

LAING O'ROURKE

# Margam Connection; Margam Substation Extension

## WASTE MANAGEMENT PLAN

Prepared by: Laing O'Rourke  
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Waste Management Plan  
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| P01 | M.Wisdom    | R.Jones     | M.Richards  | 8/10/2024     | First issue                              |
| P02 | E.Hutchings | R.Jones     | R.Jones     | 21/02/2025    | Update                                   |
| P03 | M.Wisdom    | R.Jones     | R.Jones     | 25/07/2025    | Revised and renamed to Margam Substation |

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This version of the Resource Management Plan has been issued to:

|  |
|--|
| National Grid Electricity Transmission |
| Local Authority Planning Authority     |
|  |

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Laing O'Rourke, as principal contractor, and the Project Leader (i.e. the "person in charge of the project") will take all reasonable steps to ensure that:-

- (i) 'waste' is minimised and 're-use and recycling' are maximised, in order that materials are handled efficiently and waste is managed appropriately.
- (ii) all waste from the project will be dealt with in accordance with all applicable national waste duty of care laws and regulations



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# 1. Project Details and Commitments

These details are required for learning and some environmental assessment method purposes in order to confirm KPI performance and appropriate levels of responsibility. This document will be updated as and when new information from the supply chain becomes available but at no less than six monthly intervals.

| Project Name   | Client                                 | Estimated Value             |     |
|--|--|-----------------------------|-----|
| Margam Connection – Margam Substation Extension  | National Grid Electricity Transmission | £200m                       |     |
| <b>Short Description of Project</b>  |  |                             |     |
| The Contract is a two-stage contract for a collaborative process to develop the project, including design and planning for construction before the main construction stage. The project includes the extension to the existing Margam 275kV substation which will be reconfigured with new GIS. Existing overhead line circuits and SGT HV connections will be modified and diverted to new bays within the GIS. |  |                             |     |
| <b>Project Waste Benchmarks</b>  |  |                             |     |
| Waste recycled (%)   | 75%                                    | Diversion from Landfill (%) | 99% |
| Site Waste Champion  | Construction Manager                   |                             |     |
| Person directly responsible for ensuring waste licences are up to date (Sections 4.0 and 10.0)   | Environmental Manager                  |                             |     |
| Person directly responsible for recording project waste arisings in LOR waste data system (Waste Tracker):   | Environmental Manager                  |                             |     |
| Project team members likely to have responsibility for supporting delivery of project's waste objectives:  |  |                             |     |
| Project Leader   | Richard Skone                          |                             |     |
| Project Manager  | Rob Jones                              |                             |     |
| Technical Leader   | Ali Sehat                              |                             |     |
| Design Consultants   | Baker Hicks                            |                             |     |
| Commercial Manager   | Paul Jones                             |                             |     |
| Procurement Manager  | Vikram Chopra                          |                             |     |
| Construction Manager   | TBC                                    |                             |     |
| Planning   | Lloyd Lewis                            |                             |     |
| Sustainability Manager   | Rhdori Davies                          |                             |     |





### 3. Waste Management Actions

This plan identifies what will happen to waste from every waste-producing activity on site including office and Welfare waste. The table will be continually updated, with new actions when they are identified.

Waste data will be retrieved from each waste contractor, with spot checking against the WTNs provided. All waste data will be recorded on LOR’s environmental reporting portal on a monthly basis to inform performance against KPIs, including waste minimisation and diversion from landfill rates.

Performance will be reported to National Grid.

The following table is indicative and will be reviewed and update during the development of the detailed design and engagement with relevant subcontractors.

