

Environmental Impact Assessment Report (EIAR)

Volume 6 of 6: Appendices

(Appendix 5.4) Schedule of Crossings

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1. Introduction

1. This appendix (A5.4) details the various watercourses, roads, rail and power connections which would be crossed by the water supply infrastructure of the Proposed Project. This includes areas crossed by the Raw Water Intake and Pumping Station (RWI&PS), Water Treatment Plant (WTP), Break Pressure Tank (BPT), Booster Pumping Station (BPS), Termination Point Reservoir (TPR), Raw Water Rising Mains (RWRMs), and Treated Water Pipeline.
2. It does not include all the crossings for the re-stringing of the Proposed 38kV Uprate Works or other power connections. These are included in Chapter 18 (Material Assets).

2. Watercourse Crossings

3. In addition to the crossings listed in Table 2.1 and 2.2 crossing WCX002 on the Kilmastulla tributary for the access to the Water treatment Plant would be crossed by a clear span bridge at set out Chapter 4 (Proposed Project Description).

2.1 Watercourse Crossings – Open Cut

Table 2.1: Watercourses – Open Trench Excavation

| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|------------|---|
| Water | WBP062 | Unnamed | RW – 100 | Figure 4.7 |  |
| Water | WBX001 | Unnamed | RW – 300 | Figure 4.7 |  |
| Water | WBP001 | Unnamed | RW – 800 | Figure 4.7 |  |
| Water | WBP320 | Unnamed | RW - 1300 | Figure 4.7 |  |
| Water | WBP308 | Unnamed | N/A | Figure 4.7 |  |
| Water | WBP220 | Unnamed | RW – 2000 | Figure 4.7 |  |
| Water | WBX002 | Unnamed | RW - 300 | Figure 4.7 |  |
| Water | WBP063 | Unnamed | WTP site | Figure 4.7 |  |
| Water | WBX090 | Unnamed | WTP Site | Figure 4.7 |  |
| Water | WBX004 | Unnamed | WTP Access | Figure 4.7 |  |
| Water | WBP175 | Unnamed | TW - 100 | Figure 4.7 |  |
| Water | WBP221 | Unnamed | WTP Access | Figure 4.7 |  |
| Water | WBP321 | Unnamed | TW - 200 | Figure 4.7 |  |
| Water | WBX091 | Unnamed | TW – 300 | Figure 4.7 |  |
| Water | WBP322 | Unnamed | TW - 600 | Figure 4.8 |  |
| Water | WCX003 | Incha_Beg | TW – 700 | Figure 4.8 |  |
| Water | WCX004 | Knockadromin | TW – 1000 | Figure 4.8 |  |
| Water | WBP222 | Unnamed | TW – 2200 | Figure 4.8 |  |
| Water | WBP066 | Unnamed | TW – 2400 | Figure 4.8 |  |
| Water | WBP068 | Unnamed | TW – 2700 | Figure 4.8 |  |
| Water | WBX005 | Unnamed | TW – 2800 | Figure 4.8 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WBX006 | Unnamed | TW – 2900 | Figure 4.8 |  |
| Water | WBX007 | Unnamed | TW – 3100 | Figure 4.8 |  |
| Water | WBP058 | Unnamed | TW – 3300 | Figure 4.8 |  |
| Water | WBP312 | Unnamed | TW - 3900 | Figure 4.8 |  |
| Water | WBX010 | Unnamed | TW – 4000 | Figure 4.9 |  |
| Water | WBP223 | Unnamed | TW – 4200 | Figure 4.9 |  |
| Water | WBP282 | Unnamed | TW – 4200 | Figure 4.9 |  |
| Water | WBP265 | Unnamed | TW – 4300 | Figure 4.9 |  |
| Water | WBP224 | Unnamed | TW – 4400 | Figure 4.9 |  |
| Water | WBP264 | Unnamed | TW – 4400 | Figure 4.9 |  |
| Water | WBX108 | Unnamed | TW – 4400 | Figure 4.9 |  |
| Water | WBX011 | Unnamed | TW – 4400 | Figure 4.9 |  |
| Water | WBP226 | Unnamed | TW – 4800 | Figure 4.9 |  |
| Water | WBX012 | Unnamed | TW – 4900 | Figure 4.9 |  |
| Water | WBP003 | Unnamed | TW – 5300 | Figure 4.9 |  |
| Water | WBP228 | Unnamed | TW – 6600 | Figure 4.9 |  |
| Water | WBP004 | Unnamed | TW – 7000 | Figure 4.9 |  |
| Water | WCX005 | Burgesbeg | TW – 7500 | Figure 4.9 |  |
| Water | WCX006 | Gortmore 25 | TW – 8500 | Figure 4.10 |  |
| Water | WCX007 | Carrigal | TW – 9000 | Figure 4.10 |  |
| Water | WBP069 | Unnamed | TW – 9200 | Figure 4.10 |  |
| Water | WBP070 | Unnamed | TW – 9500 | Figure 4.10 |  |
| Water | WBP229 | Unnamed | TW – 9700 | Figure 4.10 |  |
| Water | WBP005 | Unnamed | TW – 9900 | Figure 4.10 |  |
| Water | WBP071 | Unnamed | TW – 10000 | Figure 4.10 |  |
| Water | WCX008 | Mountsack | TW – 10200 | Figure 4.10 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WBP230 | Unnamed | TW – 10300 | Figure 4.10 |  |
| Water | WCX009 | Cloghleigh | TW – 10500 | Figure 4.10 |  |
| Water | WBP107 | Unnamed | TW – 10700 | Figure 4.10 |  |
| Water | WBP059 | Unnamed | TW – 11000 | Figure 4.10 |  |
| Water | WBP072 | Unnamed | TW – 11100 | Figure 4.11 |  |
| Water | WBP390 | Unnamed | TW – 11200 | Figure 4.11 |  |
| Water | WBX013 | Unnamed | TW – 11200 | Figure 4.11 |  |
| Water | WCX010 | Patrickswell 25 | TW – 11400 | Figure 4.11 |  |
| Water | WBP291 | Unnamed | TW-11500 | Figure 4.11 |  |
| Water | WBP328 | Unnamed | TW-11600 | Figure 4.11 |  |
| Water | WBP289 | Unnamed | TW-11900 | Figure 4.11 |  |
| Water | WBP290 | Unnamed | TW-11900 | Figure 4.11 |  |
| Water | WBP287 | Unnamed | TW-12100 | Figure 4.11 |  |
| Water | WBP288 | Unnamed | TW-12200 | Figure 4.11 |  |
| Water | WBX014 | Unnamed | TW – 12400 | Figure 4.11 |  |
| Water | WBP073 | Unnamed | TW – 12500 | Figure 4.11 |  |
| Water | WBP318 | Unnamed | TW - 12500 | Figure 4.11 |  |
| Water | WBP232 | Unnamed | TW – 12700 | Figure 4.11 |  |
| Water | WBP233 | Unnamed | TW – 12800 | Figure 4.11 |  |
| Water | WBP274 | Unnamed | TW - 12900 | Figure 4.11 |  |
| Water | WBP235 | Unnamed | TW – 13400 | Figure 4.11 |  |
| Water | WCX011 | Ardgregane Stream | TW – 13500 | Figure 4.11 |  |
| Water | WBP401 | Unnamed | TW – 13500 | Figure 4.11 |  |
| Water | WBP236 | Unnamed | TW – 13800 | Figure 4.11 |  |
| Water | WBP239 | Unnamed | TW – 14300 | Figure 4.11 |  |
| Water | WBP240 | Unnamed | TW – 14400 | Figure 4.12 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WBP272 | Unnamed | TW - 14400 | Figure 4.12 |  |
| Water | WBP074 | Unnamed | TW – 14800 | Figure 4.12 |  |
| Water | WCX012 | Fatthen | TW – 15000 | Figure 4.12 |  |
| Water | WBX015 | Unnamed | TW – 15300 | Figure 4.12 |  |
| Water | WBP241 | Unnamed | TW – 15500 | Figure 4.12 |  |
| Water | WBP108 | Unnamed | TW – 15600 | Figure 4.12 |  |
| Water | WBP075 | Unnamed | TW – 16000 | Figure 4.12 |  |
| Water | WCX013 | Ardgregane Stream | TW – 16500 | Figure 4.12 |  |
| Water | WBX016 | Unnamed | TW – 17000 | Figure 4.12 |  |
| Water | WCX014 | Monsea 25 | TW – 17200 | Figure 4.13 |  |
| Water | WBP323 | Unnamed | TW - 17400 | Figure 4.13 |  |
