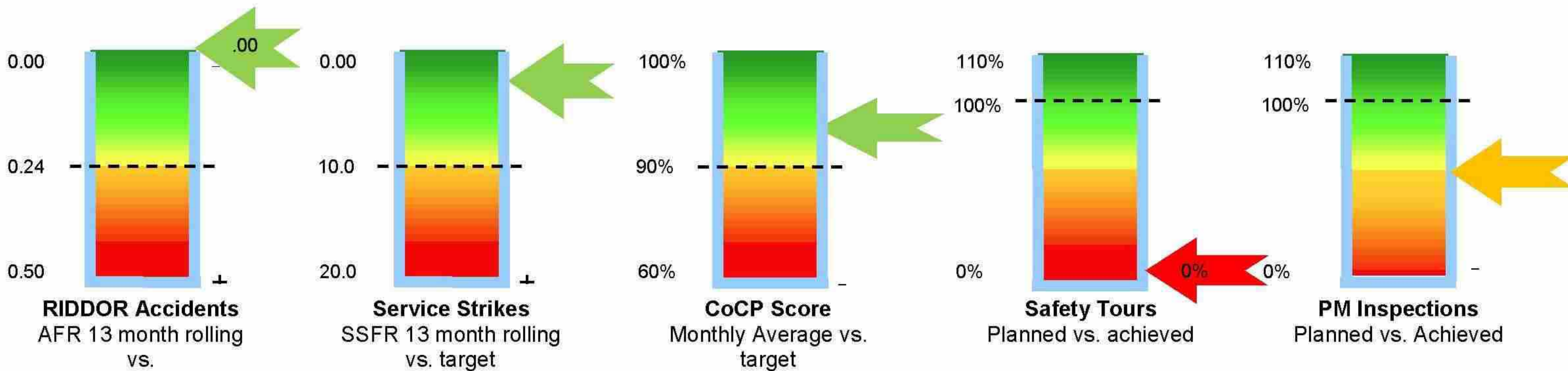


HS&E ACCIDENTS and INCIDENTS SUMMARY

| Total | Total Hours | >3 day | Major | Injury | NM/Unsafe Condition | Service Damage | ENV | RTA | MOP | AFR | SFR |
|-------------------|-------------|--------|-------|--------|---------------------|----------------|-----|-----|-----|------|-------|
| Period | 128,148 | 0 | 0 | 1 | 8 | 3 | 0 | 0 | 2 | 0.00 | 2.34 |
| 13 period rolling | 1,054,193 | 0 | 0 | 13 | 78 | 41 | 6 | 0 | 13 | 0.00 | 3.89 |
| INFRACO | | | | | | | | | | | |
| Period | 87,680 | 0 | 0 | 1 | 4 | 2 | 0 | 0 | 1 | 0.00 | 2.28 |
| 13 period rolling | 799,989 | 0 | 0 | 13 | 53 | 23 | 6 | 0 | 10 | 0.00 | 2.88 |
| OTHER TRAM | | | | | | | | | | | |
| Period | 27,344 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 1 | 0.00 | 3.66 |
| 13 period rolling | 102,080 | 0 | 0 | 0 | 24 | 18 | 0 | 0 | 3 | 0.00 | 17.63 |



EXECUTIVE SUMMARY

- There were 2 serious / significant incidents involving member of public incidents since the issue of the last DtTS Report . Both involved a persons tripping or slipping at temporary walkways around construction sites.
- There were 3 other serious / significant incidents. 2 involved LV service strikes and 1 involved a breach of DOMS documentation procedures on Scottish Water works.
- There were 17 other incidents (1 member of public incident, 7 service damages, 2 minor injuries, 10 near miss/unsafe conditions) See Appendix A for details.
- The rolling 13 Period AFR remains at 0.00, better than the benchmark KPI of 0.23 for the project.
- CoCP compliance was recorded at 93% during Period 1
- 57% of planned PM joint inspections have been carried out during Period 1.
- 0% of planned safety tours were carried out during Period 1.

Project Report – Period 1

HS&E INSPECTIONS SUMMARY (a summary of significant inspection findings can be found in appendix B)

| Project Running Totals | HS&E Tours (Directors) | HS&E PM Inspection |
|------------------------|------------------------|--------------------|
| Number planned | 1 | 7 |
| Number achieved | 0 | 4 |

HSQ&E KEY ACHIEVEMENTS

- The rolling 13 Period AFR remains at 0.00, better than the benchmark KPI of 0.23 for the project.

Key Issues – Points to Note

- The 'Think before you act' session has been agreed with CEC and planned for 10th May 2012. It is anticipated that all the senior managers from the Edinburgh tram project will participate in this initiative.
- The Turner & Townsend Project Delivery Safety Meeting was held on the 25th April, a renewed emphasis was placed on the joint monitoring being undertaken on the project, to strengthen the project safety culture.

ENVIRONMENTAL SUMMARY

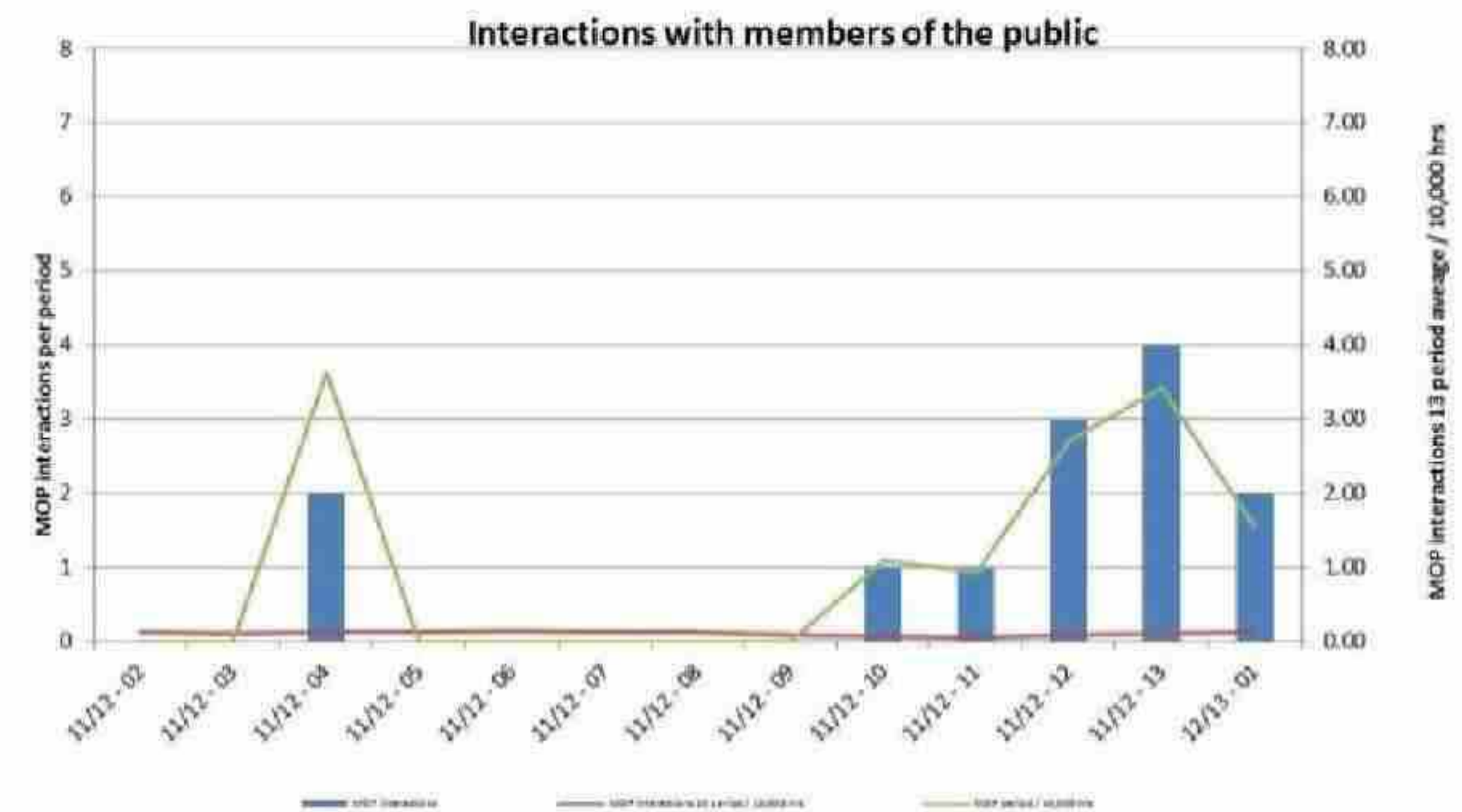
List any significant environmental events, initiatives, breaches etc

- BBS currently having on-going discussions with SEPA re soil movements. Meeting was held on 27th April 2012, it was agreed at this meeting that further testing was required.
- Joint environmental inspection carried out with BBS and Turner & Townsend at the Coffey site section 5. Issues regarding waste and drip trays raised, report to be issued.
- BBS Environmental Forum held on 25th April 2012. Representative from all of BBS's contractors present. Review of Non Conformances raised by BBS's external auditors, relating to cross contamination of waste, European waste codes, waste duty of care, diesel leaks and oil storage.
- Inspection of monuments currently held in storage by Land Engineering to be inspected by Turner & Townsend and CEC week commencing 7th May 2012.

MEMBER OF PUBLIC INTERACTION SUMMARY

List any significant interactions with members of the public, including RTA's, alleged incidents

There were two reported Member of Public incidents during Period 1. One involved a woman slipping on a metal plate forming part of the pedestrian diversion route around the McNicholas site at Princes Street. There is an insurance claim associated with this alleged occurrence. The other incident involved damage to a woman's bag when a pole was allowed to fall during relocation of a bus stop at Haymarket by Class One. This incident also involves an insurance claim.

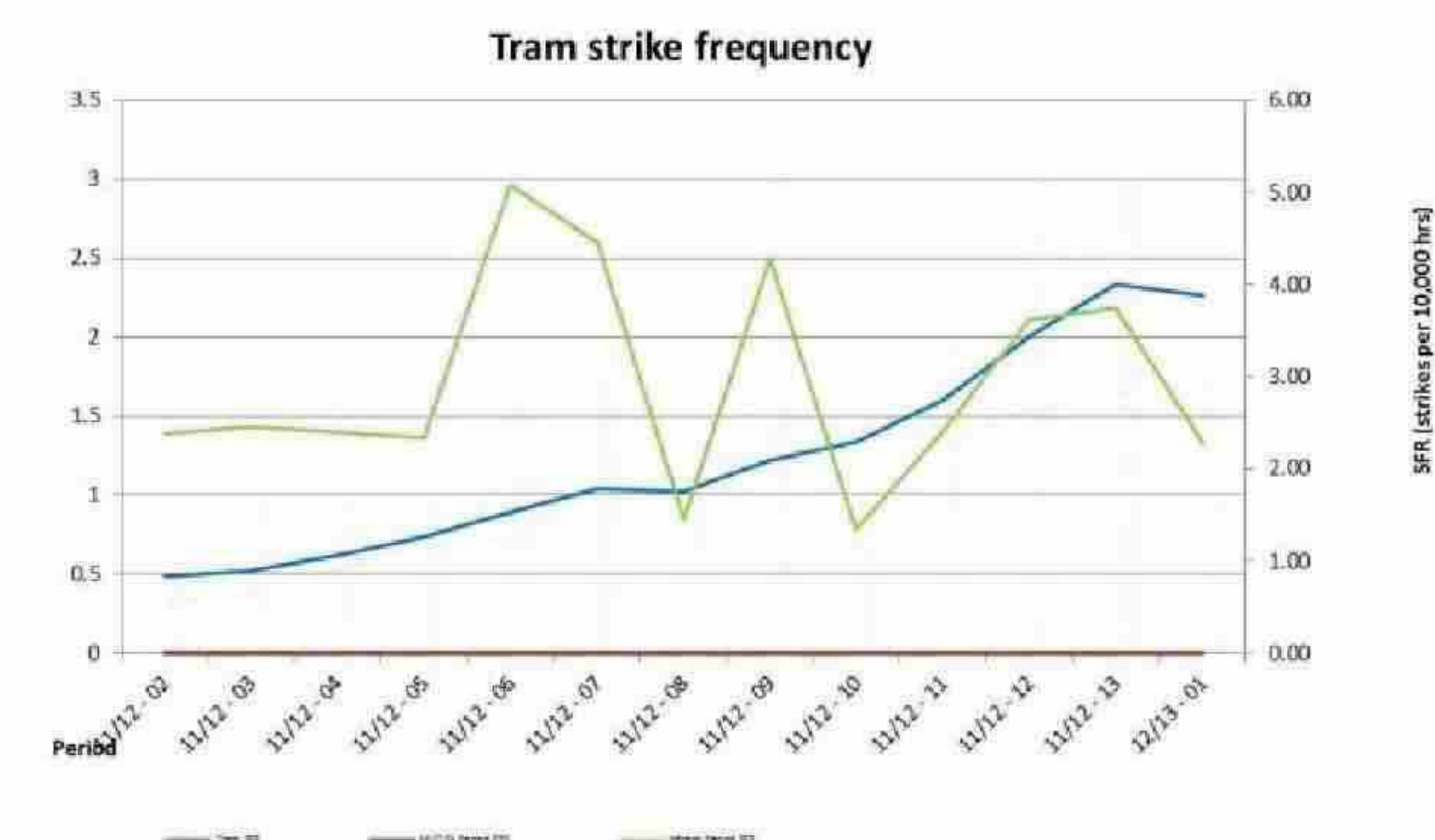
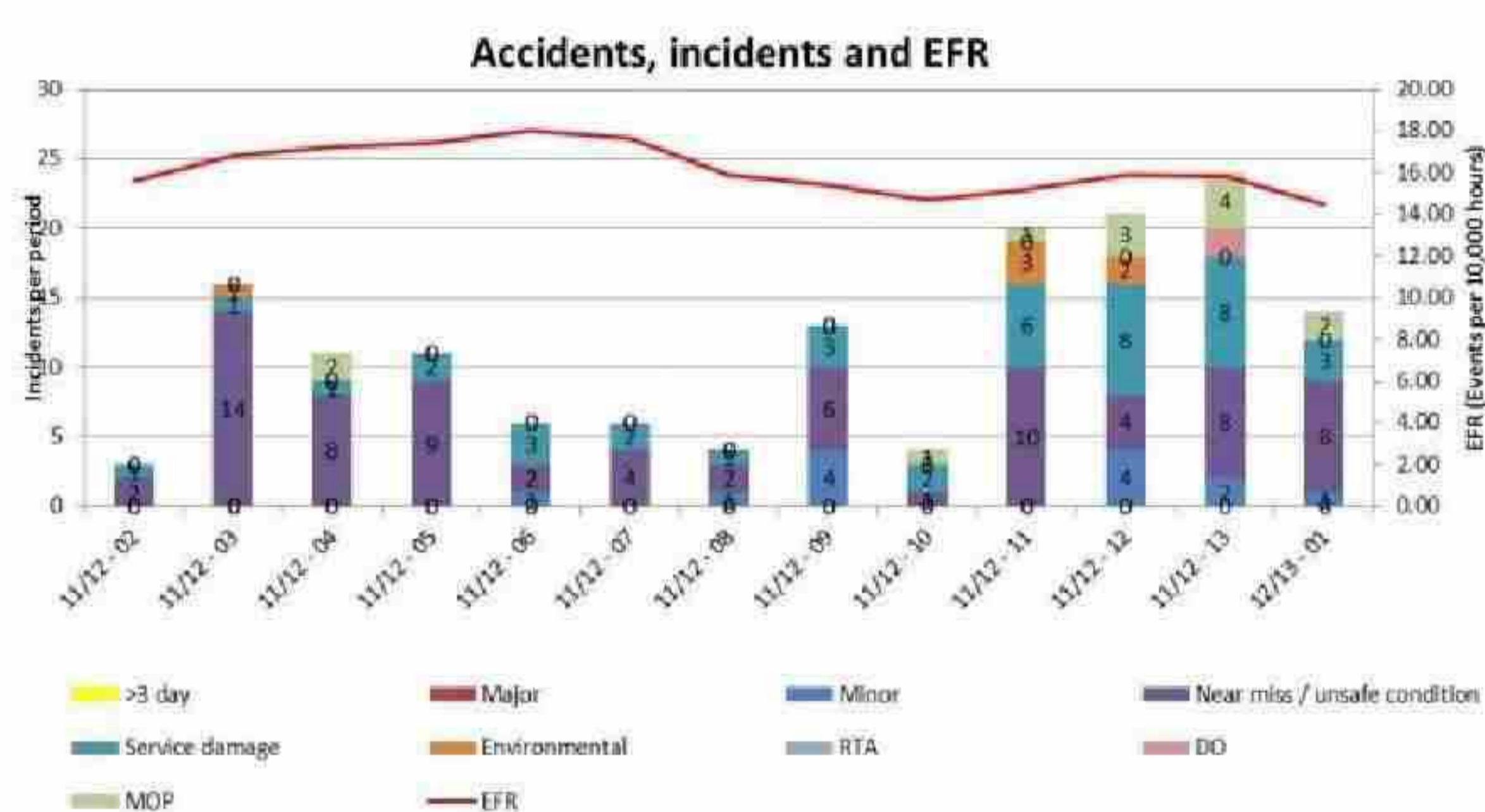


