

# Contract Management Plan



Job Number: IS44

Project Name: Pengarnddu SRv

## Contract Management Plan

Incorporating the Construction Phase Health & Safety Plan

Mott MacDonald Bentley Ltd  
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Revision: B

Prepared By: Marcus Yap 16/06/2020

*Mott MacDonald Bentley Ltd  
Engineer*

*Date:*

Checked & Approved By: Quentin Hellis 17/06/2020

*Mott MacDonald Bentley Ltd  
Contracts Manager*

*Date:*

Reviewed\* By:

*Client Representative or delegate –  
Principal Designer, QES Team Member*

*Date:*

**\* Review of this Plan by the Client or nominated delegate confirms that it is considered adequate for construction works to commence. Review does not in any way constitute approval of the Plan.**



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## 1.0 **General:**

### 1.1 **Quality, Environment and Health and Safety Statement:**

#### **Supporting Documents:**

**L153 – CDM 2015 Guidance**

This plan is written in accordance with relevant Statutory Instruments and incorporates the 'CDM Construction Phase Health and Safety Plan' and the project 'Site Waste Management Plan.'

A QES Policy Statement stating commitment to the relevant ISO / OHSAS standards is available for inspection at all of our sites, and details key corporate QES objectives and responsibilities.

As Principal Contractor, Mott MacDonald Bentley Ltd, will communicate and pass information to the Client, Principal Designer, Contractors and Site operatives on any matters where Health & Safety or the Environment may be affected.

Where the Company is involved with any design work this will be carried out in compliance with CDM Regulation 9; and information will be passed to appropriate organisations / personnel in accordance with Regulation 9(4).

### 1.2 **Review and Update of Contract Management Plan:**

This Contract Management Plan is a live document. **The CMP will be reviewed at least once per month and updated (as required).** Details of the review will be recorded in the schedule below, even when no amendments are made.

A copy of the latest version of this document shall be stored in the Site QES File and original signed 'Master Copy' will be scanned onto Bentley CMS (the electronic Contract Management System).

#### **Supporting Documents:**

**L153 – CDM 2015 Guidance;  
BIMS 02-07 Document Control.**

#### **CMP Review Schedule:**

| <b>Revision:</b> | <b>Review Date:</b> | <b>Reviewed by:</b> | <b>COMMENTS:<br/>(inc. Amendment No's made or "no amendments")</b> |
|------------------|---------------------|---------------------|--------------------------------------------------------------------|
| A                | 31/03/2020          | Q Hellis            | <i>For GI works</i>                                                |
| B                | 17/06/2020          | Q Hellis            | <i>For planning application</i>                                    |
|                  |                     |                     |                                                                    |
|                  |                     |                     |                                                                    |
|                  |                     |                     |                                                                    |

| Revision: | Review Date: | Reviewed by: | COMMENTS:<br>(inc. Amendment No's made or "no amendments") |
|-----------|--------------|--------------|------------------------------------------------------------|
|           |              |              |                                                            |
|           |              |              |                                                            |
|           |              |              |                                                            |

### 1.3 Standards:

Mott MacDonald Bentley Ltd operate an integrated QES Management System incorporating the requirements of; ISO 9001, ISO 14001 and OHSAS 18001, and are subject to internal and external compliance audits and performance inspections. A procedure interaction chart showing the structure of our management system is included in Appendix A.

#### Supporting Documents:

Publically Available Specification (PAS) 99;  
ISO 9001: 2008;  
ISO 14001: 2004;  
OHSAS 18001: 2007.

### 1.4 Mandatory BIMS Procedures:

The following BIMS Procedures are applicable on this project: *(\*Please select where appropriate.)*

| Document Ref. No. | Title                                                                | Required? |
|-------------------|----------------------------------------------------------------------|-----------|
| BIMS 01-01        | Quality Policy Statement                                             | Yes       |
| BIMS 01-02        | Environmental Policy Statement                                       | Yes       |
| BIMS 01-03        | Occupational Health & Safety Policy Statement                        | Yes       |
| BIMS 01-04        | Roles Responsibility & Authority                                     | Yes       |
| BIMS 01-05        | Competence Training & Awareness                                      | Yes       |
| BIMS 01-06        | Company Aspects & Impacts                                            | Yes       |
| BIMS 01-07        | Legal & Other Requirements                                           | Yes       |
| BIMS 01-08        | Communication Consultation & Participation                           | Yes       |
| BIMS 01-09        | BIMS Internal Audits                                                 | Yes       |
| BIMS 01-10        | Company Inductions                                                   | Yes       |
| BIMS 01-11        | Management Review                                                    | Yes       |
| BIMS 02-01        | Management of Occupational Health                                    | Yes       |
| BIMS 02-02        | Client Focus                                                         | Yes       |
| BIMS 02-03        | Reputation Management                                                | Yes       |
| BIMS 02-04        | Risk Identification Assessment & Controls                            | Yes       |
| BIMS 02-05        | Estimating                                                           | Yes       |
| BIMS 02-06        | Control of Design<br>(See MMB IMS Manual – MM IMS Manual to be used) | Yes       |
| BIMS 02-07        | Document Control                                                     | Yes       |

| Document Ref. No. | Title                                                   | Required? |
|-------------------|---------------------------------------------------------|-----------|
| BIMS 02-08        | Contract Review                                         | Yes       |
| BIMS 02-09        | Selection & Appointment of Subcontractors               | Yes       |
| BIMS 02-10        | Buying                                                  | Yes       |
| BIMS 02-11        | Management & Control of Subcontractors                  | Yes       |
| BIMS 02-12        | Management of Premises Plant Vehicles & Equipment       | Yes       |
| BIMS 02-13        | Temporary Works                                         | Yes       |
| BIMS 02-14        | Inspection & Testing                                    | Yes       |
| BIMS 02-15        | Control of Inspection Test & Monitoring Equipment       | Yes       |
| BIMS 02-16        | Electrical Safety – Code of Practice                    | Yes       |
| BIMS 02-17        | Control of Project Specific Procedures & Records        | Yes       |
| BIMS 03-01        | OHS Incident Reporting & Investigation                  | Yes       |
| BIMS 03-02        | Environmental Incident Reporting & Investigation        | Yes       |
| BIMS 03-03        | Alerts                                                  | Yes       |
| BIMS 03-04        | Emergency Preparedness & Response                       | Yes       |
| BIMS 03-05        | Monitoring Measurement Analysis & Improvement           | Yes       |
| BIMS 04-          | <b>Administration Procedures Manual (QES Dept Only)</b> | Yes       |

### 1.5 Project Specific Rules and Procedures:

The following Project Specific Rules and Procedures are defined in the contract and/or have been developed on site and apply to this project: (These can be Client-specific or JNB/MMB derived.)

#### Supporting Documents:

**BIMS 02-17 Control of Project Specific Procedures and Records**

| Document Ref. No. | Title                            | Author | Copy to Q&E Advisor? |
|-------------------|----------------------------------|--------|----------------------|
| HSP 811           | Access to Assets                 | DCWW   | No                   |
| HSP 403           | Electrical Procedures            | DCWW   | No                   |
| Appendix 2        | Rule of Two – Incident Reporting | DCWW   | No                   |
| AF01              | AF01 Form access to site         | DCWW   | No                   |
| TAC 1 and 2       | TAC 1 and 2                      | DCWW   | No                   |

### 1.6 Reference Documents:

The following key reference documents have been used in preparing this Contract Management Plan:

- **Contractor Works Information or Pre-tender / Pre-construction Health and Safety Plans;**
- **Client / Project Specific Rules and Standards** *(to be requested pre-construction).*
- **MMB IMS Manual**

## 1.7 Distribution of Contract Management Plan:

|                              |                                                           |
|------------------------------|-----------------------------------------------------------|
| Site QES File                | Live working copy. <i>(To include all review history)</i> |
| Contract Management System   | Original Record                                           |
| Client or Principal Designer | Original Record plus access to site QES File on request.  |

## **2.0 Project Details**

### **2.1 Description of works:**

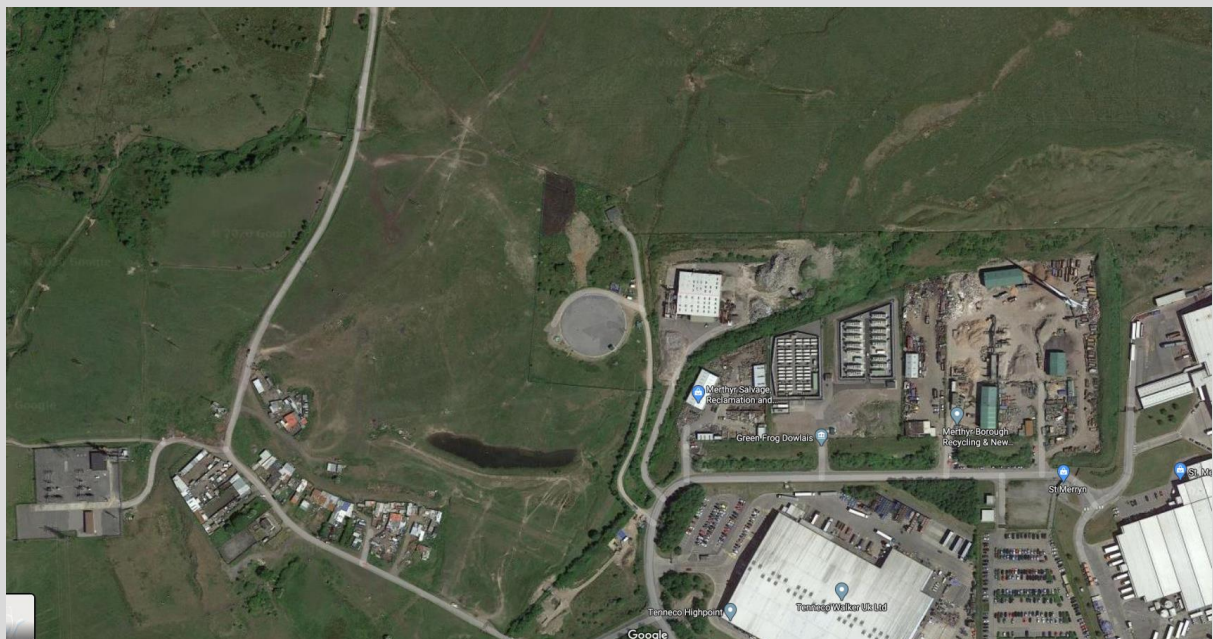
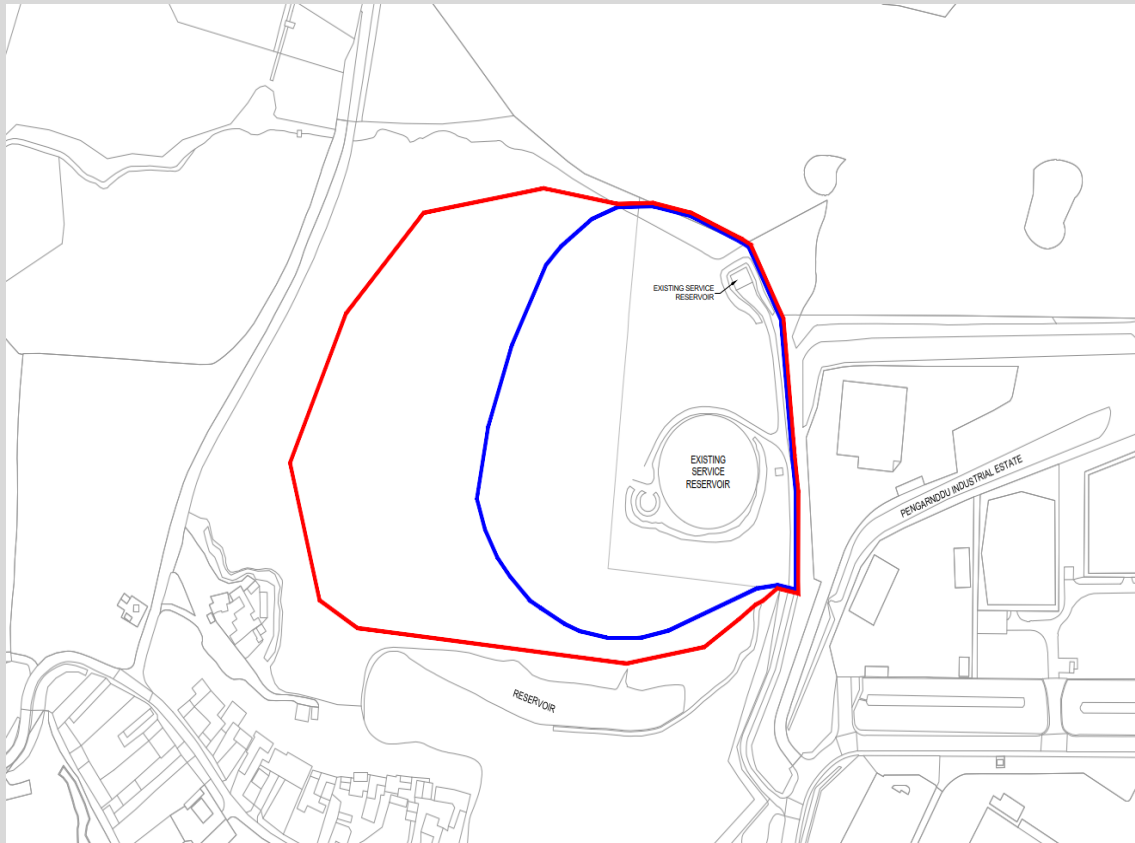
The scheme will include the following construction works:

- Construction of new 9MI twin-compartment Service Reservoir and valve house.
- Connections into existing inlet mains.
- Connections into existing outlet mains.
- Overflow & washout pipework.
- Partial removal of the existing site boundary fence and replacement with new fence line encompassing the increased site boundary.
- New pumping station located inside a kiosk.
- New motor control centre located inside a kiosk.

This version of the CMP will accompany the planning application submission to Merthyr Tydfil County Borough Council.

