Method Statement
Site Clearance Works & Topsoil Strip

Version Issue.

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<th>Issue</th>
<th>Date</th>
<th>Version Details</th>
<th>Revised by</th>
</tr>
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<td>0</td>
<td>8/5/14</td>
<td>First Issue</td>
<td></td>
</tr>
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Acceptance / Approvals.

<table>
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<tr>
<th>Prepared by:</th>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>M Blackweir</td>
<td>08/05/2014</td>
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<tr>
<td>Reviewed by:</td>
<td>A McGinley</td>
<td>08/05/2014</td>
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<td>Accepted by:</td>
<td>D Meade</td>
<td>08/05/2014</td>
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</table>
Title: Site Clearance Works & Topsoil Strip

Location: N60 Balla to Claremorris Road Realignment at Heathlawn Scheme

Task at Hand
This method statement outlines the procedure and methodology for site clearance works and topsoil stripping including removal/demolition of existing buildings, road signage and trees which interfere with the new road alignment.

Timing of Task
To be advised subject to Contractor appointment.

Supervision of Task (Typical)

<table>
<thead>
<tr>
<th>Name</th>
<th>Contact Number</th>
</tr>
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<tbody>
<tr>
<td>Contracts Manager:</td>
<td>TBC</td>
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<tr>
<td>Site Agent:</td>
<td>TBC</td>
</tr>
<tr>
<td>Foreman:</td>
<td>TBC</td>
</tr>
<tr>
<td>Site Engineer:</td>
<td>TBC</td>
</tr>
<tr>
<td>Suitably Qualified Ecologist:</td>
<td>TBC</td>
</tr>
</tbody>
</table>

Employees Involved (Typical)

- Plant Operators
- Banksman
- Site Supervisor
- General operatives

Plant & Equipment to be used (Typical)

- 20 T – 60 T 3600 excavators
- A25 – A40 all terrain dumptrucks
- D65 dozers
- Tractor and attachments

Specific Training
All site personnel shall have FAS ‘Safe Pass’ certification.
All Excavator, Dumper and Crane drivers shall have CSCS certification.
CSCS certified representative in underground service location
### Personal Protective Equipment

<table>
<thead>
<tr>
<th>Safety Gloves</th>
<th>Hearing Protection</th>
<th>Eye Protection</th>
<th>Respiratory Protection</th>
<th>Coveralls</th>
<th>Other</th>
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<tbody>
<tr>
<td>Yes</td>
<td>Where required</td>
<td>Yes</td>
<td>NO</td>
<td>No</td>
<td>Hi Vis- Vest Hard Hats</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Boots</td>
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### Methodology

**Site Clearance & Topsoil Strip**

- All personnel entering the site shall have received a site safety induction and have attended a job toolbox talk.
- A Permit to dig form shall be issued by the Site Engineer relating to the area where Site Clearance and topsoil stripping is to be carried out. The Section Engineer will consult relevant documentation for details of known services and will ensure that the required protections are in place prior to issuing a Permit to Dig.
- Access to site shall be via approved access points (Refer to Figure 2 in Appendix A for site access points). Clearance of all shrub shall be completed using a 360deg excavator or similar. The surplus vegetation shall be stockpiled in appropriate piles throughout the site (at locations in accordance with Environmental mitigation shown in this Construction Method Statement). Where appropriate this may involve the use of a dump truck or similar. The surplus vegetation shall then be disposed of appropriately.
- All works will be executed within the permanent fencing boundary.
- Goal post protection system to be installed around any ESB & Eircom overhead lines which cross works areas prior to any works in these areas.
- Site clearance will also take place along the proposed fencing, with works undertaken from within the permanent boundary fencing. Openings between the landowners adjacent to the works will be fenced and left stock proof by the end of each working day unless otherwise agreed with the Landowner.
Potential Ecological / Environmental Impacts, including impacts on Balla Turlough cSAC and/or other European sites

NIS / EAR: Relevant Extracts:

Potential Impacts (in the absence of below Mitigation):

- Surface & groundwater contamination during construction.
- Potential Increase in run-off volumes to Turlough during construction.
- Pollution from Surface Water run-off during Construction.
- Direct Loss of Habitats/Flora species during Construction.
- Indirect Loss of Habitats impacts during Construction.
- Impact on Mammals during Construction (Other than bats).
- Impact on Protected Mammals during Construction (Bats).
- Impact on Birds during Construction.

