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# CROSSRAIL CENTRAL ARCHAEOLOGY UPDATED PROJECT DESIGN FOR POST-EXCAVATION WORKS

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## CROSSRAIL CENTRAL ARCHAEOLOGY UPDATED PROJECT DESIGN FOR POST-EXCAVATION WORKS

## 1 Introduction

- 1.1.1 In accordance with the Crossrail Act 2008 and the projects' Environmental Minimum Requirements (EMRs), a Generic Written Scheme of Investigation (WSI) for an archaeology investigation programme was prepared and consulted on in 2008.
- 1.1.2 Included within the Generic WSI at Section 6.7, and reiterated in site specific WSIs, is a commitment to define a programme of post excavation assessment and analysis leading to final reports, publications, and permanent archives. Collectively these works are the Crossrail Post-excavation Programme.
- 1.1.3 This document is a generic updated project design (Generic UPD) to address the requirements of the Crossrail post-excavation programme in the central section, and sets out how the scope, specification and programme for completing the post-excavation works shall be defined..
- 1.1.4 The archaeology programme has comprised around 60 separate field investigations since 1992. Around 14 investigations are still in progress. Each field investigation has been concluded with preparation of a Fieldwork Report and an ordered archive of finds (physical artefacts and samples) and data records (both digital and paper based).
- 1.1.5 Each Fieldwork Report contains a section detailing the excavators' conclusions and recommendations for an appropriate further mitigation strategy (if at evaluation stage) or post excavation assessment (if at mitigation stage (see Crossrail Archaeology Specification for Evaluation & Mitigation (including Watching Brief) 2009, and individual site specific WSIs).
- 1.1.6 The purpose of the post-excavation assessment and analysis is to develop a comprehensive understanding of the archaeology at each site through laboratory analysis and appropriate documentary research. Publication then ensures that the significance and research value of the finds can be described in an accessible format for use and appreciation by the public at large and other researchers. This process concludes the Crossrail commitment to 'preserve-by-record'.
- 1.1.7 Exhibitions, popular articles, technical articles, media (press, web, TV and radio outputs) and opportunities for stakeholder engagement, community investment, and contributing to local education objectives and training/work experience shall be included in the post-excavation programme where practicable.
- 1.1.8 This Generic UPD has been prepared to take account of commitments made during preparation of the Crossrail Act (such as Listed Building Heritage Agreements) and the key external standards cited in the Generic WSI. In particular these are the Greater London Archaeology Advisory Service (GLAAS) standards Paper 4 'Reporting, dissemination and publication', 'GLAAS Standards Paper 5 Popular dissemination and communication of archaeology', City of London Department of Planning and Transportation Planning 'Advice Note 3 Archaeology in the City of London', and regional research frameworks (see Generic WSI).

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## 2 Scope

### 2.1 Introduction

- 2.1.1 This Generic UPD sets out the scope, anticipated outputs, resource plan, and delivery programme of post-excavation works for each investigation (or group of investigations) that has been completed in the central section. Both buried archaeological remains and built heritage records (listed and non-listed) shall be addressed.
- 2.1.2 The results of archaeological works undertaken for Crossrail by London Underground (LUL) at Crossrail Tottenham Court Road (Eastern ticket Hall) and Bond Street shall be included, subject to agreement with LUL, within the post-excavation works outputs for the central section.
- 2.1.3 The post-excavation requirements for Crossrail partner organisations, Network Rail (for surface works) and Berkeley Homes (Woolwich Station) are currently planned to be addressed separately. However where there is significant group value in combining post excavation outputs (such as building recording associated with the Great Western Railway) this will be discussed with the relevant project partner. There is no requirement for a post-excavation programme of works for Canary Wharf Group (Canary Wharf Station).
- 2.1.4 The Generic UPD also looks at how Crossrail can contribute to historic environment sustainability indicators through interpretation and display of heritage assets, input to Young Crossrail educational objectives, input to post-construction site reinstatement plans, the art programme, community investments, and wider Crossrail legacy objectives such as donation of heritage assets to third parties. Synthesis of Crossrail outputs with former unpublished excavation archives that relate closely to a Crossrail site shall also be considered.
- 2.1.5 Archaeology contractors instructed to develop specific updated project designs should take account of these indicators and where practicable develop detailed proposals to address them in liaison with the Project Archaeologist.
- 2.1.6 A commercial plan is included at Appendix 9.1.
- 2.1.7 A scope plan is included at Appendix 9.2.
- 2.1.8 The indicative project programme is attached at Appendix 9.3.

### 2.2 Interpretation and display

- 2.2.1 Interpretation and display can provide access to information or display of materials and /or artefacts about the history of the sites that have been investigated. Materials or artefacts maybe displayed within the finished fabric of the stations or over site development (OSD), public areas and restored streetscapes.
- 2.2.2 At its simplest, this may make provision for an interpretation plaque (no/low maintenance) to commemorate or celebrate a particular historical person or event. For example the commemoration of the many dead Londoners that have been moved from below Liverpool St or Charterhouse Square would be appropriate.

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- 2.2.3 Permanent display panels with detailed information built into the ground surface or wall cladding could be another more complex treatment.
- 2.2.4 Artistic representations may include casting artefacts (that are not needed for permanent museum collections), into resin panels in the wall claddings or floor areas. Ideas like this are low cost, permanent and require no maintenance.
- 2.2.5 Central London is very popular with history walking tours and the project has already received requests for information from the City of London Guide Lecturers Association. There is potential to develop a heritage trail linking the Crossrail central London station sites to the archaeology and history of London through inclusion of information at the main station sites or other positions of future public access.
- 2.2.6 Interpretation materials on site shall be considered for Stepney Green, Limmo Peninsular, and the central section stations as part of the updated project design process.

### 2.3 Education

- 2.3.1 Two archaeology exhibition events to educate and inform the public and local communities about the finds made by the Archaeology programme have been completed to date (3000+ visitors in July and Oct 2012).
- 2.3.2 A further short exhibition focussing on the east end of the project is proposed to be prepared for inclusion at a community archaeology event at Stepney City Farm in July 2013.
- 2.3.3 A final projectwide exhibition of archaeology finds is proposed to accompany the launch of a Crossrail Archaeology popular book in 2016.
- 2.3.4 Visits to local schools by the archaeology Contractors are also planned to take place along the route as part of the Young Crossrail programme of events.
- 2.3.5 Options to contribute further to schools teaching of archaeology shall be developed once feedback is received from school visits. This could include developing information for a local history module in collaboration with interested schools.
- 2.3.6 Adult education objectives are being met through a series of talks and lectures delivered to organisations and the public by Crossrail and the archaeology contractors.
- 2.3.7 Lecture texts/images are also proposed to be posted on the project website and /or otherwise published to improve public information access to the archaeology programme.

### 2.4 Media

- 2.4.1 The Project Archaeologist shall continue liaison with the Crossrail Press Team to identify opportunities for media coverage of the archaeology programme throughout the remainder of the fieldwork phases and post-excavation phases.
- 2.4.2 Initiatives include trade and industry media coverage, specialist press (such as Current Archaeology magazine); TV news and documentary inputs, radio and local press coverage. The Crossrail website shall link the public to the archive material generated by internal media coverage and press releases.

### 2.5 Donation of heritage assets

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- 2.5.1 A register of heritage assets that are not required to be retained and reinstated is being maintained by the Project Archaeologist. These will be offered to the wider heritage rail industry or other projects with historic interest and a clear public benefit of reusing assets.
- 2.5.2 To date assets have been donated to several heritage railway projects around the country, the Charles Brooking Architectural Collection, Historic Royal Palaces, and the SS Robin Trust.
- 2.5.3 The Project Archaeologist shall continue to maintain the register and work with the stakeholder teams to make positive use of superfluous historic materials and assets wherever feasible. This work stream supports the project commitment to sustainability and in particular CEEQUAL Section 5 objectives.