## 2.2 Site Location:

Pengarnddu Service Reservoir,  
Pengarnddu Industrial Estate,  
Dowlais Top,  
Merthyr Tydfil,  
CF48 2TA



## 2.3 Timescale:

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Contract award / Confirmation Date: | March 2020                          |
| Mobilisation Period:                | 4 weeks                             |
| Contract Start Date:                | April 2021                          |
| Contract Duration:                  | 20 months (end date: December 2022) |

## 2.4 Contact Details for Duty Holders:

### Name and Address of Client:

|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| Client:           | Dwr Cymru Welsh Water (DCWW)                                              |
| Address:          | Pentwyn Road<br>Nelson<br>Treharris<br>Mid Glamorgan<br>CF46 6LY<br>WALES |
| Telephone number: |                                                                           |
| Contact name:     | Chris Herbert                                                             |

### Name and Address of Principal Designer

|                   |                                                                                  |
|-------------------|----------------------------------------------------------------------------------|
| Organisation:     | Mott MacDonald Bentley (MMB)                                                     |
| Address:          | Ty Awen<br>Spooners Close<br>Celtic Springs Business Park<br>Newport<br>NP10 8FZ |
| Telephone number: |                                                                                  |
| Contact name:     | Matthew Thorpe                                                                   |

### Name and Address of Designer:

|                        |                              |
|------------------------|------------------------------|
| Designer Organisation: | Mott MacDonald Bentley (MMB) |
|------------------------|------------------------------|

|                   |                                                                                  |
|-------------------|----------------------------------------------------------------------------------|
| Address:          | Ty Awen<br>Spooners Close<br>Celtic Springs Business Park<br>Newport<br>NP10 8FZ |
| Telephone number: |                                                                                  |
| Contact name:     | Matthew Thorpe                                                                   |

#### Other Contractors:

| Trade / Work Activity:                                                  | Organisation: | Contact Name: | Contact Telephone: |
|-------------------------------------------------------------------------|---------------|---------------|--------------------|
| Pre-cast Concrete Supplier                                              | TBC           |               |                    |
| Formwork and Concrete supplier                                          | TBC           |               |                    |
| Reinforcement supplier                                                  | TBC           |               |                    |
| Pipes and fitting supplier                                              | TBC           |               |                    |
| Valve supplier                                                          | TBC           |               |                    |
| Hot tap contractor                                                      | TBC           |               |                    |
| Waterproofing supplier                                                  | TBC           |               |                    |
| Security alarm supplier                                                 | TBC           |               |                    |
| Security cover supplier                                                 | TBC           |               |                    |
| Other contractors yet to be appointed until scheme is further developed | TBC           |               |                    |
|                                                                         |               |               |                    |
|                                                                         |               |               |                    |
|                                                                         |               |               |                    |
|                                                                         |               |               |                    |
|                                                                         |               |               |                    |
|                                                                         |               |               |                    |
|                                                                         |               |               |                    |
|                                                                         |               |               |                    |
|                                                                         |               |               |                    |
|                                                                         |               |               |                    |
|                                                                         |               |               |                    |

## 2.5 Notification of Project (F10)

A copy of this notification will be prominently displayed on site for the duration of the works and provided to any organisation or persons involved in the project upon request.

*If any of the project details change significantly, details will be passed to the Client for approval to allow for the submission of a revised F10 notification.*

|                                     |                                                                                  |
|-------------------------------------|----------------------------------------------------------------------------------|
| Specified start date*:              | <i>F10 for GI works will be revised ahead of start on site for main contract</i> |
| Specified duration (weeks)*:        |                                                                                  |
| Maximum Number of People on site*:  |                                                                                  |
| Planned number of sub-contractors*: |                                                                                  |
| Expiry date*:                       |                                                                                  |

*\*Above details are to be taken from F10 document.*

## 2.6 CDM Health & Safety File:

### Supporting Documents:

**BIMS02-07 Document Control**

As Principal Contractor, we will ensure that other Contractors pass all required information to our Site Manager, for inclusion in the Health & Safety File.

All information, including that supplied by subcontractors, will be retained either on site, at a permanent office or electronically until completion of works.

Documentation to be supplied to the Client in accordance with the contract at the end of the project shall be handed over in accordance with any Client Specific Handover Procedures.

Information to be compiled for the Health & Safety File or submission to the PD should include (*where applicable*):

| CDM Health and Safety File Contents:                                                                          | Location of Records:                      | Available for Submission? |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------|
| Routes and procedures to be followed to access the site (eg. for maintenance purposes).                       | See QES Workbook - SharePoint             | Yes/ongoing               |
| "As-built" drawings.                                                                                          | SharePoint and onsite                     | Ongoing                   |
| General details of the construction methods. *                                                                | TBC/ SharePoint                           | Ongoing                   |
| Technical / Product Data Sheets for key materials / items used. **                                            | SharePoint/ O&Ms                          | Ongoing                   |
| Key Supplier / Sub-contractor contact details ( <i>for spares / replacements</i> ).                           | SharePoint/O&Ms                           | Ongoing                   |
| Design criteria for elements of scheme for which the Principal Contractor or sub-contractors are responsible. | See specifications for works - Sharepoint | Ongoing                   |
| Unexpected hazards encountered during construction.                                                           | QES reports/Share                         | Ongoing                   |

|                                                                                                          |                                   |         |
|----------------------------------------------------------------------------------------------------------|-----------------------------------|---------|
|                                                                                                          | point                             |         |
| Location & nature of the utilities and services encountered.                                             | Sharepoint                        | Ongoing |
| Details of ground conditions encountered.                                                                | Site Engineering File/ Sharepoint | Ongoing |
| Residual hazards with regard to maintenance, cleaning & demolition.                                      | Sharepoint                        | Ongoing |
| Details of the contents of Operation & Maintenance Manuals for plant & equipment installed in works. *** | Sharepoint/O&Ms                   | Ongoing |
| Inspection and test records.                                                                             | TBC/ Sharepoint                   | Ongoing |
| Details of any hardware items / spares and/or control software handed over.                              | Sharepoint/ O&Ms                  | Ongoing |

*\*Note; only as much information as would be of relevant use / aid to any party carrying out subsequent alteration or demolition of the project, eg. specific sequencing for removal of structural members or isolating systems). (This in general DOES NOT include method statements produced at the time of construction).*

*\*\*Particularly those that may be susceptible to wear/tear, damage & replacement, eg. Windows, taps & switches but NOT concrete).*

*\*\*\*Including recommended cleaning / lubrication chemicals with associated CoSHH data.*

### 3.0 Existing Conditions:

Note: - this section records / describes how the existing environment will impact on the construction process. The impact of the construction process on the environment (and the mitigation of those impacts) is recorded / described in Section 7.

#### 3.1 Existing Operations (current use of site)

The existing site comprises of

- 9ML single compartment Service Reservoir
- 0.1ML single compartment Service Reservoir
- Pumping station and kiosk.
- Site security fence.
- Site access road.

Water is pumped to the Service Reservoir from Pontsticill Water Treatment Works. The Service Reservoir supplies approximately 10,680 properties to the north and north-east of Merthyr Tydfil, south Wales.

#### 3.2 Neighbours / Stakeholders (e.g. residential or businesses)

|    | Neighbour                                                                                                                    | Requirement /<br>Restriction<br>Imposed                 | Control Measures                             | Person<br>Responsible for<br>Monitoring |
|----|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|-----------------------------------------|
| 1. | Industrial area to the East including: Abbatoir, recycling centre, shopping centres, concrete plant and several scrap yards. | Traffic movements<br>Noise                              | Traffic Management Plan<br>Comms Plan        | Site Manager                            |
| 2. | Site is in the vicinity of semi-permanent dwellings.                                                                         | Traffic movements<br>Noise<br>Times<br>Material Storage | Traffic Management Plan<br>Security measures | Site Manager                            |
| 3. | Residential                                                                                                                  | Noise<br>Times                                          | Traffic Management Plan                      | Site Manager                            |
|    |                                                                                                                              |                                                         |                                              |                                         |
|    |                                                                                                                              |                                                         |                                              |                                         |
|    |                                                                                                                              |                                                         |                                              |                                         |
|    |                                                                                                                              |                                                         |                                              |                                         |
|    |                                                                                                                              |                                                         |                                              |                                         |

*Consider the following (\*list not exhaustive):*

| Possible Neighbours:  |                   |                           |                           |
|-----------------------|-------------------|---------------------------|---------------------------|
| School                | Road user         | Airport                   | Telecoms                  |
| Hospital              | Pedestrian        | Canal                     | Power Generation / Supply |
| Residential           | Cyclist           | Church / Place of Worship | Docks / Ports             |
| Business (eg COMAH)   | Rail              | Ministry of Defence       | Offshore                  |
| Typical Restrictions: |                   |                           |                           |
| Noise                 | Traffic Movements | Ecology                   | Fumes                     |
| Vibration             | Times (eg School) | Dust                      | Shared Access             |
| Access                | Materials Storage | Chemical Storage          |                           |

### 3.3 Adjacent Construction Works / Operations:

Mott MacDonald Bentley Ltd will liaise with adjacent Contractors on the same or neighbouring sites as identified below:

| Adjacent Works or Activity:        | Contractor: | Contact Name: | Coordination Frequency / type |
|------------------------------------|-------------|---------------|-------------------------------|
| DCWW operational activities at SRV | DCWW        | Andy Burr     | Weekly comms                  |
|                                    |             |               |                               |
|                                    |             |               |                               |

### 3.4 Existing Structures / Occupied Premises:

The following table comprises a list of any structures on the site which are to be worked in, on, or around and the measures to be employed in order to prevent any damage. Where any of the structures are to be modified a brief explanation as to how this is to be done is included.

| Structure/premises owner/occupier | Structure/premises to be worked in, on or around: | Control measure to prevent damage:                                                   |
|-----------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------|
| DCWW                              | Existing service reservoir                        | Existing service reservoir will not be impacted or modified as part of GI activities |
|                                   |                                                   |                                                                                      |
|                                   |                                                   |                                                                                      |

### 3.5 Existing Buried / Overhead Services

#### Supporting Documents:

Operational Safety Standard 111;  
HSG147, Avoiding Dangers from Underground Services;  
GS6, Avoiding Dangers from Overhead Cables.

| Owner                      | Type and location                                              | Service location plan reference number                                   |
|----------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|
| Wales and West Utilities   |                                                                | Job Ref: 15240170<br>Site Location: 307389 208663                        |
| Western Power Distribution | Buried LV cables                                               | Job Ref: 15246658<br>Site Location: 307556 208943                        |
| DCWW                       | Buried process pipework, ducts, drainage                       | Refer to Existing Site Constraints Plan B10237-123532-ZZ-XX-DR-ZA-SD0072 |
|                            | Overhead telecoms                                              |                                                                          |
|                            | Other unknown buried services as detected in geophysics survey |                                                                          |

The Site Manager will detail any site specific arrangements and control measures, where services are expected on site, in task specific RA/MS in accordance with OSS111.

### 3.6 Existing Traffic Circulation / Access and Egress Points:

Describe the traffic flow around the site and any restrictions that exist (such as height, weight, speed, time limitations).

*Site access is from narrow unnamed country lane into trunk main scheme site car park. For GI works – trunk main scheme contractors traffic management should be followed.*

#### Additional Site Specific Traffic Restrictions: *(Please tick all that apply)*

| Local Authority Planning Restriction                                        | Y/N | Physical                           | Y/N | Local Community          | Y/N |
|-----------------------------------------------------------------------------|-----|------------------------------------|-----|--------------------------|-----|
| 1. Times                                                                    | Y   | 7. Height restrictions             | Y   | 15. School               | N   |
| 2. Permissive routes                                                        | N   | 8. Weight restrictions             | N   | 16. Housing estate       | N   |
| 3. Bus only lanes                                                           | N   | 9. Width restrictions              | N   | 17. Pedestrian zones     | N   |
| 4. + 2 lanes                                                                | N   | 10. Gradient                       | N   | 18. Traffic calmed zones | N   |
| 5. Toll road/bridge                                                         | N   | 11. Limited Turning circle         | N   | 19. Other:               | N   |
| 6. Other:                                                                   | N   | 12. Poor/tight junctions           | N   |                          |     |
|                                                                             |     | 13. Existing Security Arrangements | N   |                          |     |
|                                                                             |     | 14. Other:                         | N   |                          |     |
| Control Measures:                                                           |     |                                    |     |                          |     |
| 7 – Height restrictions when passing under overhead telecoms cross the site |     |                                    |     |                          |     |
|                                                                             |     |                                    |     |                          |     |
|                                                                             |     |                                    |     |                          |     |
|                                                                             |     |                                    |     |                          |     |

|  |
|--|
|  |
|  |

### 3.7 Other Restrictions that may Affect Work: *(task specific or client imposed)*

The following additional restrictions have been identified through the specification or other means (e.g. process flow restrictions, planning permissions, environmental assessments, etc.).

| Owner | Restriction                                      | Duration             | Control                                                          |
|-------|--------------------------------------------------|----------------------|------------------------------------------------------------------|
| MMB   | Ecological mitigation measures                   | Throughout the works | Refer to Section 6.1                                             |
| DCWW  | Connections into existing SRv and new trunk main | Throughout the works | Construction programme to update to account for any restrictions |
|       |                                                  |                      |                                                                  |
|       |                                                  |                      |                                                                  |
|       |                                                  |                      |                                                                  |

### 3.8 Ground Conditions:

An assessment of ground conditions must be undertaken either by the Client or JNB / MMB where structures or load bearing temporary works are to form part of the scope of works. This assessment may include, *but not be limited to*; Trial Pits, Boreholes, California Bearing Ratio, Shear Vane, Tri-axial, Plastic Index, Plastic Limit, Moisture Content etc.

| Assessed by: | Yes / No | Further Actions:                          |
|--------------|----------|-------------------------------------------|
| Client       | Yes      | Complete Table below if yes               |
| JNB / MMB    | Pending  |                                           |
| Not required |          | <i>Do not complete table below if N/A</i> |

| Trial hole/bore hole number | Location  | Type of Inspection or Test                                                                                                                                             | Test results<br>(If applicable) |
|-----------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 5 No. Boreholes             | GI Report | Moisture content<br>Atterberg limit<br>Particle Size Distribution<br>Compaction<br>Shearbox (small)<br>Oedometer<br>Hand Vane<br>Point Load Test<br>Full SD1 BRE Suite |                                 |
| 22 No. Trial Pits           | GI Report |                                                                                                                                                                        |                                 |

| Trial hole/bore hole number                                      | Location | Type of Inspection or Test | Test results<br>(If applicable) |
|------------------------------------------------------------------|----------|----------------------------|---------------------------------|
| Is further testing / ground improvement required? (Detail below) |          |                            |                                 |
| N/A                                                              |          |                            |                                 |
|                                                                  |          |                            |                                 |
|                                                                  |          |                            |                                 |
|                                                                  |          |                            |                                 |

#### 4.0 **Management of the Site:**

##### **Supporting Documents:**

BIMS 01-04 Roles, Responsibility and Authority;  
 BIMS 01-05 Competence, Awareness and Training;  
 BIMS 02-09 Selection and Appointment of Subcontractors;  
 BIMS 02-11 Management and Control of Subcontractors.

#### 4.1 **Contract Organisation:**

*See Appendix J for Organisation Table.*

#### 4.2 **Key Responsibilities:**

The Mott MacDonald Bentley Ltd Framework Manager has overall responsibility for ensuring that Bentley Integrated Management System procedures are implemented and enforced on each project. The Contract Manager and Site Manager are each responsible for discharging their responsibilities as set out in the individual management system procedures. Other key responsibilities are indicated in the schedule below. (Please complete).

##### **Supporting Documents:**

L153 – CDM 2015 Guidance;  
 BIMS 01-08 – Communication, Consultation and Participation,  
 BIMS 02-14 Inspection and Testing;  
 BIMS 03-05 Monitoring, Measurement, Analysis and Improvement.