| Water | WBP324 | Unnamed | TW - 17400 | Figure 4.13 |  |
| Water | WBP325 | Unnamed | TW - 17500 | Figure 4.13 |  |
| Water | WBP242 | Unnamed | TW – 17700 | Figure 4.13 |  |
| Water | WBP243 | Unnamed | TW – 17800 | Figure 4.13 |  |
| Water | WBP329 | Unnamed | TW – 17900 | Figure 4.13 |  |
| Water | WCX015 | Monsea 25 | TW – 17900 | Figure 4.13 |  |
| Water | WBP076 | Unnamed | TW – 18100 | Figure 4.13 |  |
| Water | WBP077 | Unnamed | TW – 18300 | Figure 4.13 |  |
| Water | WBP078 | Unnamed | TW – 18400 | Figure 4.13 |  |
| Water | WBP079 | Unnamed | TW – 18800 | Figure 4.13 |  |
| Water | WBX017 | Unnamed | TW – 19200 | Figure 4.13 |  |
| Water | WBP273 | Unnamed | TW-19300 | Figure 4.13 |  |
| Water | WBP330 | Unnamed | TW - 20300 | Figure 4.13 |  |
| Water | WBX018 | Unnamed | TW – 20400 | Figure 4.13 |  |
| Water | WCX017 | Upper Ballyanny | TW – 20700 | Figure 4.13 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|--------------|---|
| Water | WBP331 | Unnamed | TW - 22700 | Figure 4.14 |  |
| Water | WCX018 | Ardcrony Stream | TW – 26500 | Figure 4.15 |  |
| Water | WCX019 | Shesheraghmore | TW – 30800 | Figure 4.16 |  |
| Water | WBX019 | Unnamed | TW – 31600 | Figure 4.17 |  |
| Water | WBP206 | Unnamed | TW – 33100 | Figure 4.17 |  |
| Water | WBP332 | Unnamed | TW - 33300 | Figure 4.17 |  |
| Water | WBP333 | Unnamed | TW - 33400 | Figure 4.17 |  |
| Water | WBP397 | Unnamed | TW - 33900 | Figure 4.17 | |
| Water | WBX020 | Unnamed | TW – 34200 | Figure 4.17 |  |
| Water | WCX020 | Ballyfinboy | TW – 34800 | Figure 4.17 |  |
| Water | WCX021 | Ballyfinboy | TW – 35000 | Figure 4.18 |  |
| Water | WBP006 | Unnamed | TWA – 3600 | Figure 4.19 |  |
| Water | WBX021 | Unnamed | TWA – 4300 | Figure 4.19 |  |
| Water | WCX022 | Derrinclare | TWA – 4800 | Figure 4.19 |  |
| Water | WBP334 | Unnamed | TWA – 5500 | Figure 4.120 |  |
| Water | WCX023 | Derrinclare | TWA – 5600 | Figure 4.20 |  |
| Water | WBX022 | Unnamed | TWA – 5800 | Figure 4.20 |  |
| Water | WBP335 | Unnamed | TWA – 5800 | Figure 4.20 |  |
| Water | WBP336 | Unnamed | TWA –7600 | Figure 4.20 |  |
| Water | WBX023 | Unnamed | TWA – 7800 | Figure 4.20 |  |
| Water | WCX024 | Shinrone stream | TWA – 8000 | Figure 4.21 |  |
| Water | WBX024 | Unnamed | TWA – 8700 | Figure 4.21 |  |
| Water | WCX025 | Quakerstown | TWA – 9400 | Figure 4.21 |  |
| Water | WBX025 | Unnamed | TWA – 12100 | Figure 4.22 |  |
| Water | WBP009 | Unnamed | TWA – 12800 | Figure 4.22 |  |
| Water | WBX026 | Unnamed | TWA – 13200 | Figure 4.22 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WBX027 | Unnamed | TWA – 14800 | Figure 4.22 |  |
| Water | WBP010 | Unnamed | TWA – 15300 | Figure 4.22 |  |
| Water | WBP011 | Unnamed | TWA – 15300 | Figure 4.22 |  |
| Water | WBP080 | Unnamed | TWA – 16000 | Figure 4.23 |  |
| Water | WBP109 | Unnamed | TWA – 16600 | Figure 4.23 |  |
| Water | WCX027 | Rock [Birr] | TWA – 17500 | Figure 4.23 |  |
| Water | WBP110 | Unnamed | TWA – 18800 | Figure 4.24 |  |
| Water | WBP286 | Unnamed | TWA - 19200 | Figure 4.24 |  |
| Water | WBP284 | Unnamed | TWA - 19200 | Figure 4.24 |  |
| Water | WBX028 | Unnamed | TWA – 19400 | Figure 4.24 |  |
| Water | WBX029 | Unnamed | TWA – 19500 | Figure 4.24 |  |
| Water | WBP225 | Unnamed | TWA – 20100 | Figure 4.24 |  |
| Water | WBP267 a | Unnamed | TWA – 20100 | Figure 4.24 |  |
| Water | WBP400 | Unnamed | TWA – 20200 | Figure 4.24 |  |
| Water | WBP012 | Unnamed | TWA – 20300 | Figure 4.24 |  |
| Water | WBP319 | Unnamed | TWA – 20700 | Figure 4.24 |  |
| Water | WBP399 | Unnamed | TWA – 20800 | Figure 4.24 |  |
| Water | WBX030 | Unnamed | TWA – 21100 | Figure 4.24 |  |
| Water | WBX031 | Unnamed | TWA – 21200 | Figure 4.24 |  |
| Water | WBX032 | Unnamed | TWA – 21300 | Figure 4.25 |  |
| Water | WBX033 | Unnamed | TWA – 21300 | Figure 4.25 |  |
| Water | WBP251 | Unnamed | TWA – 21500 | Figure 4.25 |  |
| Water | WBP278 | Unnamed | TWA - 23000 | Figure 4.25 |  |
| Water | WBP013 | Unnamed | TWA – 23200 | Figure 4.25 |  |
| Water | WBP281 | Unnamed | TWA - 23300 | Figure 4.25 |  |
| Water | WCX028 | Kilmaine_25 | TWA – 23800 | Figure 4.25 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WBP283 | Unnamed | TWA – 24300 | Figure 4.25 |  |
| Water | WCX029 | Clareen Stream | TWA – 24800 | Figure 4.26 |  |
| Water | WBP081 | Unnamed | TWA – 25600 | Figure 4.26 |  |
| Water | WCX030 | Breaghmore West | TWA – 25700 | Figure 4.26 |  |
| Water | WBP082 | Unnamed | TWA – 26300 | Figure 4.26 |  |
| Water | WBP266 | Unnamed | TWA – 26500 | Figure 4.26 |  |
| Water | WBP083 | Unnamed | TWA – 26500 | Figure 4.26 |  |
| Water | WBP269 | Unnamed | TWA – 26700 | Figure 4.26 |  |
| Water | WBX034 | Unnamed | TWA – 27200 | Figure 4.25 |  |
| Water | WBP014 | Unnamed | TWA – 27400 | Figure 4.26 |  |
| Water | WBP256 | Unnamed | TWA – 27500 | Figure 4.26 |  |
| Water | WBX037 | Unnamed | TWB – 300 | Figure 4.27 |  |
| Water | WBP260 | Unnamed | TWB – 1000 | Figure 4.27 |  |
| Water | WCX033 | Upper Coagh | TWB – 1400 | Figure 4.27 |  |
| Water | WBX038 | Unnamed | TWB – 4600 | Figure 4.31 |  |
| Water | WBP111 | Unnamed | TWB – 4700 | Figure 4.31 |  |
| Water | WBX107 | Unnamed | TWB – 4700 | Figure 4.31 |  |
| Water | WBX039 | Unnamed | TWB – 4800 | Figure 4.31 |  |
| Water | WBP084 | Unnamed | TWB – 5100 | Figure 4.31 |  |
| Water | WBP016 | Unnamed | TWB – 5800 | Figure 4.31 |  |
| Water | WBP275 | Unnamed | TWB – 6100 | Figure 4.32 |  |
| Water | WBP276 | Unnamed | TWB – 6200 | Figure 4.32 |  |
| Water | WBP017 | Unnamed | TWB – 6300 | Figure 4.32 |  |
| Water | WBP277 | Unnamed | TWB – 6500 | Figure 4.32 |  |
| Water | WBP018 | Unnamed | TWB – 6400 | Figure 4.32 |  |
| Water | WBP019 | Unnamed | TWB – 6500 | Figure 4.32 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WCX034 | Kyleboher | TWB – 6600 | Figure 4.32 |  |
| Water | WBP337 | Unnamed | TWB – 6500 | Figure 4.32 |  |
| Water | WBP261 | Unnamed | TWB – 6700 | Figure 4.32 |  |
| Water | WBP020 | Unnamed | TWB – 6700 | Figure 4.32 |  |
| Water | WBP021 | Unnamed | TWB – 6800 | Figure 4.32 |  |
| Water | WBP262 | Unnamed | TWB – 7100 | Figure 4.32 |  |
| Water | WBP263 | Unnamed | TWB – 7500 | Figure 4.32 |  |