CDM Compliance

List any significant quality events, initiatives, breaches etc

- The Turner and Townsend safety team have been working closely with the On street procurement team to provide Pre construction information for the Leith Utility works tender over the last period.

GRAPHS



Project Report – Period 1

APPENDIX A

There were 26 incidents in total since the issue of the last DtTS report. Of these 5 were classified as serious / significant and details are provided below:-

Significant Incidents

| | | | | | |
|---|--|--|----------------|----|--|
| AIIR Ref: | 1640 | Contractor: | McNicholas | | |
| Location: | South St Andrew Street | | | | |
| Project: | Utility works | Date & Time: | 26/03/12 15:15 | | |
| Sub Contractor: | | Contractor Reference: | | | |
| Project Manager: | Stephen Lewcock | Is the accident / incident Serious / Significant or Major? | Yes | No | |
| | | | X | | |
| Description: | Damage to live LV cable that was located within an unused Virgin Media cable duct. | | | | |
| Action taken by Contractor: | Scottish Power called to site. Power restored at 19:30. | | | | |
| Action taken by Project Team (if required): | Formal review of investigation findings and recommendations to prevent recurrence. | | | | |

| | | | | | |
|---|--|--|----------------------|----|--|
| AIIR Ref: | 1643 | Contractor: | Crummock | | |
| Location: | Princes Street / Shandwick Place | | | | |
| Project: | Infraco | Date & Time: | 19/02/12 19:06 | | |
| Sub Contractor: | | Contractor Reference: | CEC Claim, A-9458CCL | | |
| Project Manager: | Stephen Lewcock | Is the accident / incident Serious / Significant or Major? | Yes | No | |
| | | | | X | |
| Description: | Member of Public fell tripped on steel plate on temporary walkway. | | | | |
| Action taken by Contractor: | Repairs made to footpath surface. | | | | |
| Action taken by Project Team (if required): | Formal review of investigation findings and recommendations to prevent recurrence. | | | | |

Project Report – Period 1

| | | | | |
|---|--|--|----------------|----|
| AIIR Ref: | 1644 | Contractor: | Farrans | |
| Location: | Eastfield Avenue | | | |
| Project: | Infraco | Date & Time: | 30/03/12 08:00 | |
| Sub Contractor: | | Contractor Reference: | | |
| Project Manager: | Cath Leech | Is the accident / incident Serious / Significant or Major? | Yes X | No |
| Description: | Damage to a LV cable that supplied power to the gas governor at Edinburgh Airport. | | | |
| Action taken by Contractor: | BAA and Scottish Power notified. | | | |
| Action taken by Project Team (if required): | Meetings held with BAA, Bilfinger Berger & Turner & Townsend. Formal review of investigation findings and recommendations to prevent recurrence. | | | |

| | | | | |
|---|---|--|------------|----|
| AIIR Ref: | 1645 | Contractor: | McNicholas | |
| Location: | South St Andrew Street | | | |
| Project: | Utility works | Date & Time: | 29/03/12 | |
| Sub Contractor: | | Contractor Reference: | | |
| Project Manager: | Andy Scott | Is the accident / incident Serious / Significant or Major? | Yes X | No |
| Description: | Breach of DOMS documentation regarding the Go Live Pack for a 90mm main. | | | |
| Action taken by Contractor: | Meeting to be held on 02/04/12 AM to review issues and identify what went wrong with the testing / sampling procedures. | | | |
| Action taken by Project Team (if required): | Formal review of investigation findings and recommendations to prevent recurrence. | | | |

Project Report – Period 1

| | | | | |
|---|---|--|----------------|---------|
| AIIR Ref: | 1654 | Contractor: | McNicholas | |
| Location: | Princes Street | | | |
| Project: | Utility Works | Date & Time: | 06/04/12 11:25 | |
| Sub Contractor: | | Contractor Reference: | | |
| Project Manager: | Stephen Lewcock | Is the accident / incident Serious / Significant or Major? | Yes | No X |
| Description: | MOP was injured when she slipped on a metal plate forming part of the pedestrian diversion route. | | | |
| Action taken by Contractor: | Investigation of pedestrian route – not able to locate metal plate, only covers to chambers. | | | |
| Action taken by Project Team (if required): | Formal review of investigation findings and recommendations to prevent recurrence. | | | |

Project Report – Period 1

APPENDIX A (Continued)

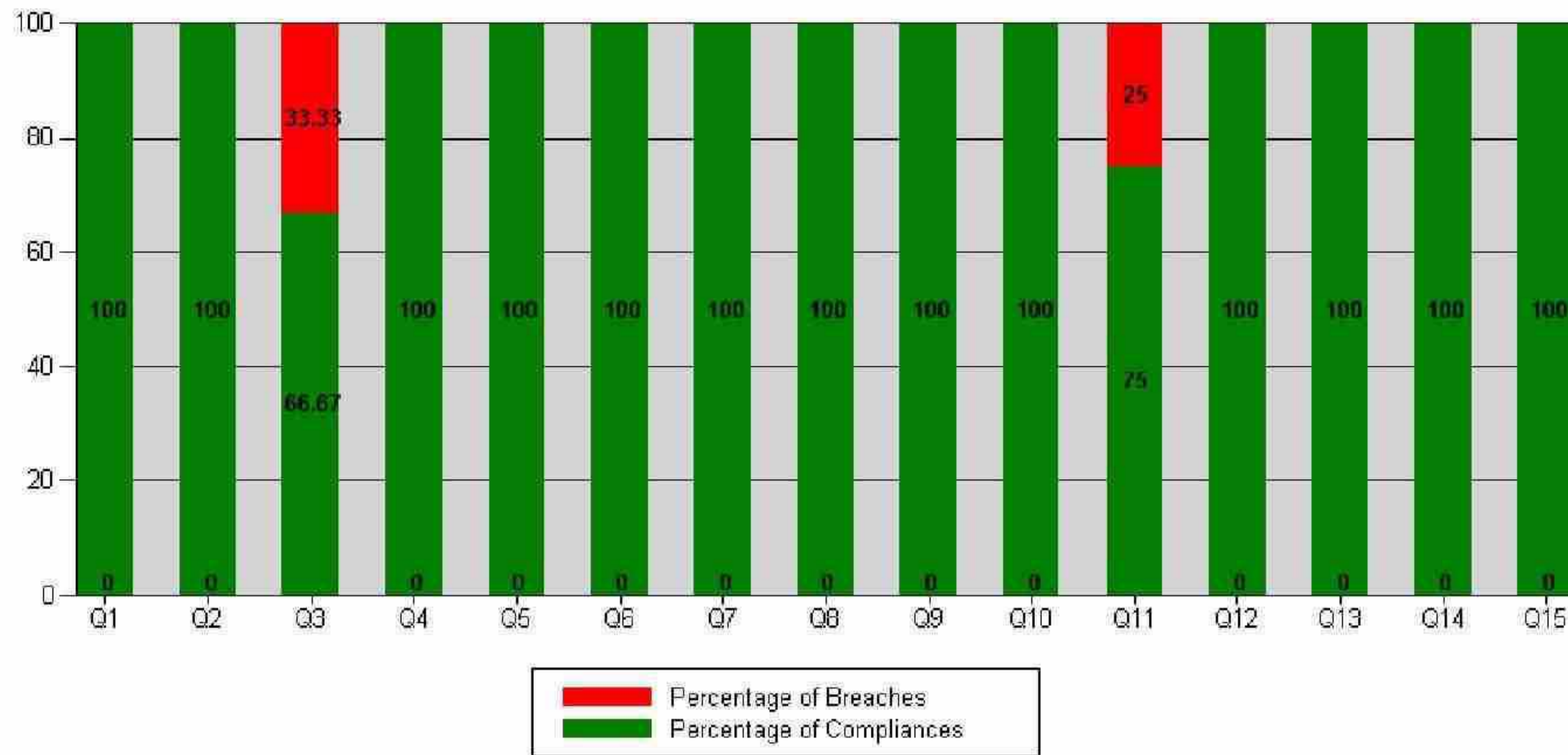
Other Incidents since last DtTS report

| Date | Location | Detail | Contractor | Classification |
|------------|-----------------------------|--|--------------------|------------------------------|
| 27/03/2012 | Princes Street | Damage to a stone coping that covered a buried manhole. | Lagan Construction | Service damage |
| 13/04/2012 | West Maitland Street | Damage to a domestic water supply for 3 West Maitland Street | McNicholas | Service damage |
| 17/04/2012 | Haymarket Yards | Disconnected BT cable was crushed. | Grahams | Service damage |
| 26/04/2012 | Gyle | Damage to street lighting cable. | Coffey | Service damage |
| 25/04/2012 | St Andrew Square | Construction of a Scottish Water manhole without ATC process being followed. | McNicholas | Service damage |
| 12/04/2012 | Haymarket | During relocation of a bus stop a pole was allowed to fall damaging a MoP's bag. | BBS / Class One | Member of the public |
| 21/03/2012 | Bankhead Drive | Operative whilst denailing wooden travellers slipped and fell forward causing a cut to his nose from a duct box. | Crummock | Minor injury |
| 25/04/2012 | Haymarket Yards | Electric shock due to contact with disconnected street lighting cable that was directly beneath paving slab. | Grahams | Minor injury |
| 26/03/2012 | Bankhead Drive | Graffiti drawn on the external wall to the substation building. | Siemens | Near miss / Unsafe condition |
| 30/03/2012 | Roseburn Street | Access into manhole for CCTV survey without ATC being in place. | Grahams | Near miss / Unsafe condition |
| 02/04/2012 | Balgreen Rd - Carrick Knowe | Theft of a band saw | Land & Building | Near miss / Unsafe condition |
| 16/04/2012 | Carrick Knowe | Arson event at Carrick Knowe. Dozer set on fire. | Bilfinger Berger | Near miss / Unsafe condition |
| 20/04/2012 | Carrick Knowe | An excavator was broken into and damaged on site. | Crummock | Near miss / Unsafe condition |
| 19/04/2012 | Shandwick Place | Generator within site accommodation was left running out of site working hours. | McNicholas | Near miss / Unsafe condition |
| 20/03/2012 | ScotRail Depot | A lorry moved across the pedestrian access path directly in front of ScotRail persons. No warning was given and no banksman was visible. | Expanded | Near miss / Unsafe condition |
| 03/04/2012 | Waveley Bridge | Temporary traffic lights at Waverley bridge were stuck on red. | Crummock | Near miss / Unsafe condition |
| 06/04/2012 | Princes Street | Reported that the service lane on Princes Street was too narrow at the locations where work was being carried out on BT chambers. | Crummock | Near miss / Unsafe condition |