## 2.6 Urban realm and stations

- 2.6.1 Where practicable and desirable, historic artefacts and materials may be included in the final station design and urban realm. There are some historic assets that could be successfully restored close to their original position. These include boundary markers taken from buildings now demolished at Farringdon East ticket hall. There is also a listed gazebo from Finsbury Circus Gardens that will be replaced within the restored park in accordance with a Crossrail Heritage Agreement. Other items listed below shall be considered for reinstatement, in some cases possibly in liaison with the art programme.
- Paddington Listed building items such as 19<sup>th</sup> century railings have been removed and are being stored. These could be incorporated into the final urban realm design if appropriate.
  - Paddington wooden sett examples – could be incorporated as a surface feature, with interpretation, in the urban realm design.
  - Instone Wharf dolphins (bollards) - have been retained for possible reuse on site when the river tow path is restored or could be donated to other historic wharf restoration project in the locality.
  - Instone wharf timbers from ship slipway – could be used in an art installation on the River Lea tow path with interpretation. Or could be donated to other historic wharf restoration project or to West Ham football club for use in a public art presentation as a link to the clubs origins at the Thames Ironworks.
  - Three naval cannon – found at Royal Arsenal Woolwich Station site - It is anticipated that the cannon will be retained by Berkeley Homes and incorporated into the urban realm design. It has been suggested that one or more could be donated to Arsenal Emirates Stadium as a link to the club origins at Woolwich Arsenal.
  - Historic architectural salvage from 87 Moorgate are being stored for potential reuse in the restoration of those buildings.

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## 2.7 Art programme

2.7.1 The Crossrail Art Programme is seeking sponsors for major public art installations at the main central stations. The appointed artists have the opportunity to incorporate references to the history and archaeology of the sites in their proposals. The Project Archaeologist shall continue to liaise with the Art Programme Manager to assist with this where appropriate.

## 2.8 Reburial of human remains

2.8.1 License conditions from the UK Ministry of Justice for removal of human remains for Crossrail construction works; require that the remains be reburied following archaeological analysis. The Project Archaeologist shall arrange reburial in liaison with archaeology Contractors once analysis has been completed.

2.8.2 This situation currently relates to works at Liverpool Street Eastern Ticket Hall and Farringdon Eastern Ticket Hall. At Liverpool Street arrangements will be put in place for reburial to take place. At Farringdon, discussions with Charterhouse, London Borough of Islington and the City of London will take place to determine an appropriate course of action for reburial or long term storage.

## 2.9 Artefact ownership

2.9.1 It is anticipated that most retained artefacts are in Crossrail Ltd/TFL ownership. In these cases, title transfers will be arranged with the recipient museums prior to deposition of permanent archives.

2.9.2 Exceptions to this will include artefacts from sites that were not included in the compulsory purchase orders. In these cases landowners (public authority and private) will be contacted by the Project Archaeologist to determine their preferred course of action to archive or otherwise dispose of the finds. In most cases it can be assumed that landowners will wish for the finds to be archived with the Museum of London.

2.9.3 To date, title transfer has been arranged by TFL Property and Legal team for donation of a piece of amber to the Natural History museum. An example transfer agreement form is attached at Appendix 9.6. A similar process will be followed for donation of other items to museums.

## 2.10 Museum deposition

2.10.1 It is anticipated that all central project archives shall be prepared for deposition with the Museum of London.

## 3 Definitions and abbreviations

**Environmental Minimum Requirements (EMR)**- Provide controls which Contractors and others working to build the railway will work under. <http://www.crossrail.co.uk/railway/getting-approval/environmental-minimum-requirements-including-crossrail-construction-code>

**Greater London Archaeology Advisory Service (GLAAS)**- A department of English Heritage. GLAAS provides archaeological advice to local authority planners, developers and their agents, and local people, for 31 London boroughs and maintain the Greater London Historic



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Environment Record. <http://www.english-heritage.org.uk/professional/advice/our-planning-role/greater-london-archaeology-advisory-service/about-glaas/>

**Geoarchaeology-** Geoarchaeology is a multi-disciplinary approach which uses the techniques and subject matter of geography, geology and other Earth sciences to examine topics which inform archaeological knowledge and thought.

**Palaeoenvironment(al) studies-** study of ancient environment to understand evolution of archaeological sites using micro fossils extracted from soils under laboratory conditions.

**Permanent archive-** following the analysis phase, the paper and digital archives, physical artefacts and palaeoenvironmental materials that are to be retained by a museum are prepared for transfer to the relevant museum.

**Post-excavation assessment** - following the fieldwork phase the processed spatial and stratigraphic data, finds and environmental assemblages are subject to a formal assessment to determine what further analysis work shall be required to fulfil the aims of the project. The assessment phase results in a report and updated project design.

**Post-excavation analysis-** following a post-excavation assessment a post-excavation analysis of the fieldwork archive may be required. The outcome of this stage will fulfil the aims of the project and will lead to publication of the results and deposition of the permanent archives.

**Project Design** – see WSI and UPD

**Publications-** publication, either in hard copy or by digital means ensures that the results of an archaeological project are disseminated to the public so that their research potential is fully realised.

**Updated Project Design (UPD)** - A generic or site specific document that sets out the scope, specification, programme, and other information relating to a planned scheme of archaeological post-excavation analysis leading to publication of the results and deposition of the permanent archives.

**Written Scheme of Investigation (WSI)**- A generic or site specific document that sets out the project design (scope, specification, programme, deliverables) and other information relating to a planned scheme of archaeological field works

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## 4 Consultation

- 4.1.1 In January 2012, following two years of progress on the archaeology investigation programme and collation of interim results, Crossrail organised a half day seminar with the framework Contractors; Oxford Archaeology, Museum of London Archaeology (MoLA) and key stakeholders; English Heritage, the Greater London Archaeology Advisory Service (GLAAS), and the City of London Corporation (COL).
- 4.1.2 The purpose of the meeting was to present outline ideas for the post-excavation programme, review the interim results from sites, and gather feedback and suggestion from stakeholders in accordance with commitments made in the Generic WSI. The agenda was:
- Assessment organisation
  - Analysis and synthesis
  - Project Outputs/products
  - Publications
  - Media and education (Public communication)
  - Site Presentation
  - Legacy works and display
  - Archives (museum and digital)
  - Programme
- 4.1.3 Additionally, Crossrail set out strategy priorities for discussion as follows:
- Local synthesis and bringing previous excavation archives into analysis
  - Presentation/interpretation/legacy on site
  - Exhibitions off site
  - Education resources and training opportunities
  - Digital archive accessibility and curators
  - Popular articles/presentations and books
  - Journal articles
  - Printed monographs
  - Museums and online museum resources
- 4.1.4 Stakeholder feedback was provided at the meeting, and in a written response from GLAAS, submitted to Crossrail on 14 May 2012.
- 4.1.5 The overall strategy should take the following comments from GLAAS and COL into account:
- The excavating organisation should produce the post-excavation assessment where required
  - Not every site warrants a stand-alone assessment; some groups can be gathered together thematically
  - Some sites will be of sufficient significance to have their own assessments
  - Data produced for analysis may be carried out by either framework organisation, or indeed completely separate individuals/groups
  - A programme of seminars during the post-excavation process would be beneficial

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- The post-excavation assessment reports could feed into one updated project design (UPD)
- Consider use of collaborative and integrated teams (Cross supplier/drawing on best available staff) for analysis phase
- Flexibility and innovation in outputs
- One popular account (book)
- Make better use of national/regional journals
- Broad Street/Liverpool Street/Farringdon would warrant a separate stand alone publication. Consider collaboration with Wellcome Osteological Research Database (WORD) project
- Make full use of digital data and digital technologies
- Explore legacy dissemination. Sign boards at Stepney Green. Landscape design, interpretation, station display, public art linked to heritage
- Provide a route or forum for reporting lessons learned

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5 Post-excavation inputs and outputs

5.1 Delivery and work streams

5.1.1 The staged delivery for the Crossrail Central Archaeology programme is set out in Figure 1. Forty sub-sites are identified.