*See Appendix J for Key Responsibilities Table.*

#### 4.3 **Appointment of Temporary Works Coordinator:**

To comply with the requirements of BIMS02-13; Management of Temporary Works and BIMS 02-13.1 PSR – Temporary Works Co-Ordinator the following person(s) is/are appointed as the project Temporary Works Coordinator (TWC):

| Name | Position |
|------|----------|
|------|----------|

|                              |                                  |
|------------------------------|----------------------------------|
| Quentin Hellis / Justin Webb | Programme Manager / Site Manager |
|------------------------------|----------------------------------|

|                                                                                              |
|----------------------------------------------------------------------------------------------|
| <b>Supporting Documents:</b>                                                                 |
| BIMS 02-13 Management of Temporary Works.<br>BIMS 02-13.1 PSR – Temporary Works Co-Ordinator |

#### 4.4 Temporary Works Schedule:

|                                                                                    |
|------------------------------------------------------------------------------------|
| <b>Supporting Documents:</b>                                                       |
| BIMS 02-13 Management of Temporary Works.<br>BIMS 02-13.2 Temporary Works Schedule |

Information relating to the Temporary Works Design will be stored in the following Locations:

|                                                      |                                   |
|------------------------------------------------------|-----------------------------------|
|                                                      | <b>Location:</b>                  |
| Temporary Works Design Information/<br>Calculations: | Site Engineering File - Section 1 |
| Temporary Works Schedule:                            | Site Engineering File - Section 1 |

#### 4.5 Supplier Selection Process:

|                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|
| <b>Supporting Documents:</b>                                                                                               |
| BIMS02-09 Selection and Appointment of Subcontractors;<br>BIMS02-12 Management of Premises, Plant, Vehicles and Equipment. |

Sub-contractors will be selected in accordance with our procedure BIMS02-09 'Selection and Appointment of Subcontractors'.

Suppliers of hired plant and equipment will be selected in accordance with our procedure BIMS02-12, Management of Premises, Plant, Vehicles and Equipment.

#### 4.6 Client Nominated Contractors:

|                                                         |
|---------------------------------------------------------|
| <b>Supporting Documents:</b>                            |
| BIMS 02-09 Selection and Appointment of Subcontractors. |

Contractors nominated and/or directly employed on this project for which Mott MacDonald Bentley Ltd is the Principal Contractor must comply with Form BIMS02-09.3 (QES Information Requirements for Suppliers), which covers all Health & Safety, Environmental, Insurance, Quality and Contractual procedures, prior to commencing work on site.

#### 4.7 Information to Sub-Contractors:

|                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Supporting Documents:</b>                                                                                                               |
| L153 – CDM 2015 Guidance;<br>BIMS02-09 Selection and Appointment of Subcontractors;<br>BIMS02-11 Management and Control of Subcontractors. |

As Principal Contractor, Mott MacDonald Bentley Ltd will inform all other contractors of any QES risks / aspects arising from the location of the work and the construction processes via formal / informal meetings / documentation prior to the start of the contract and throughout the contract period. This shall be in accordance with BIMS02-11, Management and Control of Subcontractors.

#### 4.8 Communication, Consultation and Participation:

##### Supporting Documents:

**BIMS01-08 Communication, Consultation and Participation**

As a company, we are committed to effective worker consultation on QES issues in accordance with procedure BIMS01-08 Communication, Consultation and Participation. Consultation methods proposed for this project are shown in the schedule below:

| Type:                                                        | Method:                                  | Frequency:                                                                  | Requirement:                         |
|--------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------|
| Standard Site Induction checklist (including site walk-over) | Site Manager* to Site Team               | On arrival at Site                                                          | <b>Mandatory</b>                     |
| Enhanced Induction                                           | Site Manager* to Site Team               | On arrival at site                                                          | <b>Optional</b>                      |
| Daily Briefing                                               | Site Manager* to Site Team               | Daily prior to commencement of work or after work has been stopped.         | <b>Mandatory</b>                     |
| RA/MS Briefing                                               | Site Manager* to Site Team               | Prior to start of task                                                      | <b>Mandatory</b>                     |
| Behaviour Based Safety Discussion Board                      | Site Manager* to Site Team               | Fortnightly or following significant task change.                           | <b>Optional</b>                      |
| Behavioural Discussions                                      | Trained person to Site Team              | Role specific targets (At least one hour of discussions per 700 site hours) | <b>Mandatory</b>                     |
| QES Alerts                                                   | Site Manager* to Site Team               | Within 24hrs of issue                                                       | <b>Where relevant</b>                |
| QES Briefing                                                 | Contract Manager* to Site Team           | Within 5 working days of issue                                              | <b>Where relevant</b>                |
| QES Monthly                                                  | Site Manager* to Site Team               | Within 24hrs of issue                                                       | <b>Distributed to home address</b>   |
| Toolbox Talks                                                | Site Manager* to Site Team               | As required to support task                                                 | <b>Where relevant</b>                |
| Talkabout Sessions                                           | Director/Framework Manager to Site Team. | Annual rolling programme                                                    | <b>As arranged by QES Department</b> |
| QES Notice Boards                                            | Site Manager* to Site Team               | On arrival at Site                                                          | <b>Mandatory</b>                     |

| Type:              | Method:             | Frequency:          | Requirement:     |
|--------------------|---------------------|---------------------|------------------|
| Public information | Public notice board | Updated fortnightly | <b>Mandatory</b> |

*\*Duties may be delegated to a competent person. (e.g. Foreman or Engineer)*

#### 4.9 Arrangements for Monitoring:

| Supporting Documents:                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>BIMS 01-06 Aspects and Impacts;<br/> BIMS 01-09 BIMS Internal Audits;<br/> BIMS 02-12 Management of Premises, Plant, Vehicles and Equipment;<br/> BIMS 02-13 Temporary Works;<br/> BIMS 02-14 Inspection and Testing;<br/> BIMS 02-15 Control of Inspection and Test Equipment;<br/> BIMS 03-04 Emergency Response;<br/> BIMS 03-05 Monitoring, Measurement, Analysis and Improvement.</p> |

As Principal Contractor, we take responsibility for proactively monitoring site activities and maintaining this Contract Management Plan.

We will review this Contract Management Plan as a minimum, on a monthly basis or following significant change to the design and / or the construction method / sequencing, to ensure set standards are achieved.

We actively monitor the selection and performance of Subcontractors and Suppliers via documented management system procedures.

The following QES monitoring arrangements will be deployed on the project:

|    | Monitoring Arrangement                                     | Frequency               | Responsible Person:             |
|----|------------------------------------------------------------|-------------------------|---------------------------------|
| 1. | Site QES Inspection                                        | Weekly                  | Site Manager*                   |
| 2. | Site Diary                                                 | Daily                   | Site Manager*                   |
| 3. | End of Day Check                                           | Daily                   | Foreman / Lead Hand             |
| 4. | Statutory Inspection(s)<br>(eg Scaffold / Excavations etc) | Pre-use / Weekly        | Foreman / Lead Hand             |
| 5. | QES Inspection (Initial)                                   | Within 14 days of start | Regional QES Advisor            |
| 6. | QES Inspection                                             | 42 Days (+ spot visits) | QES Advisor / Contracts Manager |
| 7. | PUWER Inspection                                           | Pre-use / Weekly        | Site Manager*                   |
| 8. | LOLER Inspection                                           | Pre-use / Weekly        | Site Manager*                   |

*\*Duties may be delegated to competent person. (eg Foreman / Engineer)*

#### 4.10 Arrangements for Out-of-Hours Access to Site:

The following working hours shall apply for site-based activities:

| Day:            | Agreed Work Hours: |
|-----------------|--------------------|
| Monday – Friday | 0730 - 1730        |
| Saturday        | If required        |
| Sunday          | If required        |

Where out of hours access is required by the client or their contractor a risk assessment shall be carried out and reviewed on a weekly basis by the Site Manager.

Should the Client and their contractors require access within the demarcated CDM area outside of normal working hours (*eg to respond to an emergency*) the Site Manager shall be contacted by telephone.

#### 4.11 Access to DCWW Sites

The Site Manager shall,

- Attain Authorised Contractor Keyholder status for his/herself and any other colleague on the project who needs site access keys (See Dwr Cymru Services – Water Production Procedural Manuals 217.6 Guidance for Contractor Access to Water Production Sites which is held on Dwr Cymru Integrated Management System and is relevant to Environmental sites also.
- Attain and display **DCWW AF01** Access to Assets form, and display on site.
- keep a list of the companies and their employees who are working on site
- manage and supervise contractors, subcontractors, colleagues and visitors
- Ensure that all people working in the defined area of work or visiting site have received a site induction, and are familiar with Health and Safety procedures.

Where there is no Site Manager, employees shall,

- Obtain prior authorisation for the visit from the Field Team Technical Planner
- Follow the Water Assets Quality Management System clause 217.3 'Visitors Procedure' which can be found on the Dwr Cymru Integrated Management System (IMS)
- Provide a method statement
- Receive a Handover Certificate or be accompanied by DCWW personnel
- Receive a site induction from DCWW personnel

#### 4.12 Reporting and Investigation of Incidents:

##### Supporting Documents:

Operational Safety Standard 003;  
BIMS03-01 Occupational Health and Safety Incident Reporting and Investigation;  
BIMS03-02 Environmental Incident Reporting and Investigation.

Any incidents and near misses (including actual or potential damage to persons, property or the environment) will be reported to the Site Manager (or Site Engineer / Sub-agent) who shall complete an incident report form via CMS. The requirement for further detailed investigation will be determined in accordance with BIMS03-01, BIMS03-02 and OSS 003.

In addition the Site Manager will inform Dwr Cymru of the Incident within one hour of the incident and follow the Incident & Best Practice Learning & Communication Flow Chart (below).

The persons to be informed are:

|                        |                |      |
|------------------------|----------------|------|
| Client Project Manager | Theo Rumens    | DCWW |
| Ops Supervisor         | Andy Burr      | DCWW |
| AMP7 Delivery Manager  | Andrew Roberts | DCWW |

The persons which may be informed are:

|                      |               |      |
|----------------------|---------------|------|
| Head of the Alliance | Arwel Jones   | DCWW |
| Alliance H&S Manager | Simon Maclean | DCWW |

#### 4.12.1 THE DCWW Welsh Water reporting rules

### Appendix B – The Rule of 2

#### Aim

The Rule of 2 reinforces the importance of prompt incident reporting and investigation and provides a clear standard that can be monitored for compliance. The adoption and communication of this standard sets a clearer timeline for investigating incidents and supports our aspiration to achieve Zero Reportable Injuries.

#### Process

All incidents rated as **HIGH** (RIDDOR reportable events, including injuries, occupational diseases & Dangerous Occurrences, over 7 day injuries) or **MEDIUM** must be reported and investigated in line with these timescales:

#### 2 HOURS

Line management must be notified immediately of incidents rated as **HIGH** (RIDDOR reportable events, including injuries, occupational diseases & Dangerous Occurrences, over 7 day injuries) or **MEDIUM** (significant damage to plant or property, Lost Time Injuries 7 days & under).

Within **2 HOURS**, an additional notification must occur via text or email. For high level incidents, notification must be sent to the Safety Director, Head of Health and Safety and relevant business Director. For medium level incidents, notification must be sent to the Head of Health and Safety and relevant Head of Service.

Following notification, the incident must be entered onto the ASSURE Health and Safety system using the relevant portal questionnaire. This portal questionnaire must be accepted onto the ASSURE Health and Safety system within **24 HOURS** of the incident occurring. The questionnaire then becomes a 'live record' on the system.

**Note: Any incidents that occur out of normal working hours should be escalated following these timescales but using the existing standby processes.**

#### 2 DAYS

Within **2 DAYS**, the ASSURE Incident Record including investigation and conclusions section, must be completed with basic facts verified and witness statements and photographs obtained and uploaded onto the system. The team required to undertake the Incident Investigation must be identified and notified.

This report should be completed by the appropriate manager/supervisor for the employee/site affected. The Health and Safety team will use the facts within this report as the basis of any F2508 notification required to the HSE under RIDDOR.

#### 2 WEEKS

Within **2 WEEKS** - the full incident investigation report must be completed. This will include the event log, root cause analysis, conclusions and recommendations (with names and dates for action). This should be completed on the AC4 (Incident Investigation Report) form. The form and relevant documentation should be uploaded onto the ASSURE Health and Safety system. The investigation module on ASSURE must be completed.

This report should be completed by the appropriate manager/supervisor for the employee/site affected. It should be reviewed by the Health and Safety Adviser for the area/function and signed off by the relevant Leadership Team member.

### **Within 2 MONTHS**

Within 2 months - all Assure incident records will remain 'open' until all actions are addressed and completed accordingly. In the case of most incidents, these should be completed within 2 months.

In the case of contractor incidents, confirmation should be sought from the contractor that they have completed all the actions identified in their investigation report. This should be recorded in Assure.

Once the actions have all been Completed the record can be Closed and then Archived on the system.

#### 4.13 Temporary Site Accommodation and Welfare Provisions:

|                                 |
|---------------------------------|
| <b>Supporting Documents:</b>    |
| <b>L153 – CDM 2015 Guidance</b> |

Mott MacDonald Bentley facilities listed below on site for use by all workers.

| Facilities description ( <i>List individual cabins / stores / office blocks etc</i> ) | Delivery date | Services connection date |
|---------------------------------------------------------------------------------------|---------------|--------------------------|
| 2 No. double offices and 1 No. kitchen                                                | TBC           |                          |
| 1 No. drying room; 1 No. canteens; 1 No. toilet/washing/shower facility               | TBC           |                          |
| 2 No. material stores                                                                 | TBC           |                          |
| 1 No. meeting room                                                                    | TBC           |                          |
| Additional drying room                                                                | TBC           |                          |
|                                                                                       |               |                          |
|                                                                                       |               |                          |
|                                                                                       |               |                          |
| Compound layout drawing reference:                                                    | See below     |                          |



Sub-contractor/Client provided facilities are listed below: *(Where applicable)*

| Organisation name | Facilities description | Delivery date | Services connection date |
|-------------------|------------------------|---------------|--------------------------|
| N/A               | N/A                    | N/A           | N/A                      |

#### 4.14 Site Demarcation:

##### Supporting Documents:

L153 – CDM 2015 Guidance;  
BIMS 01-07 Legal and Other Requirements.