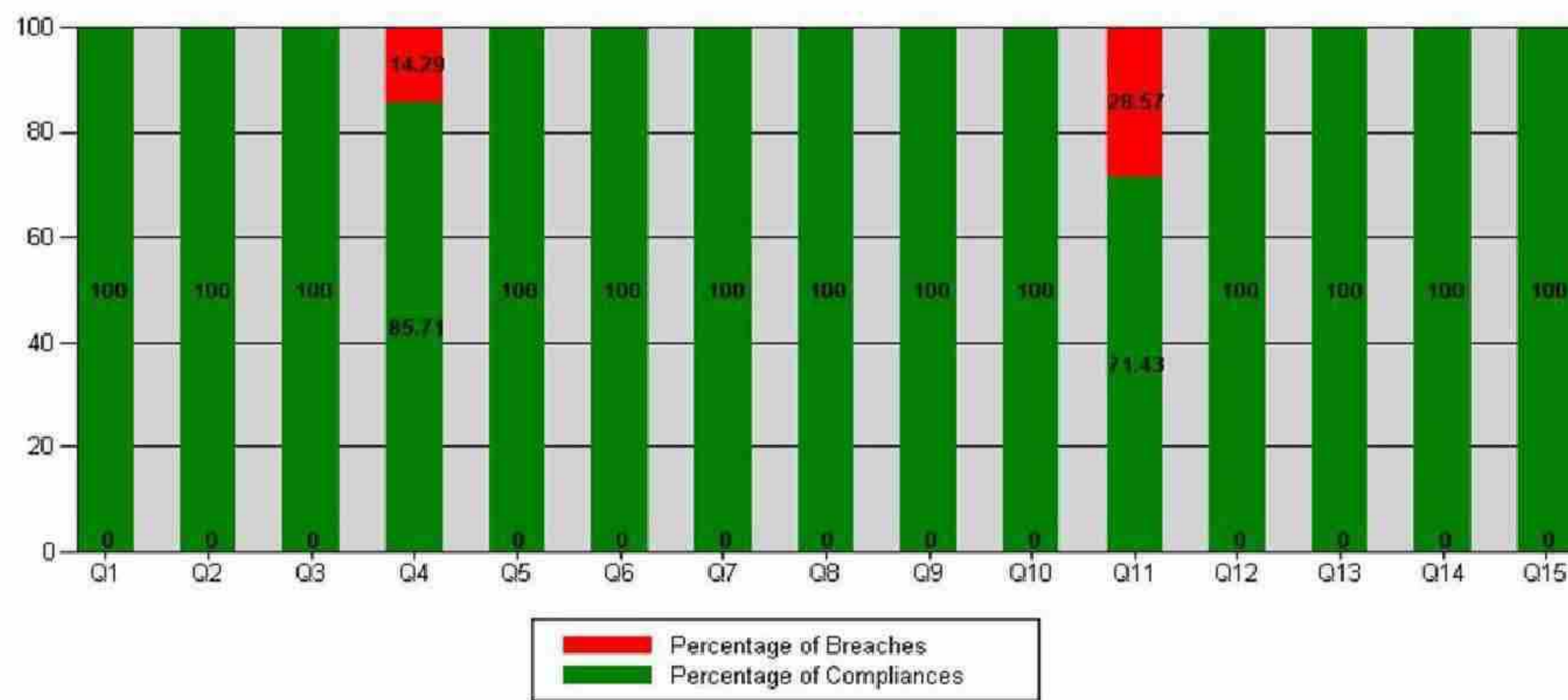
Project Report – Period 1

APPENDIX B – COCP INSPECTIONS

Period 13 (previous period)



Period 1



| |
|--------------------------------------|
| Q3. Notices |
| Q4. Fencing and Hoarding |
| Q5. Noise |
| Q6. Waste Management |
| Q7. Waste Water and Run-Off |
| Q8. Water |
| Q9. Emergency Access |
| Q10. Parking |
| Q11. Litter and general housekeeping |
| Q12. Dust |
| Q13. Smoking |
| Q14. Members of the Public |
| Q15. PPE and Behaviours |

Project Report – Period 1

Summary of issues and action taken

| No | Date of Inspection | Location | Contractor | Question Number | Issue detail | Action taken or required to be taken by contractor | Date to rectify or rectified |
|----|--------------------|--------------|------------------|-----------------|--|--|------------------------------|
| 1 | 13/04/12 | Murray field | BBS/ Grahams | 11 | Fuel depot yard required to be cleaned. | Yard cleaned by roadsweeper on day of inspection. | Closed 13/04/12 |
| 2 | 19/04/12 | Airport | BBS/ Expanded | 4 | Hoarding repair required. | Hoarding re-erected by Expanded | Closed 19/04/12 |
| 3 | 20/04/12 | Russell Road | BBS/ Grahams | 11 | Pavement area required to be cleaned after fencing move. | Pavement swept by Grahams on day of inspection. | Closed 20/04/12 |

Appendix 3 – Cost Report and Contingency Analysis

Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-01 - Rev 0 - 27/04/2012

Section 1 - Project Summary

| | Budget Information | | | Committed | | | Forecast | | | | | Third Party Contributions | | Variance | | Actuals | | |
|--|--------------------|------------------|----------------|-------------------------|---------------------------|------------------------|---------------------|--------------------|---------------|------------------|------------------------|------------------------------|--------------------------------|-------------------------|---------------------|--------------|--------------------|--|
| | A | B | C = A + B | D | E | F = D + E | G | H | I | J | K = F + G + H + I + J | L | M = K - L | N = M - C | O = M / C - 1 | P | Q | |
| | Original Budget | Budget Variation | Current Budget | Original Contract Value | Approved Contract Changes | Current Contract Value | Changes in Progress | Anticipated Change | Opportunities | Risk / Mitigated | Anticipated Final Cost | Estimated Contribution Value | Anticipated Final Project Cost | Budget Variance (Value) | Budget Variance (%) | COWD to Date | Outstanding Amount | |
| Edinburgh Tram Programme | 500,154 | 0 | 500,154 | 479,660 | 3,546 | 483,206 | 9,462 | 13,917 | -6,752 | 9,037 | 508,870 | -8,716 | 500,154 | 0 | 0% | 338,581 | 144,625 | |
| 1 Infraco - Off Street | 360,060 | -2,525 | 357,535 | 362,501 | -2,525 | 359,976 | 9,795 | 30 | 0 | 0 | 369,801 | -7,183 | 362,618 | 5,083 | 1% | 268,234 | 91,742 | |
| 2 Infraco - On Street | 38,817 | 1,205 | 40,022 | 47,384 | 1,205 | 48,589 | -333 | 3,048 | -6,752 | 0 | 44,552 | -1,533 | 43,019 | 2,997 | 7% | 8,482 | 40,107 | |
| 3 Infraco - Other | 3,218 | 0 | 3,218 | 3,218 | 0 | 3,218 | 0 | 0 | 0 | 0 | 3,218 | 0 | 3,218 | 0 | 0% | 662 | 2,556 | |
| 4.1 Utilities (Post Mediation) | 1,812 | 5,461 | 7,273 | 1,812 | 5,461 | 7,273 | 0 | 7,385 | 0 | 0 | 14,658 | | 14,658 | 7,385 | 102% | 4,628 | 2,645 | |
| 4.2 Legacy Utilities (Revised Tram Route) | 0 | 500 | 500 | 0 | 500 | 500 | 0 | 754 | 0 | 0 | 1,254 | | 1,254 | 754 | 151% | 404 | 96 | |
| 4.3 Legacy Utilities (Leith Walk) | 1,100 | -1,100 | 0 | 1,100 | -1,100 | 0 | 0 | 2,700 | 0 | 0 | 2,700 | | 2,700 | 2,700 | | 0 | 0 | |
| 5 Tram vehicles | 62,400 | 5 | 62,405 | 63,645 | 5 | 63,650 | 0 | | 0 | 0 | 63,650 | | 63,650 | 1,245 | 2% | 56,171 | 7,479 | |
| 6 Project Management (refer to CEC Report) | | 0 | 0 | | | 0 | | | | | 0 | | 0 | 0 | | | | |
| 7 Preparing for Operations (refer to CEC Report) | | 0 | 0 | | | 0 | | | | | 0 | | 0 | 0 | | | | |
| 8 Specified Risk Allowance | 32,747 | -3,546 | 29,201 | 0 | 0 | 0 | 0 | | | 9,037 | 9,037 | | 9,037 | -20,164 | -69% | 0 | 0 | |

Comments:
Report excludes Enabling work packages reported under T19 and utilities reported under T18
Contributions include amounts relevant to reported budgets only. Any further contributions are reported by CEC.

Risk:
The specified risk allowance is adjusted to match the forecast with the budget. This will be updated once a full QSRA and QCRA is completed

Actions
QCRA and QSRA required to inform the amended risk allowance

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Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-01 - Rev 0 - 27/04/2012

Infraco Cost Report Section 1 - Commercial Summary

| | Budget Information | | | Committed | | | Forecast | | | | | Third Party Contributions | | Variance | | Actuals | |
|----------------------------------|--------------------|------------------|----------------|-------------------------|---------------------------|------------------------|---------------------|--------------------|---------------|------------------|------------------------|------------------------------|--------------------------------|-------------------------|---------------------|--------------|--------------------|
| | A | B | C = A + B | D | E | F = D + E | G | H | I | J | K = F + G + H + I + J | L | M = K - L | N = M - C | O = M / C - 1 | P | Q |
| | Original Budget | Budget Variation | Current Budget | Original Contract Value | Approved Contract Changes | Current Contract Value | Changes in Progress | Anticipated Change | Opportunities | Risk / Provision | Anticipated Final Cost | Estimated Contribution Value | Anticipated Final Project Cost | Budget Variance (Value) | Budget Variance (%) | COWD to Date | Outstanding Amount |
| Infraco Contract | 402,095 | -1,320 | 400,775 | 413,103 | -1,320 | 411,783 | 9,462 | 3,078 | -6,752 | 0 | 417,571 | -8,716 | 408,855 | 8,080 | 4.19% | 277,378 | 134,405 |
| Off Steet | 360,060 | -2,525 | 357,535 | 362,501 | -2,525 | 359,976 | 9,795 | 30 | 0 | 0 | 369,801 | -7,183 | 362,618 | 5,083 | 3.43% | 268,234 | 91,742 |
| 00 Preliminaries and Other Items | 150,408 | 317 | 150,725 | 150,409 | 317 | 150,726 | 4,541 | 0 | | | 155,267 | 0 | 155,267 | 4,542 | 3.01% | 108,467 | 42,259 |
| 01 Newhaven Road to Haymarket | 85,368 | -2,579 | 82,789 | 87,738 | -2,579 | 85,159 | 355 | 0 | | | 85,514 | -318 | 85,196 | 2,407 | 3.29% | 86,517 | -1,358 |
| 02 Haymarket Corridor | 8,692 | -8 | 8,684 | 8,692 | -8 | 8,684 | 0 | 0 | | | 8,684 | -13 | 8,671 | -13 | 0.00% | 5,662 | 3,022 |
| 05 Roseburn Junction to Gogar | 80,035 | -153 | 79,882 | 80,105 | -153 | 79,952 | 4,789 | 30 | | | 84,771 | -5,812 | 78,959 | -923 | 6.12% | 39,277 | 40,675 |
| 06 Depot | 19,979 | 190 | 20,169 | 19,979 | 190 | 20,169 | 80 | 0 | | | 20,249 | 0 | 20,249 | 80 | 0.40% | 18,543 | 1,626 |
| 07 Gogar to Edinburgh Airport | 15,578 | -292 | 15,286 | 15,578 | -292 | 15,286 | 30 | 0 | | | 15,316 | -1,040 | 14,276 | -1,010 | 0.20% | 9,768 | 5,518 |
| On Street | 38,817 | 1,205 | 40,022 | 47,384 | 1,205 | 48,589 | -333 | 3,048 | -6,752 | 0 | 44,552 | -1,533 | 43,019 | 2,997 | 11.32% | 8,482 | 40,107 |
| 00 Preliminaries and Other Items | 21,837 | 87 | 21,924 | 21,837 | 87 | 21,924 | 42 | 0 | | | 21,966 | 0 | 21,966 | 42 | 0.19% | 5,163 | 16,761 |
| 01 Newhaven Road to Haymarket | 16,980 | 1,118 | 18,098 | 25,547 | 1,118 | 26,665 | -375 | 3,048 | -6,752 | | 22,586 | -1,533 | 21,053 | 2,955 | 24.80% | 3,319 | 23,346 |
| Other | 3,218 | 0 | 3,218 | 3,218 | 0 | 3,218 | 0 | 0 | 0 | 0 | 3,218 | 0 | 3,218 | 0 | 0.00% | 662 | 2,556 |
| 00 Maintenance & Mobilisation | 2,205 | 0 | 2,205 | 2,205 | 0 | 2,205 | 0 | 0 | | | 2,205 | 0 | 2,205 | 0 | 0.00% | 662 | 1,543 |
| 00 Spare Parts | 1,013 | 0 | 1,013 | 1,013 | 0 | 1,013 | 0 | 0 | | | 1,013 | 0 | 1,013 | 0 | 0.00% | 0 | 1,013 |

Comments:

Summary sheet values in £k. All other sheet values in £.
Opportunities include for time saving based on current QSRA.
Excludes £3.2m phase 1b payment (refer to budget T19.C)

Risk

Refer to Risk register for risks identified against infraco programme
All risk is held at programme level. This section of the cost report makes no allowance for risk.
Refer to the outputs of the QCRA/QSRA for further information on risk.

Actions

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Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-01 - Rev 0 - 27/04/2012

Page 2 of 17

Infraco Cost Report Section 2A - Approved Change - Clause 80

| TNC No. | Description | Forecast Amount | Previous Period | Change from Previous Period | Notes | Section Code | Change Code |
|---------|---|-----------------|-----------------|-----------------------------|--|--------------|-------------|
| 501 | Hawthornevale Cycle Link - Change the design to widen the footway alongside the south side of Lindsay Road | 20,021 | 20,021 | 0 | | 01 | 01 |
| 502 | Amend the design of Ocean Drive to reinstate the footpath to the north of Ocean Drive | 10,231 | 10,231 | 0 | | 01 | 01 |
| 503 | OLE temporary portals at depot access bridge to allow finalisation without Edinburgh Gateway | 67,646 | 67,646 | 0 | Edinburgh Gateway funding | 05 | 01 |
| 504 | Review of the banned right turn into Blenheim Place as part of the design for Section 1C2 roads | 46,247 | 46,247 | 0 | | 01 | 01 |
| 505 | York Place Terminal Point - Production of a feasibility report, initial feasibility design for option ii), run time modelling etc | 228,653 | 228,653 | 0 | | 01 | 01 |
| 506 | Design for providing a new cycleway from the Mound to Princes Street | 9,437 | 9,437 | 0 | | 01 | 01 |
| 506.1 | Design for providing a new cycleway from the Mound to Princes Street | 1,669 | 1,669 | 0 | | 01 | 01 |
| 507 | Provide a clarification report and completion of the St. Andrew's Square Public Realm design | 133,075 | 133,075 | 0 | Included within contributions | 01 | 01 |
| 508 | Obtain EAL approval for the highways design drawings at Eastfield Avenue tram crossing | 10,025 | 10,025 | 0 | | 07 | 01 |
| 509 | Design of Cathedral Lane Substation | 233,596 | 233,596 | 0 | | 01 | 01 |
| 511 | Storm Water Connection from Gogar Lodge to the landowners new septic tank | 5,750 | 5,750 | 0 | | 05 | 08 |
| 512 | Re-design of Ocean Terminal Bypass Road | 53,685 | 53,685 | 0 | | 01 | 01 |
| 513 | Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes | 156,870 | 156,870 | 0 | | 01 | 08 |
| 514 | Utility Mapping | 92,756 | 92,756 | 0 | Time chargeable costs. L&M Surveys and Class One. Complete | 01 | 08 |
| 516 | Additional Water main requirement at Depot and Mini Test Track | 51,282 | 51,282 | 0 | | 06 | 08 |
| 517 | Additional BT Ducts at Depot and Mini Test Track | 2,996 | 2,996 | 0 | | 06 | 08 |
| 520 | Valve chamber access and alteration works to 800mm water main at the Depot | 105,326 | 105,326 | 0 | | 06 | 08 |
| 526 | Airport to Gyle - Tram Delivery Temporary Works | 6,878 | 6,878 | 0 | | 07 | 08 |
| 529 | Design Gogar Castle Access Road tram crossing and approaches | 31,308 | 31,308 | 0 | | 05 | 08 |
| 530 | Amend the design of the Depot Road turning head as per RDC191. Option 2 | 30,458 | 30,458 | 0 | | 06 | 08 |

Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-01 - Rev 0 - 27/04/2012

Page 3 of 17

Infraco Cost Report Section 2A - Approved Change - Clause 80

| TNC No. | Description | Forecast Amount | Previous Period | Change from Previous Period | Notes | Section Code | Change Code |
|---------|---|-----------------|-----------------|-----------------------------|--|--------------|-------------|
| 531 | Edinburgh Gateway - Advance Temporary Works design | 9,349 | 9,349 | 0 | | 05 | 08 |
| 534 | SP Insurance Ducts - Install Insurance ducts at various locations | 5,637 | 5,637 | 0 | Liability for change still to be agreed | 07 | 08 |
| 536 | System Wide - Tramstop Cabinets - reduction in 10 years maintenance liability | 0 | 0 | 0 | No saving to contract | 01 | 08 |
| 538 | Depot - Tramwash Continuous Mode - Requirement for additional hand lances washers | 0 | 0 | 0 | Change rejected - included within contract | 06 | 08 |
| 540 | Section 7 - Plot 304 - Omit Landscaping works | -201,120 | -201,120 | 0 | | 07 | 08 |
| 544 | Extension to Edinburgh Park Office to accommodate CEC / Transport Scotland | 159,900 | 159,900 | 0 | | 00 | 08 |
| 550 | Shandwick Place OLE & Landscape Design Revision | 0 | 0 | 0 | Costs included in other tNCs for design work | 01 | 08 |
| 553 | SDS to provide the services of Matt Fell until end March 2012 | 69,131 | 69,131 | 0 | | 00 | 01 |
| 558 | Site Wide - Provision of a CAD Technician | 1,693 | 1,693 | 0 | | 01 | 08 |
| 559 | Detailed Design of York Place | 56,438 | 56,438 | 0 | tnc issued - awaiting BBS estimate | 01 | 08 |
| 561 | Omit all works at the Forth Ports area | -2,443,000 | -2,443,000 | 0 | Work deleted from scope. | 01 | 08 |
| 562 | On Street Generally - OLE Design Changes for On Street Section (PMC 045) - SIEMENS DESIGN WORKS | 20,000 | 20,000 | 0 | All design costs to be grouped under tnc 562 (BBS PMC 045) | 01 | 08 |
| 563 | On Street - Amend pile caps from square / rectangular to circular | 5,000 | 5,000 | 0 | All design costs to be grouped under tnc 562 (BBS PMC 045) | 01 | 08 |
| 564 | On Street Generally - Worksite Modelling - TNC & TCO (531) WITHDRAWN 12.1.12 | 10,000 | 10,000 | 0 | | 01 | 08 |
| 565 | Advanced design works for Edinburgh Gateway Minimum Option | 2,650 | 2,650 | 0 | | 05 | 08 |
| 565.1 | Advanced design works for Edinburgh Gateway Minimum Option | 3,350 | 3,350 | 0 | | 05 | 08 |
| 566 | On Street Generally - Ducting Design Changes Due to Utilities Conflicts | 10,000 | 10,000 | 0 | | 00 | 08 |
| 567 | On Street Generally - Drainage Design Changes Due to Utilities Conflicts | 10,000 | 10,000 | 0 | | 00 | 08 |
| 568 | On Street Generally - Trackform Design Changes Due to Utilities Conflicts | 10,000 | 10,000 | 0 | | 00 | 08 |

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Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-01 - Rev 0 - 27/04/2012

Page 4 of 17

Infraco Cost Report Section 2A - Approved Change - Clause 80

| TNC No. | Description | Forecast Amount | Previous Period | Change from Previous Period | Notes | Section Code | Change Code |
|--------------|--|-------------------|-------------------|-----------------------------|--|--------------|-------------|
| 569 | Additional Running Costs associated with the extension to the Edinburgh Park offices | 79,200 | 79,200 | 0 | | 00 | 08 |
| 572 | Cathedral Lane Substation - Retaining Wall Design | 31,013 | 5,000 | 26,013 | Value based on submitted estimate from BBS | 01 | 08 |
| 574 | Haymarket Station - Delete viaduct cladding | -10,000 | -10,000 | 0 | | 02 | 08 |
| 576 | Depot - Reinstatement to 250mm Water main Remedial Works | 36,788 | 36,788 | 0 | | 07 | 04 |
| 577 | Haymarket Viaduct - Deletion of Sub Station Retaining Wall and Plinth | 1,580 | 1,580 | 0 | | 02 | 08 |
| 578 | SI Provisional Sum Allowance | -57,984 | -57,984 | 0 | | 01 | 08 |
| 580 | Cancellation of trackwork materials York Place to Newhaven | -1,100,000 | -1,100,000 | 0 | Change resulting from value engineering exercise | 01 | 08 |
| 581 | Omit Siemens work to Tower Place and Victoria Dock bridges | -100,000 | -100,000 | 0 | Change resulting from value engineering exercise | 01 | 08 |
| 582 | Delete proposed cladding installation costs on Roseburn Viaduct Structures | -308,004 | -308,004 | 0 | Change resulting from value engineering exercise | 05 | 08 |
| 585 | Descoping of Service Vehicle | -21,565 | -21,565 | 0 | | 00 | 08 |
| 589 | Descoping airport tramstop kiosk and canopy | -150,000 | -150,000 | 0 | | 07 | 08 |
| 591 | Diversion of Scottish Power Cable at Haymarket Viaduct | 21,789 | 50,000 | -28,211 | NR contribution | 05 | 08 |
| 597 | Section 1D - Omit disconnection of Bus Tracker | -14,928 | -14,928 | 0 | | 01 | 08 |
| 602 | Omit purchase of poles for PIDs North of York Place | -23,740 | -23,740 | 0 | | 01 | 08 |
| 613 | Temporary Bus Station at St Andrew Square/Waterloo Place - design | 50,000 | 0 | 50,000 | | 01 | 08 |
| 615 | Haymarket Viaduct - design wall for blocking off void under the bridge deck as a result of the crew relief facility being omitted | 3,000 | 0 | 3,000 | | 05 | 08 |
| 616 | Haymarket Viaduct - construct wall for blocking off void under the bridge deck as a result of the crew relief facility being omitted | 10,000 | 0 | 10,000 | | 05 | 08 |
| 617 | Tram stops branding changes. Requirement for etched glass to be confirmed | 0 | 0 | 0 | Value TBC | 05 | 08 |
| Total | | -2,525,913 | -2,586,715 | 60,802 | | | |

CEC01890161_0068

Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-01 - Rev 0 - 27/04/2012

Page 6 of 17

Infraco Cost Report Section 3A - Change in Progress - Clause 80

| TNC No. | Description | Forecast Amount | Previous Period | Change from Previous Period | Notes | Section Code | Change Code |
|---------|---|-----------------|-----------------|-----------------------------|---|--------------|-------------|
| 524 | Airport to Gyle - NIL Design Finalisation (also includes Construction) | 30,000 | 30,000 | 0 | | 07 | 01 |
| 525 | Airport to Gyle - Site Access for Remedial Works | 0 | 0 | 0 | all costs associated with this change allocated to TNC 576 | 07 | 08 |
| 527 | Ingliston - Reimbursement of Costs paid directly to SGN for the diversion of approximately 120m of 10" steel IP gas main to accommodate the new Edinburgh Tram at Ingliston | 0 | 0 | 0 | Saving from Infraco, not included during the period as cost not shown in utility budget | 07 | 04 |
| 539 | System Wide - Delay in signing - impact on commencement and completion | 4,541,161 | 4,541,161 | 0 | Meeting scheduled to review cost incurred at delay commencement | 00 | 02 |
| 541 | Princes Street - City Chamber - Annandale Street Communication Links. Usage of CEC available BT-Lines to avoid provision of direct FO link from Princes Street to City Chambers | 50,000 | 50,000 | 0 | Allowance for ducting | 01 | 08 |
| 555 | Haymarket - OLE 196B design revision to avoid main sewer | 10,000 | 10,000 | 0 | | 01 | 08 |
| 556 | Track Work Materials York Place to Newhaven - Price Fixing for Rheda City C and D | 0 | 0 | 0 | Included in VE register | 01 | 12 |
| 557 | Haymarket 1 - OLE Base Relocations (Design mods) | 100,000 | 55,000 | 45,000 | All design costs to be grouped under tnc 562 (BBS PMC 045) | 01 | 08 |
| 571 | Hope Street Junction Design | 5,000 | 5,000 | 0 | | 01 | 08 |
| 573 | Roseburn Delta - Non DDA Compliant Footpath | 0 | 0 | 0 | TNC covers design only. Costs associated with this change included in the anticipated change section | 05 | 08 |
| 575 | Haymarket Station - Take Down Viaduct Staircase and Parapet. TNC now withdrawn - Network Rail carrying out work | 0 | 121,315 | -121,315 | Verbal update - NR have indicated that they will remove the staircase and parapet in Haymarket contract. Current cost report allowance offset by contribution (cost neutral). | 02 | 08 |
| 586 | St Andrew Square - tie in detail | 30,000 | 30,000 | 0 | Change resulting from value engineering exercise | 01 | 08 |
| 587 | Revise design for amendments to setts areas and specification | 30,000 | 30,000 | 0 | Subject to separate CEC budget? | 01 | 08 |
| 592 | Haymarket Yards - Realign kerbs at Car Park Entrance | 0 | 0 | 0 | Currently on hold pending A. Sim review. | 05 | 08 |
| 593 | Secondary Phase 1a - Cessation of Design Work North of York Place | 0 | 0 | 0 | Saving opportunity being investigated in relation to future ownership of design etc prior to finalising value. | 01 | 08 |
| 594 | Edinburgh Gateway slope option. Awaiting construction estimate | 4,850,000 | 4,850,000 | 0 | | 05 | 08 |
| 595 | Haymarket Viaduct - Deletion of fitting out of Crew Relief Facility | -70,000 | 0 | -70,000 | Assume credit from NR (yet to be established) | 05 | 08 |
| 599 | Floating track slab | 0 | 0 | 0 | Refer to anticipated change for costs | 01 | 08 |

Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-01 - Rev 0 - 27/04/2012

Page 7 of 17

Infraco Cost Report Section 3A - Change in Progress - Clause 80

| TNC No. | Description | Forecast Amount | Previous Period | Change from Previous Period | Notes | Section Code | Change Code |
|---------|--|-----------------|-----------------|-----------------------------|--|--------------|-------------|
| 601 | Clarification on length of shelter to RBS tram stop (8m) | 25,000 | 25,000 | 0 | Liability for change still to be clarified - basis of contract price unclear | 05 | 08 |
| 603 | Bus Tracker Interface Specification | 0 | 0 | 0 | | 01 | 08 |
| 605 | Depot - Sub-Station Switching | 80,000 | 0 | 80,000 | Includes allowance up to Section B completion date (8/3/13) | 06 | 08 |
| 608 | Delete 110v sockets on Off Street Tram Stops | -16,500 | 0 | -16,500 | Assume £1.5k per tram stop. Awaiting estimate | 05 | 08 |
| 609 | Traffic Management provision in section 1A | 130,000 | 0 | 130,000 | | 01 | 08 |
| 610 | Edinburgh Gateway - Siemens Long Lead Items | 0 | 0 | 0 | Cost covered within the Edinburgh Gateway costs. | 05 | 08 |
| Total | | 9,794,661 | 9,747,476 | 47,185 | | | |

CEC01890161_0071

Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-01 - Rev 0 - 27/04/2012

Page 8 of 17

Infraco Cost Report Section 3B - Change in Progress - Schedule 45

| TNC No. | Description | In Progress | Certified | Total Forecast | Previous Period | Change from Previous Period | Notes | Section Code | Change Code |
|---------|---|-------------|-----------|----------------|-----------------|-----------------------------|---|--------------|-------------|
| 513.1 | Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes | 0 | 17,210 | 17,210 | 17,210 | 0 | | 01 | 08 |
| 521 | Haymarket - Temporary Accommodation | 0 | 1,543 | 1,543 | 1,543 | 0 | | 01 | 08 |
| 522 | Haymarket 1 - Road Reconstruction | 0 | 0 | 0 | 0 | 0 | Included in VE register | 01 | 08 |
| 523 | Haymarket 1 - Additional CBR / Plate Testing | 0 | 0 | 0 | 0 | 0 | Included within on street priority works (contract milestones) | 01 | 08 |
| 528 | Haymarket 1 - Slit trench excavation to validate utilities | 0 | 6,565 | 6,565 | 6,565 | 0 | Included within on street priority works (contract milestones) | 01 | 08 |
| 532 | Princes Street - Temporary traffic management design - WITHDRAWN | 0 | 0 | 0 | 0 | 0 | Further information required | 01 | 10 |
| 533 | Princes Street - 500mm Water Main Diversion | 0 | 0 | 0 | 0 | 0 | Costs contained within 535 | 01 | 08 |
| 535 | Princes Street - 500mm Water Main Diversion - rev 3 dwg | 0 | 252,986 | 252,986 | 252,986 | 0 | | 01 | 08 |
| 537 | Haymarket 1 - Additional visit of Tar planer to facilitate slewing of BT ducts - WITHDRAWN | 0 | 0 | 0 | 0 | 0 | Withdrawn | 01 | 08 |
| 543 | Haymarket H1 - Utilities affecting the construction of OHLE foundations | 3,482 | 280,169 | 283,651 | 297,934 | -14,283 | Only covers section H1. H2 to YP included in item 7 of Anticipated Change. | 01 | 08 |
| 545 | Site Wide - Power to bus trackers affecting the ability to remove site clearance items | 20,000 | 0 | 20,000 | 20,000 | 0 | McNicholas to remove. Contra charge BBS; allowance included for BBS attendance | 00 | 08 |
| 546 | Site Wide - Increased number of drainage boxes including installation | 21,482 | 0 | 21,482 | 21,482 | 0 | | 00 | 08 |
| 547 | Haymarket H1 - Third Party (McNicholas) affecting ability to progress the works | 307 | 3,481 | 3,787 | 3,348 | 439 | | 00 | 08 |
| 548 | Haymarket H1 - BT Fibre Optic Service requires diverting | 0 | 83,053 | 83,053 | 83,053 | 0 | | 00 | 08 |
| 549 | Princes Street - Amend the design of the St. Johns Church OLE bases | 0 | 12,284 | 12,284 | 12,284 | 0 | Opportunity to deduct original scope to be persued once acceptance of revised pole locations is achieved. | 01 | 08 |
| 551 | Princes Street - 2011 Christmas Embargo - Temporary Surfacing of Track Infills | 0 | 203,511 | 203,511 | 203,511 | 0 | | 01 | 08 |
| 552 | Princes Street - BT diversion @ junction of Princes Street and South St. David Street | 0 | 0 | 0 | 0 | 0 | Costs included within TNC 535 | 01 | 08 |
| 554 | St Andrew Square & Shandwick Place - Traffic Management Requirements | 92,000 | 127,758 | 219,758 | 209,267 | 10,491 | Refer to Revised issue of TNC | 01 | 10 |
| 560 | St. Andrew Square - Omit £0.7m of repairs to road surface finishing | -700,000 | 0 | -700,000 | -700,000 | 0 | | 01 | 08 |