5.1.2 Design Stage 1 is complete at all locations except for Ilford Depot. Site Stage 1 is complete at all but 5 locations. Design Stage 2 is complete for all but 5 locations. Site Stage 2 works are complete at 24 locations.

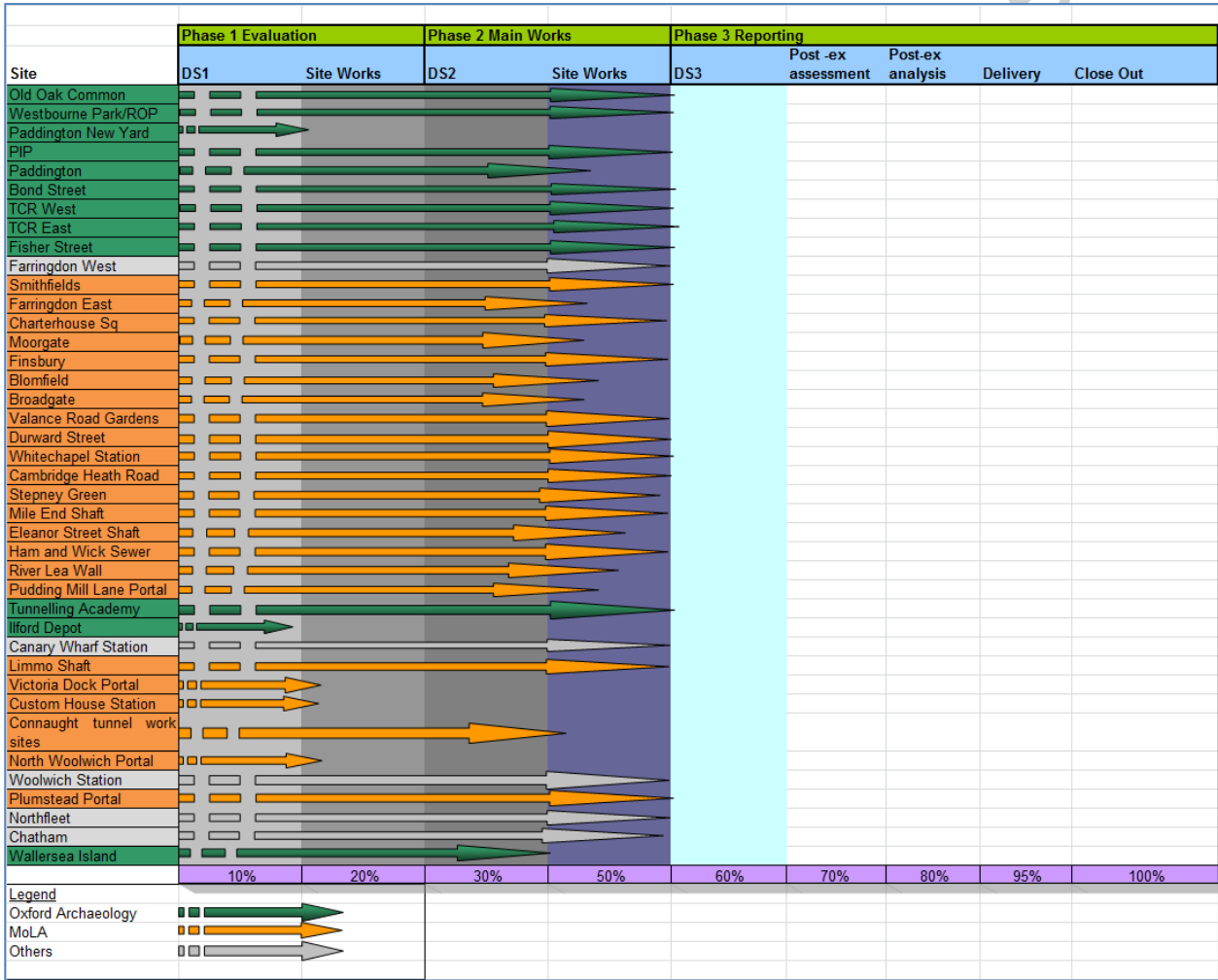


Figure 1 Delivery Stages Crossrail Archaeology Programme, progress to completion

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- 5.1.3 Although there is still a significant proportion of site investigation works to complete, the project is in a position to issue the post-excavation strategy and instructions to framework Contractors to commence elements of the post-excavation scope of work.
- 5.1.4 It is important to ensure a consistent flow of effort to the post-excavation programme from this point forward to avoid programme bottlenecks, Contractor resource issues, and to ensure that the results are distributed to the public domain as soon as is practicable.
- 5.1.5 A number of separate post-excavation work streams are envisaged (numbered CRL1 to CRL20). These are summarised in Appendix 9.4. Suggested publication routes are listed at Appendix 9.5. Options shall be finalised by the Contractors within the updated project designs.
- 5.1.6 Where feasible, publication outputs (particularly journal articles) shall be funded by Crossrail for open access/free to view.
- 5.1.7 Particular attention shall be given by the archaeology Contractor to the scope of any post-excavation assessment and updated project design prior to analysis and publication (see English Heritage 2008 PPN3 and PPN4). Contractors shall minimise the need for any rework or double handling of data in their approach to the assessment phase, and be encouraged to identify innovative methods.
- 5.1.8 Printed publications (produced either by the framework Contractor or Crossrail Publications) shall be enhanced by a digital library of material to be hosted on the Crossrail website, initially. Plans for future-proofing this archive once the Crossrail Ltd organisation is wound down, shall be developed in 2013.
- 5.1.9 Proposals for publication and dissemination should consider use of new technology including e-book formats, audio access, and use of digital applications.

## 5.2 Projectwide outputs

- 5.2.1 There are three research topics which will benefit from a projectwide perspective given the geographical scope of the Crossrail central project.
- 5.2.2 It is planned to produce project specific outputs (an illustrated publically accessible monograph style is anticipated) covering Volume 1: Historic Buildings, Volume 2: Railway Heritage (CRL1 and CRL2).
- 5.2.3 Volume 1: Historic Buildings – Building's records of both listed and non-listed buildings of archaeological interest from across the project shall be synthesised into a thematic publication and enhanced with documentary and possibly oral histories to set a new standard in publication of historic buildings records – there is a real opportunity for innovation and education under this heading.
- 5.2.4 Volume 2: Railway Heritage – A thematic publication drawing together new evidence for the heritage of railways across the project area. A synthesis will include publication of data on the Great Western Railway (GWR) Paddington approaches, Paddington Station, Farringdon London Underground (LU) Station and Smithfields Market, the LU Metropolitan Line at Liverpool Street and Whitechapel, the North London Line and original docklands railway between Custom House and North Woolwich.