Mott MacDonald Bentley Ltd will ensure that access to the site is effectively controlled and that boundaries of the site will be physically defined and visually signed to prevent accidental trespass:

| Area:                  | Nature of demarcation: |
|------------------------|------------------------|
| Client's site boundary | Fenced and gated       |

| Area:                                     | Nature of demarcation:                                     |
|-------------------------------------------|------------------------------------------------------------|
| Extent of Mott MacDonald Bentley Ltd site | Fenced and gated                                           |
| Boundary of site compound                 | Fenced and gated                                           |
| Access Controls (eg gates)                | Gates to remain locked and closed when site is not in use. |
| Other (specify)                           |                                                            |
|                                           |                                                            |



| Area: | Nature of demarcation:                                                                                                                                     |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |  <p>Note: Access to site will be via DCWW entrance to Pengarnddu SRv</p> |

#### 4.15 Materials Off-loading and Storage Area:

| Supporting Documents:                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>JN Bentley Ltd Golden Rules;<br/> OSS106 Safe Use of Plant and Equipment;<br/> OSS101 Safe Use of Work at Height Equipment;<br/> OSS100 (Visual) Site Establishment and Maintenance;<br/> BIMS 02-10 Buying.</p> |

The location of the off loading and storage area(s) shall be:

| Details:                          | Location:                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------|
| Compound Storage Area:            | Area to North of existing service reservoir. To be updated prior to start on site. |
| Site Set-Down / Storage Area(s):  | Area to North of existing service reservoir. To be updated prior to start on site. |
| Materials Offloading Area:        | Area to North of existing service reservoir. To be updated prior to start on site. |
| Hazardous Materials Storage Area: | Area to North of existing service reservoir. To be updated prior to start on site. |
| Gas Cylinder Storage Area:        | Area to North of existing service reservoir. To be updated prior to start on site. |
| Fuel Storage Area                 | Area to North of existing service reservoir. To be updated prior to start on site. |
| Other:                            |                                                                                    |

Additional *control* measures for deliveries:

| Hazard:                               | Control:        |
|---------------------------------------|-----------------|
| Work at Height: ( <i>eg Flatbed</i> ) | Edge protection |
| Lifting Operations:                   | Lift plans      |
| Other: ( <i>State</i> )               |                 |

#### 4.16 Site Induction and General Training:

| Supporting Documents:                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------|
| BIMS 01-05 Competence, Training and Awareness;<br>BIMS 01-10 Company inductions;<br>BIMS 02-04 Risk Identification, Assessment and Control. |

All site personnel (including directly employed, self employed and contractors), will receive on site induction training. A three-part induction form is used, covering:

|        | Description                        | Inductees                                                        |
|--------|------------------------------------|------------------------------------------------------------------|
| Part A | General company information        | Sub-contractors, Hired Plant Drivers/Other                       |
| Part B | Site awareness and plant authority | JN Bentley Employees, Sub-contractors, Hired Plant Drivers/Other |
| Part C | Competence & medical information   | JN Bentley Employees, Sub-contractors, Hired Plant Drivers/Other |

All induction records will be retained on Site.

| Record:                           | Checklist: | File location:                                                                                                                                                                                                                                                                                                          |
|-----------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site QES Induction checklist      | N/A        | <b>Site Health &amp; Safety File</b><br>(*to be displayed on QES notice board)<br><br>(**be utilised where large numbers of subcontractors are being employed and work takes place in multi-occupancy buildings or multi-floored projects, these will be completed by the subcontractor as they arrive and leave site.) |
| Induction Register                | N/A        |                                                                                                                                                                                                                                                                                                                         |
| Details of Medical Limitations    | Part C     |                                                                                                                                                                                                                                                                                                                         |
| Competency details (cards etc)    | Part C     |                                                                                                                                                                                                                                                                                                                         |
| Next of kin details               | Part C     |                                                                                                                                                                                                                                                                                                                         |
| Site Awareness Form*              | N/A        |                                                                                                                                                                                                                                                                                                                         |
| Site Visitors Induction checklist | N/A        |                                                                                                                                                                                                                                                                                                                         |
| Daily Attendance Register**       | N/A        |                                                                                                                                                                                                                                                                                                                         |

#### 4.17 Visitors:

| Supporting Documents:                                       |
|-------------------------------------------------------------|
| L153 – CDM 2015 Guidance;<br>BIMS 01-10 Company inductions. |

A sign-in register will be clearly located in the Site Manager's office (*or security cabin where applicable*) and all visitors, including visiting JNB / MMB staff, Clients, Client's Representative and other Contractors' staff must sign in and out notifying a member of the site team of their presence. This record shall be dated and timed.

Visitors who will be accompanied on site at all times will not be required to attend a full site induction, however they will be required to undertake a visitors induction highlighting current works, exclusion zones, PPE requirements and escort arrangements. Visitors who will not be accompanied on site require a full Site Induction undertaken at a pre-arranged time.

#### 4.18 First Aid Arrangements:

##### Supporting Documents:

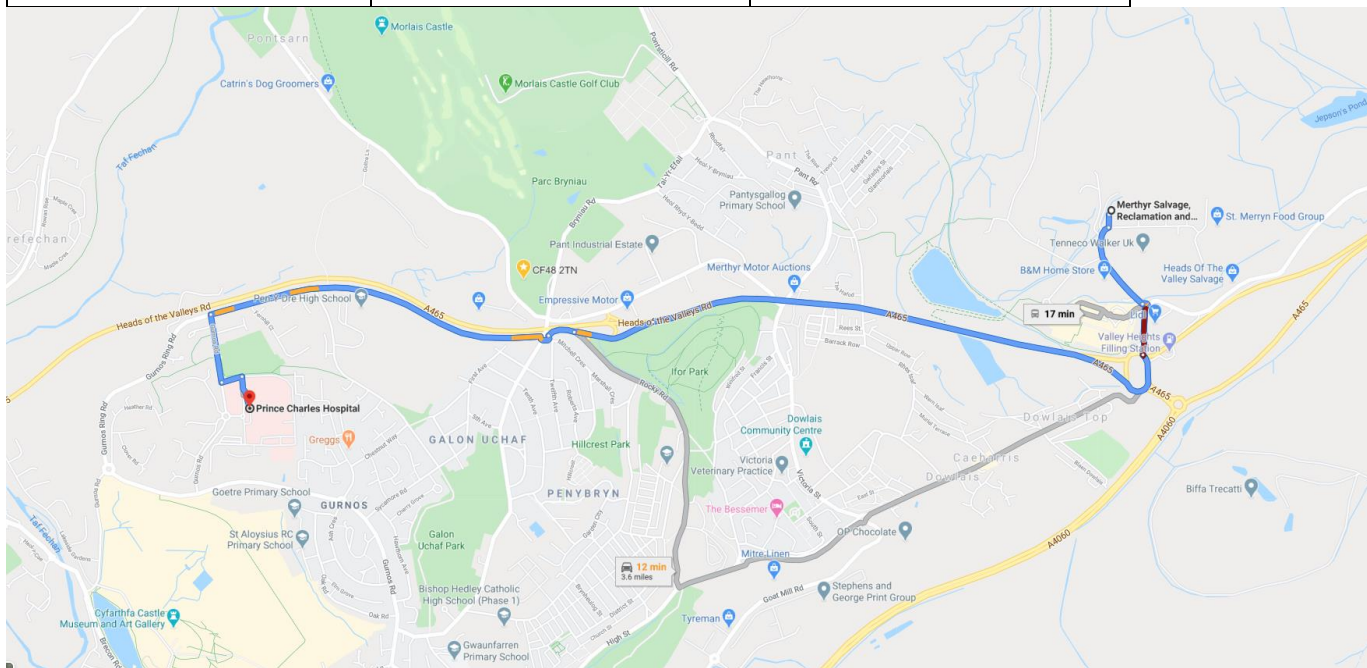
**BIMS 03-04 Emergency Preparedness and Response.**

***See Appendix E for First Aid Table.***

First Aid arrangements notices will be displayed in each cabin and work area location (if located at a distance from the compound)

The local A&E unit for this project is shown below: (*Note: a hospital route map must be located on the QES Notice Board.*)

| Hospital                | Address                          | Telephone number |
|-------------------------|----------------------------------|------------------|
| Prince Charles Hospital | Gurnos, Merthyr Tydfil, CF47 9DT | 01685 721721     |



#### 4.19 Authority to receive Goods & Plant:

|                              |
|------------------------------|
| <b>Supporting Documents:</b> |
| BIMS 02-10 Buying.           |

*See Appendix K for Authority to receive Goods and Plant sheet.*

#### 4.20 Fire and Emergency Procedures:

|                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Supporting Documents:</b>                                                                                                                                                         |
| BIMS 03-04 Emergency Preparedness and Response;<br>BIMS 02-04 Risk Identification, Assessment and Control;<br>OSS116 Fire Safety;<br>OSS113 Managing and Using Hazardous Substances. |

Fire Action notices will be displayed in the welfare facilities, the office and where required on the work site to provide information on the method for raising the alarm, escape routes and the location of the assembly point.

All units will be provided with the appropriate tested fire extinguishers which will be signed and located adjacent to access / egress points.

The Fire Safety Risk Assessment (FSRA) detailing specific Fire Risks and control measures on this site will be displayed in the Site Welfare cabin. This assessment will be reviewed on a monthly basis. The FSRA shall be visible to visitors and workers on site.

#### 4.21 Site Security

In addition, all JNB /MMB & subcontract personnel working on the project will maintain reasonable levels of security for the duration of the project ie ensuring perimeter gates are closed and challenging/reporting unauthorised access Where access from unauthorised personal is deemed possible the area in question will be fenced with heras fencing double clipped top and bottom, in addition to this the main compound will all be fenced with heras fencing as well as the access to the field itself.

##### **Control Activities**

Control should be exercised on the site activities of Contractors' employees and subcontractors. Their presence can provide the opportunity for criminals to assess a site with a view to planning a burglary or cause pollution or other incident.

Occasionally Dwr Cymru receives requests to host visiting delegations from abroad. For security reasons, it is important that any such requests are managed in conjunction with Dwr Cymru's Security and Emergency Planning team.

All Visitors must sign the relevant Visitors Book (where available), ensuring the purpose of the visit is clearly stated.

Section 29 of the DCWW Engineering Specification states, that the Contractor must undertake a site risk assessment which should be agreed and signed off with DCWW. The assessment should consider the assets being worked on in terms of value and strategic importance as well as the area in terms of population / history of

vandalism, intrusion, theft etc. The risk assessment should drive the mitigations and controls in terms of level of security and control provided.

Security arrangements should be reviewed on an ongoing regular basis, the review period must be at least each month as part of the project risk review activities. The initial site risk assessment will determine whether more regular reviews are required depending upon the risks identified.

Where works require access into or onto DCWW structures, the Contractor is required to seek DCWW approval, supervision and / or direction. The generic control activities detailed below shall be undertaken as a minimum with site specific controls developed in conjunction with these. The contractor is required to comply with the DCWW procedure **HSP 811**, this can be found in the MMB document library within DCWW Procedures and forms.

### **Main Access Gates**

Where a site or asset is under the Contractors control then they are responsible for managing site access. The contractor must implement access control arrangements to ensure that only authorised personnel are allowed entry to the site. Persons turning up on site should always be challenged and proof of identity ascertained before allowing onto site.

Unless written permission is obtained from Dwr Cymru Asset Management or Operations Manager, gates should be closed at all times, even when the site is occupied. Where permission is obtained to leave gates open they should be supervised at all times.

The safe implementation of site evacuation procedures must also be taken into consideration.

### **Other Gates**

All other gates on sites shall be locked unless in active use.

### **Raw Water Reservoirs**

All access points to Valve Towers, Compensation buildings, Raw Water Pumping Stations and deep chambers should be closed and locked at all times unless the contractor is working in the immediate area concerned.

### **Service Reservoirs**

Access to treated water reservoirs must be with the agreement of Dwr Cymru asset management. All access/ entry points must be secured at all times when the contractor is not working in the immediate area concerned.

### **Networks**

Networks capital work can be undertaken on DCWW operational sites and in these situations the generic site security guidance contained in this document must be followed. However, the majority of Networks schemes will take place in the highway where security gates and buildings may not be available to provide a level of control. The risk assessment must consider the assets being worked on and the risk assessed in terms of value and strategic importance as well as the area in terms of

population / history of vandalism, intrusion, theft etc. The level of security required on Networks sites will be determined by the risk assessment.

### **Security Cameras**

Existing site security cameras must not be utilised/alterd to cover Contractor assets.

### **Physical Security of Buildings**

All buildings shall be secured i.e. doors and windows closed and locked unless the building is currently occupied and the occupants are able to monitor the access points, or they need to be open for Health and Safety purposes. On leaving the building the Contractor must ensure that all lighting is left in accordance with site specific requirements and that all doors are locked and secured.

### **Locks and Keys**

DCWW sites are secured by way of a suited high security locking system. Locks and keys will be issued according to the access requirements of the Contractor in accordance with Dwr Cymru's locks and keys policy. To reduce the incidence of lost or non-returned keys (by the Contractor) a returnable deposit of £1000 per key may be implemented.

Where the Contractor holds a DCWW key as part of the ongoing agreed site access arrangement the Contractor must keep a written record of permanent or temporary key holders, which is to be made available for DCWW inspection as required. Keys must not be transferred to anyone without written permission from DCWW. As soon as a key is identified as being lost, the loss must be immediately reported to DCWW Security (see below).

The Contractor is expressly forbidden from making copies of DCWW keys.

DCWW reserves the right to recall, at any time, all DCWW keys that are held by a Contractor. The keys are to be returned to the issuer as soon as possible or within seven days at the latest.

Where access gates have a multi-locking system then the Contractors padlock should be of a similar high security standard. On leaving site the Contractor must ensure that the locking arrangement is correctly configured. It is essential that access to site is available to DCWW and other authorised site users at all times. During construction of new and/or modifications to existing structures and buildings

Contractors shall obtain security locks from the approved Dwr Cymru supplier and in accordance with the existing suite. Contractors shall utilise their own suite of lock barrels until the site is handed over when Dwr Cymru lock barrels will be fitted by the Contractor.

### **Intruder Alarm systems**

Intruder Alarm systems shall be set when DCWW buildings are unoccupied. The Contractor is to contact Dwr Cymru Security Monitoring Desk (01274 692853), prior to accessing the alarmed premises giving name, telephone contact number, reason for visit and approximate time of leaving. If the alarm is not un-set, it will be triggered when the Contractor enters the building resulting in the call out of Dwr Cymru staff to site to investigate.

On completion of works and before leaving the site the Contractor is to contact the Security Monitoring Desk (01274 692853) desk to reset the alarm.

If, as a consequence of the Contractor's visit, DCWW Security deems it necessary to call DCWW staff to the site, DCWW may make a charge to the Contractor.

### Reporting of Security Breaches

The Contractor shall ensure that the DCWW Security Manager, via the Security Monitoring Station (01274 692853), is informed of any security breaches or suspicious activity occurring on Dwr Cymru sites as soon as practicable.

If the Contractor suspects that a person seen on site is an intruder, and if the Contractor considers it safe to do so, the person should be asked to show proof of identity. If the person refuses then he should be asked to leave site and the matter reported to DCWW Security Monitoring.

If the Contractor does not feel safe in making a challenge to an intruder they should contact the DCWW Risk Mitigation/Duty Manager on 0844 9022991 who will arrange the attendance of DCWW staff and/or the police or security guards.

### 10 Key Points for Site Security

A 10 point poster / flyer has been developed which clearly and concisely shows the key points of the site security guidance document. This should be displayed and be visible at all capital works site compounds.

