

# Environment Dashboard - Period 6 2016-17

Period Update
Quarterly Update

Version for Issue October 2016 - Crossrail contract numbers and names and Crossrail worksite names have been deleted and numbers shown in the dashboard (e.g. C001 and Site 1) have been used to illustrate how the information was displayed. Details of works on site have been deleted and replaced by XXXXX.

### Period Overview

**Key Accomplishments**  
The Green Systems Recognition Scheme for promoting positive environmental behaviour was launched at the Environmental Managers Forum.

**Key Issues**  
Management of construction noise and contaminated land at Site 16 have been a key issue during the period.

**Progress Update**  
There is a focus this quarter on contractors preparing waste strategies to cover the fit out works.

### Incidents

26

**Central:** There was one Level 3 incident and sixteen Level 4 incidents during P6. Seventeen incidents were reported in total, an increase from P5 when twenty two were reported. C001 recorded eleven incidents, which have largely been the result of them continuing to carry out site inspections and reporting findings on RIVO as near misses.

**Surface:** There were nine Level 3 incidents in P6. Eight incidents were due to minor oil spills resulting from burst hose pipe or machine failures on site. All spills were contained and cleaned up immediately. One incident related to XXXX.

### Complaints by Location

**Central:** Complaint numbers increased across the central section from eighteen in P5 to twenty five in P6. Twenty four complaints were related to noise and vibration and one was related to site lighting. The most complaints (ten) were reported for Site 5 and are related to XXXXX.

**Surface:** There were twenty one complaints received across the surface section during P6, an increase from P5 when thirteen were reported. Twenty complaints were due to noise and vibration and one related to air quality.

### Complaints by Category

### Construction Waste Diverted from Landfill

#### Rolling 13 Period Performance

**Central:** Crossrail has met the stretch target again this period for the recycling, recovery and reuse of its construction waste. 99% of waste was diverted from landfill during P5, slightly more than in P4 when 97% was achieved.

**Surface:** The surface section met the stretch target this period for the recycling, recovery and reuse of its construction waste. 99% of waste was diverted from landfill in P5, the same as in P4.

### Construction Waste Produced / £100K

Contract	t/100k 2016/17 P5	t/100k Cumulative to 2016/17 P5	Credits
<b>AREA 1</b>			
C001	no data	N/A	
C002	4.17	5.04	3 credits
C003	4.21	4.24	
C004	0.35	4.88	
C005	9.13	4.31	
C006	2.64	2.71	2 credits
C007	1.97	0.84	
C008	0.17	4.23	
C009	no data	2.93	
C010	0.94	10.1	
<b>AREA 2</b>			
C011	0.66	0.7	1 credit
<b>BREEAM target</b>			
		<7.9	

This is a new metric introduced last period (P5). It represents the tonnes of construction waste generated on each contract per £100,000 expenditure. Performance is measured against the BREEAM credit target.

The aim of this metric is to encourage contractors to reduce the amount of construction waste they generate, and to help those contracts striving for BREEAM accreditation to achieve the maximum number of credits available to them.

Contracts C350 and C360 will be added to this metric in due course. The civils contracts (C012, C013, C014) have not been include as these contracts are nearing completion.

### Noise

Contract	Round 5 Performance	Agreed Target	Current Performance	RAG Score	Overall Status
<b>AREA 1</b>					
C001	3	1	1+	Green	Target score met
C002	2+	2	2	Green	
C003	1	2+	1	Red	
<b>AREA 2</b>					
C004	2	2	2	Green	At risk of not meeting target score
C005	1+	2	2	Green	
C006	2	2+3	2	Amber	
C007	3	3	3	Green	Not meeting target score
C008	3	3	3	Green	
C009	3	3	3	Green	
C010	2+	3	2	Green	Not meeting target score
C011	2+	3	3	Green	
C012	2+	3	3	Green	
C013	2+	3	2	Green	Not meeting target score
C014	1	1	1	Red	
C015	1+	2	1+	Amber	
<b>AREA 3</b>					
C016	2	3	2+	Amber	

Noise targets were assigned to each contract according to the sensitivity of the site to noise disturbance. The target scores are: 1 - Compliant, 2 - Beyond Expectations, 3 - World Class.

The measures that can be taken to manage noise and vibration in order to achieve the agreed target are outlined in Crossrail's Noise Supplier Performance Matrix. Noise action plans specific to each contract have been produced in accordance with this. Evidence of the steps taken to manage noise are assessed every period and used to track current performance.

RAG scores for C004 has improved from amber to green this period due to a revised target as a result of reduced scope of works. C013 have not complied with the works information on a number of occasions and are yet to resolve consent issues regarding the blockade works. C006, C015, C010 and C016 need to work through their noise action plans in order to achieve their target score.

### Energy in Construction

15%

All of the carbon and energy models have now been submitted. It is confirmed that for 2016/17 Q1, overall energy reduction across the project is 15%. Crossrail is therefore exceeding the 8% target. Contracts performing below 15% are shown in amber. Updated quarterly: next update due P8.