Mitigation:

- Construction works carried out in the vicinity of the turloughs will be monitored by a suitably qualified ecologist.
- To reduce potential increases in flows into the drainage system and downstream turloughs during construction, the period of exposure of bare areas and uncontrolled runoff from new hardstanding areas will be limited. Early covering/seeding/planting of exposed surfaces will be undertaken.
- Material stockpiles will be kept to a minimum size, covered and located at least 10m from the drainage system and 100m from turloughs.
- To prevent contaminated or silt-laden runoff from entering the turloughs, a range of temporary measures will be implemented, such as silt fences, cut-off ditches, silt traps, straw bales, entrapment matting and drainage to vegetated areas.
- Runoff will be controlled and, if required, directed to settlement ponds or sumps. Any temporary attenuation and treatment facilities will be designed and implemented in accordance with CIRIA C697 (2007). All temporary treatment systems will be regularly inspected and maintained.
- The extent of construction activities will be controlled to limit vegetation removal and the exposure and/or compaction of soils. Land surrounding the immediate construction area will be fenced off, or otherwise demarcated, to prevent inadvertent intrusion from construction plant.
- Construction works will be avoided during prolonged periods of very heavy rainfall adjacent to the Balla Turlough cSAC and Un-named Turlough.
- No construction plant or construction vehicles to enter the Balla Turlough cSAC boundary other than where this boundary has already been generally encroached by the existing road.
- Refuelling of machinery shall be carried out off-site, or when on-site not within 100m of Turlough habitat.
• All fuels, oils, greases, hydraulic fluids and chemical storage areas will be stored in bunded compounds/areas on impermeable bases at least 10m from the proposed drainage system and 100m from the cSAC and Un-named Turlough.

• No machinery to enter Turlough habitats, no temporary access or haul routes are located in Turlough habitats and no temporary storage areas, plant or other obstacles are located within Turlough habitats.

• Monitoring of turbidity (suspended solids) levels in Balla Turlough SAC and the Un-named Turlough will be undertaken on a monthly basis for a minimum of 6 months prior to construction and will include monitoring during the winter season when Turlough water levels are most likely to be present. Monitoring will also be undertaken on a weekly basis during construction for turbidity (suspended solids). In the event of suspended solids concentrations that are higher than the 95th %ile of those monitored during the pre-construction monitoring period, a review of the Sediment and Erosion Control measures and plan will be implemented and additional sediment control measures put in place as required. Daily visual inspections of Balla Turlough SAC and the Un-named Turlough will also be undertaken during the construction phase to confirm the absence of sediment from construction works.

• The N60 Balla to Claremorris Erosion and Sediment Control Plan shall be implemented to prevent sediment or pollutants from reaching the Balla or Un-named Turloughs.

• Prior to construction, and from November-February, the single Sweet Briar bush at Heathlawn (Ch. 3,220) shall be up-rooted and ‘heeled-in’ in a suitable, dry, sheltered, unshaded habitat outside the working area but within the permanent fenceline boundary. This shall be supervised by a suitably qualified ecologist. The temporary planting area shall be fenced off and appropriately labelled to inform construction staff. Following completion of road construction, but prior to landscaping works, this bush will be removed from storage/or habitat in which it was heeled-in, and be included in landscape treatments.

• The N60 Balla to Claremorris Invasive Species Management Plan will be implemented in full. The Three-Cornered Garlic within the footprint of the works at Ch. 1,500 in the abandoned garden at Garhawnagh will be dug out and either buried to depth of 2m, or removed to licensed landfill or incinerator. The landfill will be notified of the invasive species content. The roadside Snowberry shrubs at Ch. 2,070 will be sprayed with a strong glyphosate-based herbicide, which must be applied when the plant is in full leaf. Several applications may be required and care will be taken to avoid non-target species in adjacent hedges and grasslands (Cowslips, Violets and other woodland flora). Rhododendron is outside the working area within a private property boundary and will not be impacted.

• Invasive species may have spread or changed distribution since the summer 2012 habitat surveys. Therefore, the Invasive Species Management Plan will include re-survey (pre-construction) of the working area as per NRA guidelines (NRA, 2010). This survey will include accurate 1:5,000 scale mapping for the precise location of invasive species. The pre-construction surveys will be undertaken by suitable experts with competence in identifying these species and ability to separate them from other species appearing similar to a non-professional (e.g. Three-Cornered Garlic from native Ramsons Allium ursinum).

• A badger derogation license application was submitted and granted license returned. The potential disturbance of the potential subsidiary badger sett is north of Ch. 1,750, and in
close proximity to the proposed Un-named Turlough swale and outfall. This mitigation proposes monitoring of the sett prior to commencement of any construction works, and includes for potential permanent exclusion subject to badger activity and results of this monitoring.

- Seasonal restrictions on vegetation removal will be imposed for breeding birds. This will avoid greatest impacts to both Hedgehog and Pygmy Shrew which are likely during the peak breeding season for these species (May-August according to Hayden & Harrington, 2001).