#### 4.22 Site, Client & Golden Rules:

| Supporting Documents:                                      |
|------------------------------------------------------------|
| JN Bentley Ltd Golden Rules;<br>JN Bentley Ltd Site Rules; |

Rules in force on this Site are:

| JN Bentley Rules                    | Display Location   | Required (Y/N) |
|-------------------------------------|--------------------|----------------|
| Site Rules                          | Office and Welfare | Y              |
| Golden Rules                        | Office and Welfare | Y              |
| Additional Rules<br>(Client/Other): | Display Location   | Required (Y/N) |
| Client QES Policy                   | Office and Welfare | Y              |
| Clean Water Site                    | Office and Welfare | Y              |
|                                     |                    |                |

**These rules shall be reinforced during Induction to site.**

**4.23 Project Filing System:**

|                              |
|------------------------------|
| <b>Supporting Documents:</b> |
| BIMS 02-07 Document Control. |

The site / office filing system shown in **Appendix E** shall be implemented and maintained throughout the duration of works. Control of records and documents shall be subject to periodic audit by the QES Department during QES Inspections / Audits.

## 5.0 CONTROL, COORDINATION & CONFORMITY:

### 5.1 Project Meetings & Co-ordination Timetable:

#### Supporting Documents:

L153 – CDM 2015 Guidance

Throughout the construction phase, Mott MacDonald Bentley Ltd will actively report progress to the Client and/or Principal Designer on a 4-weekly basis. A Progress Report will be issued prior to the scheduled progress meetings, which will include, but not be limited to;

- updates on all normal running phase reporting activities (i.e. Construction Programme status);
- information request logs;
- change order registers / trackers, and;
- monthly QES incident statistics.

These meetings shall be recorded in the Schedule below as mandatory. Also mandatory are Internal Progress Meetings, Design Co-ordination Meetings (Design & Construct only) held on at least a monthly basis and also Daily Operative Briefings. Minutes (where required) shall be located in relevant section(s) of the Site Files.

| Meeting / Coordination         | Purpose                                                                                                     | Formal Agenda (Y/N) | Frequency / Timing | Attendees                                                                                                                                       | Minutes (Y/N) |
|--------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| *Internal Progress             | To monitor and track progress against baseline programme and to review cost forecast                        | Y                   | Monthly            | Contracts Manager<br>Quantity Surveyor<br>Site Team                                                                                             | N             |
| *Progress with Client          | To report on progress against baseline programme, to highlight any concerns and review changes              | Y                   | Monthly            | Contracts Manager<br>Site Manager                                                                                                               | Y             |
| Internal Planning / Look Ahead | To produce a two week look-ahead programme for use in short term planning                                   | N                   | Weekly             | Site Team                                                                                                                                       | N             |
| **Design Co-ordination         | To review progress with design deliverables and co-ordinate design information between all relevant parties | Y                   | Monthly            | Client / Client PM<br>Design Manager or Co-ordinator<br>Contracts Manager<br>Site Manager<br>Identified Representatives from key design parties | Y             |
| Daily Briefing                 | To communicate daily activities to all work                                                                 | N                   | Daily              | Site Manager<br>Foreman / Lead                                                                                                                  | N             |

| Meeting / Coordination                       | Purpose                                                                                                                                      | Formal Agenda (Y/N) | Frequency / Timing | Attendees                                                             | Minutes (Y/N) |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|-----------------------------------------------------------------------|---------------|
|                                              | gangs, highlight any potential problems and update the wider team on current performance                                                     |                     |                    | hand Operatives                                                       |               |
| QES Review - (inc update CMP)                | To review the content of the CMP and update as appropriate                                                                                   | N                   | Two-Weekly         | Site Manager<br>QES Advisor                                           | N             |
| Sub-contractor Pre-start                     | To ensure common understanding in advance of works commencing on site (List as required)                                                     | Y                   | As required        | Site Manager<br>Sub-contractor Supervisor                             | Y             |
| Sub-contractor Performance / Safety Review   | To measure progress and performance in all areas. Co-ordinate works between sub-contractors                                                  | Y                   | As required        | Site Manager<br>Foreman<br>Sub-contractor Representatives             | Y             |
| Cost Monitoring / Valuation / Change Control | To review applications for payment and to identify changes to the scope of works                                                             | Y                   | Monthly            | Site Manager<br>Quantity Surveyor<br>Contract Manager<br>Clients Rep. | Y             |
| Daily discussions with DCWW on site staff    | To communicate daily activities to all DCWW on site staff, highlight any potential problems and update the wider team on current performance | N                   | Daily              | Site Manager<br>DCWW site staff                                       | N             |

## 5.2 Document Registers:

| Supporting Documents:       |
|-----------------------------|
| BIMS 02-07 Document Control |

A register of all Design Documents and Drawings will be maintained using JNB form BIMS 02-07.1. The register will be stored in the following location:

|                                                    |                            |
|----------------------------------------------------|----------------------------|
| Location of Document Register(s):<br>(BIS 02-07.1) | Project IS44 on SharePoint |
|----------------------------------------------------|----------------------------|

## 5.3 Design Management:

| Supporting Documents:           |
|---------------------------------|
| MMB IMS MANUAL<br>MM IMS MANUAL |

Permanent design work has been, or will be, carried out as per the table below.

| Design Scope                    | Responsible Organisation | Contact                      |
|---------------------------------|--------------------------|------------------------------|
| Architectural / Planning        | MMB                      | Design Lead – Matthew Thorpe |
| Environmental Impact Assessment | MMB                      | Design Lead – Matthew Thorpe |
| Earthworks                      | MMB                      | Design Lead – Matthew Thorpe |
| Civil & Structures              | MMB                      | Design Lead – Matthew Thorpe |
| Mechanical & Electrical         | MMB                      | Design Lead – Matthew Thorpe |
| Other: <i>Temporary Works</i>   | MMB                      | Design Lead – Matthew Thorpe |

Any alterations and / or amendments to permanent designs will be traceable through a formalised 'Change Order' system. (e.g. *Confirmed Verbal Instructions, Design Queries, Technical Queries* etc). Records of design changes will be stored as follows:

| Type of Record: | Medium:<br>(Paper / Electronic) | Storage Location: |
|-----------------|---------------------------------|-------------------|
| TQ / RFI        | Electronic                      | SharePoint        |
|                 |                                 |                   |

#### 5.4 Inspection & Testing (B&CE Works):

| Supporting Documents:                                                                      |
|--------------------------------------------------------------------------------------------|
| BIMS 02-14 Inspection and Testing;<br>BIMS 02-15 Control of Inspection and Test Equipment. |

Inspection and/or testing of the following permanent works elements will be required on this Project. Where applicable they are incorporated in Appendix B (Inspection and Test Schedule).

#### 5.5 Testing and Commissioning (MEICA Works):

| Supporting Documents:                                                                      |
|--------------------------------------------------------------------------------------------|
| BIMS 02-14 Inspection and Testing;<br>BIMS 02-15 Control of Inspection and Test Equipment. |

Details of any Factory Acceptance Tests are to be recorded Appendix B (Inspection and Test Schedule).

Where required, the Site Manager will liaise with a representative from the Subcontract organisation / M&E Engineer and/or Commissioning Engineer to ensure

that a Testing and Commissioning Plan and/or Method Statement is prepared for approval sufficiently in advance of the programmed commissioning date.

All instruments used for inspection, measurement and test purposes will be within calibration with current valid certificates of test. All valves, piping, electrical equipment and cabling will be labelled in accordance with the agreed Specification. It is the responsibility of the Subcontractor to demonstrate that Inspection and Test Equipment is suitable, calibrated and operated by competent personnel.

## 5.6 Internal QES Audits and Inspections:

|                                                                                        |
|----------------------------------------------------------------------------------------|
| <b>Supporting Documents:</b>                                                           |
| BIMS 01-09 BIMS Internal Audits;<br>BIMS 04-04 Internal Audits (Project & Management). |

Internal QES Audits and Inspections are undertaken in accordance with Policy Procedure BIMS 01-09 (BIMS Internal Audits) and Administration Procedure BIMS 04-04 (Internal Audits – Project and Management).

A summary of findings from all audits is presented to the Engineering Director (JNB) and Framework Manager / Director (MMB) at the Annual Management Review. Where deficiencies in management systems are identified remedial action will be agreed, prioritised and implemented.

## 5.7 QES Weekly Inspections:

|                                                               |
|---------------------------------------------------------------|
| <b>Supporting Documents:</b>                                  |
| BIMS 03-05 Monitoring, Measurement, Analysis and Improvement. |

Weekly QES inspections shall be undertaken by the Site Manager (or delegate) and be recorded via CMS. Where non-compliance, unsafe conditions or defects are identified, measures shall be undertaken to ensure they are rectified as soon as practicable. Effective completion of the QES Weekly Inspection shall be monitored for content and closeout by the QES Department during Site QES Inspections.

## 6.0 QES RISK MANAGEMENT & MITIGATION:

### 6.1 Environmental Aspects:

#### **Supporting Documents:**

BIMS 01-06 Aspects and Impacts;  
BIMS 02-04 Risk Identification, Assessment and Control.

The following Environmental Aspects have been identified within the scope of works, additional task specific aspects will be identified and mitigating control measures will be outlined where necessary in the environmental section of task specific Risk Assessment / Method Statement documents.

| <b>Site-Specific 'Environmental Aspects' (Risks) identified in scope of works:</b> |                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                            |                                      |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Ref:</b>                                                                        | <b>Environmental Aspect:</b>                                                                                                                                                                                                                                                                                          | <b>Monitoring / Control Measure:</b>                                                                                                                                                                                                                                                       | <b>Person Responsible:</b>           |
| <b>EA-01</b>                                                                       | No records of otter identified within 2km of the site. It is possible that otters travel through the area to forage in the waterbodies but there is little cover for holt or resting site within the proposed working area.                                                                                           | MMB ecology lead should be contacted if otter are found onsite.                                                                                                                                                                                                                            | MMB ecology lead and site supervisor |
| <b>EA-02</b>                                                                       | The proposed site could possess suitable habitat for foraging birds. However due to the high levels of disturbance in the area for the proposed development (Blaenmorlais SINC) there is a low chance of ground nesting birds.                                                                                        | MMB ecology lead should be contacted if nesting birds (including ground-nesting birds) are found onsite.<br><br><b>Vegetation clearance to be undertaken outside of the nesting bird season (March-September). If this is not possible it should be done under ecological supervision.</b> | MMB ecology lead and site supervisor |
| <b>EA-03</b>                                                                       | Records six bat species within 2km of the site. Nearest record approx..1.9km north west of site for foraging bats . Three single storey metal clad buildings located with the site compound were assessed as having negligible potential for roosting bats. The site does provide suitable habitat for foraging bats. | MMB ecology lead should be contacted if bats are found onsite.                                                                                                                                                                                                                             | MMB ecology lead and site supervisor |
| <b>EA-04</b>                                                                       | The site habitats are semi-improved acid                                                                                                                                                                                                                                                                              | <b>Vegetation clearance within habitats suitable to support reptiles will be</b>                                                                                                                                                                                                           | MMB ecology lead and site supervisor |

|                                                       |                                                                                                                                                                |                                                                                                                                      |                                                   |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
|                                                       | grassland, emhemeral/short perennial, semi-improved neutral grassland and scattered scrub.<br>Habitat suitable to support reptiles                             | <b>undertaken under the supervision of the MMB Ecology Lead.</b>                                                                     |                                                   |
| <b>EA-05</b>                                          | No Records of Great Crested Newt were recorded within 2km of the site<br>Ecology surveys completed for Great Crested Newts, did not identify presence of GCNs. | MMB ecology lead should be contacted if GCN are found onsite.                                                                        | MMB ecology lead and site supervisor              |
| <b>EA-06</b>                                          | Identified location of Japanese knotweed close to existing site entrance during the 2019 survey. Not present during 2020 surveys, but may re-appear.           | Fencing and signage                                                                                                                  | MMB ecology lead and site supervisor              |
| <b>EA-07</b>                                          | Working area lies within Blaenmorlais SINC                                                                                                                     | <b>Re-instatement of all possible areas on completion of the works. Area to be reseeded with a species-rich and appropriate mix.</b> | MMB ecology lead and site supervisor              |
| <b>EA-08</b>                                          | Slow worm and common lizard present within the site compound.                                                                                                  | Vegetation/grass clearance to be undertaken under ecological supervision.                                                            | MMB ecology lead and site supervisor              |
| <b>EA-09</b>                                          | The Site provides suitable foraging habitat for hedgehogs                                                                                                      | MMB ecology lead should be contacted if hedgehog are found onsite.                                                                   |                                                   |
| <b>Consider the following:</b>                        |                                                                                                                                                                |                                                                                                                                      |                                                   |
|                                                       |                                                                                                                                                                |                                                                                                                                      |                                                   |
| <b>Releases:</b>                                      |                                                                                                                                                                |                                                                                                                                      |                                                   |
| Release to Air – Acids (including resins and paints). | Release to Air – VOC’s (Volatile Organic Compounds).                                                                                                           | Release to Air – ODS’s (Ozone Depleting Substances).                                                                                 | Release to Air – Heavy Metals.                    |
| Release to Air – Combustion By-Products.              | Release to Water – Trade Effluent.                                                                                                                             | Release to Water – Domestic Effluent.                                                                                                | Release to Water – Engineered Surface Water.      |
| Release to Water – Un-Engineered Surface Systems.     | Release to Land – Trade Waste (Non-Hazardous).                                                                                                                 | Release to Land – Trade Waste (Hazardous).                                                                                           | Release to Land – Domestic Waste (Non-Hazardous). |
| Release to Land – Domestic Waste (Hazardous).         |                                                                                                                                                                |                                                                                                                                      |                                                   |
| <b>Resource Use:</b>                                  |                                                                                                                                                                |                                                                                                                                      |                                                   |

|                                                  |                                                     |                                                   |                                                  |
|--------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|--------------------------------------------------|
| Resource Use – Electricity.                      | Resource Use – Natural Gas.                         | Resource Use – Commercial Gases, storage and use. | Resource Use – Petrol / Diesel, storage and use. |
| Resource Use – Water on site.                    | Resource Use – Water off Site.                      | Resource Use – Chemical / Oil storage and use.    | Resource Use – Timber.                           |
| Resource Use – Natural Aggregate / Minerals etc. | Resource Use – Cements / Pozzalans / Grouts etc.    | Resource Use – Paper.                             | Resource Use – Packaging.                        |
| Resource Use – Vehicles.                         | Resource Use – Electrical and Electronic Equipment. | Resource Use – Batteries.                         |                                                  |
| <b>Land Quality:</b>                             |                                                     |                                                   |                                                  |
| Land Quality – Solvents.                         | Land Quality – Metals.                              | Land Quality – Contaminated Land.                 |                                                  |
| <b>Nuisance:</b>                                 |                                                     |                                                   |                                                  |
| Nuisance – Odour.                                | Nuisance – Noise.                                   | Nuisance – Vibration.                             | Nuisance – Visual.                               |
| Nuisance – Light.                                | Nuisance – Congestion / Obstruction.                | Nuisance – Dust.                                  |                                                  |
| <b>Ecology:</b>                                  |                                                     |                                                   |                                                  |
| Ecology – Species.                               | Ecology – Habitats.                                 | Ecology – Heritage.                               |                                                  |