### BREEAM/CEEQUAL

Contract	BREEAM (B) / CEEQUAL (C)	Progress	Status
<b>AREA 1</b>			
C001 Site 1	C	Achieved	In Progress - on target
C002 Site 2	C	Achieved	
C003 Site 3	C	Achieved	
C004 Site 4	C	N/A	
C005 Site 5	B	Achieved	
C006 Site 6	B	Achieved	
<b>AREA 2</b>			
C007 Site 7	C	Achieved	In Progress - at risk
C008 Site 8	C	Achieved	
C009 Site 9	C	Achieved	
C010 Site 10	B	Achieved	In Progress - unlikely to achieve target
C011 Site 11	B	Achieved	
C012 Site 12	B	Achieved	
C013 Site 13	B	Achieved	N/A
C014 Site 14	B	Achieved	
C015 Site 15	C	Achieved	
C016 Site 16	B	Achieved	Does not apply
C017 Site 17	B	Achieved	
C018 Site 18	B	Achieved	
C019 Site 19	B	N/A	

All contracts are currently on track to achieve their respective targets, except for Site 006 which is considered 'at risk'.

Site 8 final design has been approved with previous provisional BREEAM-scored design elements removed. The contractor is expected to run a further assessment to determine where they are from their earlier 'expected' score of 59.16%. Since the score incorporating elements that have since been scoped-out was close to the 'Very Good' scoring threshold, the contractor is now at risk of not meeting this contractual scoring target.

C000 series contracts have not been included in the table as BREEAM/CEEQUAL are not applicable.

Updated quarterly: next update due P8.

### Emissions Control

87%

NRMM actual rolling performance (% of qualifying construction equipment that has emission control fitted i.e. either tier IIIB or fitted with DPF) increased to 87% for Q1, from 85% for Q4.

NRMM data was not received this quarter for C001, C002 and C003. The data for these contracts is therefore representative of the previous quarter (Q4) and will be updated in time for the next period report (P6) to represent the current quarter (Q1).

Updated quarterly: next update due P8.

### Biodiversity

32%

Location	Units Available	Units Delivered	RAG Score	Delivery Method	Status
Site 1	12.778	0	Red	Planting scheme	Delivered
Site 2	7.062	0	Amber	Planting scheme	
Site 3	0.79	0.79	Green	Green roof	
Site 4	2.157	0	Amber	Green roof	Plan for delivery in place
Site 5	4.476	0	Amber	Planting scheme	
Site 6	1.24	1.24	Green	Green roof	
Site 7	1.4	1.4	Green	Green roof	Delivery at risk
Site 8	1.018	1.018	Green	Planting scheme	
Site 9	2.067	0	Amber	Planting scheme	
Site 10	0.8	0	Amber	Planting scheme	Delivery at risk
Site 11	0.047	0	Amber	Green roof	
Site 12	2.593	0	Amber	Planting scheme	
Site 13	0.306	0.306	Green	Planting scheme	Not commenced but not at risk
Site 14	0.142	0	Amber	Planting scheme	
<b>PROJECT TOTAL</b>	<b>37</b>	<b>5</b>			

Biodiversity accounting has been carried using the DEFRA methodology. The sites listed have been identified as requiring restoration and have potential for biodiversity enhancement. The biodiversity units available have been calculated based on the sites original design and progress towards delivering the units is tracked quarterly.

The Crossrail target is to deliver at least 80% of the 37 biodiversity units available across the project. Currently 13% have been delivered (by contracts showing a green RAG score) and plans to deliver an additional 19% are in place (amber RAG score). Therefore, at this stage, Crossrail is confident that 32% of units will be delivered.

Delivery of the units at Site 1 is at risk due to site design changes and as a consequence, the units available are being recalculated. Delivery of units at Site 2 is under review after proposed changes to the delivery method, from planting to ballast. As a consequence, the units completed are being recalculated but are not expected to differ significantly from those originally available. This change is subject to planning approval by Westminster. Work to deliver the units at Site 5 and Site 10 has not yet begun but the achievement of the units available is not yet considered to be at risk.

Updated quarterly: next update due P8.

### Recycled Content

32.7

Contract	Projected %RC	Performance	Status
<b>AREA 1</b>			
C001	6		NWT complete and quick wins identified and implemented
C002	14		
C003	35		
C004	43		
C005	61		
<b>AREA 2</b>			
C006	46		NWT complete but quick wins not yet identified
C007	54		
C008	20		
C009	41		NWT in progress
C010	36		
C011	37		
C012	37		NWT not started or largely incomplete
C013	48		
C014	68		
C015	52		Contract complete
C016	18		
C017	24		
<b>AREA 3</b>			
C018	37		

C015 are the only contract not to have identified and implemented all of their quick wins. They are required to update the NWT with data on blockwork and review the final percentages. These outstanding tasks were discussed during a focus meeting with C015 in July; updates are awaited.

NWT: NetWaste Tool

Updated quarterly: next update due P8.