CEC01890161_0072

Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-01 - Rev 0 - 27/04/2012

Page 9 of 17

Infraco Cost Report Section 3B - Change in Progress - Schedule 45

| TNC No. | Description | In Progress | Certified | Total Forecast | Previous Period | Change from Previous Period | Notes | Section Code | Change Code |
|--------------|--|-----------------|------------------|----------------|-----------------|-----------------------------|--|--------------|-------------|
| 570 | Omit the Removal of Trees in Shandwick Place | -9,066 | 0 | -9,066 | -9,066 | 0 | | 01 | 08 |
| 579 | Removal of embargo and revised traffic management | 0 | 0 | 0 | 0 | 0 | Change resulting from value engineering exercise | 01 | 07 |
| 583 | Ordering setts for on street works | 0 | 0 | 0 | 0 | 0 | Assume any cost is funded by CEC | 01 | 08 |
| 584 | Road Reconstruction specification | 0 | 0 | 0 | 0 | 0 | Change resulting from value engineering exercise | 01 | 08 |
| 588 | Stafford St Return of Parking Spaces | 0 | 0 | 0 | 0 | 0 | | 01 | 08 |
| 590 | New cycleway from The Mound into Princes Street | 20,000 | 0 | 20,000 | 70,000 | -50,000 | | 01 | 08 |
| 596 | Section 1D - Utilities clashing with manhole 1D/NO4/03 | 0 | 12,626 | 12,626 | 20,000 | -7,374 | | 01 | 08 |
| 598 | Section 1D - Incorporate geotextile liner into Clifton Terrace void in accordance with requirements from Archaeologist | 1,740 | 1,760 | 3,500 | 3,500 | 0 | | 01 | 08 |
| 600 | Shandwick place - OLE bases affecting utilities (Piling) | 182,197 | 136,899 | 319,096 | 135,155 | 183,941 | | 01 | 08 |
| 604 | St Andrew Sq - OLE bases affecting utilities (Piling) | 8,665 | 58,202 | 66,867 | 59,275 | 7,593 | | 01 | 08 |
| 606 | York Place - Waverley Bridge - Works Delayed and disrupted as a result of works carried out by Third parties | 20,124 | 6,148 | 26,272 | 0 | 26,272 | | 01 | 08 |
| 607 | Delete 110v sockets on On Street Tram Stops | -4,500 | 0 | -4,500 | 0 | -4,500 | Assume £1.5k per tram stop. Awaiting estimate | 01 | 08 |
| 611 | Excavation of Track Slab to be carried out by McNicholas | 0 | 0 | 0 | 0 | 0 | Refer to Anticipated change section for costs | 01 | 08 |
| 612 | Tram stops branding changes. Requirement for etched glass to be confirmed (cost excluded) | 0 | 0 | 0 | 0 | 0 | Value TBC | 00 | 08 |
| 614 | Rothesay Place Traffic Management Amendment | 10,000 | 0 | 10,000 | 0 | 10,000 | | 01 | 08 |
| Total | | -333,570 | 1,204,195 | 870,625 | 708,046 | 162,579 | | | |

CEC01890161_0073

Infraco Cost Report Section 4 - Anticipated Change

| TNC No. | Description | Forecast Amount | Previous Period | Change from Previous Period | Notes | Section Code | Change Code |
|---------|--|-----------------|-----------------|-----------------------------|--|--------------|-------------|
| 1 | Pricing Assumptions - 6.4.2.1 Floating Track Slab | 980,000 | 980,000 | 0 | Verbal advice from Siemens and Bilfinger Berger of cost of providing floating slab at all locations identified. Potential opportunity to reduce if marginal locations are omitted. Subject to final report from BBS. | 01 | 08 |
| 2 | Pricing Assumptions - 6.4.2.3 York Place Terminal Point | 944,000 | 944,000 | 0 | Excludes design costs (in change section of report) and sheet piling work to strengthen basement (included in risk allowance). | 01 | 08 |
| 3 | Pricing Assumptions - 6.4.2.4 Cathedral Lane Substation | 250,000 | 600,000 | -350,000 | This allowance is for the extra over cost included in the contract for construction of the new tram substation only. There is no allowance for any works in constructing Henderson Global's substation. Design work is included in TNC 509 | 01 | 08 |
| 4 | Pricing Assumptions - 6.4.2.6 Dublin Street | 50,000 | 50,000 | 0 | Excludes piling if required. | 01 | 08 |
| 6 | Track Lowering - bridging trackform over utilities in St Andrew Square | 500,000 | 500,000 | 0 | | 01 | 08 |
| 7 | Piled OLE base in lieu of utility diversion | 165,000 | 360,000 | -195,000 | Total of 49 piles. Awaiting on street estimates from BBS to confirm value. Original estimate value £750k. Reduced for piles completed and included within the On Street change in progress section. | 01 | 08 |
| 10 | Settlement Agreement exclusions not included elsewhere | 404,378 | 404,378 | 0 | Refer to Schedule E, items 7,8,10,11,12,14. 6 removed - now included in change in progress | 01 | 08 |
| 12 | H1 delay costs associated with utilities | 0 | 847,000 | -847,000 | Wider working areas and rev 4c programme shows completion in advance of rev 4 contract dates | 01 | 02 |
| 13 | Delayed commencement to St Andrew Square (from 7/2/12) | 0 | 636,000 | -636,000 | Wider working areas and rev 4c programme shows completion in advance of rev 4 contract dates | 01 | 02 |
| 14 | Roseburn Delta - non DDA footpath | 30,000 | 300,000 | -270,000 | No design required. Temporary footpath alignment to be agreed on site. Potential modifications to surface water drainage resulting from revised earthworks and Scottish Water approvals. | 05 | 08 |

Infraco Cost Report Section 4 - Anticipated Change

| TNC No. | Description | Forecast Amount | Previous Period | Change from Previous Period | Notes | Section Code | Change Code |
|--------------|---|------------------|------------------|-----------------------------|---|--------------|-------------|
| 15 | MUDFA Reinstatement - Hope Street / Lothian Road | 30,000 | 30,000 | 0 | CEC may undertake this work | 01 | 08 |
| 16 | Ongoing traffic management at Lindsay Road | 0 | 90,000 | -90,000 | Additional TM cost in excess of contract agreement - 6 months allowed at £15k per month. Now contained within tNC 609. | 01 | 08 |
| 20 | Further design changes to OLE resulting from utilities (York Place) | 50,000 | 200,000 | -150,000 | Initial value of £200k drawn down into tNCs | 01 | 08 |
| 21 | Sub station switching - Provision of competent resource to carry undertake sub-station switching and equipment monitoring. Allowed for 20 weeks | 0 | 25,000 | -25,000 | Costs associated with this work are now conytained within tNC 605 | 06 | 08 |
| 22 | Additional Siemens supervision as a result of accelerated programme rev 4C | 0 | 155,277 | -155,277 | Incorporated into rev 4c programme shared saving calculation. | 01 | 08 |
| 23 | Drainage redesign and amendments to numbers / depths of manholes, carrier drains / drainage connections. | 250,000 | 250,000 | 0 | Design £50k; deeper manholes / drainage £50k; BBS standing time / disruption £150k. Note McNicholas undertaking part of this work, therefore reallocation to utilities estimate is required. New drainage design reduces number of connections and drainage tracks, therefore full impact of omits and additions to be determined following conclusion of design. | 01 | 08 |
| 24 | Remove drainage from Infraco scope | | | 0 | Extent of add and omit to be agreed. Currently included in item 23 | 01 | 08 |
| 25 | Remove excavation of trackbox from Infraco's contract | -500,000 | | -500,000 | Value to be determined by detailed site measure and application of Schedule 45 rates. Quantification to be agreed with BBS. | 01 | 08 |
| 26 | Remove ducting in Cathedral Lane from Infraco's contract | -75,000 | | -75,000 | | 01 | 08 |
| Total | | 3,078,378 | 6,371,655 | -3,293,277 | | | |

CEC01890161_0075

Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-01 - Rev 0 - 27/04/2012

Infraco Cost Report Section 5 - Opportunities

| Ref No | Description | Approved Changes | Changes in Progress | Anticipated Changes | Contributions | Secured | To be secured | Total Opportunity | Value per CS report Jan 2012 | Notes |
|--------|---------------------------------------|------------------|---------------------|---------------------|---------------|------------|---------------|-------------------|------------------------------|---|
| 01 | Remove embargoes and revised TM | 0 | 0 | | 0 | 0 | -5,902,091 | -5,902,091 | -6,460,000 | Subject to completion of sections in advance of contract dates (22 week time saving assumed in the Rev 4C programme). Current master programme indicates 4 week saving as a result of York Place utilities. |
| 02 | Edinburgh Gateway | 0 | 0 | | -4,850,000 | -4,850,000 | 0 | -4,850,000 | 0 | Awaiting instruction from Transport Scotland |
| 03 | Setts (separate CEC budget) | 0 | 0 | | -1,000,000 | -1,000,000 | 0 | -1,000,000 | -1,000,000 | Funded by separate CEC budget (added to contributions register) |
| 04 | De-scope public realm at St Andrew Sq | 0 | -700,000 | | 0 | -700,000 | 0 | -700,000 | -700,000 | Instructed |
| 05 | Contributions 3rd Party Agreements | 0 | 0 | | -2,866,077 | -2,866,077 | 0 | -2,866,077 | -2,500,000 | Refer to contributions register |
| 06 | De-scope works at Forth Ports | -2,443,000 | 0 | | 0 | -2,443,000 | 0 | -2,443,000 | -2,450,000 | Instructed |
| 07 | Omit Airport Tram Kiosk and Canopy | -150,000 | 0 | | 0 | -150,000 | 0 | -150,000 | -150,000 | Approved, replacement materials t.b.c |
| 08 | Temporary tram stop at York Place | 0 | 0 | | 0 | 0 | -150,000 | -150,000 | -150,000 | Design optimisation |
| 09 | Redeployment of Trams | 0 | 0 | | 0 | 0 | 0 | 0 | -5,000,000 | Included in CEC budget code |
| 10 | Cancel track York Place to Newhaven | -1,100,000 | 0 | | 0 | -1,100,000 | 0 | -1,100,000 | -1,100,000 | Instructed |
| 11 | Omit Siemens works at Tower Place | -100,000 | 0 | | 0 | -100,000 | 0 | -100,000 | -100,000 | Instructed |
| 12 | Turner & Townsend / CEC resources | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | Ongoing |
| 13 | Shared recovery vehicle | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | Not taken forward |
| 14 | Road re-construction depth | 0 | 0 | | 0 | 0 | -700,000 | -700,000 | -700,000 | Principles instructed, saving subject to site conditions |
| 15 | Design freeze north of York Place | 0 | 0 | | 0 | 0 | 0 | 0 | -250,000 | Infraco design costs expended |
| 16 | Reduced requirement for storage | 0 | 0 | | 0 | 0 | 0 | 0 | -1,000,000 | Included in CEC budget code |
| 17 | Lay off TM at Forth Ports/Leith Walk | 0 | 0 | | 0 | 0 | 0 | 0 | -180,000 | TM not included in Infraco budget provision |
| 18 | Roseburn Viaduct Cladding | -308,004 | 0 | | 0 | -308,004 | 0 | -308,004 | -300,000 | Instructed |

Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-01 - Rev 0 - 27/04/2012

Infraco Cost Report Section 5 - Opportunities

| Ref No | Description | Approved Changes | Changes in Progress | Anticipated Changes | Contributions | Secured | To be secured | Total Opportunity | Value per CS report Jan 2012 | Notes |
|--------|-----------------------------|------------------|---------------------|---------------------|---------------|-------------|---------------|-------------------|------------------------------|------------|
| 19 | Delete Crew Relief Facility | 0 | -70,000 | | 0 | -70,000 | | -70,000 | | Instructed |
| Total | | -4,101,004 | -770,000 | 0 | -8,716,077 | -13,587,081 | -6,752,091 | -20,339,172 | -22,040,000 | |

CEC01890161_0077

Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-01 - Rev 0 - 27/04/2012

Page 14 of 17

Infraco Cost Report Section 6 - Credits & Contributions

| Ref No | Description | Included in Contract Sum | Approved Changes | Changes in Progress | Anticipated Changes | Total Forecast | Previous Period | Change from Previous | Contribution Received | Notes | Section Code | Change Code |
|--------------|--|--------------------------|------------------|---------------------|---------------------|------------------|------------------|----------------------|-----------------------|---|--------------|-------------|
| 01 | Edinburgh Gateway Feasibility | 860,000 | 82,995 | 0 | | 940,000 | 940,000 | 0 | 528,000 | £1.2m in total. Remainder of the costs included in CEC sections of the project budget. | 05 | 08 |
| 02 | New Ingliston Future Proof measures | 540,000 | 0 | 0 | | 540,000 | 540,000 | 0 | | This contribution will be offset by a land cost reported within the relevant section of the CEC cost report | 07 | 08 |
| 03 | Henderson Global - Cathedral Lane substation | 166,404 | 233,596 | 0 | | 400,000 | 246,549 | 153,451 | | Full extent of agreement with Henderson Global to be established. Allowance assumes all design costs and proportion of construction costs associated with future substation will be borne by Henderson Global. Cost of £470k has been submitted to Henderson Global | 01 | 08 |
| 04 | RBS Tramstop | 500,000 | 0 | 0 | | 500,000 | 500,000 | 0 | | Allowance included subject to final agreement with RBS | 07 | 08 |
| 05 | St Andrew Square Public Realm design | | 133,075 | 0 | | 133,075 | 133,075 | 0 | 133,000 | As per agreed change value. Assumed to be recovered from separate budget | 01 | 08 |
| 06 | Forth Ports | | 0 | 0 | | 0 | 0 | 0 | | Forth Ports work removed from scope - no further contribution from Forth Ports assumed | 01 | 08 |
| 07 | CEC Miscellaneous. Mainly George Street CEC costs (£298k) | 318,213 | 0 | 0 | | 318,213 | 318,213 | 0 | 318,213 | CEC finance have confirmed that a credit has been received in the amount shown. The extent of the workscope associated with this credit is not clear. | 01 | 08 |
| 08 | Network Rail - Haymarket station refurbishment | 0 | 13,000 | 0 | | 13,000 | 121,315 | -108,315 | | Majority of this work now being carried out by Network Rail. Remaining allowance for wall to crew relief facilities | 02 | 08 |
| 09 | Contribution from CEC for public realm work (granite setts) at St Andrews Square | 1,000,000 | 0 | 0 | | 1,000,000 | 1,000,000 | 0 | | No change in scope allowed for - setts funded by CEC | 01 | 08 |
| 10 | Network Rail - Scottish Power Cable diversion - Haymarket Station (TNC 591) | | 21,789 | 0 | | 21,789 | 50,000 | -28,211 | | | 05 | 08 |
| 11 | Edinburgh Gateway Construction | | 0 | 4,850,000 | | 4,850,000 | 4,850,000 | 0 | | | 05 | 08 |
| Total | | 3,384,617 | 484,455 | 4,850,000 | 0 | 8,716,077 | 8,699,152 | 16,925 | 979,213 | | | |

