apart), using diaphragm	station boxes		(44 Rail Periods)*	0)_/0
(JV: Costain Limited /	tunnels using	walling and secant piling, followed by top-down			(
Skanska Construction	Sprayed	methodology for the excavation and floor construction.				
UK Limited)	Concrete	The project also includes the complete design and				
	Lining (SCL)	installation of all M&E equipment, architectural				
	construction	finishing's, lifts & escalators, and integration with the				
	techniques	existing London Underground station and Crossrail's				
		Systemwide contracts through the connecting tunnels.				
C422 - Tottenham	Station	The Tottenham Court Road station will comprise of a	Extracted			
Court Road Main	(mined	tunnelled station with east and west bound	information	85-90	2 years, 11	4,208
Station Works (Laing	tunnels using	platform tunnels running directly below Soho Square.	not available		months (38 Rail	1)200
O'Rourke	Sprayed	Access to the station will either be from the			Periods)*	
Construction Ltd)	Concrete	Western Ticket Hall located on Oxford Street or from			1 01100057	
,	Lining (SCL)	the Goslett Yard Eastern Entrance both of				
	construction	which accommodate escalators to serve the concourse				
	techniques	areas and passageways which lead				
	•	directly to the running platforms.				
C435 Farringdon	Station	C435 Farringdon Western Ticket Hall was constructed	Western	200-250	2 years, 5 months	17,813
Station Main Works	(mined	using a bottom up technique and Farringdon Eastern	Ticket Hall is		(32 Rail Periods)*	
(JV: BAM Nuttall Ltd /	tunnels using	Ticket Hall was constructed using top down technique.	65m by 48m			
Ferrovial Agroman	Sprayed		Eastern Ticket			
(UK) Ltd / Kier	Concrete		Hall is 70m by			
Construction Ltd)	Lining (SCL)		32m			
	construction					
	techniques					
	comprising 3					
	shafts at					
	Western					
	Ticket Hall					
	and 1 shaft					
	at Eastern					

ticket Hall)

Information not available	100-150	3 years, 11 months (51 Rail Periods)*	5,487
not available	×,	•	
	5	Periods)*	
(
	0		
C			
	100-150	-	19,206
not available		(73 Rail Periods)*	
	30-35	3 years, 3 months	4,268
	50 55		.)200
		(12 11411 1 0110 40)	
		Information not available 100-150 30-35	Information not available100-1505 years, 7 months (73 Rail Periods)*30-353 years, 3 months (42 Rail Periods)

disruption.

C610 Systemwide Main Works (JV: Alstom Transport / TSO / Costain Ltd)	Systemwide	The C610 contract involves undertaking the systemwide fit-out of Crossrail's 42km of twin bored tunnels. As part of this project, a 475m long concrete batching train was commissioned to pour sections of the track slab.	Extracted Information not available	250-300	2 years, 6 months (33 Rail Periods)*	342,884
C807 - Wallasea: Excavated Material By Water (JV: BAM Nuttall Limited / Van Oord UK Ltd)	Excavated Material Transfer Station	The Docklands Transfer Station (DTS) situated in Barking formed part of the C807 Marine Transportation contract which involved the design, construction, operation and management, including maintenance of an excavated materials transfer station, where material was conveyed via a jetty to vessels for transfer to Wallasea Island.	Extracted Information not available	40-45	3 years, 6 months (45 Periods)	17,814

¹This indicates a project that has yet to be completed. Consumption data is still being recorded.

²A Rail Period consists of 4 weeks and there are 13 periods within a financial year.