| Water | WCX035 | Kilgolan Lower | TWB – 7800 | Figure 4.32 |  |
| Water | WBP106 | Unnamed | TWB – 8000 | Figure 4.32 |  |
| Water | WBP112 | Unnamed | TWB – 8000 | Figure 4.32 |  |
| Water | WBP113 | Unnamed | TWB – 8100 | Figure 4.32 |  |
| Water | WBP123 | Unnamed | TWB – 8900 | Figure 4.32 |  |
| Water | WBP124 | Unnamed | TWB – 9100 | Figure 4.32 |  |
| Water | WBX040 | Unnamed | TWB – 9100 | Figure 4.32 |  |
| Water | WBX041 | Unnamed | TWB – 9600 | Figure 4.33 |  |
| Water | WBP338 | Unnamed | TWB – 9600 | Figure 4.33 |  |
| Water | WBX042 | Unnamed | TWB – 10000 | Figure 4.33 |  |
| Water | WBP061 | Unnamed | TWB – 10100 | Figure 4.33 |  |
| Water | WBP125 | Unnamed | TWB – 10200 | Figure 4.33 |  |
| Water | WBP085 | Unnamed | TWB – 10800 | Figure 4.33 |  |
| Water | WBX043 | Unnamed | TWB – 10900 | Figure 4.33 |  |
| Water | WBP128 | Unnamed | TWB – 13200 | Figure 4.33 |  |
| Water | WBP129 | Unnamed | TWB – 13300 | Figure 4.33 |  |
| Water | WBP130 | Unnamed | TWB – 13500 | Figure 4.33 |  |
| Water | WBX092 | Unnamed | TWB – 13600 | Figure 4.33 |  |
| Water | WBP131 | Unnamed | TWB – 14000 | Figure 4.34 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WBP022 | Unnamed | TWB – 14200 | Figure 4.34 |  |
| Water | WBP132 | Unnamed | TWB – 14500 | Figure 4.34 |  |
| Water | WBP133 | Unnamed | TWB – 14600 | Figure 4.34 |  |
| Water | WCX038 | House Derries | TWB – 14800 | Figure 4.34 |  |
| Water | WBX093 | Unnamed | TWB – 14800 | Figure 4.34 |  |
| Water | WBP134 | Unnamed | TWB – 14900 | Figure 4.34 |  |
| Water | WBP136 | Unnamed | TWB – 15100 | Figure 4.34 |  |
| Water | WBP087 | Unnamed | TWB – 15300 | Figure 4.34 |  |
| Water | WBP137 | Unnamed | TWB – 15400 | Figure 4.34 |  |
| Water | WBP140 | Unnamed | TWB – 18700 | Figure 4.35 |  |
| Water | WBX094 | Unnamed | Compound | Figure 4.35 |  |
| Water | WBP139 | Unnamed | TWB – 18700 | Figure 4.35 |  |
| Water | WBP115 | Unnamed | TWB – 18900 | Figure 4.35 |  |
| Water | WBX046 | Unnamed | TWB – 19000 | Figure 4.35 |  |
| Water | WBX095 | Unnamed | TWB – 19600 | Figure 4.35 |  |
| Water | WBX045 | Unnamed | TWB – 19800 | Figure 4.35 |  |
| Water | WBP142 | Unnamed | TWB – 20300 | Figure 4.35 |  |
| Water | WBP406 | Unnamed | TWB - 20750 | 4.36 |  |
| Water | WBX047 | Unnamed | TWB – 21000 | Figure 4.36 |  |
| Water | WBP339 | Unnamed | TWB – 21200 | Figure 4.36 |  |
| Water | WBX048 | Unnamed | TWB – 21200 | Figure 4.36 |  |
| Water | WBX049 | Unnamed | TWB – 21800 | Figure 4.36 |  |
| Water | WBX050 | Unnamed | TWB – 22100 | Figure 4.36 |  |
| Water | WBP143 | Unnamed | TWB – 22700 | Figure 4.36 |  |
| Water | WBP145 | Unnamed | TWB – 23200 | Figure 4.36 |  |
| Water | WBX051 | Unnamed | TWB – 23300 | Figure 4.36 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WBP298 | Unnamed | TWB – 23600 | Figure 4.36 |  |
| Water | WBP340 | Unnamed | TWB – 23900 | Figure 4.37 |  |
| Water | WBX052 | Unnamed | TWB – 23900 | Figure 4.37 |  |
| Water | WBP146 | Unnamed | TWB – 25000 | Figure 4.37 |  |
| Water | WBP314 | Unnamed | TWB – 25200 | Figure 4.37 |  |
| Water | WBP089 | Unnamed | TWB – 25200 | Figure 4.37 |  |
| Water | WBP309 | Unnamed | TWC – 700 | Figure 4.38 |  |
| Water | WCX040 | Killeigh Stream | TWC – 1000 | Figure 4.38 |  |
| Water | WBX053 | Unnamed | TWC – 1200 | Figure 4.38 |  |
| Water | WCX041 | Finter | TWC – 3300 | Figure 4.39 |  |
| Water | WBX054 | Unnamed | TWC – 3800 | Figure 4.39 |  |
| Water | WBX055 | Unnamed | TWC – 4000 | Figure 4.39 |  |
| Water | WBX056 | Unnamed | TWC – 4700 | Figure 4.39 |  |
| Water | WCX042 | Meelaghans | TWC – 5000 | Figure 4.39 |  |
| Water | WBP023 | Unnamed | TWC – 5200 | Figure 4.39 |  |
| Water | WBP148 | Unnamed | TWC – 5300 | Figure 4.39 |  |
| Water | WCX043 | Annagharvey 25 | TWC – 5600 | Figure 4.39 |  |
| Water | WBP341 | Unnamed | TWC – 6700 | Figure 4.40 |  |
| Water | WBX057 | Unnamed | TWC – 6900 | Figure 4.40 |  |
| Water | WBP024 | Unnamed | TWC – 7100 | Figure 4.40 |  |
| Water | WBP025 | Unnamed | TWC – 7200 | Figure 4.40 |  |
| Water | WBP150 | Unnamed | TWC – 7500 (PSD6) | Figure 4.40 |  |
| Water | WBP151 | Unnamed | TWC – 7900 | Figure 4.40 |  |
| Water | WBP152 | Unnamed | TWC – 8100 | Figure 4.40 |  |
| Water | WCX044 | Tullamore 25 | TWC – 8900 | Figure 4.40 |  |
| Water | WCX045 | Tullamore 25 | TWC – 9700 | Figure 4.40 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WBP153 | Unnamed | TWC – 9900 | Figure 4.41 |  |
| Water | WBX058 | Unnamed | TWC – 10000 | Figure 4.41 |  |
| Water | WBX059 | Unnamed | TWC – 10200 | Figure 4.41 |  |
| Water | WBX060 | Unnamed | TWC – 10300 | Figure 4.41 |  |
| Water | WBX061 | Unnamed | TWC – 10400 | Figure 4.41 |  |
| Water | WBP154 | Unnamed | TWC – 10800 | Figure 4.41 |  |
| Water | WBX097 | Unnamed | TWC – 11000 | Figure 4.41 |  |
| Water | WBX062 | Unnamed | TWC – 11100 | Figure 4.41 |  |
| Water | WBP155 | Unnamed | TWC – 11200 | Figure 4.41 |  |
| Water | WBX063 | Unnamed | TWC – 11900 | Figure 4.41 |  |
| Water | WBP026 | Unnamed | TWC – 11900 | Figure 4.41 |  |
| Water | WBP156 | Unnamed | TWC – 12000 | Figure 4.41 |  |
| Water | WBP157 | Unnamed | TWC – 12300 | Figure 4.41 |  |
| Water | WBP158 | Unnamed | TWC – 12800 | Figure 4.41 |  |
| Water | WBP342 | Unnamed | TWC – 13500 | Figure 4.42 |  |
| Water | WBP160 | Unnamed | TWC – 13700 | Figure 4.42 |  |
| Water | WBP159 | Unnamed | TWC – 13700 | Figure 4.42 |  |
| Water | WBP299 | Unnamed | TWC – 14800 | Figure 4.42 |  |
| Water | WBP300 | Unnamed | TWC – 14800 | Figure 4.42 |  |
| Water | WBP301 | Unnamed | TWC – 15100 | Figure 4.42 |  |
| Water | WBP116 | Unnamed | TWC – 15700 | Figure 4.42 |  |
| Water | WBP161 | Unnamed | TWC – 15700 | Figure 4.42 |  |
| Water | WBP027 | Unnamed | TWC – 16000 | Figure 4.42 |  |
| Water | WBP343 | Unnamed | TWC – 17300 | Figure 4.42 |  |
| Water | WBP326 | Unnamed | TWC – 17400 | Figure 4.42 |  |
| Water | WBP344 | Unnamed | TWC – 17500 | Figure 4.42 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------------------------|----------------------|-------------|---|
| Water | WBP327 | Unnamed | TWC – 17400 | Figure 4.42 |  |
| Water | WBP162 | Unnamed | TWC – 17600 | Figure 4.43 |  |