## 6.2 Initial Assessment of Work Activities

|                                                                                             |
|---------------------------------------------------------------------------------------------|
| <b>Supporting Documents:</b>                                                                |
| Operational Safety Standard 002;<br>BIMS 02-04 Risk Identification, Assessment and Control. |

The following residual risks from the design have been communicated by the Designer(s) and Principal Designer. These have been considered and included in the overall construction risk assessment:

| Residual Risks Identified by the Principal Designer & Designer<br>(Refer to QES Risk Register / Designers Risk Assessment) |                                                       |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| <b>Quality:</b>                                                                                                            |                                                       |
| 1.                                                                                                                         | Interfering with process (possible breach of consent) |
| 2.                                                                                                                         |                                                       |
| 3.                                                                                                                         |                                                       |
| <b>Environmental:</b>                                                                                                      |                                                       |

| <b>Residual Risks Identified by the Principal Designer &amp; Designer</b><br><i>(Refer to QES Risk Register / Designers Risk Assessment)</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                                                                                            | All known ecology concerns as noted above in Section 6.1.                                                                                                                                                                                                                                                                                                                                                                                |
| 2                                                                                                                                            | Surface water management – Due to location (very exposed) the site is likely to be impacted by poor weather. Prevent rainwater entering working areas with the use of cut of drains. Any excavation discharges any excavation waters will be discharged following the EA RPS “Temporary dewatering from excavations to surface water”. All necessary Pollution prevention measures will be followed. See section 6.8 below               |
| 3                                                                                                                                            | Waste Management - undertaken in line with Operational environmental standards and industry best practice. See section 6.10                                                                                                                                                                                                                                                                                                              |
| 4                                                                                                                                            | INNS – Japanese Knotweed previously identified on the eastern site boundary. No other evidence within working areas during 2020 site survey. Check to be undertaken prior to start of works to ensure there has been no spread to working areas.                                                                                                                                                                                         |
| 5                                                                                                                                            | Nuisance – Dust, noise and vibration risk. Nearest receptor is industrial estate and a small traveller community, which we are unlikely to impacted. However best practice methods will be utilised to reduce nuisance where necessary such as dampening down, noise barriers etc choice of plant (see section 6.6/6.7 below)                                                                                                            |
| 6                                                                                                                                            | Pollution mitigation measures during construction. – Concrete slurry run off (during concrete pours) and silt run off – mitigation measures detailed below.                                                                                                                                                                                                                                                                              |
| 7                                                                                                                                            | Habitat removal – Undertaken with ecological supervision or guidance                                                                                                                                                                                                                                                                                                                                                                     |
| 8                                                                                                                                            | Archaeology and Heritage – Archaeological monitoring during the removal of the topsoil.                                                                                                                                                                                                                                                                                                                                                  |
| 9                                                                                                                                            | Contaminated Land – while no evidence of contaminated land identified during ground investigation, evidence site has been subjected to fly tipping. Care to be taken when clearing site, advancing excavations and classifying waste from site.                                                                                                                                                                                          |
| 10                                                                                                                                           | Materials Management – See section 6.11                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Health &amp; Safety:</b>                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1.                                                                                                                                           | Access to site for larger vehicles - Height restriction will be provided to prevent collision with overhead telecoms. Access for larger vehicles may be difficult as the lane is only a rough track. Access to the common will be from a separate access road, rather than threw the existing site.                                                                                                                                      |
| 2.                                                                                                                                           | Excavations and vehicle movements – High Voltage overhead electricity cables adjacent to proposed location of new service reservoir site. Overhead Telecom Cables in and around Construction Site. Buried water pipes cross the site.                                                                                                                                                                                                    |
| 3.                                                                                                                                           | Temporary Works - Consider excavation, over-pumping, testing, scaffolding and record these on TWS sheet - Excavation/temporary batter design. Crane pad design. Temporary stockpile of spoil (slope stability). Trench supports for pipe laying. Pressure testing                                                                                                                                                                        |
| 4.                                                                                                                                           | <p>Contact with Asbestos - Asbestos Type 2/Management Survey received from Welsh Water on 22/07/19. Further Refurbishment &amp; Demolition survey required if any major refurbishment or demolition work is required. No live electrical equipment was inspected as part of the survey.</p> <p>Survey identified SRv structure as 'high risk' due to lack of access.</p> <p>No asbestos identified in Telemetry Kiosk or Valve Room.</p> |
| 5.                                                                                                                                           | Risk of damage to existing structures, collapse of structures or backfill material - Maximise                                                                                                                                                                                                                                                                                                                                            |

| <b>Residual Risks Identified by the Principal Designer &amp; Designer</b><br><i>(Refer to QES Risk Register / Designers Risk Assessment)</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                              | distance of proposed works from existing to allow suitable excavation batters. Fully survey and mark out existing assets prior to excavating. Liaise with temporary works from an early stage to get their input and allow their constraints to feed into option selection and design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6.                                                                                                                                           | Lifting Operations - Lifting plan to be in place. Lifting to comply with JNB OSS 102.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 7.                                                                                                                                           | Confined spaces - New and existing reservoir cells will be confined spaces. Access and phasing will be reviewed during the design. All personnel entering cells to be appropriately trained to be inside confined space.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 8.                                                                                                                                           | Working at Height - Fall arrest to be provided at access hatches. Handrailing around reservoir roof if required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 9.                                                                                                                                           | Failure of isolation valves leading to flooding of the cells and potential loss of life - Double isolation is to be provided for each cell.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 10.                                                                                                                                          | <p>Services strike - Services searches have been conducted. High Voltage overhead electricity cables adjacent to proposed location of new service reservoir site. Overhead Telecom Cables in and around Construction Site – damage to telecom cables during construction could result in disruption of water supply/loss of service. Safety zone to be put in place 6m either side of line, comprising of low (1m above ground) and high level bunting. WPD to specify height of upper bunting. Access way to comprise of rigid "goal posts" at either end. See HSE GS6 and WPD 'Avoidance of Danger'. New service plans to be completed within 3 months of start on site.</p> <p>Area to be Cat &amp; Genny scanned prior to excavation.</p> <p>Contractor to review JNB OSS 111 when setting up service avoidance goal posts.</p> |
| 11.                                                                                                                                          | Working in an excavation - Reservoir has been positioned to minimise the volume of excavation required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 12.                                                                                                                                          | Failure of stockpile due to excessively steep sloping slides - Stockpiles to be monitored for stability. Maximum side slope to be provided by design team.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 13.                                                                                                                                          | Risk of burst causing flood of excavation - Welsh Water Business Continuity Plan process to be followed to agree procedure for isolation with Operations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 14.                                                                                                                                          | Working near watercourse - Discharge point / outfall location to be designed to allow easy access for sampling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 15.                                                                                                                                          | Flooding of downstream watercourse, potential risk to life - Flood model being undertaken to check flood risk as a result of both the overflow and washout operation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 16.                                                                                                                                          | Leakage from structure – undermine foundations – Outlet & washout pipework from sump to be connected to couplings which have been pre-cast into the sump. Reduction in the likelihood of leakage occurring from the structure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 17.                                                                                                                                          | Security of site during construction - Site to be contained within Weldmesh fence with 24hour security guard presence. 3 No. CCTV cameras to be located across site which will be monitored remotely 24/7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### 6.3

#### Risk Assessment and Method Statement Preparation:

| Supporting Documents:                                                                       |
|---------------------------------------------------------------------------------------------|
| Operational Safety Standard 002;<br>BIMS 02-04 Risk Identification, Assessment and Control. |

The initial assessment of work activities will be used as a basis for the Method Statement Register detailed in section 6.4.

RA/MS (including any that arise from on-going design) will be Prepared, Communicated and Used in accordance with BIMS 02-04 and OSS 002, using standard RA/MS template Ref BIMS 02-04.3. Subcontractor RA/MS document will be marked as accepted using BIMS form 02-04.8.

For proposed work activities in the **first month** of the project, detailed risk assessments and method statements will be prepared in conjunction with this Plan.

For ongoing activities, detailed site and task specific RA/MS shall be recorded in accordance with the requirement of OSS 002 and added to the site Risk Assessment Register in section 13/14 of the Site Health & Safety File. This process shall be followed for both internally assessed and Subcontractor supplied RA/MS documents.

The following additional specific risk assessments, (located on Document Library) will be completed or briefed for this project:

| RA Reference  | Assessment title                         | Required (Y/N) |
|---------------|------------------------------------------|----------------|
| BIMS 02-04.1  | Construction Site Activities. (MRA*)     | Yes            |
| BIMS 02-04.2  | Office Environments. (MRA*)              | No             |
| BIMS 02-04.4  | Pregnant Workers.                        | No             |
| BIMS 02-04.5  | Prolonged & Constant Exposure to Sewage. | N/A            |
| BIMS 02-04.6  | Night Shift Working.                     | No             |
| BIMS 02-04.8  | Subcontractor RA/MS Review Form          | Yes            |
| BIMS 02-04.10 | Standard Mechanical Lift Plan            | Yes            |
| BIMS 02-04.11 | Site Fire Risk Assessment                | Yes            |

\*MRA = Management Risk Assessment

**6.4 Activity / Risk Assessment and Method Statement Register (To be completed for activities in the first month on site only):**

| RA / MS reference                                                                                                                                                                                                 | Activity/task                                       | Direct or Subcontract Activity | Sub-contractor name | Activity Start Date | RA/MS required by | RA/MS Completed or Received |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------|---------------------|---------------------|-------------------|-----------------------------|
| 001                                                                                                                                                                                                               | Vegetation clearance                                | Direct                         |                     |                     |                   |                             |
| 002                                                                                                                                                                                                               | Delivery and offloading of pre-cast concrete panels | Subcontract                    |                     |                     |                   |                             |
| 003                                                                                                                                                                                                               | Excavation activities                               | Direct                         |                     |                     |                   |                             |
| 004                                                                                                                                                                                                               | Installation of precast units                       | Direct                         |                     |                     |                   |                             |
| 005                                                                                                                                                                                                               | Formwork and reinforcement placement                | Subcontract                    |                     |                     |                   |                             |
| 006                                                                                                                                                                                                               | In situ concrete works                              | Subcontract                    |                     |                     |                   |                             |
| 007                                                                                                                                                                                                               | Hot tap to inlet main                               | Subcontract                    |                     |                     |                   |                             |
| 008                                                                                                                                                                                                               | Pipe laying                                         | Direct                         |                     |                     |                   |                             |
| 009                                                                                                                                                                                                               | Ground clearance, stone area for site set up        | Direct                         |                     |                     |                   |                             |
| 010                                                                                                                                                                                                               | Top soil strip under supervision                    | Direct                         |                     |                     |                   |                             |
|                                                                                                                                                                                                                   |                                                     |                                |                     |                     |                   |                             |
|                                                                                                                                                                                                                   |                                                     |                                |                     |                     |                   |                             |
| <p align="center"><b><i>Continue Overleaf if required.</i></b></p> <p align="center">Note: 'Construction phase' register to be retained in <b>Sections 13 &amp; 14 of the Site Safety File (BIMS 02-04.9)</b></p> |                                                     |                                |                     |                     |                   |                             |

## 6.5 Substances Hazardous to Safety, Health or Environment:

### Supporting Documents:

Operational Safety Standard 113;  
BIMS 02-10 Buying;  
BIMS 02-04 Risk Identification, Assessment and Control;  
BIMS 02-11 Management and Control of Subcontractors.

An initial assessment will be made using an electronic record on CMS. This will detail permitted safe use, permissible quantities and storage locations, and will be undertaken in accordance with OSS 113.

Hard copy CoSHH assessments that are available in the CMS document library will be referenced in relevant method statements and displayed separately in the Site Welfare cabin.

Where sub-contractors intend to use potentially hazardous substances on site, they shall provide detailed CoSHH assessments in good time to enable necessary arrangements for storage and interaction with neighbouring processes to be made.

Relevant CoSHH assessments and controls shall be covered as part of the site induction process and during task specific method statement briefings.

A register of potentially hazardous substances will be maintained in Section 6 of the site Health & Safety File.

## 6.6 Environmental Noise Management and Control:

### Supporting Documents:

BIMS 01-06 Aspects and Impacts;  
BIMS 02-04 Risk Identification, Assessment and Control;  
BIMS 03-05 Monitoring, Measurement, Analysis and Improvement.

Mott MacDonald Bentley Ltd will take all necessary measures to avoid creating a noise nuisance during construction and civil engineering operations. Contract specific hazards will be identified at the project risk assessment stage and control measures identified within task specific method statements.

As a minimum, all plant will be maintained in good working order and will be fitted with its original silencing equipment and where requested by clients or local authorities, site specific noise assessments will be undertaken for both pre-works and construction-phase activities to ensure compliance with planning requirements.

Where operations creating noise cannot be avoided local communities will be contacted and consulted and where necessary activities will be timed to create the least nuisance.

## Construction Noise

- Selecting quieter construction equipment;
- Setting time restrictions on certain noisy activities;

- Ensure equipment is maintained, in good working order, and is used in accordance with the manufacturer's instructions;
- Members of the construction team to be trained and advised during tool box briefings on quiet working methods;
- Equipment will not be left running unnecessarily;
- Equipment will be fitted with silencers or mufflers where possible;
- Use of plant enclosures utilised whenever feasible;
- Careful orientation of plant with directional feature away from sensitive receptors;
- Materials will be lowered instead of dropped from height;
- Inform nearby noise sensitive receptors in advance of construction activities and keep them up to date with progress and changes;
- Give nearby noise sensitive receptors a site contact telephone number; the contact should liaise with residents and maintain good rapport;
- Vehicles will be instructed not to wait or queue up with engines running on the site or on the public highway;
- Deliveries to be managed in order to prevent queuing of site traffic at access points
- Minimise where possible the need for vehicles to reverse; and,
- Use of adjustable or directional audible vehicle-reversing alarms or use of alternative warning systems, e.g. white noise alarms.

A register of environmental noise sources is maintained in Appendix I: *(Note Noise sources affecting Human health will be recorded in task specific RA/MS documents.)*

## Construction Vibration

It is considered that construction vibration impacts would not be significant. However, vibration mitigation measures will include the following:

- Utilising low vibration working methods where possible;
- Replace plant that is causing significant levels of vibration; and, Isolate vibratory plant using resilient mountings.

## 6.7 Dust and Air Quality Control:

### Supporting Documents:

BIMS 01-06 Aspects and Impacts;  
BIMS 02-04 Risk Identification, Assessment and Control;  
BIMS 03-05 Monitoring, Measurement, Analysis and Improvement.