| WASTE IDENTIFICATION INFORMATION |                                   |                          |   |   |   |
|----------------------------------|-----------------------------------|--------------------------|---|---|---|
| Activity/<br>Package             | Waste Materials<br>(row for each) | Estimated<br>volume (m3) | Waste<br>minimisation<br>actions            | Onsite reuse or<br>recycling<br>actions                 | Offsite reuse or recycling<br>actions           |
| Enabling works                   | Soils & Stones                    | 200                      | Minimise site footprint for temporary works | None  | Recycle via permitted facility                  |
| Enabling works                   | Concrete                          | 100                      | Maximise DfMA solutions                     | Reuse of concrete in temporary works and blinding       | Recycle via permitted facility                  |
| Canteen & office waste           | Canteen waste                     | 200                      | reuse of office materials                   | Segregation of waste                                    | Recycle via permitted facility                  |
| Vegetation clearance             | Plant tissue waste                | 50                       | Retain vegetation on site                   | Identify opportunities to retain cut vegetation on site | Identify reuse opportunities on adjoining sites |
| Main Works (groundworks)         | Pile arisings                     | 500                      | n/a   | Reuse of concrete in temporary works and blinding       | Identify opportunities for beneficial reuse     |
| Substructure                     | Concrete                          | 110                      | Maximise DfMA solutions                     | Reuse of concrete in temporary works and blinding       | Recycle via permitted facility                  |
| Substructure                     | Rebar                             | 4                        | Maximise DfMA solutions                     | n/a   | Recycle via permitted facility                  |
| Substructure / superstructure    | COSHH waste                       | 9                        | Identify non-hazardous alternatives         |   | Recycle via permitted facility                  |
| Substructure / super structure   | Mixed construction waste          | 5000                     | Promotion of reuse of materials             | Segregation of waste                                    | Recycle via permitted facility                  |
|                                  |                                   |                          |   |   |   |
|                                  |                                   |                          |   |   |   |
|                                  |                                   |                          |   |   |   |

For all works, contractors and waste providers on the project, the waste hierarchy will be applied, prioritising reduction of materials brought to site (as detailed in the above table from Section 4), and only allowing waste to landfill as a last possible option.



## 4. Waste Arrangements

| Details of Waste Storage Area:  |  |  |
|---|--|--|
| To be included within the construction logistics plan   |  |  |
| Details of Waste Segregation Arrangements, bins, and colour coding of bins:   |  |  |
| During the excavation and enabling works, all muck away materials will be segregated into the categories: gravel, inert, concrete, and tarmac, to allow further processing and reuse. |  |  |
| Hazardous waste containers to be located on site.   |  |  |
| √   | Waste Type (Tick all that apply)   | Colour                                     |
| √   | <b>Hazardous</b>   | orange                                     |
| √   | <b>Inert</b>   | grey                                       |
| √   | <b>Metal</b>   | blue                                       |
|   | <b>Gypsum</b>  | white                                      |
| √   | <b>Wood</b>  | green                                      |
| √   | <b>Packaging</b>   | brown                                      |
|   | <b>Glass</b>   |  |
| √   | <b>Mixed</b>   | Black                                      |
|   |  |  |
| Details of Storage areas for off-cuts and materials, to minimise waste (such information should help inform contractors where to store off-cuts and where to find materials)          |  |  |
| N/A until trades commence pre-start process.  |  |  |
| Hazardous Waste Premises Code:  |  | To be registered prior to commencement     |
| Details of project-specific waste management permits and exemptions:<br>(Tick all that apply, and ensure that these are secured, and kept in the Project Waste file)                  |  |  |
| √   |  | Details                                    |
|   | Permit required for operating soil remediation equipment (NRW)                       | N/A  |
|   | Permit required for operating a waste transfer station (NRW)                         | N/A  |
| √   | Exemption required for re-use of waste on-site (Subject to various conditions) (NRW) | U1 Exemption to be applied for if required |
|   | Exemption required for temporary storage of waste on-site (NRW)                      | N/A  |
|   | Others (please describe...):-  | N/A  |



## 5. Contractors

All contractors and partners should be engaged in the aims of the Resource Management Plan. Depending on the site arrangements defined in section 5 and also how the packages have been procured, sub-contractors could have responsibility for delivering waste to Project controlled waste area; removing some of their own waste with their own waste contractor (common for plasterboard); or even ensuring waste can be collected by a project appointed waste management company. Whichever option has been agreed should be registered below for all major waste producers.

