LOCATE & PROTECT UNDERGROUND POWER CABLE

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| **PCBU Address:** Lot 3, Redlynch Connector Road, Redlynch 4870  **Job Title:**  **Site Address:** | | | | **Date:**  **Page:** 1 of 3 **SWMS No:** 21 | | **New**  **Revised** |
| **Principal:** | | **Supervisor:** Ian Loccisano | | **Approved by:** Ian Loccisano | | |
| **Required Personal Protective Equipment:** Safety boots, safety vest, wooden/ plastic handle tools | | | | | | |
| **TASK** | **POTENTIAL HAZARDS** | | **ACTION OR PROCEDURE** | | **RESPONSIBILITY** | |
| Location of underground power cabling | Failure to detect all cabling | | Consult & refer to service provider drawings (current for four weeks) | | Locator/supervisor | |
| Visual survey of area to locate cables running down poles, junction boxes and transformers | | Locator | |
| Visual survey of area to locate sunken trenches and patched road crossings | | Locator | |
| Damage to locator or electrocution | | Do not direct couple around live LV power with metroclamp unless accompanied by an electrician. For HV, passive location must be used | | Locator | |
| Be aware cables to street lighting may be live with timer/sensor in light head | | Locator | |
| Failure to electronically locate accurately | | Be aware that overhead power cables may cause false readings | | Locator | |
| Failure to electronically locate all cabling | | On completion of electronic location of all known cables, conduct a blind sweep in passive mode in a grid pattern | | Locator | |
| **TASK** | **POTENTIAL HAZARDS** | | **ACTION OR PROCEDURE** | | **RESPONSIBILITY** | |
| Potholing | Damage to cabling/electrocution | | Be aware that cabling could be direct buried. Have service provider present | | Crew via supervisor | |
| Dig by shovel to marker tape/slats | | Crew | |
| Use wooden/plastic handle shovel to dig past tape/slats or use vacuum truck | | Crew | |
| Dig across the cable to pothole | | Crew | |
| Falling into pothole | | Barricade or backfill pothole with sand until required | | Crew | |
| Potholing frequency & methodology | Within 2.5m of nominal location | | Pothole to prove exact location | | Crew | |
| Excavating parallel to cables | | Pothole every 4.0m. If depth exceeds cable depth & likelihood of cable disturbance advise supplier | | Crew via supervisor | |
| Excavating across cables | | Minimum of 500mm clearance above & below cables to be maintained. If width of excavation is such that cables are exposed and unsupported, contact supplier | | Crew via supervisor | |
| Heavy machinery operating over cables | | Minimum of 450mm of load bearing cover required | | Crew | |
| Directional boring near cables | | Excavate trench 1.0m from side of cables where the borer will approach to ensure 500mm clearance is maintained | | Crew | |

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| **TASK** | **POTENTIAL HAZARDS** | **ACTION OR PROCEDURE** | **RESPONSIBILITY** |
| Marking of locations | Failure to relocate | Mark with pegs flagged with red tape or paint. Workers to be shown cable locations. Mark on plan if required | Locator |
| All related activities | All hazards | Daily periodical monitoring of activity | Supervisor |

Risk assessment based on all procedures being in place

**Risk Assessment Matrix**



**Likelihood:** Very unlikely **Consequences:** Minor **Risk score:** 7