| Water | WBP163 | Unnamed | TWC – 17600 | Figure 4.43 |  |
| Water | WBP164 | Unnamed | TWC – 17600 | Figure 4.43 |  |
| Water | WBX098 | Unnamed | TWC – 17600 | Figure 4.43 |  |
| Water | WCX047 | Esker_Beg | TWC – 17700 | Figure 4.43 |  |
| Water | WCX048 | Daingean | TWC – 18900 | Figure 4.43 |  |
| Water | WBX064 | Unnamed | TWC – 19000 | Figure 4.43 |  |
| Water | WBP345 | Unnamed | TWC – 19500 | Figure 4.43 |  |
| Water | WBX066 | Unnamed | TWC – 19600 | Figure 4.43 |  |
| Water | WBP028 | Unnamed | TWC – 20000 | Figure 4.43 |  |
| Water | WCX049 | Esker (Stream) [Offaly] | TWC – 20300 | Figure 4.43 |  |
| Water | WCX050 | Rathcobican | TWC – 20300 | Figure 4.43 |  |
| Water | WBP090 | Unnamed | TWC – 20300 | Figure 4.43 |  |
| Water | WBP165 | Unnamed | TWC – 20700 | Figure 4.44 |  |
| Water | WBP346 | Unnamed | TWC – 21100 | Figure 4.44 |  |
| Water | WCX051 | Unnamed Tributary (ESKER STREAM_020) | TWC – 21100 | Figure 4.44 |  |
| Water | WCX053 | Unnamed Tributary (ESKER STREAM_020) | TWC – 21300 | Figure 4.44 |  |
| Water | WBP166 | Unnamed | TWC – 22100 | Figure 4.44 |  |
| Water | WBP167 | Unnamed | TWC – 22200 | Figure 4.44 |  |
| Water | WBX067 | Unnamed | TWC – 22400 | Figure 4.44 |  |
| Water | WBP347 | Unnamed | TWC – 22400 | Figure 4.44 |  |
| Water | WBP091 | Unnamed | TWC – 22600 | Figure 4.44 |  |
| Water | WCX054 | Leitrim 14 | TWC – 22800 | Figure 4.44 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WBP168 | Unnamed | TWC – 22900 | Figure 4.44 |  |
| Water | WBP169 | Unnamed | TWC – 23100 | Figure 4.44 |  |
| Water | WBP029 | Unnamed | TWC – 23200 | Figure 4.44 |  |
| Water | WBP170 | Unnamed | TWC – 23500 | Figure 4.45 |  |
| Water | WBP294 | Unnamed | TWC – 23600 | Figure 4.45 |  |
| Water | WBP391 | Unnamed | TWC – 23600 | Figure 4.45 |  |
| Water | WBP348 | Unnamed | TWC – 23600 | Figure 4.45 |  |
| Water | WBP173 | Unnamed | TWC – 23700 | Figure 4.45 |  |
| Water | WBP172 | Unnamed | TWC – 23700 | Figure 4.45 |  |
| Water | WBX068 | Unnamed | TWC – 23700 | Figure 4.45 |  |
| Water | WBP174 | Unnamed | TWC – 23700 | Figure 4.45 |  |
| Water | WBX069 | Unnamed | TWC – 23900 | Figure 4.45 |  |
| Water | WBX071 | Unnamed | TWC – 24100 | Figure 4.45 |  |
| Water | WBX072 | Unnamed | TWC – 24300 | Figure 4.45 |  |
| Water | WBX073 | Unnamed | TWC – 24500 | Figure 4.45 |  |
| Water | WBP349 | Unnamed | TWD – 300 | Figure 4.45 |  |
| Water | WBP117 | Unnamed | TWD – 400 | Figure 4.45 |  |
| Water | WBX074 | Unnamed | TWD – 500 | Figure 4.45 |  |
| Water | WBX075 | Unnamed | TWD – 1700 | Figure 4.46 |  |
| Water | WBX076 | Unnamed | TWD – 1800 | Figure 4.46 |  |
| Water | WBX077 | Unnamed | TWD – 2000 | Figure 4.46 |  |
| Water | WBP176 | Unnamed | TWD – 2000 | Figure 4.46 |  |
| Water | WBP177 | Unnamed | TWD – 2100 | Figure 4.46 |  |
| Water | WBP350 | Unnamed | TWD – 2200 | Figure 4.46 |  |
| Water | WBX099 | Unnamed | TWD – 2300 | Figure 4.46 |  |
| Water | WBP178 | Unnamed | TWD – 2400 | Figure 4.46 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WBP179 | Unnamed | TWD – 2900 | Figure 4.46 |  |
| Water | WBP030 | Unnamed | TWD – 3200 | Figure 4.46 |  |
| Water | WBP180 | Unnamed | TWD – 3200 | Figure 4.46 |  |
| Water | WBP031 | Unnamed | TWD – 3300 | Figure 4.46 |  |
| Water | WCX055 | Ballykilleen | TWD – 3500 | Figure 4.46 |  |
| Water | WBP351 | Unnamed | TWD – 4200 | Figure 4.46 |  |
| Water | WBP352 | Unnamed | TWD – 4600 | Figure 4.46 |  |
| Water | WBX100 | Unnamed | TWD – 4600 | Figure 4.46 |  |
| Water | WBP353 | Unnamed | TWD – 4900 | Figure 4.46 |  |
| Water | WBP092 | Unnamed | TWD – 6100 | Figure 4.46 |  |
| Water | WBP305 | Unnamed | TWD – 6300 | Figure 4.46 |  |
| Water | WBP365 | Unnamed | TWD – 6500 | Figure 4.47 |  |
| Water | WBP032 | Unnamed | TWD – 6600 | Figure 4.47 |  |
| Water | WBP303 | Unnamed | TWD – 7500 | Figure 4.47 |  |
| Water | WBP302 | Unnamed | TWD – 7700 | Figure 4.47 |  |
| Water | WBX103 | Unnamed | TWD – 7800 | Figure 4.47 |  |
| Water | WBP354 | Unnamed | TWD – 8100 | Figure 4.47 |  |
| Water | WBP093 | Unnamed | TWD – 8200 | Figure 4.47 |  |
| Water | WBP033 | Unnamed | TWD – 8300 | Figure 4.47 |  |
| Water | WBP306 | Unnamed | TWD – 8500 | Figure 4.47 |  |
| Water | WBP304 | Unnamed | TWD – 8600 | Figure 4.48 |  |
| Water | WBP034 | Unnamed | TWD – 8800 | Figure 4.48 |  |
| Water | WCX058 | Figile | TWD – 9000 | Figure 4.48 |  |
| Water | WBP036 | Unnamed | TWD – 9100 | Figure 4.48 |  |
| Water | WBP035 | Unnamed | TWD – 9300 | Figure 4.48 |  |
| Water | WBP355 | Unnamed | TWD – 9400 | Figure 4.48 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WBX104 | Unnamed | TWD – 10900 | Figure 4.48 |  |
| Water | WBX105 | Unnamed | TWD – 12400 | Figure 4.49 |  |
| Water | WBP356 | Unnamed | TWD – 13100 | Figure 4.49 |  |
| Water | WBP316 | Unnamed | TWD – 14300 | Figure 4.49 |  |
| Water | WCX059 | Abbeylough | TWD – 14400 | Figure 4.49 |  |
| Water | WBP357 | Unnamed | TWD – 14400 | Figure 4.49 |  |
| Water | WBP096 | Unnamed | TWD – 15200 | Figure 4.49 |  |
| Water | WBP253 | Unnamed | TWD – 15300 | Figure 4.49 |  |
| Water | WBP252 | Unnamed | TWD – 15700 | Figure 4.50 |  |
| Water | WBP118 | Unnamed | TWD – 15800 | Figure 4.50 |  |
| Water | WBX079 | Unnamed | TWD – 16000 | Figure 4.50 |  |
| Water | WBP097 | Unnamed | TWD – 16300 | Figure 4.50 |  |
| Water | WBP098 | Unnamed | TWD – 16500 | Figure 4.50 |  |
| Water | WBP099 | Unnamed | TWD – 16600 | Figure 4.50 |  |
| Water | WBP100 | Unnamed | TWD – 16700 | Figure 4.50 |  |
| Water | WBP038 | Unnamed | TWD – 18100 | Figure 4.50 |  |
| Water | WCX060 | Figile | TWD – 18100 | Figure 4.50 |  |
| Water | WBP249 | Unnamed | TWD – 18300 | Figure 4.50 |  |
| Water | WBP359 | Unnamed | TWD – 18300 | Figure 4.50 |  |
| Water | WBP360 | Unnamed | TWD – 20100 | Figure 4.51 |  |
| Water | WBX106 | Unnamed | TWD – 21100 | Figure 4.51 |  |
| Water | WBP039 | Unnamed | TWD – 21500 | Figure 4.51 |  |
| Water | WBP292 | Unnamed | TWD – 21500 | Figure 4.51 |  |
| Water | WBP296 | Unnamed | TWD – 22100 | Figure 4.51 |  |
| Water | WBP297 | Unnamed | TWD – 22100 | Figure 4.51 |  |
| Water | WBP248 | Unnamed | TWD – 22300 | Figure 4.51 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|-----------------------|----------------------|-------------|---|