### Control of Nuisance Dust

The proposed development is expected to be a low risk site in terms of generating dust for a temporary period. Mott MacDonald Bentley Ltd will take all necessary measures to avoid creating a dust nuisance. Contract specific hazards will be identified at the activity risk assessment stage and control measures will be identified within task specific method statements. When required dust suppression will be implemented i.e. water bowser towed behind dumpers, water sprinklers and task specific dampeners. Ongoing mitigation measures should include:

### During Construction

- Display head or regional office contact information

- Record all dust and air quality complaints, identify causes and take appropriate action and record measures taken to reduce emissions
- Make complaints log available to Local Authority when asked
- Establish a method for regular visual dust monitoring on and off site and ensure key site personnel are fully trained in this respect
- Carry out regular site inspections to monitor dust, record inspection results
- Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions
- Plan site layout so that machinery and dust causing activities are away from receptors, as far as is operationally feasible
- Avoid site run off of water or mud
- Do not allow vehicles to idle
- Impose and signpost a maximum speed limit
- Only use cutting, grinding or sawing equipment fitted, or in conjunction with, suitable dust suppression techniques
- Use enclosed chutes and conveyors and covered skips
- Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment
- No burning of waste
- Avoid scabbling (roughening of concrete surfaces) if possible, ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place

## 6.8 Control of Pollution and Emergency Response:

### Supporting Documents:

BIMS 02-04 Risk Identification, Assessment and Control;  
BIMS 03-04 Emergency Response.

The following environmental incident control equipment will be held on site and its stock levels will be maintained by the following designated persons:

| Equipment:                              | Required?<br>(Y/N) | Person Responsible for<br>Stock / Condition Check | Frequency of<br>Check |
|-----------------------------------------|--------------------|---------------------------------------------------|-----------------------|
| Fire Extinguishers                      | Yes                | Site Manager                                      | Weekly                |
| Fire Blankets                           | No                 |                                                   |                       |
| Plant Nappies                           | Yes                | Site Manager                                      | Weekly                |
| Oil sorbent pads                        | Yes                | Site Manager                                      | Weekly                |
| Oil Booms                               | No                 |                                                   |                       |
| Oil sorbent granules                    | No                 |                                                   |                       |
| Barley Straw                            | No                 |                                                   |                       |
| Dry bagged cement                       | No                 |                                                   |                       |
| CoSHH store                             | Yes                | Site Manager                                      | Weekly                |
| Drip trays ( <i>internal use only</i> ) | Yes                | Site Manager                                      | Weekly                |
| Silt netting                            | No                 |                                                   |                       |
| Oil interceptors                        | No                 |                                                   |                       |
| Drain covers                            | No                 |                                                   |                       |
| Drain bungs                             | No                 |                                                   |                       |
| Pumps                                   | No                 |                                                   |                       |
| Disposable Coveralls                    | Yes                | Site Manager                                      | Weekly                |
| Road sweeper on call                    | No                 |                                                   |                       |

| Equipment:    | Required?<br>(Y/N) | Person Responsible for<br>Stock / Condition Check | Frequency of<br>Check |
|---------------|--------------------|---------------------------------------------------|-----------------------|
| Other (State) |                    |                                                   |                       |
| Other (State) |                    |                                                   |                       |

Where projects are considered to have significant residual pollution risk, the Environment Agency / SEPA 'PPG21' document will be completed and discussed with the Client and included in Appendix G. This is the same procedure for the NRW (*Located on Bentley Environmental on Document Library*)

|                                                                     |           |
|---------------------------------------------------------------------|-----------|
| <b>IS PPG21 required on site? (Appendix G)</b>                      | <b>No</b> |
| <i>To be reviewed on monthly basis by Site Manager if completed</i> |           |

### Concrete run off pollution

Concrete works are anticipated during the construction works. Any surface water (from rain or run off) that will be interacts with wet concrete or concrete slurry will be treated as hazardous waste and dealt with accordingly. No contaminated material will be discharged to the local water course.

All wash down facilities will be designed in line with industry best practice and the MMB concrete wash down guidance document.

### 6.9 Waste and Hazardous Waste: (\*Controlled Waste in Scotland)

|                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------|
| <b>Supporting Documents:</b>                                                                                           |
| BIMS 02-10 Buying;<br>BIMS 02-14 Inspection and Test;<br>BIMS 03-05 Monitoring, Measurement, Analysis and Improvement. |

As a minimum we will follow the waste hierarchy and prevent the production of waste, we will comply with all relevant waste Regulations. Waste will be identified as; INERT, NON-HAZARDOUS or HAZARDOUS and the correct classification be given to relevant subcontract parties.

If waste is categorised as "Hazardous" by its description, the following process will be followed:

- **Wales Only:** We will register the company as a "producer of hazardous waste" from the site in question (this can be undertaken online on the NRW website, <https://naturalresources.wales/splash?orig=/>
- **UK:** Waste Classification Assessment testing will be carried out to determine the hazardous nature of the waste. Not all hazardous sites can accept all types of hazardous materials so a further Waste Acceptance test maybe required to to ensure the landfill that it can accept our waste.
- We will ensure that the waste is pre-treated in some way prior to removal to landfill – it is highly unlikely that we will be able to do this ourselves so we will employ a waste management company to undertake

**\*Wales only:**

|                                      |  |
|--------------------------------------|--|
| NRW Hazardous Waste Premises Code    |  |
| Expiry Date for current registration |  |
| Registration Name (JNB / Client)     |  |

**6.10 Site Waste Management Plan: (\*Mandatory in England Only)**

**Supporting Documents:**

**Site Waste Management Plan Regulations 2010 (as amended);  
Bentley Environmental Guidance Note – SWMP.**

To ensure compliance with The Site Waste Management Plan Regulations 2008, Mott MacDonald Bentley Ltd predicts waste quantities during the planning stage of projects valued over £300,000. This will be recorded on the SWMP template that can be found in section 8.20. While only projects over the value of £300,000 require a SWMP, JNB will consider waste management options for all projects where sufficient volumes of waste are likely to arise as part of the works.

The Site Waste Management Plan shall be reviewed and updated at least monthly as part of the general CMP review process.

**Additional guidance on completing Site Waste Management Plant may be found in the Bentley Environmental Guidance Notes on Document Library.**

The following Site Waste Management Plan data sheet shall be initially completed prior to commencement of construction works and be reviewed and updated **‘at least monthly’**. All amendments or records of review shall be recorded in section 1.2 of this CMP. For projects exceeding £500,000 additional reporting shall be undertaken in accordance with the Site Waste Management Plan Regulations, 2008.

**6.11 Materials Management (Soil/Aggregate storage)**

**Soil Management**

Soil stockpiles should be managed in accordance with the Construction Code of Practice for the Sustainable Use of Soils on Construction Sites. Key elements of the CoP relating to managing soils to facilitate their reuse are listed below:

- Top soil, sub soil and underlying sediments will be stockpiled separately.
- Soil stockpiles will be labelled so as to prevent mixing of soil with other materials

Topsoil layers will be stored no higher than 3m to avoid compaction of lower levels. Subsoil stockpiles will be maintained at a height of 4m to 5m to avoid compaction of lower layers. Topsoil and subsoil must not be excavated whilst saturated and if heavy rain has saturated the soil profile stripping should be suspended until such time as the soil has dried out. Stockpiling wet soils leads to compaction and damage to the soil structure. If soil stockpiles are to be left for more than 6 months the surface should be seeded with a grass/clover mix to reduce infestation from nuisance weeds.

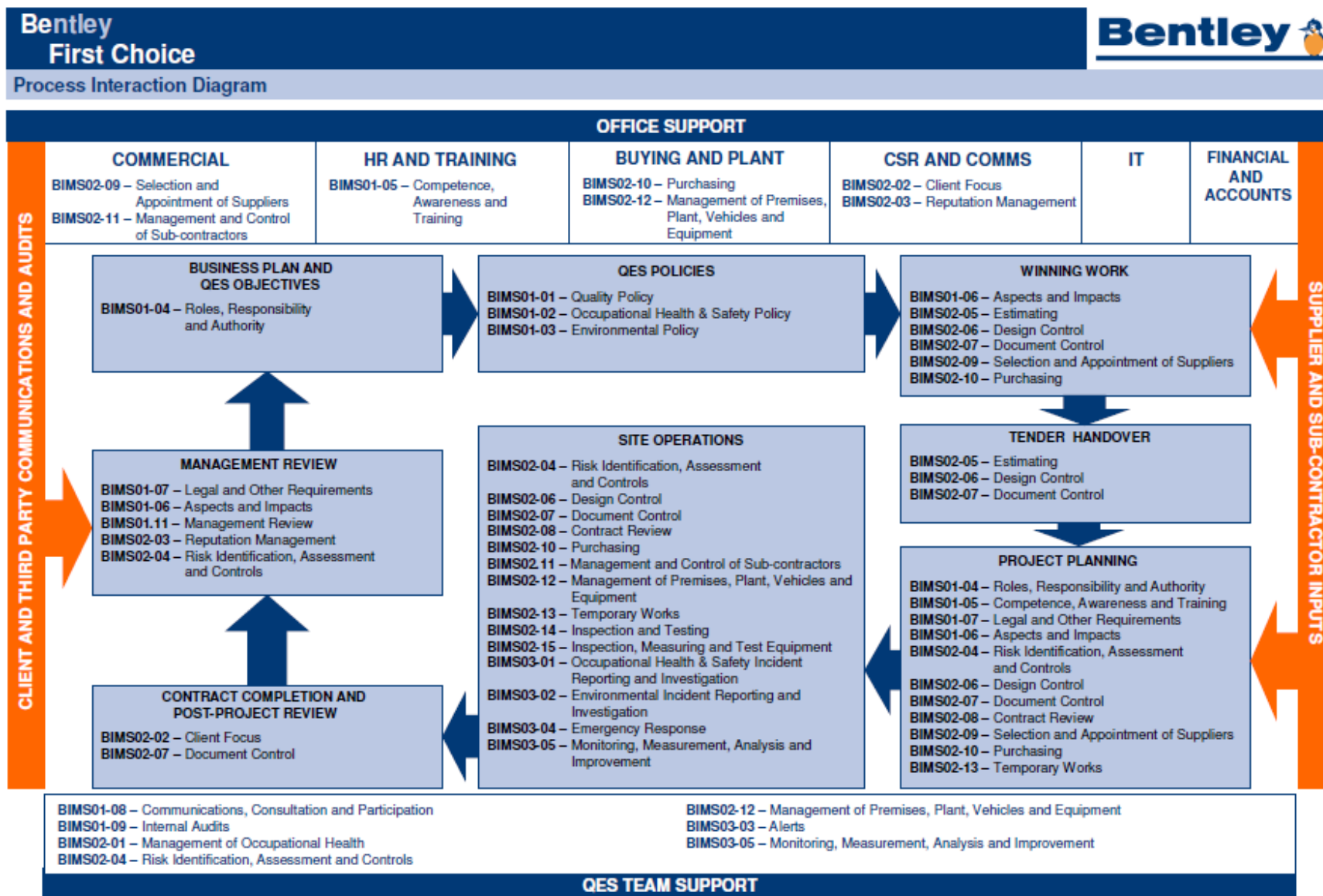
**Silt Mitigation**

Rainfall run off from stockpiles and excavation areas must be controlled to prevent silt being entrained in over land flow. Stockpiles can be smoothed to shed incident rainfall quickly and prevent sediment being washed from the slopes of the stockpile. Stockpiles should be inspected regularly and after heavy rainfall to ensure excessive erosion is not taking place, any erosion gullies should be repaired. Areas subject to potential run-off will be monitored and silt netting erected where necessary.

Stockpiles should not be located close to surface water features such as drainage ditches which could become filled with sediment following rainfall. The drainage of a stockpile farm should be considered to control run off and prevent silt from being spread across adjoining areas; a soakaway drain into the underlying sediments could be considered as long as this does not lead to standing water within the stockpile farm causing water logging of soils. Long term stockpiles can be vegetated or covered to prevent entrainment of sediment by rainfall and windblown dust.

A severe weather protocol should be established such that should severe weather be forecast the site is left in such a condition that stockpiles are not compromised.

## Appendix A – BIMS Procedure Interaction Chart:



**Appendix B** Project Inspection and Test Schedule (including commissioning works): (BIMS 02-14.4)

To be completed prior to commencement of construction works & reviewed at least monthly or following changes to design and build processes

|                        |                |  |                      |  |
|------------------------|----------------|--|----------------------|--|
| Inspection & Test Plan | I&T Plan No:   |  | Revision             |  |
|                        | Date of Issue: |  | Date of Next Review: |  |
|                        | Prepared By:   |  | Checked By:          |  |

|         |      |               |  |                 |  |
|---------|------|---------------|--|-----------------|--|
| Client: | DCWW | Project Name: |  | Project Number: |  |
|---------|------|---------------|--|-----------------|--|

| I&T No. | Description of Inspection / Test | Frequency | Specification / Technical Standard | Acceptance Criteria | Reporting Format | *Inspected by: (Include Company and Name) |           |               | General Comments |
|---------|----------------------------------|-----------|------------------------------------|---------------------|------------------|-------------------------------------------|-----------|---------------|------------------|
|         |                                  |           |                                    |                     |                  | S/C                                       | JNB / MMB | Other (State) |                  |
| 1.      |                                  |           |                                    |                     |                  |                                           |           |               |                  |
| 2.      |                                  |           |                                    |                     |                  |                                           |           |               |                  |
| 3.      |                                  |           |                                    |                     |                  |                                           |           |               |                  |
| 4.      |                                  |           |                                    |                     |                  |                                           |           |               |                  |
| 5.      |                                  |           |                                    |                     |                  |                                           |           |               |                  |
| 6.      |                                  |           |                                    |                     |                  |                                           |           |               |                  |
| 7.      |                                  |           |                                    |                     |                  |                                           |           |               |                  |
| 8.      |                                  |           |                                    |                     |                  |                                           |           |               |                  |
| 9.      |                                  |           |                                    |                     |                  |                                           |           |               |                  |
| 10.     |                                  |           |                                    |                     |                  |                                           |           |               |                  |
| 11.     |                                  |           |                                    |                     |                  |                                           |           |               |                  |
| 12.     |                                  |           |                                    |                     |                  |                                           |           |               |                  |
| 13.     |                                  |           |                                    |                     |                  |                                           |           |               |                  |

\* **H**=Hold Point, **W**= Witness Point, **R**=Review

Continue on separate page if required.

## Appendix C Do not use

## **Appendix D** Client Specific Rules or Procedures:

**Client Specific Rules, Policies and Procedures to be requested from Client Representative and summarised in Appendix D.**

*Where applicable, these shall be briefed during site induction.*

## Appendix E Fire Safety Risk Assessments and First Aid Arrangements:

Fire Risk Assessment Template on 'Document Library' shall be maintained in Appendix E and reviewed *at least* monthly.