CEC01890161_0078

Reporting Period: 12-01 - Rev 0 - 27/04/2012

Infraco Cost Report Section 7 - Change Summary

| Change Code | Description | Approved Change | Change in Progress | Anticipated Change | Contributions | Total |
|--------------|---------------------------------|-------------------|--------------------|--------------------|-------------------|------------------|
| 01 | Scope Change | -1,653,380 | 4,939,000 | -515,000 | | 2,770,620 |
| 02 | PAVs (Utilities, etc) | 321,661 | -229,070 | 3,593,378 | | 3,685,969 |
| 03 | Miscellaneous Client Risk Items | 10,000 | 210,000 | 0 | | 220,000 |
| 04 | Time Delay | 0 | 4,541,161 | 0 | | 4,541,161 |
| 05 | Project Contributions | 0 | 0 | 0 | -8,716,077 | -8,716,077 |
| Total | | -1,321,719 | 9,461,091 | 3,078,378 | -8,716,077 | 2,501,673 |

Notes:

Some CE's have costs which relate to more than one change code. In such instances they have been allocated to the predominant reason.

Infraco Cost Report Section 8 - Period Movement

| Ref No. | Description | Approved Off | Approved On | In Progress Off | In Progress On | Total |
|---------|---|--------------|-------------|-----------------|----------------|----------|
| 516 | Additional Water main requirement at Depot and Mini Test Track | 51,282 | | -51,282 | 0 | 0 |
| 534 | SP Insurance Ducts - Install Insurance ducts at various locations | 5,637 | | -5,637 | 0 | 0 |
| 543 | Haymarket H1 - Utilities affecting the construction of OHLE foundations | 0 | | 0 | -14,283 | -14,283 |
| 547 | Haymarket H1 - Third Party (McNicholas) affecting ability to progress the works | 0 | | 0 | 439 | 439 |
| 554 | St Andrew Square & Shandwick Place - Traffic Management Requirements | 0 | | 0 | 10,491 | 10,491 |
| 557 | Haymarket 1 - OLE Base Relocations (Design mods) | 0 | | 45,000 | 0 | 45,000 |
| 572 | Cathedral Lane Substation - Retaining Wall Design | 26,013 | | 0 | 0 | 26,013 |
| 575 | Haymarket Station - Take Down Viaduct Staircase and Parapet. TNC now withdrawn - Network Rail carrying out work | 0 | | -121,315 | 0 | -121,315 |
| 590 | New cycleway from The Mound into Princes Street | 0 | | 0 | -50,000 | -50,000 |
| 591 | Diversion of Scottish Power Cable at Haymarket Viaduct | 21,789 | | -50,000 | 0 | -28,211 |
| 595 | Haymarket Viaduct - Deletion of fitting out of Crew Relief Facility | 0 | | -70,000 | 0 | -70,000 |
| 596 | Section 1D - Utilities clashing with manhole 1D/NO4/03 | 0 | | 0 | -7,374 | -7,374 |
| 600 | Shandwick place - OLE bases affecting utilities (Piling) | 0 | | 0 | 183,941 | 183,941 |
| 604 | St Andrew Sq - OLE bases affecting utilities (Piling) | 0 | | 0 | 7,593 | 7,593 |
| 605 | Depot - Sub-Station Switching | 0 | | 80,000 | 0 | 80,000 |

Infraco Cost Report Section 8 - Period Movement

| Ref No. | Description | Approved Off | Approved On | In Progress Off | In Progress On | Total |
|---------------------------|--|----------------|-------------|-----------------|-------------------|-------------------|
| 606 | York Place - Waverley Bridge - Works Delayed and disrupted as a result of works carried out by Third parties | 0 | | 0 | 26,272 | 26,272 |
| 607 | Delete 110v sockets on On Street Tram Stops | 0 | | 0 | -4,500 | -4,500 |
| 608 | Delete 110v sockets on Off Street Tram Stops | 0 | | -16,500 | 0 | -16,500 |
| 609 | Traffic Management provision in section 1A | 0 | | 130,000 | 0 | 130,000 |
| 613 | Temporary Bus Station at St Andrew Square/Waterloo Place - design | 50,000 | | 0 | 0 | 50,000 |
| 614 | Rothesay Place Traffic Management Amendment | 0 | | 0 | 10,000 | 10,000 |
| 615 | Haymarket Viaduct - design wall for blocking off void under the bridge deck as a result of the crew relief facility being omitted | 3,000 | | 0 | 0 | 3,000 |
| 616 | Haymarket Viaduct - construct wall for blocking off void under the bridge deck as a result of the crew relief facility being omitted | 10,000 | | 0 | 0 | 10,000 |
| Total | | 167,720 | 0 | -59,733 | 162,579 | 270,566 |
| Anticipated Change | | | | -295,000 | -2,998,277 | -3,293,277 |
| Opportunities | | | | | 557,909 | 557,909 |
| Movement | | 167,720 | 0 | -354,733 | -2,277,789 | -2,464,802 |

CEC01890161_0081

Edinburgh Trams
City of Edinburgh Council



Reporting Period: 12-01 - Rev 0 - 27/04/2012

Utilities Cost Report: Section 1 - Utilities Summary

| | Budget Information | | | Committed | | | Forecast | | | | | Third Party Contributions | | Variance | | Actuals | |
|-----------------------------|--------------------|------------------|----------------|-------------------------|---------------------------|------------------------|---------------------|--------------------|---------------|------------------|------------------------|------------------------------|--------------------------------|-------------------------|---------------------|-------------------|--------------------|
| | A | B | C = A + B | D | E | F = D + E | G | H | I | J | K = F + G + H + I + J | L | M = K-L | N = M - C | O = M / C - 1 | P | Q |
| | Original Budget | Budget Variation | Current Budget | Original Contract Value | Approved Contract Changes | Current Contract Value | Changes in Progress | Anticipated Change | Opportunities | Risk / Provision | Anticipated Final Cost | Estimated Contribution Value | Anticipated Final Project Cost | Budget Variance (Value) | Budget Variance (%) | Cost of Work Done | Outstanding Amount |
| Post Settlement Utilities | 2,912 | 4,861 | 7,773 | 2,912 | 4,861 | 7,773 | 0 | 10,839 | 0 | 0 | 18,612 | 0 | 18,612 | 10,839 | 139.4% | 5,032 | 2,741 |
| McNicholas | 1,812 | 4,763 | 6,575 | 1,812 | 4,763 | 6,575 | 0 | 5,747 | 0 | 0 | 12,322 | 0 | 12,322 | 5,747 | 87.4% | 4,147 | 2,428 |
| 01 Conflicts | 1,812 | 2,547 | 4,359 | 1,812 | 2,547 | 4,359 | | 2,822 | | | 7,181 | | 7,181 | 2,822 | 64.7% | 3,020 | 1,339 |
| 01A Drainage | | 444 | 444 | | 444 | 444 | | 353 | | | 797 | | 797 | 353 | 79.5% | 14 | 430 |
| 02 Legacy Works | | 500 | 500 | | 500 | 500 | | 754 | | | 1,254 | | 1,254 | 754 | 150.8% | 404 | 96 |
| 03 Standby Team | | 0 | 0 | | 0 | 0 | | 0 | | | 0 | | 0 | 0 | | 0 | 0 |
| 04 Management Team | | 549 | 549 | | 549 | 549 | | 898 | | | 1,447 | | 1,447 | 898 | 163.6% | 356 | 193 |
| 05 Design Team | | 692 | 692 | | 692 | 692 | | 872 | | | 1,564 | | 1,564 | 872 | 126.0% | 334 | 358 |
| 06 Accomodation | | 31 | 31 | | 31 | 31 | | 48 | | | 79 | | 79 | 48 | 154.8% | 19 | 12 |
| Statutory Utility Companies | 0 | 1,198 | 1,198 | 0 | 1,198 | 1,198 | 0 | 2,392 | 0 | 0 | 3,590 | 0 | 3,590 | 2,392 | 199.7% | 885 | 313 |
| 01 Scottish Power | | 126 | 126 | | 126 | 126 | | 273 | | | 399 | | 399 | 273 | 216.7% | 73 | 53 |
| 02 Scottish Gas Networks | | 55 | 55 | | 55 | 55 | | 189 | | | 244 | | 244 | 189 | 343.6% | 20 | 35 |
| 03 Scottish Water | | 505 | 505 | | 505 | 505 | | 1,011 | | | 1,516 | | 1,516 | 1,011 | 200.2% | 440 | 65 |
| 04 Virgin Media | | 104 | 104 | | 104 | 104 | | 208 | | | 312 | | 312 | 208 | 200.0% | 80 | 24 |
| 05 Verizon | | 20 | 20 | | 20 | 20 | | 0 | | | 20 | | 20 | 0 | 0.0% | 0 | 20 |
| 06 Cable & Wireless | | 49 | 49 | | 49 | 49 | | 143 | | | 192 | | 192 | 143 | 291.8% | 30 | 19 |
| 07 Fibrenet | | 250 | 250 | | 250 | 250 | | -56 | | | 194 | | 194 | -56 | -22.4% | 194 | 56 |
| 08 BT | | 89 | 89 | | 89 | 89 | | 604 | | | 693 | | 693 | 604 | 678.7% | 45 | 44 |
| 09 Siemens | | 0 | 0 | | 0 | 0 | | 20 | | | 20 | | 20 | 20 | | 3 | -3 |
| 00 Legacy Works | 1,100 | -1,100 | 0 | 1,100 | -1,100 | 0 | | 2,700 | | | 2,700 | | 2,700 | 2,700 | | 0 | 0 |

Comments:
All values are in £k.
Conflict resolution forecast to complete based resourced schedule.
Legacy works forecast based on current budget. Work is ongoing to establish the full scope.

Risk
Refer to Risk register for risks identified against McNicholas programme
All risk is held at programme level. This section of the cost report makes no allowance for risk.
Refer to the outputs of the QCRA/QSRA for further information on

Actions
Full forecast of legacy scope of works to be carried out once scope is properly defined.