| Water | WBP247 | Unnamed | TWD – 22900 | Figure 4.52 |  |
| Water | WBP317 | Unnamed | TWD – 23300 | Figure 4.52 |  |
| Water | WBP246 | Unnamed | TWD – 24000 | Figure 4.52 |  |
| Water | WCX061 | Mulgeeth | TWD – 24300 | Figure 4.52 |  |
| Water | WBP361 | Unnamed | TWD – 24600 | Figure 4.52 |  |
| Water | WBP392 | Unnamed | TWD – 24700 | Figure 4.52 |  |
| Water | WBP040 | Unnamed | TWD – 24600 | Figure 4.52 |  |
| Water | WBX080 | Unnamed | TWD – 26000 | Figure 4.53 |  |
| Water | WBP362 | Unnamed | TWD – 26200 | Figure 4.53 |  |
| Water | WBP041 | Unnamed | TWD – 26200 | Figure 4.53 |  |
| Water | WCX062 | Mulgeeth | TWD – 26400 | Figure 4.53 |  |
| Water | WBP245 | Unnamed | TWD – 26500 | Figure 4.53 |  |
| Water | WBP121 | Unnamed | TWD – 26600 | Figure 4.53 |  |
| Water | WBP042 | Unnamed | TWD – 26900 | Figure 4.53 |  |
| Water | WBP244 | Unnamed | TWD – 27300 | Figure 4.53 |  |
| Water | WBP043 | Unnamed | TWD – 27800 | Figure 4.53 |  |
| Water | WCX063 | Derryvarroge | TWD – 28100 | Figure 4.53 |  |
| Water | WCX064 | Derrycrib | TWD – 28500 | Figure 4.53 |  |
| Water | WBP182 | Unnamed | TWD – 28600 | Figure 4.53 |  |
| Water | WBP044 | Unnamed | TWD – 28800 | Figure 4.53 |  |
| Water | WBX081 | Unnamed | TWD – 28800 | Figure 4.53 |  |
| Water | WBP280 | Unnamed | TWD – 29000 | Figure 4.53 |  |
| Water | WCX065 | Blackwater [Longwood] | TWD – 29200 | Figure 4.54 |  |
| Water | WBP045 | Unnamed | TWD – 29400 | Figure 4.54 |  |
| Water | WBP293 | Unnamed | TWD – 29300 | Figure 4.54 |  |
| Water | WBP183 | Unnamed | TWD – 29800 | Figure 4.54 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WBP184 | Unnamed | TWD – 30300 | Figure 4.54 |  |
| Water | WBP285 | Unnamed | TWD – 30600 | Figure 4.54 |  |
| Water | WBP271 | Unnamed | TWD – 30700 | Figure 4.54 |  |
| Water | WBP185 | Unnamed | TWD – 30900 | Figure 4.54 |  |
| Water | WBX082 | Unnamed | TWD – 31200 | Figure 4.54 |  |
| Water | WBP279 | Unnamed | TWD – 31600 | Figure 4.54 |  |
| Water | WBX083 | Unnamed | TWD – 31700 | Figure 4.54 |  |
| Water | WBP046 | Unnamed | TWD – 31900 | Figure 4.54 |  |
| Water | WBP102 | Unnamed | TWD – 32300 | Figure 4.55 |  |
| Water | WBP047 | Unnamed | TWD – 32400 | Figure 4.55 |  |
| Water | WBP048 | Unnamed | TWD – 32500 | Figure 4.55 |  |
| Water | WCX066 | Aghafullim | TWD – 32800 | Figure 4.55 |  |
| Water | WBP186 | Unnamed | TWD – 33000 | Figure 4.55 |  |
| Water | WBP187 | Unnamed | TWD – 33100 | Figure 4.55 |  |
| Water | WBP188 | Unnamed | TWD – 33400 | Figure 4.55 |  |
| Water | WBP189 | Unnamed | TWD – 33900 | Figure 4.55 |  |
| Water | WBP190 | Unnamed | TWD – 34000 | Figure 4.55 |  |
| Water | WBP191 | Unnamed | TWD – 34100 | Figure 4.55 |  |
| Water | WBP192 | Unnamed | TWD - 34200 | Figure 4.55 |  |
| Water | WBP193 | Unnamed | TWE – 200 | Figure 4.55 |  |
| Water | WBP050 | Unnamed | TWE – 300 | Figure 4.55 |  |
| Water | WBP051 | Unnamed | TWE – 500 | Figure 4.55 |  |
| Water | WCX067 | Lyreen_010 | TWE – 700 | Figure 4.55 |  |
| Water | WBP194 | Unnamed | TWE – 900 | Figure 4.55 |  |
| Water | WBP195 | Unnamed | TWE – 1400 | Figure 4.56 |  |
| Water | WCX068 | Lyreen_010 | TWE – 1800 | Figure 4.56 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Water | WCX069 | Clonshanbo 09 | TWE – 2500 | Figure 4.56 |  |
| Water | WBP196 | Unnamed | TWE – 3100 | Figure 4.56 |  |
| Water | WBP197 | Unnamed | TWE – 3100 | Figure 4.56 |  |
| Water | WCX070 | Lyreen 09 | TWE – 3600 | Figure 4.56 |  |
| Water | WBP363 | Unnamed | TWE – 3900 | Figure 4.56 |  |
| Water | WBP364 | Unnamed | TWE – 3900 | Figure 4.56 |  |
| Water | WBX084 | Unnamed | TWE – 4400 | Figure 4.56 |  |
| Water | WBP405 | Unnamed | TWE – 4650 | Figure 4.56 |  |
| Water | WBP122 | Unnamed | TWE – 4800 | Figure 4.56 |  |
| Water | WBP198 | Unnamed | TWE – 5000 | Figure 4.56 |  |
| Water | WBX085 | Unnamed | TWE – 5200 | Figure 4.56 |  |
| Water | WBP199 | Unnamed | TWE – 5200 | Figure 4.56 |  |
| Water | WBP200 | Unnamed | TWE – 5500 | Figure 4.57 |  |
| Water | WBP103 | Unnamed | TWE – 5600 | Figure 4.57 |  |
| Water | WBP201 | Unnamed | TWE – 5800 | Figure 4.57 |  |
| Water | WBP052 | Unnamed | TWE – 5900 | Figure 4.57 |  |
| Water | WBP310 | Unnamed | TWE – 5800 | Figure 4.57 |  |
| Water | WBP202 | Unnamed | TWE – 6000 | Figure 4.57 |  |
| Water | WBX086 | Unnamed | TWE – 7300 | Figure 4.57 |  |
| Water | WBP203 | Unnamed | TWE – 7500 | Figure 4.57 |  |
| Water | WBP205 | Unnamed | TWE – 7800 | Figure 4.57 |  |
| Water | WBP119 | Unnamed | TWE – 8200 | Figure 4.57 |  |
| Water | WCX071 | Posseckstown 10 | TWE – 9000 | Figure 4.58 |  |
| Water | WBP207 | Unnamed | TWE – 9100 | Figure 4.58 |  |
| Water | WCX072 | Ardress Lower | TWE – 9100 | Figure 4.58 |  |
| Water | WBP268 | Unnamed | TWE – 9300 | Figure 4.58 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------------------|----------------------|-------------|---|
| Water | WCX075 | Unnamed | TWE – 10100 | Figure 4.58 |  |
| Water | WBX087 | Unnamed | TWE – 11100 | Figure 4.58 |  |
| Water | WCX074 | Unnamed Tributary (Reeves_010) | TWE – 11400 | Figure 4.58 |  |
| Water | WBP055 | Unnamed | TWE – 11600 | Figure 4.58 |  |
| Water | WBP056 | Unnamed | TWE – 11900 | Figure 4.58 |  |
| Water | WBP208 | Unnamed | TWE – 12000 | Figure 4.58 |  |
| Water | WBP104 | Unnamed | TWE – 12100 | Figure 4.58 |  |
| Water | WBP057 | Unnamed | TWE – 12700 | Figure 4.59 |  |
| Water | WBP209 | Unnamed | TWE – 12700 | Figure 4.59 |  |
| Water | WBP120 | Unnamed | TWE – 14000 | Figure 4.59 |  |
| Water | WBP211 | Unnamed | TWE – 14100 | Figure 4.59 |  |
| Water | WBP213 | Unnamed | TWE – 14800 | Figure 4.59 |  |
| Water | WBP214 | Unnamed | TWE – 14900 | Figure 4.59 |  |
| Water | WBP215 | Unnamed | TWE – 14900 | Figure 4.59 |  |
| Water | WBP367 | Unnamed | TWE – 14900 | Figure 4.59 |  |
| Water | WBP368 | Unnamed | TWE – 15100 | Figure 4.59 |  |
| Water | WBP217 | Unnamed | TWE – 16000 | Figure 4.60 |  |
| Water | WBP218 | Unnamed | TWE – 16200 | Figure 4.60 |  |
| Water | WBP307 | Unnamed | TWE – 16200 | Figure 4.60 |  |
| Water | WBP255 | Unnamed | TWE – 16400 | Figure 4.60 |  |
| Water | WBP219 | Unnamed | TWE - 16700 | Figure 4.60 |  |