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- 5.2.5 There may be scope for the Contractor to combine Volume 1 and 2 into a single publication. Discussions shall also be undertaken with Network Rail to identify how historic building recording products of GWR structures between Paddington and Maidenhead can be incorporated into the publication.
- 5.2.6 Volume 3: The third part (CRL3) would include a Crossrail Technical Paper series: This shall cover issues around the design, management and technical delivery of the Crossrail archaeology programme. These are envisioned to include papers on topics such as projectwide geo-archaeology data and method and technique. These would be prepared by Crossrail and its Contractors and published in house on the Crossrail website following peer review by English Heritage and others such as City of London Corporation.
- 5.2.7 To date three technical papers have been prepared by the Project Archaeologist in this series and presented at the International Conference on Cultural Heritage and New Technologies held annually in Vienna, Austria. Two papers are already published in the conference proceedings (available on line at [http://www.stadtarchaeologie.at/?page\\_id=1678](http://www.stadtarchaeologie.at/?page_id=1678)). A third paper has been submitted for peer review in March 2013 and is due to be published in September 2013. It is anticipated that a further two papers may be prepared in this series between 2013 and 2015.
- 5.2.8 It is proposed that a technical paper in this series shall also look at lessons learnt in response to stakeholder comments and a need to formally capture issues surrounding the inception, design and delivery of the archaeology programme.
- 5.2.9 A Crossrail Technical Paper: East Area Geoarchaeology Report is proposed to synthesise new data collected by the Crossrail project that support a number of topographical research themes including:
- Effectiveness of geo-archaeological studies and evaluation techniques for site prediction and landscape reconstruction
  - Contribution of Crossrail data to the understanding of:
    - lost and buried Thames Tributaries
    - the Holocene development of the Thames north bank terraces, the Lower Lea Valley and Thames Middle Estuary
- 5.2.10 Instructions to the framework Contractors to submit proposals to undertake the work for these outputs will be prepared and issued in the first quarter of 2013.
- 5.2.11 The format of publications arising from these workstreams shall be determined by the appointed Contractor in liaison with Crossrail. Scope, content, and presentation style shall be set out in the Contractors updated project design.
- 5.2.12 A projectwide archaeology book (CRL4), aimed at a public audience and accompanying a final exhibition of finds shall also be prepared by Crossrail internally to coincide with completion of the archaeology programme in autumn 2016. The publication shall be colour illustrated and widely distributed. It shall be designed by the Project Archaeologist and External Relations teams. Options for printing, digital distribution, open/free access or sale shall be developed in 2013.
- 5.2.13 Crossrail will develop a library of digital reports (CRL5) reflecting the research, design and reporting phases for all archaeological works undertaken for the project (to include reports produced by project partners). Content shall be limited to digital PDF copies of

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desk studies, written schemes of investigation and fieldwork reports. An in-house version of this archive has already been developed for use by project staff and key stakeholders.

- 5.2.14 The Project Archaeologist shall work with the Crossrail website manager to develop the further content and transfer the internal archive to the public domain in a phased programme commencing in 2013.
- 5.2.15 A number of collaborative initiatives are in process or under discussion. Collaborative working with third parties is encouraged as it can add value to the outputs of the Crossrail Archaeology programme at low or no additional cost to the project and support the project legacy objectives.
- A collaboration with Natural History Museum has taken place concerning expert assessment of Pleistocene faunal remains recovered from Royal Oak Portal
  - Collaboration with Birkbeck College on the scientific analysis of human remains from the Bethlem Burial Ground, Liverpool Street, commenced in January 2013
  - A collaboration with University of York on analysis of soil residues in post medieval burial contexts is under discussion
  - The Project Archaeologist has provided a seminar on the management of built heritage on the Crossrail project to Kingston University Civil Engineering department
  - Collaboration with English Heritage author Stephen Brindle has been carried out to date for revision of his scholarly book on Paddington Station. It is anticipated that this will continue during preparation of projectwide output Volume 2
  - Collaboration with Museum of London and the Wellcome Institute is planned to address the unpublished evidence from the 1980s Broadgate Excavations into the Crossrail publication for Liverpool Street
  - A collaboration with the SS Robin Trust is proposed to present results of the Crossrail excavations at the Thames Ironworks and other east London sites within the SS Robin new exhibition facilities at Victoria Dock
  - There is potential to display and interpret elements of the Thames Ironworks within the framework of regeneration proposals at the Limmo Peninsular. The Project Archaeologist is to discuss with Crossrail Land and Property team.
  - A collaboration with PTS Consulting at 50 Liverpool Street is under discussion to provide a temporary exhibition space during Crossrail's main excavations for the Broadgate Ticket hall in 2014
  - Collaboration with the Charterhouse and Museum of London archaeology, and local groups, is proposed to undertake an investigation into the archaeology of Charterhouse Square in summer 2014 to coincide with the CBA Festival of British Archaeology. This would take place outside of the Crossrail work site but be promoted and supported by Crossrail and C435 to provide community investment and add value to the Crossrail investigations currently underway at that site.
  - A number of university research teams have expressed interest in working with Crossrail on analysis of skeletal material from the Charterhouse burial ground to further research into ancient disease indicators and DNA genome mapping. Contributions shall be developed during the post excavation assessment for that site.
  - Collaboration with Museum of London Archaeology, C305, and local community groups is proposed to undertake a community dig at Stepney City Farm in July 2013. This would

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enable the local community to take part in a community excavation to investigate and record the preservation of the Tudor Manor House and moat in the north field of the farm

- A potential collaboration with Crossrail, C305, London Borough of Tower Hamlets (Parks and Open Spaces), Stepney City Farm and St Dunstons Church, on developing a heritage trail and presentation of the sites' many historic periods through surviving architecture and buried archaeology
- Crossrail are collaborating with various authors of London history: Gillian Tyndall (author The Fields Beneath: The History of One London Village), Stephen Myers (author London's Hidden Rivers Revealed) providing information to assist in revisions or new titles concerning the history of London
- Additionally a number of post graduate researchers have approached Crossrail for information and these requests have been addressed and logged by the Project Helpdesk

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**5.3 West outputs**

- 5.3.1 Old Oak Common /Westbourne Park/Royal Oak Portal/ Paddington New Yard/Paddington/PIP - analysis and synthesis of railway archaeology results shall contribute to Projectwide output Volume 2.
- 5.3.2 Royal Oak Portal Pleistocene Assemblage and palaeo-topography. An interim publication has been produced and accepted by the Project Archaeologist. It is awaiting publication in the Proceedings of the Geologists Association in 2013.
- 5.3.3 Paddington and Royal Oak Portal – combined analysis and synthesis of Pleistocene sequences, presenting new data and putting that in its local and regional context shall be published as a technical paper in appropriate journal subject to post-excavation assessment (CRL6).
- 5.3.4 Bond Street (BOS), Tottenham Court Road (TCR west and east) and Fisher Street (FIS)– Records of demolished buildings will contribute to Volume 1.
- 5.3.5 West Area Archaeology publication (CRL7): The archaeological evidence from these sites (BOS, TCR west and TCR east, FIS) would support a synthesis across the west area looking at how this part of London developed local industry and post medieval suburban residential development (water supply management and stables at Bond Street and brick making at Soho Square for example) and later development of key local businesses (such as the Crosse and Blackwell offices and factory).
- 5.3.6 The West Area publication may be produced as an in-house Contractor publication, or by Crossrail if a publisher is appointed centrally by the project, or within an appropriate journal. This will be established by the Contractor during preparation of an updated project design.

**5.4 West inputs**

- 5.4.1 Instructions will be issued to Oxford Archaeology to commence work on:
- Updated project design for Projectwide output Volumes 1 and 2 (estimated start date Q1 2013). Building recording records produced in the west section by Wessex Archaeology (C262) and by MoLA for LUL shall be transferred to Oxford Archaeology.
  - Updated project design for West Area Archaeology publication (estimated start date Q1 2013). A post excavation assessment report has been produced by MoLA for LUL at TCR East. It is proposed that Oxford Archaeology work with MoLA to undertake further analysis of the site archive in order to incorporate the results into the final publication.
  - A post excavation assessment for Pleistocene sequences in the west area shall be prepared by Oxford Archaeology once fieldwork is complete at Paddington in the 2<sup>nd</sup> quarter of 2013 (estimated start date Q3 2013)

## CROSSRAIL CENTRAL ARCHAEOLOGY UPDATED PROJECT DESIGN FOR POST-EXCAVATION WORKS

5.4.2 A request to transfer archives of materials relevant to these work streams shall be issued to Wessex Archaeology, Museum of London Archaeology, and relevant framework design consultants who hold documentary data on both listed and non listed building recordings and elements of railway heritage across the project area (estimated start date Q1 2013).