- Two hedgehog nest boxes will be placed in existing hedges to be retained, within dense vegetation on the side of the hedge facing away from the roadway. These shall be placed at intact hedges where risk of Hedgehog road crossings collisions is reduced, or (preferably) in the base of dense hedgerow at distance from the roadway outside the CPO (subject to permission of local landowners).

- There are no known bat roost features. However as a precautionary measure for the old forge at Rathduff Roof tiles will be removed by hand in the presence of a licenced bat ecologist. If no bats are found, the building shall be demolished immediately and preferably during the ‘shoulder season’ (i.e. September to November). Should any bats be found during the removal of tiles, the bat specialist will consult with the NPWS and advise the contractor on the potential for a derogation licence to be obtained from the NPWS, in line with the NRA Guidelines for the Treatment of Bats during The Construction of National Road Schemes (NRA, 2005).

- Potential indirect impacts via loss of hedge and treeline foraging habitats will be mitigated via hedgerow planting where practicable.

- Construction lighting should be oriented away from hedges, woods, and other vegetated areas.

- Vegetation (e.g. hedgerows, woodland, trees, scrub and grassland) will not be removed between March and August inclusive, to avoid impacts on nesting birds and breeding small mammals. Although the Wildlife Acts provide an exemption from this seasonal restriction for road construction, there is no exemption provided for intentional nest destruction. Where the construction programme does not allow this seasonal restriction to be observed, vegetated areas will be inspected by a suitably qualified ecologist for the presence of breeding birds prior to clearance. Where nests are found, the appointed ecologist will recommend whether a licence is required for vegetation removal from the NPWS. Areas found not to contain nests must be cleared within 3 days of the survey, or further surveys will be required to be undertaken.

- All mitigation contained within the N60 Environmental Assessment Report and NATURA Impact Statement shall be implemented in full.
Specific Identified Residual Risks for Civil Works
The following is a list of identified particular risks associated with above works

- Underground Services
- Plant and Equipment
- Biological Substances
- Manual Handling

Appendix B (attached) gives detailed risk assessments for risks identified above.
Relaying of Information; to each operative:

“I wish to confirm that the information in this method statement has been communicated to me and I have understood it. I shall bring to the attention of the supervisor any issues, which may affect Safety whilst carrying out the task”.

Information provided by Supervisor;  ______________________

<table>
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<tr>
<th>NAME (BLOCK)</th>
<th>Signature</th>
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In the event of the need for a deviation from the Method Statement, no further work will be done until agreement has been reached and recorded in writing between the client & the contractor on the method of work to be followed in the new circumstances.
Appendix A
### APPENDIX B

**Risk Assessments**

**Hazard/Risk Assessment Proforma**

<table>
<thead>
<tr>
<th>Project: N60 Balla to Claremorris Road Realignment at Heathlawn Scheme</th>
<th>Risk Assessment No: N60/RA04 Rev 0</th>
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<tr>
<td>Location/Area: All areas</td>
<td>Method Statement No: MS-N60-03 Rev 0</td>
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**CATEGORY OF PERSONS AT RISK AND MEANS OF BRIEFING**

<table>
<thead>
<tr>
<th>OCCUPATIONS INVOLVED IN ACTIVITY (SPECIFY):</th>
<th>PLANT OPERATORS, GENERAL OPERATIVES</th>
<th>RAMS</th>
<th>SCS</th>
<th>OTHER</th>
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<tr>
<td>OTHERS PERSONS AT WORK (SPECIFY):</td>
<td>N/A</td>
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<td></td>
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<tr>
<td>PUBLIC OR OTHER PARTIES (SPECIFY):</td>
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**Description of the Task/Operation**

1. All aspects of excavations.
2. Lifting operations.
N60 Balla to Claremorris
Road Realignment at
Heathlawn Scheme
Method Statement:
Site Clearance & Topsoil Strip

Issue 0
Date 08/5/14
Ident No. MS-N60-03

KEY:

S = Severity Rating
L = Likelihood of Occurrence

1. Negligible
   1. Improbable
2. Minor
   2. Reasonably likely
3. Notifiable/Major/Fatal
   3. Certain or near certain

RR = Risk Rating

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<td>2</td>
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Risk Assessment Prepared by
(Name):

Signature:

Date:

Risk Assessment Reviewed by
(Name):

Signature:

Date:

Date: 8/5/2014

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### Item 01: Existing Services