2.2 Watercourse Crossings – Trenchless Technology

Table 2.2: Watercourse Crossings – Trenchless Technology

| Crossing Type | Crossing ID | Crossing Reference | Approximate Starting Chainage | Project Component Overview Figure | Symbol |
|-----------------|-------------------------|---|-------------------------------|-----------------------------------|---|
| Water | WBX003 | Unnamed Watercourse | RW – 1000 | Figure 4.7 |  |
| Water | WBX008, | Unnamed Watercourse | TW – 3600 | Figure 4.8 |  |
| Water | WBX009 | Unnamed Watercourse | TW - 3900 | Figure 4.8 |  |
| Water and Road | WBP227, RDX007 | M7 – Kilnacrana, Unnamed Watercourse | TW-5500 | Figure 4.9 |  |
| Power and Water | OHX002, WBP231 | 400 kV Network, Unnamed Watercourse | TW-10500 | Figure 4.10 |  |
| Road & Water | RDX013, WBP126 & WBP234 | R445, Unnamed Watercourses | TW – 12700 | Figure 4.11 |  |
| Water | WCX016 | Nenagh_070 | TW – 19500 | Figure 4.13 |  |
| Water | WCX026 | Little Brosna | TWA – 13000 | Figure 4.22 |  |
| Water | WCX031 | Breaghmore | TWA – 26000 | Figure 4.26 |  |
| Water & Road | WCX032,WBP257, WBP210, | Camcor, and Unnamed Watercourses | TWA – 27600 | Figure 4.27 |  |
| Water | WBP258 | Unnamed Watercourse | TWA - 27700 | Figure 4.27 |  |
| Water | WBP259 & WBX036 | Unnamed Watercourses | TWA - 27800 | Figure 4.27 |  |
| Water & Road | WBX035 & RDX053 | Unnamed Watercourse and R440 | TWA - 27900 | Figure 4.27 |  |
| Water | WCX036 | Silver | TWB – 12600 | Figure 4.33 |  |
| Water | WCX039 | Clodiagh (Tullamore) | TWB – 24900 | Figure 4.37 |  |
| Road & Water | RDX071, WBX096 | N80 and Unnamed Watercourse | TWC – 100 | Figure 4.38 |  |
| Rail & Water | RYX005, WBP147 | Railway – Galway Service, Unnamed Watercourse | TWC – 4800 | Figure 4.39 |  |
| Water | WCX056 | Figile | TWD – 4100 | Figure 4.46 |  |
| Water | WCX057 | Figile, | TWD – 6400 | Figure 4.47 |  |
| Water | WBP365 | Unnamed Watercourse | TWD – 6500 | Figure 4.47 |  |
| Water | WBP094 | Unnamed Watercourse | TWD – 15000 | Figure 4.49 |  |
| Water | WBX078, WBP095 | Grand Canal, Unnamed Watercourse | TWD - 15100 | Figure 4.49 |  |
| Water | WBP311, WBP366 | Unnamed Watercourse | TWE-6300 | Figure 4.57 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Starting Chainage | Project Component Overview Figure | Symbol |
|---|--------------------------------|--|-------------------------------|-----------------------------------|---|
| Water, Road & Power | WCX076, RDX108 and OHX018 | Unnamed Watercourse, Ardross Road and 110 kV Network | TWE – 9600 | Figure 4.58 |  |
| Water | WCX073 | Liffey River | TWE - 9800 | Figure 4.58 |  |
| Water | WBX088, WBP212 | Grand Canal, Unnamed Watercourse | TWE - 14200 | Figure 4.59 |  |
| Road & Water | RDX113, RDX114, WBP216, WBP254 | Unnamed Local Road L6032, Unnamed Watercourses | TWE - 15300 | Figure 4.59 |  |
| Directional Drilling for Power Connections | | | | | |
| Water | WCX001 | Kilmastulla | Power connection along R445 | Figure 4.7 |  |
| Water | WCX077 | Kilmastulla | Power connection along R494 | Figure 4.7 |  |