## 5.5 Central outputs

- 5.5.1 **Farringdon** - Records of demolished buildings and railway heritage will contribute to Volume 1 and Volume 2.
- 5.5.2 Roman, medieval and post medieval archaeological evidence shall be published in an appropriate journal article or articles, subject to post-excavation assessment and issue of an updated project design (UPD) to be completed by the archaeology Contractor (CRL8).
- 5.5.3 Works completed for a grout shaft in Charterhouse Square related to the medieval cemetery are being progressed as a standalone assessment task (CRL8a).
- 5.5.4 A presentation/interpretation plan will be included in the UPD correlating archaeological and historical evidence as appropriate into the final urban realm design. There are some historic boundary markers to be replaced in the vicinity.
- 5.5.5 Archaeological investigations within the Crossrail worksites associated with Charterhouse Square have resolved a part of the long standing question of the location of the medieval burial ground. There is an opportunity to collaborate with Charterhouse and the Museum of London (and local voluntary groups) to carry out a community based investigation within the square to further identify the boundary wall of the burial ground and determine the character of further evidence for mass burial.
- 5.5.6 It is proposed that this activity would add value to the results of the Crossrail archaeology investigations, provide an opportunity for local stakeholders to take part in a voluntary work experience programme, and the Crossrail main Contractor to support legacy works to improve understanding of the historic importance of the square. If they took place, the investigations would be published in a booklet to be produced in association with Charterhouse and the Museum of London (CRL9).
- 5.5.7 **Liverpool Street** - Records of demolished buildings and railway heritage from across all four subsites will contribute to Volume 1 and Volume 2.
- 5.5.8 Moorgate subsite and Finsbury Circus subsite – Fieldwork at these two subsites shall be completed up to a year prior to completion of the Broadgate Ticket Hall and Blomfield Box subsites. It is therefore proposed to progress these subsites to publication as early as practicable. Roman, medieval and post medieval archaeological evidence shall be published in an appropriate journal article or articles, subject to post-excavation assessment and updated project design to be completed by the archaeology Contractor (CRL10).
- 5.5.9 A presentation/interpretation plan will be included in the UPD correlating archaeological and historical evidence as appropriate into the final urban realm design. The Finsbury Circus gardens Gazebo (Listed Building) is to be replaced within the site and there is opportunity for interpretation material in the final landscape design for the historic listed garden.

## CROSSRAIL CENTRAL ARCHAEOLOGY UPDATED PROJECT DESIGN FOR POST-EXCAVATION WORKS

- 5.5.10 Broadgate Ticket Hall and Blomfield Box subsites – The two subsites are closely related on archaeological grounds and will follow a similar programme to completion of fieldwork. There are distinct themes or chapters emerging that can be addressed within a single post-excavation assessment and updated project design to be completed by the archaeology Contractor (CRL11).
- 5.5.11 Separate themes may find different locations for final publication. Evidence for the topographic template and environmental history of the Walbrook Valley, effect of the development of the Roman city wall boundary and 1<sup>st</sup> to 3<sup>rd</sup> century AD extra urban development and subsequent development of the Moorfields Marsh could be treated separately from later phases. The setting out and use of the Bethlem Burial Ground represents a separate theme on the site, as does the post burial ground deposition (including significant post medieval worked bone assemblages) and subsequent development of this part of Georgian London.
- 5.5.12 The question of how to best address this diverse range of new archaeological evidence shall be assessed and set out in the updated project design. A single monograph publication may be appropriate, or separate specialist journal articles may better address period specific studies.
- 5.5.13 There is an opportunity for Crossrail to contribute to addressing a long standing backlog project. Up to 400 skeletons from the 1985 excavation of the part of the Bethlem Burial ground remain unpublished, but a final analysis of the assemblage is planned by the Wellcome Institute (MoLA pers. Comm.). Inclusion of the analysis of the 1985 data in the final publication of the burial ground will add significant value to the overall record of the cemetery provided by Crossrail.
- 5.5.14 A presentation/interpretation plan will be included in the UPD correlating archaeological and historical evidence as appropriate into the final urban realm and station design. The historic significance of the site should be acknowledged in the station and/or urban realm design, commemorating in particular, those people who were buried in, and were associated with, the burial ground.

## 5.6 Central inputs

- 5.6.1 Instructions will be issued to Oxford Archaeology to include buildings records and elements of the railway heritage from the Central Section sites within Volume 1 and Volume 2 (estimated start date Q1 2013).
- 5.6.2 Notice to MoLA will be sent out to transfer archive materials for the above tasks to Oxford Archaeology (estimated start date Q1 2013).
- 5.6.3 Instruction shall be issued to MoLA to complete a post-excavation assessment and updated project design for Farringdon once the main fieldwork phase is complete (estimated start date Q3 2013).
- 5.6.4 Instruction shall be issued to MoLA to complete a post-excavation assessment and updated project design for Moorgate and Finsbury Circus once the main fieldwork phase is complete (estimated start date Q3 2013).

## CROSSRAIL CENTRAL ARCHAEOLOGY UPDATED PROJECT DESIGN FOR POST-EXCAVATION WORKS

- 5.6.5 Instruction shall be issued to MoLA to complete a post-excavation assessment and updated project design for the Broadgate Ticket Hall and Blomfield Box once the main fieldwork phase is complete (estimated start date Q3 2014).
- 5.6.6 The Project Archaeologist shall progress discussions with Charterhouse and other stakeholders to establish the viability of a community excavation in Charterhouse Square (estimated start date Q2 2014).
- 5.6.7 The Project Archaeologist shall continue discussions with Birkbeck University College and the Museum of London to establish how additional research value can be added to the post-excavation analysis of the Bedlam cemetery assemblages (estimated start date Q1 2013).

### 5.7 East outputs

- 5.7.1 East Area Geo-archaeology Report (CRL12) – many of the Crossrail investigations in the area have utilised geo-archaeological deposit models in order to predict potentially significant locations for palaeo-environmental sequences and archaeological finds. New data from Canary Wharf, Pudding Mill Lane (including River Lea crossing), Limmo Peninsular, Victoria Dock Portal, Custom House Station, Connaught Tunnel, North Woolwich Portal, and Plumstead Portal shall be combined to produce a thematic publication addressing:
- Effectiveness of geo-archaeological studies for site prediction and landscape reconstruction
  - the Holocene development of the Thames north bank terraces, evidence for tributary channels, the Lower Lea Valley and Thames Middle Estuary

## CROSSRAIL CENTRAL ARCHAEOLOGY UPDATED PROJECT DESIGN FOR POST-EXCAVATION WORKS

- 5.7.2 Whitechapel records of building and railway heritage will contribute to Volume 1 and 2.
- 5.7.3 Archaeological evidence from Whitechapel has been limited. A short journal article or summary report will be completed by the archaeology Contractor (CRL13).
- 5.7.4 Stepney Green (CRL14) – The archaeological evidence at Stepney Green is multi-period and multi faceted. It is also very important locally and much of the restored site will continue to be a source of education within the local community as part of the London Borough of Tower Hamlets (LBTH) park and the city farm.
- 5.7.5 Publications will include a site specific monograph or journal article for a historical archaeology periodical to be produced by the archaeology Contractor, and a summary publication aimed at a local public audience that could be combined with an onsite interpretation plan.
- 5.7.6 A conservation interpretation and management plan is required to address the standing buildings remains and buried archaeology resources at the site. An appropriate way forward is a collaborative project contributed to by Crossrail, main Contractor C305 and closely involving LBTH, Stepney City Farm and other local groups who would take back ownership of the sites once Crossrail is complete.
- 5.7.7 Mile End and Eleanor Street Shafts- Archaeological works have not yet been completed here but finds are predicted to be of minor significance. A London Archaeologist summary report is likely to be the extent of publication (CRL15).
- 5.7.8 At Stepney Green a community excavation is planned to take place in July 2013. A publication of the event is planned to be completed with local volunteer input and circulated locally (CRL16).
- 5.7.9 Pudding Mill Lane Area – Investigation works at Pudding Mill Lane, Wick Lane, the River Lea below-channel crossing, and at the Limmo Shaft site have revealed new archaeological data relating to the River Lea from the medieval period and post medieval periods. Specifically part of a 13<sup>th</sup> century AD river craft and 15-16<sup>th</sup> century AD fish weir. It is proposed that a joint post-excavation assessment, analysis and publication be produced (CRL17).
- 5.7.10 Ilford depot, Essex – Future archaeological investigations addressing the geological significance of Pleistocene Age deposits potentially containing faunal remains and artefacts will be subject to a stand alone publication subject, if required, to post-excavation assessment and updated design once investigations are completed in 2015 (CRL18). Any requirements for publication of results from Wallersea Island will also join this work stream.
- 5.7.11 Limmo Shaft – New geo-archaeology data recorded at this site will contribute to the East Area Geo-archaeology Report and publication on finds from the River Lea.
- 5.7.12 A specific publication shall also be prepared for an appropriate specialist journal or monograph by the archaeology Contractor on the Thames Ironworks and Ship Building Company, subject to an updated project design (CRL19).
- 5.7.13 A great majority of the Thames Ironworks lies preserved on the site. The UPD shall contain a conservation interpretation and management plan to address the buried archaeology resources at the site. This shall determine the possible future of the site and