CEC01890161_0083

Appendix 4 – Change Log

| TNC No. | PMC No. | TCO No. | Location | Description | Reason For Change | On Street / Off Street | Clause 80 / Schedule 45 Instruction | T&T Change Owner | Change Category D/C/UC/CR/SR | Budget Cost for Risk and Potential Changes | Date TNC Issued | Letter Ref | Date Estimate Due | Date Estimate Received | Estimate Change Value (£ Design) | Estimate Change Value (£ Construction) | Time Implications | Date Issued to CEC | Approved BY CEC/T&T | Date Approved or Rejected | Agreed Cost for Approved Contract Changes | Date TCO Issued | Comments | |
|---------|---------|---------|---------------------------------------|---|--|------------------------|-------------------------------------|------------------|------------------------------|--|--|--------------------------------|-------------------|------------------------|--------------------------------------|--|-------------------|--------------------|---------------------|---------------------------|---|-----------------|--|---------------------------------------|
| 501 | 001 | 502 | Hawthornvale Cycle Link | Change the design to widen the footway alongside the south side of Lindsay Road | Historic Post Mediation Change | On Street | Clause 80 | AS/GMG | C/R | N/A | 21/06/2011 | INF CORR 7787 | N/A | 05/08/2011 | £20,020.51 | £0.00 | | 19/10/2011 | CEC | 20/10/2011 | £20,020.51 | 24/10/2011 | Previously PWTN001 | |
| 502 | 002 | 508 | Ocean Drive Footway | Amend the design of Ocean Drive to reinstate the footpath to the north of Ocean Drive | Historic Post Mediation Change | On Street | Clause 80 | AS/GMG | C/R | | 21/06/2011 | INF CORR 7786 | N/A | 15/08/2011 | £10,230.82 | £0.00 | | N/A | T&T | 26/10/2011 | £10,230.82 | 26/10/2011 | Previously PWTN002 | |
| 503 | 003 | 515 | Depot Access Bridge | Amend the design of the OLE at the Depot Access Bridge to enable construction of the Depot | Historic Post Mediation Change | Off Street | Clause 80 | AS/GMG | C/R | | 21/06/2011 | INF CORR 7785 | N/A | 04/08/2011 | £69,223.43 | £0.00 | | 24/11/2011 | CEC | 30/11/2011 | £67,646.03 | 30/11/2011 | Previously PWTN003 | |
| 504 | 004 | 506 | Blenheim Place | Review of the banned right turn into Blenheim Place as part of the design for Section 1C2 roads | Historic Post Mediation Change | On Street | Clause 80 | AS/GMG | C/R | | 21/06/2011 | INF CORR 7788 | N/A | 05/08/2011 | £46,247.09 | £0.00 | | 19/10/2011 | CEC | 20/10/2011 | £46,247.09 | 24/10/2011 | Previously PWTN004 | |
| 505 | 005 | 513 | York Place Terminal Point | Production of a feasibility report, initial feasibility design for option ii), run time modelling etc | Historic Post Mediation Change | On Street | Clause 80 | AS/GMG | C/R | | 20/07/2011 | INF CORR 7817 | 15/08/2011 | 19/10/2011 | £228,652.80 | £0.00 | | 24/11/2011 | CEC | 24/11/2011 | £228,652.80 | 25/11/2011 | Previously PWTN005 | |
| 506 | 006 | 503 | The Mound | Design for providing a new cycleway from the Mound to Princes Street | Historic Post Mediation Change | On Street | Clause 80 | AS/GMG | C/R | | 21/06/2011 | INF CORR 7789 | N/A | 05/08/2011 | £9,436.93 | £0.00 | | 19/10/2011 | CEC | 20/10/2011 | £9,436.93 | 24/10/2011 | Previously PWTN006 | |
| 506.1 | 006 | 503.1 | The Mound | Design for providing a new cycleway from the Mound to Princes Street | Historic Post Mediation Change | On Street | Clause 80 | IAW | C/R | | 21/06/2011 | INF CORR 7789 | N/A | 23/01/2012 | £1,668.71 | £0.00 | | 30/01/2012 | CEC | 03/02/2012 | £1,668.71 | 30/01/2012 | Additional to tCO 503 | |
| 507 | 007 | 504 | St Andrew Square | Provide a clarification report and completion of the St Andrew Square Public Realm design | Historic Post Mediation Change | On Street | Clause 80 | AS/GMG | C/R | | 21/06/2011 | INF CORR 7790 | N/A | 23/08/2011 | £133,075.48 | £0.00 | | 19/10/2011 | CEC | 20/10/2011 | £133,075.48 | 24/10/2011 | Previously PWTN007 - tCO 504 Rev A issued 15/12/11. | |
| 507.1 | 007 | | St Andrew Square | Design completion information to reflect input from informal consultation with CEC | Design for future use by CEC | On Street | Clause 80 | RL | C/R | | 29/03/2012 | INF CORR 8219 | 26/04/2012 | | | | | 04/04/2012 | CEC | 04/04/2012 | | | NOTE RETURN DATE OF ESTIMATE OF 26TH APRIL | |
| 508 | 013 | 507 | Eastfield Avenue | Obtain EAL approval for the highways design drawings at Eastfield Avenue tram crossing | Historic Post Mediation Change | Off Street | Clause 80 | AS/GMG | D/C | | 11/07/2011 | INF CORR 7804 | 04/08/2011 | 05/08/2011 | £10,025.09 | £0.00 | | 19/10/2011 | CEC | 20/10/2011 | £10,025.09 | 24/10/2011 | Previously PWTN008 | |
| 509 | 008 | 519 | Cathedral Lane Substation | Design of Cathedral Lane Substation | Historic Post Mediation Change | On Street | Clause 80 | AS/GMG | | | 12/07/2011 | INF CORR 7799 | 02/08/2011 | 09/11/2011 | £233,595.67 | £0.00 | | 13/12/2011 | CEC | 15/12/2011 | £233,595.67 | 15/12/2011 | Previously PWTN009 - Instructed to proceed in TNC letter but awaiting CEC approval to issue tCO | |
| 510 | 011 | | Murrayfield | Murrayfield Accommodation Works | Change Withdrawn | | | | | | | | | | | | | | | | | | Withdrawn | |
| 511 | 010 | 511 | Gogar Lane | Storm Water Connection from Gogar Lodge to the landowners new septic tank | Historic Post Mediation Change | Off Street | Clause 80 | AS/GMG | C/R | | 13/07/2011 | INF CORR 7815 | N/A | 14/11/2011 | £5,850.29 | | | N/A | T&T | 21/11/2011 | £5,750.46 | 21/11/2011 | Previously PWTN011 | |
| 512 | 012 | 505 | Ocean Terminal | Re-design of Ocean Terminal Bypass Road | Historic Post Mediation Change | On Street | Clause 80 | AS/GMG | | | 13/07/2011 | INF CORR 7814 | N/A | 29/08/2011 | £53,685.15 | £0.00 | | 19/10/2011 | CEC | 20/10/2011 | £53,685.15 | 24/10/2011 | Previously PWTN012 - tCO 505 Rev A issued 24/02/12, signed TCO returned by BBS 9/03/12 | |
| 513 | 015 | 526 | Various | Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes | Historic Post Mediation Change | On Street | Clause 80 | RL | D/C | £400,000.00 | 20/07/2011 07/09/2011 (A&B) 30/09/2011 (C&D) | INF CORR 7818 INF CORR 7895 | Various | 09/11/11 | £43,547.07 | | | 15/12/2011 | CEC | 21/12/2011 | £156,870.49 | 06/01/2012 | Previously PWTN013 - Estimates Outstanding for 13 and being reviewed for A&B and C&D, tCO 526A issued 20/02/12 for design works (covers A,B,C,D) | |
| 513.1 | 015 | 526 | Various | Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes | Historic Post Mediation Change | On Street | Schedule 45 | RL | D/C | | 30/09/2011 (E) | OSW.004 | Various | N/A | N/A | | | 15/12/2011 | | | | N/A | 13E is now a PAV being actioned under Schedule Part 45 tCO526A issued 20/02/12 for design works | |
| 514 | 016 | 554 | Various | Utility Mapping | Historic Post Mediation Change | On Street | | AS/GMG | | | 22/07/2011 | INF CORR 7825 | 17/08/2011 | 16/12/2011 | £92,756.07 | | | 27/02/2012 | CEC | 27/02/2012 | £92,756.07 | 29/02/2012 | AGREED | |
| 515 | 014 | | Edinburgh Gateway | Edinburgh Gateway 33kV Cable Protection | Historic Post Mediation Change | Off Street | | AS/GMG | | | 02/08/2011 | INF CORR 7828 | 02/12/2011 | | Costs included in TNC-531 | | | | | | | N/A | Previously PWTN015 - Instructed to proceed in TNC letter. NOW SUPERSEDED BY TNC 531. | |
| 516 | 017 | 565 | Depot & Mini Test Track | Additional Watermain requirement at Depot and Mini Test Track | Historic Post Mediation Change | Off Street | Clause 80 | AS/GMG | | | 08/09/2011 | INF CORR 7893 | 09/12/2011 | 13/12/2011 | £0.00 | £51,281.72 | N/A | 16/04/2012 | CEC | 24/04/2012 | £51,281.72 | | TNC VALUE AGREED, TCO RAISED & APPROVED CEC | |
| 517 | 018 | 539 | Depot & Mini Test Track | Additional BT Ducts at Depot and Mini Test Track | Historic Post Mediation Change | Off Street | Clause 80 | AS/GMG | | | 08/09/2011 | INF CORR 7894 | 09/12/2011 | 13/12/2011 | £0.00 | £3,208.66 | | | T&T | | £2,995.95 | 16/01/2012 | Previously PWTN016 - Instructed to proceed in TNC letter | |
| 518 | | | The Mound | Design & installation of a new cycleway through the Mound / Hanover Street junction - SEE TNC 506 (WITHDRAWN) | | On Street | | | | | 09/09/2011 | | | | | | | | | | | | Previously PWTN018 - Withdrawn (Duplicates 506) | |
| 519 | | | York Place | Design of a temporary tram stop in York Place (WITHDRAWN) | | On Street | | | | | 09/09/2011 | | | | | | | | | | | | Previously PWTN019 - Withdrawn (Duplicates 505) | |
| 520 | 009 | 553 | Depot | Valve chamber access and alteration works to 800mm water main at the Depot | Historic Post Mediation Change | Off Street | Clause 80 | AS/GMG | | | 18/05/2011 | INF CORR 7729 | 13/06/2011 | 24/10/2011 | £105,786.20 | | | 16/02/2012 | CEC | 20/02/2012 | £105,326.16 | 28/02/2012 | Previously TNC-137. Estimate reviewed and issued back to BBS with comments, signed TCO returned by BBS 9/03/12 | |
| 521 | 028 | | Haymarket | Temporary Accommodation | To provide accommodation for McNicholas | On Street | Schedule 45 | RL | | £2,876.75 | 07/10/2011 | INF CORR 7926 | 01/11/2011 | 14/11/2011 | N/A | £4,917.00 | | | T&T | 07/10/2011 | | N/A | | |
| 522 | 029 | N/A | Haymarket 1 | Road Reconstruction | | On Street | Schedule 45 | KM/RL | | £539,611.57 | 07/10/2011 | INF CORR 7927 | 02/11/2011 | | | | | 07/10/2011 | CEC | 07/10/2011 | | N/A | RL/IW - RE ISSUE AS REV A ONCE ON STREET TNC 584 FOR ALL ON STREET RAISED | |
| 523 | 030 | | Haymarket 1 | Additional CBR / Plate Testing | | On Street | Schedule 45 | SL | | £10,000.00 | 07/10/2011 | INF CORR 7928 | 02/11/2011 | | Costs included in site investigation | | | | | | | N/A | £300 included in PMC 025, TRANSFER TO 522 FOR ROAD RE-CONSTRUCTION | |
| 524 | 019 | | Airport to Gyle | NIL Design Finalisation (also includes Construction) | | Off Street | Clause 80 | AS/GMG | | £30,000.00 | 30/09/2011 | INF CORR 7905 | 20/01/2012 | | | | | | | | | N/A | NOTE - SDS PLANNED SUBMISSION DATE 23.4.12 SUPERSEDED BY 525.1. | |
| 525 | 026 | | Airport to Gyle | Site Access for Remedial Works | | Off Street | Clause 80 | AS/GMG | | £50,000.00 | 30/09/2011 | INF CORR 7906 | 26/10/2011 | N/A | N/A | | | | | | | N/A | SEE TNC 576 FOR UPDATE | |
| 525.1 | 026 | | Airport to Gyle | Site Access for Remedial Works | | Off Street | Clause 80 | AS/GMG | | £50,000.00 | 22/11/2011 | INF CORR 7978 | 23/01/2012 | | | | | | | | | N/A | | |
| 526 | 027 | 518 | Airport to Gyle | Tram Delivery Temporary Works | | Off Street | Clause 80 | AS/GMG | | | 07/10/2011 | INF CORR 7918 | 02/11/2011 | 14/11/2011 | N/A | £6,940.24 | | | T&T | 08/12/2011 | £6,878.44 | 12/12/2011 | | |
| 527 | | | Ingliston | Reimbursement of Costs paid directly to SGN for the diversion of approximately 120m of 10" steel IP gas main to accommodate the new Edinburgh Tram at Ingliston | | Off Street | Clause 80 | AS/GMG | C/R | | | | | | | | | | | | | | GE - AGREE COSTS WITH BBS, ISSUE TNC/TCO | |
| 528 | 037 | 501 | Haymarket 1 | Slit trench excavation to validate utilities | | On Street | Schedule 45 | SL | U/C | £1,345.00 | 18/10/2011 | INF CORR 7923 | 11/11/2011 | | | £10,000.00 | | | T&T | 19/10/2011 | | 19/10/2011 | | |
| 529 | 022 | 524.1 | Section 5C - Gogar Castle Access Road | Design Gogar Castle Access Road tram crossing and approaches | | Off Street | Clause 80 | AS/GMG | C/R | | 26/10/2011 | INF CORR 7944 | 21/11/2011 | 15/11/2011 | £39,401.86 | £22,728.57 | | 15/12/2011 | CEC | 16/12/2011 | £31,308.00 | 17/01/2012 | Previously issued as TNC 129 | |
| 530 | 023 | 525 | Section 6 - Depot Access Road | Amend the design of the Depot Road turning head as per RDC191 Option 2 | | Off Street | Clause 80 | AS/GMG | C/R | | 27/10/2011 | INF CORR 7949 | 22/11/2011 | 18/10/2011 | £30,458.40 | N/A | | N/A | T&T | | £30,458.40 | 15/12/2011 | Previously issued as TNC 130 | |
| 531 | 014 | 532 | Edinburgh Gateway | Advance Temporary Works design | Early implementation of the temporary works will enable the RTW works to commence as soon as the | Off Street | Clause 80 | AS/GMG | D/C | | 28/10/2011 | INF CORR 7951 | 09/12/2011 | 07/12/2011 | N/A | £790,185.14 | | | TS | 21/12/2011 | £9,349.00 | 21/12/2011 | Works requested and cost approved by Transport Scotland | |
| 532 | | | Princes Street | Temporary traffic management design - WITHDRAWN | | On Street | | | C/R | | | | | | | | | | | | | N/A | Withdrawn | |
| 533 | 040 | | Princes Street | 500mm Water Main Diversion | To divert the water main from an OLE base | On Street | N/A | MO/RL | U/C | | 31/10/2011 | INF CORR 7952 | 28/10/2011 | | £40,844.00 | | | 28/10/2011 | CEC | 31/10/2011 | | N/A | Approval AC/TH e-mail - Superseded by TNC 535 | |
| 534 | 041 | 556 | SP Insurance Ducts | Install Insurance ducts at locations and in formations and sizes as specified | | Off Street | Clause 80 | AS/GMG | | £10,885.00 | 31/10/2011 | INF CORR 7953 | 28/10/2011 | | | | | | | | | | N/A | W/GE - FURTHER CLARIFICATION REQUIRED |
| 535 | 040 | | Princes Street | 500mm Water Main Diversion - rev 3 dwg | See TNC 533 | On Street | Schedule 45 | MO/RL | S/R | | 07/11/2011 | INF CORR 7962 | 29/11/2011 | | | | | 08/11/2011 | T&T | | | N/A | Replaces TNC 533 | |
| 536 | 049 | 517 | System Wide | Tramstop Cabinets - reduction in 10 years maintenance liability | To meet cooling/heating reqts, cabinets to be IP 55 in lieu of IP45 | Off Street | Clause 80 | LM | | £6,081.42 | 09/11/2011 | INF CORR 7959 | 05/12/2011 | | | | | 08/11/2011 | T&T | 07/12/2011 | £0.00 | 08/12/2011 | | |
| 537 | | | Haymarket 1 | Additional visit of Tar planer to facilitate slewing of BT ducts - WITHDRAWN | | | | | | | | | | | | | | | | | | | Withdrawn | |
| 538 | 048 | 520 | Depot | Tram wash Continuous Mode - Requirement for additional hand lances washers | The tram wash continuous mode may leave a small residual area to be cleaned | Off Street | Clause 80 | GMG | C/R | £0.00 | | | | | | | | | T&T | 13/12/2011 | £0.00 | 13/12/2011 | Previously issued as TNC 118 and TNC 118A. Cost neutral as any savings / costs are included in the Settlement Agreement | |
| 538.1 | 048 | 520.1 | Depot | Tram wash Continuous Mode - Requirement for additional hand lances washers | The tram wash continuous mode may leave a small residual area to be cleaned | Off Street | Clause 80 | GMG | C/R | £0.00 | | | | | | | | | T&T | 12/01/2012 | £0.00 | 12/01/2012 | Previously issued as TNC 118 and TNC 118A. Cost neutral as any savings / costs are included in the Settlement Agreement | |
| 539 | 020 | 529 | System Wide | Delay in signing - impact on commencement and completion | | Off Street | Clause 80 | GE | | | 21/12/2011 | INF CORR 8051 | N/A | 28/10/2011 | £4,759,000.00 | | | 28/10/2011 | CS | 21/12/2011 | | 21/12/2011 | Cost still to be determined by Colin Smith | |
| 540 | 042 | 509 | Section 7 - Plot 304 | Omit Landscaping works | Change in Requirements for landscape works | Off Street | Clause 80 | AS/GMG | C/R | £182,953.61 | 14/11/2011 | INF CORR 7972 | 08/12/2011 | 15/12/2011 | | £199,457.70 | | | CEC | 03/02/2012 | £201,119.67 | 14/11/2011 | TCO issued under Clause 80.15 and updated with tCO509A | |
| 541 | 021 | | Princes Street | City Chamber - Annandale Street Communication Links. Usage of CEC available BT Lines to avoid provision of direct FO link from Princes Street to City Chambers | | On Street | Clause 80 | RL | C/R | | 12/01/2012 | INF CORR 8059 | 06/02/2012 | | | | | | | | | N/A | Confirmation received from CEC that changes to the Employers Requirements are acceptable IW - RE VISIT, AGREE & RAISE TCO | |
| 542 | 024 | | Old Port Road | Design of new Cycle Path - WITHDRAWN | | On Street | Clause 80 | | | | | | | | | | | | | | | | | |