3. Road Crossings

3.1 Road Crossings – Open Cut

Table 3.1: Road Crossings – Open Trench Excavation

| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Road | RDX002 | L6030 | TW – 600 | Figure 4.8 |  |
| Road | RDX004 | L6034 | TW – 2300 | Figure 4.8 |  |
| Road | RDX005 | L6031 | TW – 3300 | Figure 4.8 |  |
| Road | RDX006 | Unnamed Local Road | TW – 4100 | Figure 4.9 |  |
| Road | RDX008 | R499 | TW – 6000 | Figure 4.9 |  |
| Road | RDX009 | L2133 | TW – 6600 | Figure 4.9 |  |
| Road | RDX010 | L94452 | TW – 8400 | Figure 4.10 |  |
| Road | RDX011 | L94454 | TW – 9400 | Figure 4.10 |  |
| Road | RDX012 | L2143 | TW – 11600 | Figure 4.11 |  |
| Road | RDX129 | Unnamed Local Road | TW - 12500 | Figure 4.11 |  |
| Road | RDX014 | L6060 | TW – 12900 | Figure 4.11 |  |
| Road | RDX016 | L5145 | TW – 14100 | Figure 4.11 |  |
| Road | RDX017 | L6059 | TW – 14600 | Figure 4.12 |  |
| Road | RDX018 | L21402 | TW – 16300 | Figure 4.12 |  |
| Road | RDX019 | R494 | TW – 16700 | Figure 4.12 |  |
| Road | RDX020 | R495 | TW-18500 | Figure 4.13 |  |
| Road | RDX021 | Unnamed Local Road | TW-19400 | Figure 4.13 |  |
| Road | RDX022 | L5129 | TW-20700 | Figure 4.13 |  |
| Road | RDX023 | R493 | TW-21500 | Figure 4.14 |  |
| Road | RDX024 | L1207 | TW-22400 | Figure 4.14 |  |
| Road | RDX122 | L12091 | TW-24000 | Figure 4.14 |  |
| Road | RDX025 | L1104 | TW-26300 | Figure 4.15 |  |
| Road | RDX116 | L1105 | TW-26600 | Figure 4.15 |  |
| Road | RDX027 | L1061 | TW-30100 | Figure 4.16 |  |
| Road | RDX028 | L1061 | TW-30200 | Figure 4.16 |  |
| Road | RDX029 | L1061 | TW-31400 | Figure 4.17 |  |
| Road | RDX030 | L5082 | TW-33500 | Figure 4.17 |  |
| Road | RDX031 | R490 | TW-34700 | Figure 4.18 |  |
| Road | RDX032 | L1064 | TW-35600 | Figure 4.18 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Road | RDX033 | L5020 | TWA-400 | Figure 4.18 |  |
| Road | RDX034 | L94911 | TWA-1300 | Figure 4.19 |  |
| Road | RDX035 | R491 | TWA-2000 | Figure 4.19 |  |
| Road | RDX036 | L5019 | TWA-2500 | Figure 4.19 |  |
| Road | RDX037 | R491 | TWA-5000 | Figure 4.20 |  |
| Road | RDX038 | L8032 | TWA-5700 | Figure 4.20 |  |
| Road | RDX039 | L4022 | TWA-6100 | Figure 4.20 |  |
| Road | RDX040 | L5028 | TWA-8100 | Figure 4.21 |  |
| Road | RDX041 | L8028 | TWA-10700 | Figure 4.21 |  |
| Road | RDX042 | L8029 | TWA-10900 | Figure 4.21 |  |
| Road | RDX043 | R492 | TWA-11500 | Figure 4.21 |  |
| Road | RDX045 | L4006 | TWA-15300 | Figure 4.22 |  |
| Road | RDX123 | Unnamed Local Road | TWA-16400 | Figure 4.23 |  |
| Road | RDX124 | Unnamed Local Road | TWA-17900 | Figure 4.23 |  |
| Road | RDX046 | L8018 | TWA-19200 | Figure 4.24 |  |
| Road | RDX047 | L4008 | TWA-20900 | Figure 4.24 |  |
| Road | RDX048 | L4007 | TWA-21700 | Figure 4.25 |  |
| Road | RDX049 | L4005 | TWA-22000 | Figure 4.25 |  |
| Road | RDX050 | L4004 | TWA-23500 | Figure 4.25 |  |
| Road | RDX051 | L40042 | TWA-24000 | Figure 4.25 |  |
| Road | RDX052 | L8014 | TWA-25100 | Figure 4.26 |  |
| Road | RDX054 | L7003 | TWB-1200 | Figure 4.27 |  |
| Road | RDX055 | L6041 | TWB-4700 | Figure 4.31 |  |
| Road | RDX056 | L2027 | TWB-7400 | Figure 4.32 |  |
| Road | RDX057 | L6038 | TWB-7800 | Figure 4.32 |  |
| Road | RDX058 | L6037 | TWB-8300 | Figure 4.32 |  |
| Road | RDX059 | L6037 | TWB-8900 | Figure 4.32 |  |
| Road | RDX060 | L6034 | TWB-9300 | Figure 4.32 |  |
| Road | RDX061 | L60331 | TWB-11300 | Figure 4.33 |  |
| Road | RDX062 | L6032 | TWB-11900 | Figure 4.33 |  |
| Road | RDX063 | L60251 | TWB-13300 | Figure 4.33 |  |
| Road | RDX064 | L60261 | TWB-15100 | Figure 4.34 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Road | RDX065 | L6013 | TWB-15600 | Figure 4.34 |  |
| Road | RDX066 | L6052 | TWB-17400 | Figure 4.35 |  |
| Road | RDX067 | Unnamed Local Road | TWB-18100 | Figure 4.35 |  |
| Road | RDX068 | R421 | TWB-18700 | Figure 4.35 |  |
| Road | RDX069 | L2004 | TWB-24700 | Figure 4.37 |  |
| Road | RDX070 | Unnamed Local Road | TWB-25200 | Figure 4.37 |  |
| Road | RDX072 | L5035 | TWC-300 | Figure 4.38 |  |
| Road | RDX073 | L20011 | TWC-2000 | Figure 4.38 |  |
| Road | RDX074 | L6002 | TWC-4400 | Figure 4.39 |  |
| Road | RDX075 | L5036 | TWC-6700 | Figure 4.40 |  |
| Road | RDX076 | R420 | TWC-7900 | Figure 4.40 |  |
| Road | RDX130 | Unnamed Local Road | TWC-7900 | Figure 4.40 |  |
| Road | RDX078 | L5034 | TWC-9500 | Figure 4.40 |  |
| Road | RDX079 | L5034 | TWC-10500 | Figure 4.41 |  |
| Road | RDX080 | L5034 | TWC-11500 | Figure 4.41 |  |
| Road | RDX081 | L1014 | TWC-13400 | Figure 4.41 |  |
| Road | RDX082 | Unnamed Local Road | TWC-17600 | Figure 4.43 |  |
| Road | RDX083 | R402 | TWC-19200 | Figure 4.43 |  |
| Road | RDX084 | R400 | TWC-19800 | Figure 4.43 |  |
| Road | RDX085 | R441 | TWC-24700 | Figure 4.45 |  |
| Road | RDX086 | L5006 | TWD-3200 | Figure 4.46 |  |
| Road | RDX087 | R401 | TWD-3600 | Figure 4.46 |  |
| Road | RDX088 | L1001 | TWD-8100 | Figure 4.47 |  |
| Road | RDX090 | R403 | TWD-16200 | Figure 4.50 |  |
| Road | RDX091 | L50222 | TWD-18300 | Figure 4.50 |  |
| Road | RDX092 | L5025 | TWD-21600 | Figure 4.51 |  |
| Road | RDX125 | Unnamed Local Road | TWD-24000 | Figure 4.52 |  |
| Road | RDX093 | L5013 | TWD-24600 | Figure 4.52 |  |
| Road | RDX127 | Unnamed Local Road | TWD-26200 | Figure 4.53 |  |
| Road | RDX094 | L1017 | TWD-26500 | Figure 4.53 |  |
| Road | RDX095 | Unnamed Local Road | TWD-27300 | Figure 4.53 |  |
| Road | RDX126 | L5077 | TWD-27800 | Figure 4.53 |  |

| Crossing Type | Crossing ID | Crossing Reference | Approximate Chainage | Figure | Symbol |
|---------------|-------------|--------------------|----------------------|-------------|---|
| Road | RDX096 | L1017 | TWD-28800 | Figure 4.53 |  |
| Road | RDX097 | L1008 | TWD-29600 | Figure 4.54 |  |
| Road | RDX098 | L5033 | TWD-31600 | Figure 4.54 |  |
| Road | RDX099 | L5034 | TWD-33000 | Figure 4.55 |  |
| Road | RDX100 | R407 | TWE-100 | Figure 4.55 |  |
| Road | RDX101 | L1010 | TWE-2500 | Figure 4.56 |  |
| Road | RDX102 | L5039 | TWE-3100 | Figure 4.56 |  |
| Road | RDX103 | R408 | TWE-3900 | Figure 4.56 |  |
| Road | RDX104 | L5044 | TWE-5300 | Figure 4.56 |  |
| Road | RDX105 | L5046 | TWE-6300 | Figure 4.57 |  |
| Road | RDX106 | R406 | TWE-7800 | Figure 4.57 |  |
| Road | RDX109 | L1016 | TWE-12100 | Figure 4.58 |  |
| Road | RDX110 | L5064 | TWE-12700 | Figure 4.59 |  |
| Road | RDX112 | R405 | TWE-14900 | Figure 4.59 |  |
| Road | RDX115 | L6032 | TWE-17000 | Figure 4.60 |  |

3.2 Road Crossings – Trenchless Technology

Table 3.2: Road Crossings – Trenchless Technology

| Crossing Type | Crossing ID | Crossing Reference | Approximate Starting Chainage | Figure | Symbol |
|---------------|-------------------------|-----------------------------------|-------------------------------|-------------|---|
| Road | RDX001 | R494 | RW – 800 | Figure 4.7 |  |
| Road | RDX003 | R445 – Boher | TW – 1900 | Figure 4.8 |  |
| Road | RDX007 | M7 – Kilnacranra | TW – 5500 | Figure 4.9 |  |
| Road & Water | RDX013, WBP126 & WBP234 | R445, Unnamed Watercourses | TW – 12700 | Figure 4.11 |  |
| Road | RDX015 | M7 – Carrigatogher | TW – 13100 | Figure 4.11 |  |
| Road | RDX128 | Unnamed Local Road | TW-28900 | Figure 4.16 |  |
| Road | RDX026 | N52 – Ardcroney, County Tipperary | TW – 28900 | Figure 4.16 |  |
| Road | RDX044 | N62 | TWA – 14200 | Figure 4.22 |  |
| Water & Road | WCX032 & RDX053 | Camcor and R440 | TWA – 27900 | Figure 4.27 |  |
| Road & Water | RDX071, WBX096 | N80 and Unnamed Watercourse | TWC – 100 | Figure 4.38 |  |
| Road | RDX077 | L1020 | TWC – 9000 | Figure 4.40 |  |
| Water & Road | WBX078 and RDX111 | Grand Canal Way, Grand Canal | TWD - 15100 | Figure 4.49 |  |

| Crossing Type | Crossing ID | Crossing Reference | Approximate Starting Chainage | Figure | Symbol |
|---|--------------------------------|--|---|-------------|---|
| Road | RDX107 | R403 | TWE – 8500 | Figure 4.57 |  |
| Water, Road & Power | WCX076, RDX108 and OHX018 | Unnamed Watercourse, Ardrass Road and 110 kV Network | TWE – 9600 | Figure 4.58 |  |
| Road & Water | RDX113, RDX114, WBP216, WBP254 | Unnamed Local Road and L6032, Unnamed Watercourses | TWE - 15400 | Figure 4.59 |  |
| Directional Drilling for Power Connections | | | | | |
| Road | RDX117 | Birdhill Roundabout (R445) | Power connection off the roundabout on the R445 | Figure 4.6 |  |
| Road | RDX118 | Birdhill Roundabout | Power connection at roundabout | Figure 4.6 |  |
| Road | RDX119 | Birdhill Roundabout (R494) | Power connection off the roundabout on the R494 | Figure 4.6 |  |
| Road | RDX120 | R494 | Power connection at interface of R494 and access road to RWI&PS | Figure 4.7 |  |
| Road | RDX121 | R445 | Power connection at interface of R445 and access road to WTP | Figure 4.7 |  |
| Road | RDX134 | R440 | BPS power connection | Figure 4.30 |  |

3.3 Significant Road Closures

4. Full road closures for construction which are anticipated to require to take longer than 48 hours have been identified at several locations and are listed in Table 3.3. These road closures are required for the following reasons:

- Construction of ducts for underground cabling, for the provision of power to the BPS
- A Line Valve at TWA – 10660.