## CROSSRAIL CENTRAL ARCHAEOLOGY UPDATED PROJECT DESIGN FOR POST-EXCAVATION WORKS

opportunities for future promoters to engage with the industrial archaeology of the site. The site is currently leased from the London Borough of Newham and at least parts of it are included within public open space provision in the council development plan.

- 5.7.14 In liaison with London Borough of Newham (LBN), it maybe appropriate to consider providing interpretation of the finds on the site and/or some form of public art. A community 'iron pour' to make a commemoration of the site for the River Path has been suggested by a third party. Additionally timbers from a shipbuilding slipway discovered at the site have been retained for possible use in a local public art project.
- 5.7.15 SS Robin Trust – The Trust has offered to collaborate in a joint exhibition of finds at their new facility in Victoria Dock after it opens in early 2014. This would be an appropriate opportunity to inform the public of finds made in the eastern section of Crossrail project area as most of the fieldwork shall be completed around that time.
- 5.7.16 Victoria Dock Portal and Custom House Station-Results from both sites will contribute to the East Area Geo-archaeology Report. Buildings records at CUS shall contribute to Volume 1 publication. Further results are as yet unknown, but will join workstream CRL20.
- 5.7.17 Connaught Tunnel – Results shall contribute to the East Area Geo-archaeology Report and also to Volume 2 publication on heritage of the railways and docklands rail.
- 5.7.18 North Woolwich Portal – Results shall contribute to the East Area Geo-archaeology Report and also to Volume 2 publication on heritage of the railways and docklands rail. Further results are as yet unknown but will join workstream CRL20.
- 5.7.19 Woolwich Station (Berkeley Homes) – The post-excavation programme for this site shall be instructed and managed by Berkeley Homes and delivered by Oxford Archaeology alongside other works Oxford are completing within the Royal Woolwich Arsenal site. The results of that work shall be summarised and cross referenced in the Crossrail projectwide popular book publication (CRL4).
- 5.7.20 Plumstead Portal - Results shall contribute to the East Area Geo-archaeology Report. A short journal article in a London based journal such as London Archaeologist or other may be appropriate to publish the details of worked wood finds made in the portal (CRL20). Building records shall contribute to Crossrail Volume 1 publication.

### **5.8 East inputs**

- 5.8.1 Instructions will be issued to Oxford Archaeology to include buildings records and elements of the railway heritage from the East Section sites within Volume 1 and Volume 2 (estimated start date Q1 2013). Future inputs will include addressing any significant results from Ilford Depot and or Wallersea Island.
- 5.8.2 Notice to MoLA will be sent out to transfer archive materials for the above tasks to Oxford Archaeology (estimated start date Q1 2013).
- 5.8.3 Instruction shall be issued to MoLA to complete a post-excavation assessment and updated project design for Limmo Shaft and Pudding Mill Lane (estimated start date Q1 2013).
- 5.8.4 Instruction shall be issued to MoLA to complete a post-excavation assessment and updated project design for Stepney Green (estimated start date Q1 2013).

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- 5.8.5 Instruction shall be issued to MoLA to complete the East Area Geo-archaeology Report (estimated start date Q1 2014).
- 5.8.6 Instruction shall be issued to MoLA to assist with a community excavation at Stepney City Farm. Estimated start date Q2 2013.
- 5.8.7 Instruction shall be issued to MoLA to prepare a short report for publication on finds made at Plumstead Portal (estimated start date Q1 2013).
- 5.8.8 Instruction shall be issued to MoLA to prepare a short report for publication on finds made at Whitechapel (estimated start date Q1 2013).

## 6 Resource plan

### 6.1 Crossrail

- 6.1.1 The post-excavation programme will be designed and supervised by the Crossrail Project Archaeologist based within the technical directorate, working closely with the projectwide area delivery team and up to two assistant archaeologists.

### 6.2 Archaeology framework contractors

- 6.2.1 The Crossrail archaeology framework Contractors shall be engaged to deliver the specified deliverables.
- 6.2.2 Currently 4 packages of archaeology fieldwork are live and on-going, C254 (Oxford Archaeology), C257 (MoLA), C261 (MoLA) and C263 (MoLA).
- 6.2.3 It is proposed that generally the fieldwork Contractor shall continue into the post-excavation phase to deliver post-excavation assessment reports, analysis and publication outputs aligned with Section 5 above. PMIs will be prepared for framework Contractors to offer quotes for completing the post-excavation programme for site specific outputs.
- 6.2.4 However for post-excavation assessment/analysis and publication of projectwide topics, as opposed to site specific outputs, there will be value in aligning that work with a single instruction. It is therefore proposed that C254 Contractor undertake packages CRL1 and CRL2 undertaking the necessary collaboration with other framework contractors to deliver the products.
- 6.2.5 A summary of all the proposed work streams is included at Appendix 9.4

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## 7 Delivery programme

### 7.1 Outline

- 7.1.1 The fieldwork results to date have been reviewed by the Project Archaeologist. A diverse approach to post-excavation works is proposed dependant on research themes and related results, geographical locations, publication options and programme implications.
- 7.1.2 The programme objective is to complete the full schedule of post-excavation work by 30 November 2016. The majority of the work shall be completed before then. Publication output will be streamed over 4 years from 2013 to 2016 rather than be issued in one go at the end of the programme.
- 7.1.3 The first publication (on the Pleistocene Faunal Assemblage from Royal Oak Portal) has already been submitted and peer reviewed and will appear in print in 2013. The final programmed fieldwork is the main excavation at Liverpool Street (Broadgate Ticket Hall) which will complete in November 2014 on site. The final 2 years of the programme shall be focussed on delivering the publications for that site and a popular account of the Crossrail Archaeology programme.

### 7.2 Assumptions

- 7.2.1 The post-excavation programme is presented at Appendix 9.3. This high level chart presents the required programme for each workstream in four phases.
- 7.2.2 Mobilisation – indicates the annual quarter in which Crossrail will issue instructions to the framework Contractor, receive and negotiate quotes, and accept proposal documents. These will include the Contractors scope and methods for assessment and UPD production, proposed preliminary publication outputs, detailed programme to meet key end dates, and resource plan.
- 7.2.3 Delivery Phase 1 – is anticipated to be the maximum duration for preparation of all post-excavation assessment tasks and final updated project design. Contractors will be asked to present each UPD to a formal meeting of Crossrail staff and stakeholders on the due date.
- 7.2.4 Delivery Phase 2 – is the expected duration for analytical tasks and preparation of publication materials. The Close Out period is that in which outputs will be published and distributed and final research archives deposited.
- 7.2.5 Programme 'stretch' targets will be included in all instructions to archaeology Contractors to improve on the programme end dates. No overrun in agreed programme end dates will be considered acceptable.