- P** Will be producing waste through on-site activities.
- T** Responsible for transferring their waste to the on-site waste facilities.
- F** Responsible for the provision of on-site waste facilities (typically applies to waste management company only)
- D** Waste removed by their waste own contractor - (all such contractors must supply copies of up-to-date waste carriers' licences and the waste management licences for the facilities to which the waste is taken)

Additional rows will be added as contractors are identified.

| Contractors:    | Package / Activity                 | Contact Name:  | Contact Details:   | Responsibility (P/T/F/D): |
|-----------------|------------------------------------|----------------|--|---------------------------|
| LOR             | General works                      | As above       | As above   | P/T/F/D                   |
| Expanded        | Enabling Works                     | TBC            | TBC  | P/T/D                     |
| Expanded Piling | Piling                             | TBC            | TBC  | P/T                       |
| Expanded        | Excavation                         | TBC            | TBC  | P/T/D                     |
| Expanded        | Substructure                       | TBC            | TBC  | P/T/D                     |
| Expanded        | Superstructure                     | TBC            | TBC  | P/T/D                     |
| GE Verona       | GIS works                          | TBC            | TBC  | P/T/D                     |
| RSK             | Ecological / Vegetation Mitigation | Gemma Williams | <a href="mailto:GWilliams@rsk.co.uk">GWilliams@rsk.co.uk</a> | P/D                       |
|                 |                                    |                |  |                           |
|                 |                                    |                |  |                           |
|                 |                                    |                |  |                           |
|                 |                                    |                |  |                           |
|                 |                                    |                |  |                           |





## 6. Communication and Training

In ensuring that this plan is implemented, the following communication and training activities will be undertaken. Project Team to complete table as appropriate.

| Activity  | Details  | Person(s) responsible  |
|---|--|------------------------|
| Define the Site Waste Rules, display prominently on site, and ensure all staff are aware of them.         | The rules and should define the principles all should follow in managing waste (waste minimisation, appropriate segregation, 'don't walk by', 'reporting problems), and specific relevant to the site's arrangements | Construction Manager   |
| Induction for all staff and operatives, to ensure correct actions and policing of correct actions on site | Explain the priority of minimising waste and waste management procedures on site, labelling of waste facilities, minimising waste and appropriate use of waste facilities by staff, including segregation.           | Project Leader         |
| Ensuring attendance at induction  | Integrated into compulsory site induction course on Health, Safety & Environment   | Construction Manager   |
| Toolbox talks /Briefings  | Especially when persistent issues arise, to ensure all relevant staff are aware of responsibilities to contribute to waste management activities   | Construction Manager   |
| Regular engagements with contractors  | Waste minimisation and waste management is a regular item at regular contractor meetings and/or monthly contract review meetings   | Package Mangers        |
| Project Team meetings   | Waste minimisation and waste management is covered where key issues arise. Performance to be monitored.  | Project Leader         |
| Noticeboards in canteen/welfare area  | To be used to communicate any new waste management procedures, and report waste performance  | Construction Manager   |
| Training  | Whatever training is considered appropriate for implementation of the plan. It is recommended that site security personnel are trained regarding inspection and documentation procedures for waste leaving site.     | Project Leader         |
| Site Environmental Inspection   | Monthly Environmental Inspection covers waste compliance corrective action as required.  | Sustainability Manager |



## 7. Continual Improvement


Record any good practice or new or innovative methodologies implemented by any contractor or Laing O'Rourke during the project.

| Activity  | Details  | Person responsible                        |
|---|--|---|
| Invite all contractors to contribute ideas for how they can minimise waste arisings and waste sent to landfill, at tender stage, pre-start agenda and weekly subcontractor meetings | Define how such actions are identified, recorded, implemented, and checked | Project Leader with Environmental Manager |

## 8. Permits

With respect to the waste management companies (including those removing waste on behalf of sub-contractors directly) that will be removing waste from site, the following table must be completed prior to the removal of waste. The table outlines the waste management permits, waste carrier licences and exempt site permits that have been checked and verified for use. Copies of the licences and permits should be kept in the Environmental Management Folder.