First Aid Assessment:

| First Aid Arrangements:           | Number of appointed personnel (JNB / MMB) | Number of appointed personnel (Subcontractor) | Name(s):    |
|-----------------------------------|-------------------------------------------|-----------------------------------------------|-------------|
| 3-day trained First Aider(s)      | 1                                         | TBC                                           | Justin Webb |
| Personnel:                        | JNB / MMB:                                | Subcontractor / 3 <sup>rd</sup> Party:        |             |
| 'Average' no of personnel on site | 8                                         | 8                                             |             |
| Equipment:                        | Location:                                 | Number Required:                              |             |
| <b>Example:</b><br>Stretcher      | N/A                                       | None                                          |             |
| Standard First Aid Box            | Site office                               | 2                                             |             |
| Eye Wash Station                  | Site office                               | 1                                             |             |
| Eye Wash Buds                     | N/A                                       | N/A                                           |             |
| Burns Kit                         | N/A                                       | N/A                                           |             |
| Needle Stick Kit                  | N/A                                       | N/A                                           |             |
| Stretcher                         | N/A                                       | N/A                                           |             |
| Evac-chair®                       | N/A                                       | N/A                                           |             |
| Defibrillator                     | N/A                                       | N/A                                           |             |
| Other: <i>Please state</i>        | N/A                                       |                                               |             |

## Appendix F Project Filing Index:

The following File Indexes shall be used on this project (Delete as applicable)

### Paper Records:

| File Name:                                  | Required?<br>(Y or N) | Owner:       | Location of File: |
|---------------------------------------------|-----------------------|--------------|-------------------|
| Site Health & Safety File<br>(BIMS 02-07.6) | Yes                   | Site Manager | Office            |
| Site Environmental File<br>(BIMS 02-07.7)   | Yes                   | Site Manager | Office            |
| Site Engineering File<br>(BIMS 02-07.8)     | Yes                   | Site Manager | Office            |
| Other<br>(Project Specific)                 |                       |              |                   |

### Electronic Records:

| Document Name:                                    | Required?<br>(Y or N) | Owner:       | Location of File:        |
|---------------------------------------------------|-----------------------|--------------|--------------------------|
| Statutory Inspections:<br>(Scaffold / Excavation) | Yes                   | Site Manager | CMS                      |
| Meeting Records:<br>(Progress / Monthly)          | Yes                   | Site Manager | G drive /<br>Projectwise |
| Incident Reports:<br>(QEH&S)                      | Yes                   | Site Manager | CMS                      |
| Weekly Inspection:<br>(QES)                       | Yes                   | Site Manager | CMS                      |
| Site Diary:<br>(inc Complaints etc)               | Yes                   | Site Manager | CMS                      |
| CoSHH Assessment:<br>(CMS / Sypol)                | Yes                   | Site Manager | CMS                      |
| Time Sheets:<br>(Individual & Operative)          | Yes                   | Site Manager | CMS                      |
| Plant & Materials Orders:                         | Yes                   | Site Manager | CMS                      |
| Requisitions:<br>(Products & Waste)               | Yes                   | Site Manager | CMS                      |
| Other:<br>(State)                                 |                       |              |                          |

**QES / Project Files shall be maintained on site by the Site Manager.**

## Appendix G PPG21 Pollution Incident Response Plan (NRW / EA / SEPA):

**See Document Library for latest template.**  
***(Bentley Environmental/Environmental Guidance Notes/PPG Notes)***

## Appendix H – Site Waste Management Plan:

### SWMP Part 1:

| Site Waste Management Plan Data Sheet                                                                                              |    |              |    |
|------------------------------------------------------------------------------------------------------------------------------------|----|--------------|----|
| (*no longer a legal requirement to complete, but a company expectation)                                                            |    |              |    |
| <b>Site Waste Management Plan must be reviewed <i>at least</i> monthly as part of CMP review and recorded in CMP Review Table.</b> |    |              |    |
| Date of initial SWMP completion:                                                                                                   |    |              |    |
| Stage of project (eg <i>planning, project delivery, completion</i> ):                                                              |    |              |    |
| Estimated cost of project:                                                                                                         |    |              |    |
| Client contact:                                                                                                                    |    |              |    |
| Person responsible for waste management on site:                                                                                   |    | Site Manager |    |
| Person completing this form, if different:                                                                                         |    |              |    |
|                                                                                                                                    |    |              |    |
| Details of the people removing waste from your site and including their waste carrier registration number:                         |    |              |    |
| A.                                                                                                                                 | B. | C.           | D. |
|                                                                                                                                    |    |              |    |
| Details of licensed sites receiving waste and their licence number:                                                                |    |              |    |
| 1.                                                                                                                                 | 2. | 3.           | 4. |
|                                                                                                                                    |    |              |    |
|                                                                                                                                    |    |              |    |

## SWMP Part 2:

|                                                                                                     |                                     | Quantity (Specify volume, weight or quantity (eg m <sup>3</sup> kg, t, no of skips)) |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               | Waste Transfer Note completed?<br>(Yes / No) |
|-----------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------|---|----------|---|-----------|---|----------|---|------------------|---|--------------|---|-------|---|----------------------------------------------|---------------|----------------------------------------------|
| Types of waste arising<br>(add more rows if needed)                                                 | European Waste Catalogue (EWC) Code | Reused:                                                                              |   |          |   | Recycled: |   |          |   |                  |   | Disposed of: |   |       |   | Relate to boxes above (i.e. insert A, B etc) |               |                                              |
|                                                                                                     |                                     | on site                                                                              |   | off Site |   | on site   |   | off site |   | sent to facility |   | Land-fill    |   | Other |   |                                              |               |                                              |
|                                                                                                     |                                     | T                                                                                    | A | T        | A | T         | A | T        | A | T                | A | T            | A | T     | A | Waste Site                                   | Waste carrier |                                              |
| <b>Inert Waste</b> (eg Bricks, Glass, Soils & Stones – uncontaminated and not containing peat etc). |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
|                                                                                                     |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
|                                                                                                     |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
|                                                                                                     |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
| <b>Non Hazardous Waste</b> (eg Wood, Metal, Municipal etc).                                         |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
|                                                                                                     |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
|                                                                                                     |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
|                                                                                                     |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
| <b>Hazardous Waste</b> (eg Contaminated Soils, Asbestos, Batteries etc).                            |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
|                                                                                                     |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
|                                                                                                     |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
|                                                                                                     |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
| <b>Totals (m<sup>3</sup>. kg, t)</b>                                                                |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
| <b>Performance Scores as %</b>                                                                      |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |
| <b>SWMP Target %</b>                                                                                |                                     |                                                                                      |   |          |   |           |   |          |   |                  |   |              |   |       |   |                                              |               |                                              |

### SWMP Part 3:

*The declaration below is to be completed by the **Contracts Manager** (or responsible delegates) following review of the SWMP to ensure that predicted waste for this project has been identified and the necessary steps are being taken to reduce and manage waste arisings.*

**This is a Company Expectation.**

*“Declaration (Principal Contractor): I confirm that all transferors of project derived waste have discharged their duties with respect to Regulation 12 of the Waste (England & Wales) Regulations 2011. As Principal Contractor I will actively monitor performance and legal obligation against the hierarchy stated in the regulations and challenge any identified non-compliance”.  
(i.e. Duty in relation to the waste hierarchy as per the Waste Framework Directive)*

Partner/Principal Contractor

Print Name:

Sign

Date

## **Appendix I – Environmental Noise Sources:**

The following Environmental Noise and Nuisance sources have been identified and are to be monitored. Limits are generally specified in planning consents.

| Noise Source | Prescribed Limit<br>(eg planning) | Assessment Required?<br>(Y/N) | Recorded Level | Responsible Person |
|--------------|-----------------------------------|-------------------------------|----------------|--------------------|
|              |                                   |                               |                |                    |
|              |                                   |                               |                |                    |
|              |                                   |                               |                |                    |

Records of checks will be recorded and maintained in the Site Environmental File.

Any breaches of consented levels will be recorded in an Environmental Incident Report and fully investigated in accordance with BIMS 03-02.

Any breaches will be promptly reported to the Client and Regulator. This shall be done following advice from the QES Department / Engineering Director.

## Appendix J – Contract Organisation

| Responsibility:                   | Name:             | Location:            | Contact details:                  |
|-----------------------------------|-------------------|----------------------|-----------------------------------|
| <b>Project Team – Office:</b>     |                   |                      |                                   |
| Operations Director               | Terry Sadler      | Newport Ty Awen      | Terry.sadler@jnbentley.co.uk      |
| Operations Manager                | Graeme Carruthers | Newport Ty Awen      | Graeme.carruthers@jnbentley.co.uk |
| Contracts Manager                 | Quentin Hellis    | Newport Ty Awen      | Quentin.hellis@mm-b.co.uk         |
| Design Manager/Project Leader     | Matthew Thorpe    | Newport Ty Awen      | Matthew.thorpe@mottmac.com        |
| Quantity Surveyor                 | Alex Rees         | Newport Ty Awen      | Alexandra.rees@jnbentley.co.uk    |
| Temporary Works Coordinator (TWC) | Quentin Hellis    | Newport Ty Awen      | Quentin.hellis@mm-b.co.uk         |
| Project Manager                   |                   |                      |                                   |
| <b>Project Team – Site:</b>       |                   |                      |                                   |
| Site Manager                      | Justin Webb       | Newport Ty Awen/Site | Justin.Webb@jnbentley.co.uk       |
| M & E Engineer                    |                   |                      |                                   |
| Commissioning Engineer            |                   |                      |                                   |
| Electrical Engineer               |                   |                      |                                   |
| Other...                          |                   |                      |                                   |
| <b>Technical Support:</b>         |                   |                      |                                   |
| QES Advisor (H&S)                 | Nigel Bull        | Ty Awen, Newport     | Nigel.bull@jnbentley.co.uk        |
| QES Advisor (Q&E)                 | Rebecca Mann      | Ty Awen, Newport     | Rebecca.mann@mottmac.com          |
| Buyer                             | JNB Skipton       |                      |                                   |
| Environmental                     | Will Batten       | Ty Awen, Newport     | Will.Batten@mottmac.com           |
| Ecologist                         | Elliott Hughes    | Ty Awen, Newport     | Elliott.Hughes@mottmac.com        |
| Archaeologist                     | N/A               |                      |                                   |
| Regional CSR / Community Liaison  | N/A               |                      |                                   |
| Other...                          |                   |                      |                                   |

Key Responsibilities:

| <b>Key Duties:</b>                                              | <b>Site Manager</b> | <b>Engineer</b> | <b>Foreman</b> | <b>Lead Hand</b> |
|-----------------------------------------------------------------|---------------------|-----------------|----------------|------------------|
| Site Inductions                                                 | R                   | N/A             | N/A            | D                |
| Morning Briefings                                               | R                   | N/A             | N/A            | D                |
| Tool Box Talks                                                  | R                   | N/A             | N/A            | D                |
| General Workmanship                                             | R                   | N/A             | N/A            | D                |
| Materials Quality                                               |                     | N/A             | N/A            | D                |
| Inspection & Test Plans                                         | R                   | N/A             |                |                  |
| Environmental Monitoring                                        |                     | N/A             | N/A            | N/A              |
| <b>R= Responsible Person, D = Delegated Person (eg Absence)</b> |                     |                 |                |                  |

## Appendix K – Authority to Receive Goods and Plant:

The following personnel are authorised to receive goods, plant or services on site:

|                                                                                                                                                                                                                                                                                                                                                                                                 | Contracts Manager                   | Site Manager | Engineer | Foreman | Lead Hand | General Operative | Subcontractor | Visitor (JNB / MMB) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------|----------|---------|-----------|-------------------|---------------|---------------------|
| <b>Delivery Type:</b>                                                                                                                                                                                                                                                                                                                                                                           |                                     |              |          |         |           |                   |               |                     |
| Mail ( <i>Requiring Signature</i> )                                                                                                                                                                                                                                                                                                                                                             | Y                                   | Y            | Y        | Y       | Y         | N                 | N             | N                   |
| Plant Deliveries                                                                                                                                                                                                                                                                                                                                                                                | Y                                   | Y            | Y        | Y       | Y         | N                 | N             | N                   |
| Plant Uplifts                                                                                                                                                                                                                                                                                                                                                                                   | Y                                   | Y            | Y        | Y       | Y         | N                 | N             | N                   |
| Materials Deliveries                                                                                                                                                                                                                                                                                                                                                                            | Y                                   | Y            | Y        | Y       | Y         | N                 | N             | N                   |
| Returned Goods                                                                                                                                                                                                                                                                                                                                                                                  | Y                                   | Y            | Y        | Y       | Y         | N                 | N             | N                   |
| Concrete Deliveries                                                                                                                                                                                                                                                                                                                                                                             | Y                                   | Y            | Y        | Y       | Y         | N                 | N             | N                   |
| Waste Uplifts                                                                                                                                                                                                                                                                                                                                                                                   | Y                                   | Y            | Y        | Y       | Y         | N                 | N             | N                   |
| Other (State)                                                                                                                                                                                                                                                                                                                                                                                   | -                                   | -            | -        | -       | -         | -                 | -             | -                   |
| State: Yes (Y) or No (N)                                                                                                                                                                                                                                                                                                                                                                        |                                     |              |          |         |           |                   |               |                     |
| <b>Usual checks will still apply, specifically:</b> <ol style="list-style-type: none"> <li>1 Checking and signing for all materials upon delivery against the delivery ticket for quality, quantity and damage;</li> <li>2 Signing Plant On-hire &amp; Off-hire Sheets (inc temporary works items &amp; surveying equipment);</li> <li>3 Checking &amp; signing for any other items.</li> </ol> |                                     |              |          |         |           |                   |               |                     |
| <b>Document any 'Special Checks' Required when approving deliveries / uplifts:</b>                                                                                                                                                                                                                                                                                                              |                                     |              |          |         |           |                   |               |                     |
| Mail ( <i>Requiring Signature</i> )                                                                                                                                                                                                                                                                                                                                                             | Check contents and quantity.        |              |          |         |           |                   |               |                     |
| Plant Deliveries                                                                                                                                                                                                                                                                                                                                                                                | Check description, fuel, condition. |              |          |         |           |                   |               |                     |
| Plant Uplifts                                                                                                                                                                                                                                                                                                                                                                                   | Check inclusions, fuel, condition.  |              |          |         |           |                   |               |                     |
| Materials Deliveries                                                                                                                                                                                                                                                                                                                                                                            | Check contents and quantity.        |              |          |         |           |                   |               |                     |
| Returned Goods                                                                                                                                                                                                                                                                                                                                                                                  | Check contents and quantity.        |              |          |         |           |                   |               |                     |
| Concrete Deliveries                                                                                                                                                                                                                                                                                                                                                                             | TBC once specified.                 |              |          |         |           |                   |               |                     |
| Waste Uplifts                                                                                                                                                                                                                                                                                                                                                                                   | Check descriptions match waste.     |              |          |         |           |                   |               |                     |
| Other (State)                                                                                                                                                                                                                                                                                                                                                                                   | -                                   |              |          |         |           |                   |               |                     |