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### 7.3 Key dates

7.3.1 C254 – Complete by Q2 2014

7.3.2 C261 - Complete by Q4 2014

7.3.3 C263 - Complete by Q2 2015

7.3.4 C257 - Complete by Q2 2016

## 8 Reference documents

COL (n.d) City of London Department of Planning & Transportation. Planning Advice Note 3 Archaeology in the City of London <http://www.cityoflondon.gov.uk/services/environment-and-planning/planning/heritage-and-design/archaeology-and-scheduled-ancient-monuments/Documents/archaeology-planning-advice-note.pdf>

Crossrail Archaeology Generic Written Scheme of Investigation (WSI) (CR-XRL-T1-GST-CR001-00003)

Crossrail Archaeology Specification for Evaluation & Mitigation (including Watching Brief) 2009 (CRL1-XRL-T1-RSP-CRG03-50001)

English Heritage 2008a, Management of Research Projects in the Historic Environment PPN 3: Archaeological Excavation <http://www.english-heritage.org.uk/professional/training-and-skills/training-schemes/short-courses/project-management-using-morphe/>

English Heritage 2008b Management of Research Projects in the Historic Environment PPN 4: Complex Architectural Survey <http://www.english-heritage.org.uk/content/publications/publicationsNew/guidelines-standards/morphe-project-planning-note-4/morpheprojectplanningnote4complexarchitecturalsurveyv1.0.pdf>

English Heritage 2009, Standards for Archaeological Work, London Region, External Consultation Draft, July 2009. Papers 4 and 5 <http://www.english-heritage.org.uk/publications/glaas-standards-for-archaeological-work/>

## 9 Appendices

### 9.1 Commercial plan

All post-excavation works shall be agreed on the basis that pre-approved budgets are met, or improved on and are not exceeded. Archaeology Contractors have indicated a maximum percentage of fieldwork costs to cover required post-excavation works and these have been used to set the investment authority amounts under each awarded Contract package.

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Instructions will be sent to archaeology contractors requesting quotations to be submitted for each workstream. These will be subject to review by the Project Archaeologist, Lead Contract Administrator, Cost Engineer and Project Manager. Final costs shall be negotiated, compared if necessary to rates submitted by other suppliers, and if necessary quotations shall be requested from other framework suppliers if any doubt exists concerning value for money.

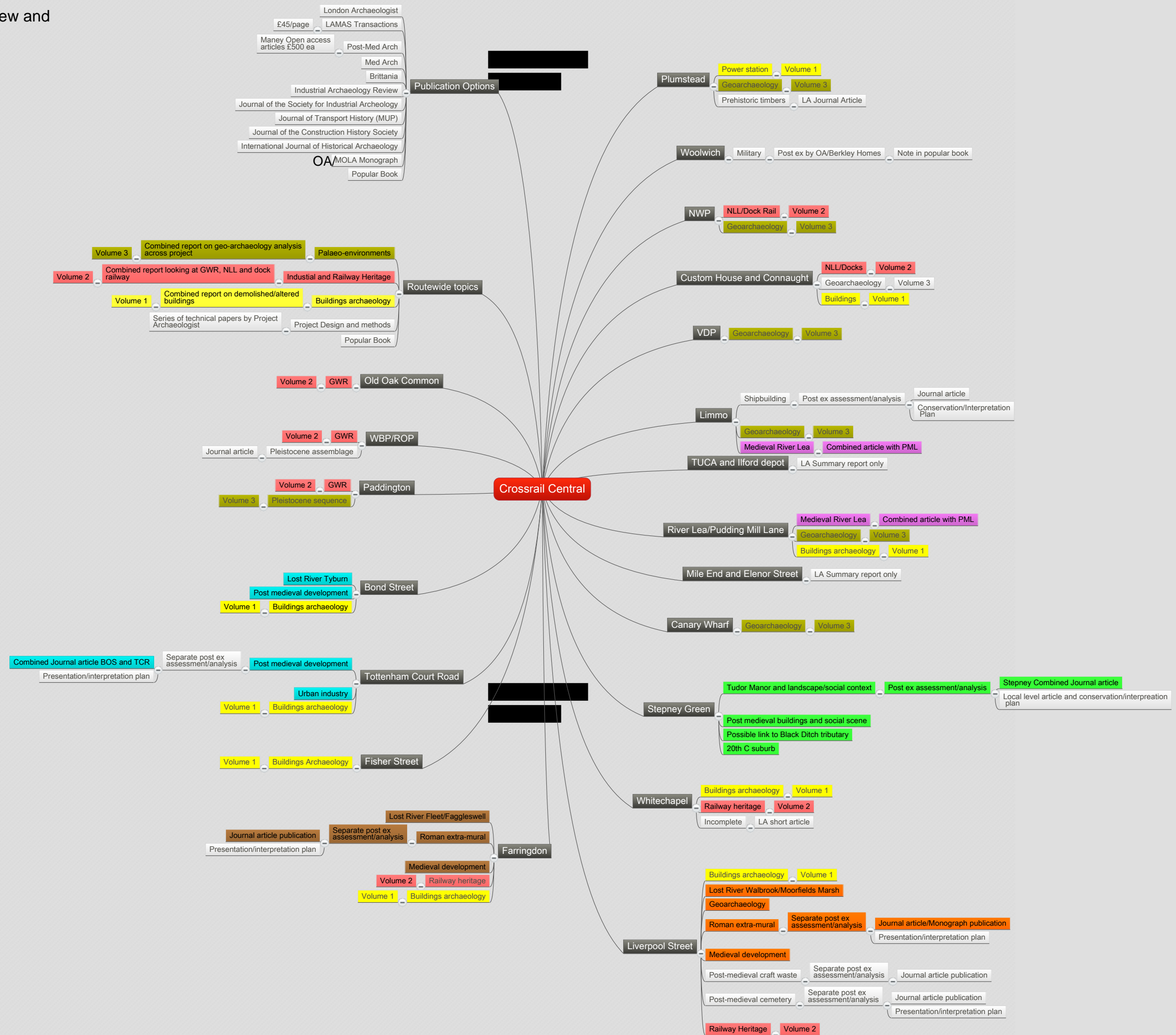
Learning Legacy Document

## 9.2 Scope plan

A diagrammatic scope plan for post-excavation outputs is presented below.

Learning Legacy Document

Crossrail Project 2012  
Post excavation review and  
publication strategy



### 9.3 Programme

A high level programme is presented below.

Learning Legacy Document

Workstream	Title	2013				2014				2015				2016				2017			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<input checked="" type="checkbox"/>	# Task	<div style="display: flex; justify-content: space-between; width: 100%;"> <span>Update Status</span> <span>Extend Plan</span> <span>Move Done's</span> </div>																			
<b>1 Project wide</b>																					
CRL1	Vol 1 Historic Buildings	Green	Blue	Orange	Orange	Black															
CRL2	Vol 2 Railway Heritage	Green	Blue	Orange	Orange	Black															
CRL3	Vol 3 Crossrail Technical Papers	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Black		
CRL4	Crossrail Archaeology Book (public)													Green	Blue	Orange	Orange	Black			
CRL4a	Final archaeology exhibition (Venue TBA)													Green	Blue	Orange	Orange	Black			
CRL5	Website and digital report library		Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Orange	Orange	Orange	Orange	Orange	Orange	Black			
<b>2 West</b>																					
CRL6	Paddington and Royal Oak Portal		Green	Blue	Orange	Orange	Black														
CRL7	West London Area publication (BOS and TCR)	Green	Blue	Orange	Orange	Black															
<b>3 Central</b>																					
CRL8	Roman and Medieval Farringdon			Green	Blue	Blue	Orange	Orange	Black												
CRL9	Farringdon Public Archaeology booklet			Green	Blue	Orange	Black														
CRL10	Roman and Medieval Moorgate and Finsbury Circus				Green	Blue	Blue	Orange	Orange	Black											
CRL11	Roman and Medieval Broadgate and Blomfield Street							Green	Blue	Blue	Orange	Orange	Orange	Orange	Orange	Black					
<b>4 East</b>																					
CRL12	East Area Geoarchaeology Report						Green	Blue	Blue	Orange	Orange	Black									
CRL13	Whitechapel summary report	Green	Blue	Orange	Black																
CRL14	Medieval and later archaeology at Stepney Green	Green	Blue	Blue	Orange	Orange	Black														
CRL15	Mile End and Eleanor Street shafts - summary report			Green	Blue	Orange	Black														
CRL16	Mile End community archaeology event report			Green	Blue	Orange	Black														
CRL17	Archaeology at Pudding Mill Lane, the River Lea and Limmo			Green	Blue	Blue	Orange	Orange	Black												
CRL18	Ilford Depot summary report							Green	Blue	Orange	Black										
CRL19	The Thames Ironworks and Shipbuilding Company	Green	Blue	Orange	Black																
CRL20	Archaeology discoveries at Plumstead and other late east sites				Green	Blue	Orange	Black													
<u>Colour Key</u>																					
	Mobilisation																				
	Delivery Phase 1																				
	Delivery Phase 2																				
	Close Out																				