Table 3.3: Significant Road Closures

| Reason for Road Closure | Road Number | Location | Approximate Length of Road Closure (m) | Approximate Duration of Closure (days) | Approximate Duration of Closure (weeks)* |
|--------------------------------|--------------------|------------------------------|--|--|--|
| Power Connection to the BPS | Unnamed Local Road | Castletown, Co. Offaly | 1,250 | 14 | 3 |
| | Unnamed Local Road | Fortel, Co. Offaly | 3,700 | 40 | 8 |
| | L7004 | Ballygowan, Co. Offaly | 830 | 10 | 2 |
| | Unnamed Local Road | Rathgibbon North, Co. Offaly | 1,900 | 19 | 4 |
| | L3003 | Coagh Upper, Co. Offaly | 1,350 | 14 | 3 |
| Power Connection to Line Valve | Unnamed Local Road | Tonagh, Co. Offaly | 300 | 5 | 1 |

***5-day work week assumed**

4. Rail Crossings

4.1 Rail Crossings – Trenchless Technology

Table 4.1: Rail Crossings – Trenchless Technology

| Crossing Type | Crossing ID | Crossing Reference | Approximate Starting Chainage | Figure | Symbol |
|---|----------------|---|-------------------------------|-------------|---|
| Rail & Water | RYX005, WBP147 | Railway – Galway Service, Unnamed Watercourse | TWC – 4800 | Figure 4.39 |  |
| Rail | RYX006 | Dublin – Newbridge railway line | TWE – 12400 | Figure 4.58 |  |
| Directional Drilling for Power Connections | | | | | |
| Rail | RYX003 | Railway – Limerick via Nenagh Service | Power connection along R494 | Figure 4.6 |  |
| Rail | RYX004 | Railway – Limerick via Nenagh Service | Power connection along R445 | Figure 4.7 |  |

5. Canal Crossings

5.1 Canal Crossings – Trenchless Technology

Table 5.1: Canal Crossings – Trenchless Crossing

| Number | Crossing Type | Crossing ID | Crossing Reference | Approximate Starting Chainage | Figure Reference | Symbol |
|--------|---------------|-------------|--------------------|-------------------------------|------------------|---|
| 1 | Watercourse | WBX078 | Grand Canal | TWD – 15000 | Figure 18.48 |  |
| 2 | Watercourse | WBX088 | Grand Canal | TWE – 14100 | Figure 18.58 |  |

6. Gas Transmission Crossings

6.1 Gas Transmission Crossings – Trenchless Technology

Table 6.1: Gas Transmission Crossings – Trenchless Crossing

| Number | Crossing ID | Crossing Reference | Approximate Starting Chainage | Figure Reference | Symbol |
|---|-------------|--|-------------------------------|------------------|---|
| 1 | GCN007 | Pipeline crossing – R494 Regional Road, County Tipperary | RW – 800 | Figure 4.7 |  |
| 2 | GCN008 | Pipeline crossing – R445 Regional Road, County Tipperary | TW – 1900 | Figure 4.8 |  |
| 3 | GCN009 | Pipeline crossing – R445 Regional Road, County Tipperary | TW – 12700 | Figure 4.11 |  |
| 4 | GCN010 | Pipeline crossing – R403 Regional Road, County Kildare | TWE – 8500 | Figure 4.57 |  |
| Directional Drilling for Power Connections | | | | | |
| 3 | GCN001 | Birdhill Roundabout (R445) | WTP power connection | Figure 4.6 |  |
| 4 | GCN002 | Birdhill Roundabout (R494) | RWI&PS power connection | Figure 4.6 |  |
| 8 | GCN006 | R445 | WTP power connection | Figure 4.7 |  |
| 9 | GCN012 | R494 | RWI&PS power connection | Figure 4.7 |  |

7. Power Crossings

7.1 Power Crossings – Open Cut

5. Where practical, the appointed Contractor may propose to undertake a crossing of an overhead power line by open excavation instead of trenchless construction for crossings of 38kV to 220kV.
6. This would require the appointed Contractor to maintain the minimum requirements for the Hazard Zone, and only use plant with short jibs. Where this is not feasible, it may be possible for the appointed Contractor to obtain an outage, which is a temporary interruption to transmission/supply, to allow the works to be carried out safely. This would only be undertaken if supply could be maintained via an alternative means, as set out in Chapter 18 (Material Assets). This would depend on power network connectivity in the area. Power outages, if available, would be arranged by the appointed Contractor prior to works commencement. Barriers, bunting and height-restricting goal posts would still be in place.
7. Therefore, OHX001, OHX003 - OHX022 could be undertaken by open cut or trenchless construction techniques.
8. All crossings of less than 38kV would be via open cutting. These are listed in Chapter 18 (Material Assets).

7.2 Power Crossings – Trenchless Technology

9. If a trenchless crossing of an overhead power line is required, it would be limited to 38kV and above (Table 7.1).

Table 7.1: Power Crossings – Trenchless Technology

| Crossing Type | Crossing ID | Crossing Reference | Approximate Starting Chainage | Figure | Symbol |
|---------------|-------------|--------------------|-------------------------------|-------------|---|
| Power | OHX001 | 220 kV Network | TW-7400 | Figure 4.10 |  |
| Power | OHX002 | 400 kV Network | TW-10500 | Figure 4.10 |  |
| Power | OHX003 | 220 kV Network | TW-24800 | Figure 4.15 |  |
| Power | OHX004 | 220 kV Network | TW-26200 | Figure 4.15 |  |
| Power | OHX005 | 38 kV Network | TWA-21700 | Figure 4.25 |  |
| Power | OHX006 | 110 kV Network | TWB-1700 | Figure 4.27 |  |
| Power | OHX007 | 110 kV Network | TWB-11700 | Figure 4.33 |  |
| Power | OHX008 | 38 kV Network | TWB-27800 | Figure 4.38 |  |
| Power | OHX024 | 110kV Network | TWC-11800 | Figure 4.41 |  |
| Power | OHX009 | 38 kV Network | TWD-15500 | Figure 4.49 |  |
| Power | OHX010 | 38 kV Network | TWD-15700 | Figure 4.50 |  |
| Power | OHX011 | 110 kV Network | TWD-22300 | Figure 4.51 |  |
| Power | OHX012 | 110 kV Network | TWD-25800 | Figure 4.52 |  |
| Power | OHX013 | 110 kV Network | TWD-29500 | Figure 4.54 |  |
| Power | OHX014 | 110 kV Network | TWE-2800 | Figure 4.56 |  |

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| Crossing Type | Crossing ID | Crossing Reference | Approximate Starting Chainage | Figure | Symbol |
|---------------|-------------|---|-------------------------------|-------------|---|
| Power | OHX015 | 220 kV Network | TWE-2800 | Figure 4.56 |  |
| Power | OHX016 | 220 kV Network | TWE-5200 | Figure 4.56 |  |
| Power | OHX017 | 220 kV Network | TWE-6300 | Figure 4.57 |  |
| Power | OHX018 | Unnamed Watercourse, Liffey River, Ardrass Road and 110 kV Network | TWE – 9700 | Figure 4.58 |  |
| Power | OHX019 | 38 kV Network | TWE – 10200 | Figure 4.58 |  |

8. Additional Locations

8.1 Additional Locations – Trenchless Technology

10. The following locations have also been identified as areas where construction via trenchless technology would be required as the existing terrain would not permit an open cut construction method and to account for existing land use.

Table 8.1: Additional Locations – Trenchless Technology

| Crossing Type | Crossing ID | Crossing Reference | Approximate Starting Chainage | Figure | Shading |
|----------------|-------------|--------------------|-------------------------------|--------------------|---|
| Terrain | N/A | Steep side slope | TW – 3600 | Figure 4.8 and 4.9 |  |
| Terrain | N/A | BPT | TWA – 0 | Figure 4.18 |  |
| Infrastructure | N/A | Infrastructure | TWE – 15400 | Figure 4.59 |  |