<table>
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<tr>
<th>Item</th>
<th>Activity</th>
<th>Hazards/Risks Identified</th>
<th>Pre-Control Risk Rating</th>
<th>Control Measures</th>
<th>Residual Risk Rating</th>
<th>Responsibility</th>
<th>Monitoring Responsibility</th>
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<tbody>
<tr>
<td>01</td>
<td>Existing Services</td>
<td>Work near significant existing services i.e. - ESB services - Watermains - Telecommunications</td>
<td>2 2 4</td>
<td>Detailed Method Statements and Risk Assessments to be carried out for all activities which have potential to impact on existing services - Request temporary outages on services - Worker Briefings to be carried out - Adhere to Codes of Practice for avoiding dangers from underground services - Trial hoiling in advance - Permit to Dig system to be implemented - Use of Catscan equipment - Use of trained plant operators - Use of Banksman - Request temporary outages on affected utilities</td>
<td>1 2 2</td>
<td>Full site Team</td>
<td>BBI</td>
</tr>
</tbody>
</table>
# Method Statement:
## Site Clearance & Topsoil Strip

**N60 Balla to Claremorris Road Realignment at Heathlawn Scheme**

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<th>Activity</th>
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<th>Pre-Control Risk Rating</th>
<th>Control Measures</th>
<th>Residual Risk Rating</th>
<th>Responsibility</th>
<th>Monitoring Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>Heavy Plant and Equipment</td>
<td>Working adjacent to Heavy Plant and machinery including excavation plant and lifting appliances <strong>Hazards</strong> Noise. Operated by untrained individual Incorrect use. Speeding. Poor maintenance. Unsupervised reversing. Overloading <strong>Risks</strong> Struck by site transport Falls from vehicles. Splashed by fuel during refuelling. Tipping or overturning of vehicles. Contact with moving parts of machinery. Struck by mater dropped while in lift.</td>
<td>3 2 6</td>
<td>- Detailed Method Statements and Risk Assessments to be carried out for all activities to address the movement use of heavy equipment.  - Worker Briefings to be carried out  - Plant to be operated by Competent Personnel  - Plant to be in good order and inspected prior to commencement of any works on site  - Auxiliary devices and visual aids on plant as highlighted in Schedule 6 of 2006 Construction Regulations.  - Carry out plant checks and record on plant checklists  - Vehicle Banksmen to be utilised where required  - Segregate traffic from public and workforce where possible  - Implement work exclusion zones where appropriate  - Implement Traffic Management Plans  - Ensure all personnel were appropriate PPE and high visibility clothing</td>
<td>3 1 3</td>
<td>Full site Team</td>
<td>Contr</td>
</tr>
</tbody>
</table>

*Date: 08/5/14*
## Method Statement:
### Site Clearance & Topsoil Strip

**N60 Balla to Claremorris Road Realignment at Heathlawn Scheme**

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</tr>
</thead>
</table>
| 03   | Biological Substances | Works which put person at work at risk from Biological substances  
- Leptospirosis /Weils Disease  
- Contact with contaminated ground or objects or materials  
- Working on existing streams and drains, particularly foul drains. | 3 2 4 | - Detailed Method Statements and Risk Assessments to be carried out for all activities where biological substances are envisaged including contaminated ground and dealing with asbestos gaskets  
- Areas of potential contaminated ground to be tested and areas segregated  
- COSHH Assessments to be carried out and briefed to workers  
- MSDS Sheets to be available for construction chemicals in use  
- Ensure adequate assessment of PPE requirements for surfacing operations  
- All operatives engaged in sewer tie in works to wear appropriate PPE which will include gloves and disposable overalls.  
- All operatives to be briefed and trained  
- Adequate washing facilities to provided  
- Ensure adequate ventilation is provided provide to avoid Asphyxiation  
- Adequate awareness of and protection against Weils disease | 3 1 2 | Full site Team | Contr |
<table>
<thead>
<tr>
<th>Item</th>
<th>Activity</th>
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<th>Pre-Control Risk Rating</th>
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</tr>
</thead>
</table>
| 04   | Manual Handling| Fractures, Strains, Sprains Cuts, Lacerations, Abrasions Injury through aggravation of previous/existing medical condition | 3 2 6                  | - Use of mechanical assistance wherever possible, e.g. forklift, plant, lifting appliance etc.  
- Reduce loads by making them smaller or lighter.  
- Ensure the working environment is suitable i.e. -  
- Access ways are unimpeded and properly lighted. - Working platforms should be non-slip and kept clean.  
Ensure that the individual is lifting correctly, maintains good posture, and lifts with knees bent and back kept straight.  
All loads should be assessed individually for size and weight, but generally loads greater than 25kg should be handled by more than one person or mechanical means employed.  
Operatives must wear appropriate gloves and other clothing to reduce the risk of injury.  
Ensure that all previously experienced back complaints are brought to the attention of management, in order that allowances may be made in ascertaining the safest method of manual handling. | 3 1 2               | Full Site Team | Contr |