**Crossrail Project Archaeology post excavation programme Rev 1.0**  
**Target Close out date: 30 November 2016**  
**Programme intervals are indicative only. Close out dates are to be fixed in mobilisation**

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## 9.4 Summary of post-excavation work streams

Workstream	Named output	Lead Resource	Primary Publication output(s)
1	<b>Projectwide</b>		
<b>CRL1</b>	Vol 1 Historic Buildings	C254	Book/digital copy
<b>CRL2</b>	Vol 2 Railway Heritage	C254	Book/digital copy
<b>CRL3</b>	Vol 3 Crossrail Technical Papers	Crossrail	Digital copy
<b>CRL4</b>	Crossrail Archaeology Book (public)	Crossrail	Book
<b>CRL4a</b>	Final archaeology exhibition (Venue TBA)	Crossrail	Exhibition Guide
<b>CRL5</b>	Website and digital report library	Crossrail	Digital resources (PDF)
2	<b>West</b>		
<b>CRL6</b>	Paddington and Royal Oak Portal archaeology (non rail/buildings)	C254	Journal article
<b>CRL7</b>	West London Area publication (BOS and TCR)	C254	TBC by Contractor/ popular booklet
3	<b>Central</b>		
<b>CRL8</b>	Roman and Medieval Farringdon [CRL8a – Charterhouse Grout Shaft]	C257	TBC by Contractor
<b>CRL9</b>	Farringdon Public Archaeology booklet	C257	popular booklet /digital
<b>CRL10</b>	Roman and Medieval Moorgate and Finsbury Circus	C257	TBC by Contractor
<b>CRL11</b>	Roman and Medieval Broadgate and Blomfield Street	C257	TBC by Contractor/incl popular booklet
4	<b>East</b>		
<b>CRL12</b>	East Area Geoarchaeology Report	C263	TBC by Contractor
<b>CRL13</b>	Whitechapel summary report	C261	TBC by Contractor
<b>CRL14</b>	Medieval and later archaeology at Stepney Green	C261	Journal article/ monograph/ popular booklet
<b>CRL15</b>	Mile End and Eleanor Street shafts - summary reports	C261	TBC by Contractor
<b>CRL16</b>	Stepney City Farm community archaeology event report	C261	Booklet/digital
<b>CRL17</b>	Archaeology discoveries at Pudding Mill Lane, the River Lea and Limmo	C261	TBC by Contractor
<b>CRL18</b>	Ilford Depot/Wallersea Island summary reports	C254	TBC by Contractor
<b>CRL19</b>	The Thames Ironworks and Shipbuilding Company	C261	Journal article/monograph/ popular booklet
<b>CRL20</b>	Archaeology discoveries at Plumstead/VDP/Custom House/North Woolwich Portal	C263	TBC by Contractor

CROSSRAIL CENTRAL ARCHAEOLOGY UPDATED PROJECT DESIGN FOR POST-EXCAVATION WORKS

### 9.5 Publication outputs options review

A summary table of possible publication outlets is presented below.

Option	Title (publisher)	Acceptance Criteria	Notes	Cost
Journal article	London Archaeologist	Interim articles on important sites only	2500 word limit	
Journal/ Monograph	LAMAS Transactions/Special Papers	Article or monograph length special paper	Exclusive license required	£45/page cost contribution
Journal article	Post-Med Arch (Maney)	National and international significance only		Open access articles £500 ea
Journal article	Med Arch	International significance, or national significance and of international interest only	5 <sup>th</sup> -16 <sup>th</sup> C Note: 4000 words Paper: <12000 words	
Journal article/note	Brittania	Article or Note on discovery in Roman Britain		
Journal article	Industrial Archaeology Review (Maney)	New research in industrial archaeology (worldwide).	5000-8000 words	Open access articles £500 ea
Journal article	Journal of the Society for Industrial Archaeology	Original material concerning industrial heritage	7500 word limit	
Journal article	Journal of Transport History (MUP)	Must help advance the scholarly field of the history of transport internationally	8000 words	
Journal article	Journal of the Construction History Society	All aspects of construction history except refurb only reports- global significance	8000 words	
Journal article	International Journal of Historical Archaeology	Focuses on the post-1492 period and includes studies reaching into the Late Medieval period. Global issues.	Online or print issue articles	Open access option for a fee
Journal article	The London Journal (Maney)	Articles to enrich understanding of London and its inhabitants	5000-8000 words	Open access articles £500 ea



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Option	Title (publisher)	Acceptance Criteria	Notes	Cost
Project publication	OA/MoLA Monograph/booklet	Contractor to agree style and format with CRL	No restriction	
Project publication	Popular Book	In house publish (with TfL?) or sub Contractor		
External database	Digital archive	Digital archives to be transferred on completion to LAARC or other such as ADS		
Project publication	Exhibitions	To be organised by CRL in house.		

CROSSRAIL CENTRAL ARCHAEOLOGY UPDATED PROJECT DESIGN FOR POST-EXCAVATION WORKS

9.6 Example title transfer agreement form



Object Entry Number: ..... Acquisition Number: .....
---

Transfer of Title to the Natural History Museum

This is to certify that Transport for London (hereinafter called "TfL") is the legal owner of the land from which the item(s) specified below were recovered\*.

TfL has donated the item(s) specified below to the collections of the Natural History Museum, London (hereinafter called "the NHM") to be used for such purposes as the NHM considers appropriate.

TfL hereby transfers such right title and interest as it may have in the item(s) to the Trustees of the NHM (this transfer also includes any rights, including copyright, that may reside with TfL as legal owner)

TfL confirms that it will make no subsequent claim as to ownership of the said item(s) or ownership of rights over said item(s) against the NHM.

TfL understands that the NHM has obligations under UK and EU law (e.g. the Data Protection Act 1998 & Freedom of Information Act 2000). Therefore the NHM is hereby permitted to disclose to third parties any information that it may hold in relation to the item(s) specified below.

In consideration of the above, the NHM hereby agrees to take the item(s) into its safe custody and assume all costs of storage and preservation thereof.

Description of item(s) including date(s) obtained by donor(s):

Five pieces of amber discovered 15 metres below the bed of West India Dock, Canary Wharf during ground investigations for the new Crossrail Canary Wharf Station on [date]

CROSSRAIL CENTRAL ARCHAEOLOGY UPDATED PROJECT DESIGN FOR POST-EXCAVATION WORKS

<b>Signed by/on behalf of the donor(s):</b>	<b>Signed on behalf of the NHM:</b>
Name(s) of donor(s): TRANSPORT FOR LONDON	Signature:..... Curator/Collection Manager/Researcher
Address of donor(s): Windsor House 42-50 Victoria Street London SW1H 0TL	Name:
	Department:
	Date:            /        /
Signature:..... for and on behalf of Transport for London	Signature:..... Head of Collections (or Registrar)
Title:	Name:
Date:            /        /	Date:            /        /

Learning Legacy Document