Environment Dashboard - Period 13 2014-15

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. C001and 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
Crossrail has been invited to join the GLA's steering group for the new ultra low emissions zone (ULEZ) for NRMM in London so that our experience of implementing emissions control can inform the operation of the ULEZ.

Key Issues
Key issues that remain to be closed out prior to the end of the financial year are :

BREEAM contracts still need to provide costed pathway to excellent.

All contracts are updating their recycled content reporting so that clear targets for improvement can be set for the fit out phase of the works.

Progress update

Work continues to roll out a campaign in early June (to coincide with World Environment Day) aimed at all our sites managing noise in order to reduce the impact on local communities.

Waste & resources

Waste Type	Target	Performance Cumulative	Total to date (t)
Construction	90%	99%	199,765
Excavated Material	95%	99%	5,638,143
Recycled Content	15%	38%	N/A

Resource Type	Average per period	Consumption This period	Total to date (t)
Electricity consumption (kWh)	3,483,021	3,582,721	135,997,089
Fuel consumption (l)	819,549	581,644	32,241,978
Water consumption (m³)	819,549	32,919	1,248,484

Surface Area - Waste Type	Target	Performance Cumulative	Total to date (t)
Construction	90%	96%	9,596
Excavated Material	95%	95%	124,692

Surface Area - Resource Type	Average per period	Consumption This period	Total to date
Electricity consumption (kWh)	74,383	118,340	2,999,934
Fuel consumption (l)	12,723	36,583	970,723
Water consumption (m³)	454	1,272	17,256

Waste: Crossrail remains on target for the recycling and reuse of waste and excavated material and for the use of recycled content in new construction materials.

Resource consumption: Reductions in electricity and fuel consumption are being pursued in conjunction with the Energy in Construction KPI.

Surface: Information was unavailable due to different reporting timetable

Energy in Construction   ⬆ 12.7%   ⬌ 100%

Crossrail's corporate carbon emissions target is to reduce construction energy by 8%. Contractors have provided energy models to show how they are contributing to this target. Currently all contracts have submitted robust models that clearly show what they are doing to contribute to this target.

The overall energy reduction is 12.7% which is an average of all contracts. Therefore the 100% refers to Crossrail meeting the corporate 8% which we are on track to meet.

Operational Energy

This graph plots the operational apparent power loading for stations, shafts and portals. It compares the predicted apparent power loading at Stage E (prepared by the FDC) and Stage F (prepared by the contractor) and is based on the load schedules for the staions. The graph shows whether the power loading has increased (shown in red) or decreased (shown in green). The error bar quantifies the change between stages E to F. The two purple bars indicate additional load that was scoped into Stage F design which was not present in stage E. The graph also shows the stage of the design process - illustrating that five contractor Stage F designs have been accepted by the M&E team in their current form. A number of Stage F designs are under review by the M&E team and a number of Stage F designs are yet to be received.

Consents   E↔ 100%   P↔ 0%   T1↓ 74%   T2↓ 43%

Planning commentary: During P13 there were no draft planning consents.

Environmental commentary: During P13 there were no draft environmental consents.

Traffic 1 commentary: During P13 6 notices met the target (3xC001; 1xC002; 1xC003 and 1xC004) and 1 did not (1xC005).
Traffic 2 commentary: During P13 one submission was recorded and this did not meet the target (1xCO05).

Undertakings & Assurances   ⬆ 100%

Out of 8 contracts that were due to upload evidence into CDT, all did so in accordance with their Commitments Compliance Plan.

No of PIR raised: 0

Emissions Control   86%

Commentary: NRMM actual rolling performance (% of qualifying construction equipment that has emission control fitted i.e either tier IIIB or fitted with DPF) has remained constant since Q2 at 86%.

NRMM dispensation proforma has been officially transmitted to all contractors in an attempt to improve decision making consistency and for record purposes. This tool will ensure a better understanding of compliance with emission control standards across the programme. Guidance documents on completing the dispensation proforma has been supplied to advisors and Tier 1 contractors.

BREEAM   ⬌ 11%

All contracts should be preparing proposals on how to increase their BREEAM status to excellent. C015 is the only contract to submit a full proposal including costing.
C003 has finished works but there remain outstanding BREEAM issues to be provided by the contractor.

Incidents   ⬆ 30

Central Environment Commentary: There were no level 2 incidents during period 13. There were ten Level 3 incidents and 20 Level 4 incidents.

Central Traffic Commentary: There were no level 2 traffic incidents reported in period 13 (NB RIVO ID: 4262301 reported through C001 as a property and traffic incident).

Surface Commentary: Information was unavailable due to different reporting timetable

Complaints - Rolling 13 period

Central: There were 33 environmental complaints for period 13. The majority of these were at Site K (15) and Site J (13) also had a high number of complaints.

The greatest number of Central Section complaints this period was at Site K, with 15. The majority of these were from the residents of XXX who are increasingly being disturbed by the works to the XXX as it progresses to ground level and above. Groutshaft removal works have caused the majority of complaints at Site D this period. The majority of complaints at Site E this period were residential, caused by the SCL preparation (scraping).

Surface: Information was unable due to different reporting timetable

Complaints by category   P ⬇ 43   C 13 P 832

Surface CEEQUAL   ⬌ 86%

The design score work for Site 10 is ongoing. Proposed interim asssessment dates are as follows: Site 11 (2015); Site 12 (May 2015); Site 13 (March 2015); Site 14 (March 2015); Site 15 (March 2015). Site 14 and Site 15 Design Scores to be provided by end 2014. Site 16 BREEAM- on course for "very Good" 55%.