This section to be updated in line with contractor appointments.

|  |   |            |                |            |   |
|---|---|------------|----------------|------------|---|
| Company Name  | Permit Address  | Permit No. | Waste Carriers | Expiry     | Services  |
| Laing O'Rourke  | Margam Substation,<br>Cefn Gwrgan Road, Margam,<br>Port Talbot, SA13 2BZ          | WME108089  |                | 27/03/2028 | U1 - Use of waste in construction   |
|   |   | WME107679  |                | 17/03/2028 | D1 - Deposit of waste from dredging of inland waters  |
| Gavin Griffiths   | JR Works<br>Bryntwod, Langyfelach,<br>Swansea, SA5 7LE                            | EB3397TU   | CBDU6001       | 05/05/2028 | Skip Hire<br>Muck Away<br>Vac Ex<br>Soil Testing  |
| Browns Waste Management   | Tagbite Works,<br>Heol Y Bwlch, Ebynea,<br>Llanelli, Carmarthenshire,<br>SA14 9ST | XB3893HN   | CBDU017087     | 18/02/2026 | Skip Hire<br>Trade Waste  |
| Joe Dunn Plant Limited  | Thornfalcon Works, Henlade,<br>Taunton, TA35DN                                    |            | CBDU516096     | 04/01/2027 | Haulage   |
| Chipmunk (South West) Limited   | Chipmunk South West, Thornfalcon<br>Works,<br>Henlade, Taunton,<br>TA35DN         |            |                |            | T6 - Treating waste wood and waste plant matter by chipping, shredding, cutting or pulverising - 25/10/2027 |
| Garic Limited   | Kingfisher Park<br>Aviation Road<br>Bury<br>BL9 8GD                               |            | CBDU566612     | 20/01/2028 | Wet Service<br>Cabin Hire   |



## 9. Final Performance

These tables are a summary of the waste produced from start to finish of the project and uses the data provided by our waste contractors.

|                                  |  |                                    |  |
|----------------------------------|--|------------------------------------|--|
| <b>Project Value</b> (section 1) |  | <b>Total Waste m3/100k</b>         |  |
| <b>Waste recycled %</b>          |  | <b>Diversion from Landfill (%)</b> |  |

| <b>Waste Type</b>                        | <b>Waste Category</b><br>(demo /cons /haz /total) | <b>Estimated pre-project</b><br>(based on estimates in Section 4)<br>(m <sup>3</sup> ) | <b>Actual quantities of waste produced</b><br>(m <sup>3</sup> ) (from IMPACT) | <b>Comment</b><br>(e.g. differing categorisation / material movement not waste) |
|--|---|--|---|---|
| 170102 Bricks                            |   |  |   |   |
| 170101 Concrete / Binders                |   |  |   |   |
| 170604 Insulation                        |   |  |   |   |
| 170904 Mixed Waste (Non-Haz)             |   |  |   |   |
| 1501 Packaging                           |   |  |   |   |
| 170201 Timber                            |   |  |   |   |
| 1602 Electrical and Electronic Equipment |   |  |   |   |
| 200301 Canteen / Office                  |   |  |   |   |
| 1301 Oils                                |   |  |   |   |
| 1703 Asphalt and Tar                     |   |  |   |   |
| 170103 Tiles and ceramics                |   |  |   |   |
| 1701 Inert                               |   |  |   |   |
| 1704 Metals                              |   |  |   |   |
| 170802 Gypsum (e.g. plasterboard)        |   |  |   |   |
| 170203 Plastics                          |   |  |   |   |
| 200307 Furniture                         |   |  |   |   |

Business

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|   |  |          |          |  |
|---|--|----------|----------|--|
| 170202 Glass  |  |          |          |  |
| 170601* Insulation<br>Containing Asbestos                           |  |          |          |  |
| 1705 Muck Away /<br>Excavated Spoil Off Site<br>(Non-Haz)           |  |          |          |  |
| (Relevant EWC) Liquid<br>Waste / Effluent / Grey<br>Water (Non-Haz) |  |          |          |  |
| (Relevant EWC)<br>Hazardous   |  |          |          |  |
| (Relevant EWC) Floor<br>Coverings                                   |  |          |          |  |
| (Relevant EWC)<br>Architectural Features<br>(e.g. roof tiles)       |  |          |          |  |
| Other   |  |          |          |  |
| <b>Total</b>  |  | <b>0</b> | <b>0</b> |  |