| TMC No. | PMC No. | TCO No. | Location | Description | Reason for Change | On Street / Off Street | Change Category | Budget Cost for Risk and Potential Changes | Date TMC Issued | Letter Ref | Estimate Due | Date Estimate Received | Estimate Change Value (£neg) | Estimate Change Value (£pos) | Time Implications | Dates Issued to CEC | Approved by CEC/88 | Dates Approved or Rejected | Agreed Cost for Approved Contract Changes | Date TCO Issued | Comments | |
|---------|---------|-----------|-------------------------------------|--|--|------------------------|-----------------|--|-----------------|---------------|-------------------|------------------------|------------------------------|------------------------------|-------------------|---------------------|--------------------|----------------------------|---|---|---|--|
| 543 | 045 | 510/521.1 | Princes Street | Amend the design of the St. Johns Church OLE bases | To avoid conflict with services | On Street | U/C | £5,000.00 | 21/11/2011 | INF CORR 7980 | 13/12/2011 | | | | N/A | T&T | 21/11/2011 | | 21/11/2011 | COSTS NOW COLLATED AGAINST TCO 521 B | | |
| 550 | 045 | 514/521.1 | Shandwick Place | Shandwick OLE & Landscape Design Revision | A number of utility conflicts that can be addressed by utilising a piped solution. | On Street | U/C | £10,000.00 | 23/11/2011 | INF CORR 0025 | 19/12/2011 | | | | N/A | T&T | 23/11/2011 | | 23/11/2011 | COSTS NOW COLLATED AGAINST TCO 521 B | | |
| 551 | 043 | N/A | Princes Street | 2011 Christmas Embargo - Temporary Surfacing of Track Infills | To allow Princes Street to be opened to pedestrians | On Street | PAV | £300,000.00 | N/A | N/A | N/A | | | | | | | | N/A | Princip Assumption Variation | | |
| 552 | 044 | N/A | Princes Street | BT diversion @ Junction of Princes Street and South St. David Street | | On Street | PAV | £40,000.00 | | | | | | | | | | | N/A | Princip Assumption Variation | | |
| 553 | 048 | 516 | Site Wide | SOS to provide the services of Matt Fell until end March 2012 | To assist in the utilities design | On Street | U/C | £75,000.00 | 30/11/2011 | INF CORR 7959 | 26/12/2011 | | £53,130.85 | | | 02/02/2012 | CEC | 09/02/2012 | £53,130.85 | 30/11/2011 | | |
| 554 | 052 | | St. Andrew Square & Shandwick Place | Traffic Management Requirements | To facilitate early access | On Street | D/C | N/A | 17/12/2011 | INF CORR 7958 | N/A | | | | | 08/12/2011 | CEC | 08/12/2011 | N/A | | | |
| 555 | 045 | 523 | Haymarket | OLE 1988 design revision to add main sewer | To facilitate early access | On Street | D/C | £180,000.00 | 12/01/2012 | INF CORR 0166 | N/A | | | | | 08/12/2011 | CEC | 08/12/2011 | N/A | TMC Working Amended | | |
| 556 | | | York Place to Newhaven | Track Work Makers York Place to Newhaven - Price Fixing for Ghada City Canal D | To avoid conflict with sewer | On Street | U/C | | 13/12/2011 | INF CORR 0017 | N/A | | | | | 14/12/2011 | CEC | | 13/12/2011 | Princip Assumption Variation Confirmation of instruction given by Colin Smith and issued by letter to BBS | | |
| 557 | 045 | 521 | Haymarket 1 | OLE Base Relocations | Utility Clashes | On Street | U/C | £20,000.00 | 13/12/2011 | INF CORR 0016 | 06/01/2012 | | | | N/A | T&T | 13/12/2011 | | 13/12/2011 | ICO 521 issued with value E TBA | | |
| 557.1 | 045 | 521.1 | Haymarket 1 | OLE Base Relocations (Revised TCO to increase N/E Value) | Utility Clashes | On Street | U/C | £20,000.00 | 13/12/2011 | INF CORR 0016 | 06/01/2012 | | | | 27/02/2012 | CEC | 27/02/2012 | SEE 521.2 | 29/02/2012 | ICO 521 Rev A issued to increase N/E to E exceed £40k. Issued & approved CEC 27/2/12, returned signed by BBS 9/3/12 | | |
| 557.2 | 045 | 521.2 | Haymarket 1 | OLE Base Relocations (Revised TCO to increase N/E Value, and collate other TMC's to Cross Match with P/MC 45) | Utility Clashes | On Street | U/C | £60,000.00 | N/A - TCO | N/A | N/A | | | | 04/04/2012 | | 04/04/2012 | TBA | 05/04/2012 | TCO 521 Rev B ISSUED TO INCREASE NOT TO EXCEED TO £40K. ISSUED FOR BBS. AGREED FINAL COST. TMC 549, 550, 552 AND 543 AGAINST TCO 521. TO CROSS MATCH WITH BBS P/MC 45 | | |
| 558 | 051 | 522 | Site Wide | Provision of a CAD Technician | To progress VE proposals in relation to pavement re-construction | On Street | U/C | £5,000.00 | 13/12/2011 | INF CORR 0015 | 06/01/2012 | | | | | N/A | T&T | 13/12/2011 | | 13/12/2011 | ICO issued under Clause 80.15 and updated with TCO 522A issued 2nd Feb 2012 | |
| 558.1 | 051 | 522.1 | Site Wide | Provision of a CAD Technician | To progress VE proposals in relation to pavement re-construction | On Street | U/C | £5,000.00 | 13/12/2011 | INF CORR 0015 | 06/01/2012 | | £1,693.00 | | | N/A | T&T | 13/12/2011 | | 13/12/2011 | TCO ISSUED 3.2.12 AS N/EXCEED £ 56,498.11 | |
| 559 | 053 | 545 | York Place | Detailed Design of York Place Terminal | Terminal point excluded from the settlement | On Street | C/R | | 15/12/2011 | INF CORR 0033 | 10/01/2012 | | £56,498.11 | | | 02/02/2012 | CEC | 09/02/2012 | £56,498.11 | 09/02/2012 | | |
| 560 | 080 | N/A | St. Andrew Square | Omni E 0.7m of repairs to road surface finishing (Revision for Street and Traffic Lighting) | Value engineering initiative | On Street | C/R | £700,000.00 | 13/02/2012 | INF CORR 0137 | N/A - Schedule 45 | | | | | 05/02/2012 | CEC | 10/02/2012 | | N/A | OMIT WILL COME THROUGH SCHEDULE 45 PERIOD END PROCESS. MONITOR SEE ABOVE | |
| 560.1 | 080 | N/A | St. Andrew Square | Omni E 0.7m of repairs to road surface finishing (Revision for Street and Traffic Lighting) | Value engineering initiative | On Street | C/R | SEE ABOVE | 30/03/2012 | INF CORR 0221 | N/A - Schedule 45 | | | | | 04/04/2012 | CEC | 04/04/2012 | | N/A | Instructed by Colin Smith | |
| 561 | 059 | 528 | Forth Ports Area | Omni all works at the North Ports area | Works not required as part of this agreement | On Street | C/R | £2,445,000.00 | 21/12/2011 | INF CORR 0050 | 16/01/2012 | | | | | N/A | N/A | 20/12/2011 | | 20/12/2011 | COSTS NOW COLLATED AGAINST TCO 521 B | |
| 562 | 045 | 530/521.1 | On Street Generally | OLE Design Changes for On Street section (PMC 045) - SEMENS DESIGN WORKS | To accommodate reallocations of OLE bases due to the position of existing services | On Street | D/C | £20,000.00 | 09/01/2012 | INF CORR 0052 | 31/01/2012 | | | | | 20/12/2011 | CEC | 20/12/2011 | | 05/01/2012 | | |
| 563 | 045 | 534/521.2 | On Street Generally | Circular Pile Caps | It reduce the size of the pile cap and by default the local impact upon Millies, moreover it makes for Requested by Andy Conway of CEC | On Street | D/C | £5,000.00 | 21/12/2011 | INF CORR 0044 | 16/01/2012 | | | | | N/A | T&T | 09/01/2012 | | 09/01/2012 | COSTS NOW COLLATED AGAINST TCO 521 B | |
| 564 | 055 | N/A | On Street Generally | Worksite Modelling - TMC & TCO (531) WITHDRAWN 12.1.12 | Requested by Andy Conway of CEC | On Street | C/R | £10,000.00 | 21/12/2011 | INF CORR 0045 | 16/01/2011 | | | | | N/A | T&T | 21/12/2011 | | 21/12/2011 | Princip Assumption Variation | |
| 565 | 054 | 533 | Edinburgh Gateway | Advanced design works for Edinburgh Gateway Minimum Option | Works requested by Transport Scotland to assess and protect the current programme assumptions for both the Edinburgh Tram project and Edinburgh Gateway proposals | Off Street | C/R | £2,650.00 | 21/12/2011 | INF CORR 0048 | 16/01/2012 | | | | | | TS | 12/01/2012 | | 12/01/2012 | Works requested and cost approved by Transport Scotland | |
| 565.1 | 054 | 533.1 | Edinburgh Gateway | Advanced design works for Edinburgh Gateway Minimum Option | Works requested by Transport Scotland to assess and protect the current programme assumptions for both the Edinburgh Tram project and Edinburgh Gateway proposals | Off Street | C/R | £3,350.00 | | | | | | | | | | | 12/01/2012 | | Rev A issued 12/01/12 increasing value from £2,650 to £5,000 | |
| 565.2 | 054 | 533.2 | Edinburgh Gateway | Advanced design works for Edinburgh Gateway Minimum Option | Extension of above to cover additional design work | Off Street | C/R | N/A | | | | | | | | | | | 12/01/2012 | | Rev B issued amending the requirement | |
| 566 | 046 | 535 | On Street Generally | Ducting Design Changes Due to Utilities Conflicts | Reworking of TCO 533A to align with agreed scope - no additional value. | On Street | D/C | £10,000.00 | 12/01/2011 | INF CORR 0062 | N/A | | | | | T&T | 11/01/2012 | | 11/01/2012 | | | |
| 567 | 050 | 536 | On Street Generally | Drainage Design Changes Due to Utilities Conflicts | To prevent delay by providing a solution for potential utilities conflicts in advance | On Street | D/C | £10,000.00 | 12/01/2011 | INF CORR 0061 | N/A | | | | | | T&T | 11/01/2012 | | 11/01/2012 | | |
| 567.1 | 050 | 536.1 | On Street Generally | Drainage Design Changes Due to Utilities Conflicts | To prevent delay by providing a solution for potential utilities conflicts in advance | On Street | D/C | £40,000.00 | 12/01/2011 | INF CORR 0063 | N/A | | | | | | CEC | 16/04/2012 | | 16/04/2012 | TCO PAISED TO INCREASE NOT TO EXCEED VALUE TO £ 50,000.00 - ON HOLD | |
| 568 | 047 | 537 | On Street Generally | Design changes due to Trackform conflicts | To prevent delay by providing a solution for potential utilities conflicts in advance | On Street | D/C | £20,000.00 | 12/01/2011 | INF CORR 0064 | N/A | | | | | | T&T | 11/01/2012 | | 11/01/2012 | TCO PAISED TO INCREASE NOT TO EXCEED VALUE TO £ 30,000.00 | |
| 568.1 | 047 | 537.1 | On Street Generally | Design changes due to Trackform conflicts | To prevent delay by providing a solution for potential utilities conflicts in advance | On Street | D/C | £79,200.00 | 11/01/2011 | INF CORR 0064 | N/A | | | | | | CS | 31/10/2011 | | 11/01/2011 | Approved by Colin Smith | |
| 569 | 057 | 538 | Edinburgh Park | Additional Running Coats associated with the extension to the Edinburgh Park offices | To provide services for the office extension instructed under TMC 544 and TCO 512 | Off Street | C/R | £79,200.00 | 11/01/2011 | INF CORR 0064 | N/A | | | | | | | | 11/01/2011 | | REV - H MUNRO TASKED WITH GETTING AGREEMENT FOR OSWE | |
| 570 | 058 | N/A | Shandwick Place | Omit the Removal of Trees in Shandwick Place | It is considered more expedient for the contractor that is currently working in the area carrying out similar works to undertake the works currently contracted to BBS also. | On Street | D/C | £9,100.00 | 12/01/2012 | INF CORR 0065 | | | | | | | T&T | | | | REVISED TMC NOW ISSUED | |
| 571 | 064 | | Hops Street | Hops Street Junction Design | Legacy works following MUDFA | On Street | C/R | £5,000.00 | 13/02/2012 | INF CORR 0089 | 13/02/2012 | | | | | | | | 19/01/2012 | | ESTIMATE RETURNED FROM BBS 22ND MARCH 2012, SR INVESTIGATE, AGREE & RAISE TCO | |
| 572 | 062 | 540 | Cathedral Lane Substation | Retaining Wall Design | Site investigation shows an unreinforced retaining wall adjacent to the sub-station site. | On Street | C/R | £5,000.00 | 18/01/2012 | INF CORR 0086 | 14/02/2012 | | | | | | | | 19/01/2012 | | TMC NOW WITHDRAWN NETWORK RAIL WILL UNDER TAKE WORKS | |
| 573 | 061 | | Roseburn | Non DDA Compliant Footpath (ROSEBURN DELTA) | CEC requirement to explore alternative solutions | Off Street | C/R | | 13/01/2012 | INF CORR 0090 | 14/02/2012 | | | | | | | | 18/01/2012 | | AMENDED TMC BEING PREPARED | |
| 573.1 | 061 | | Roseburn | Non DDA Compliant Footpath (ROSEBURN DELTA) | Proposed solution | Off Street | C/R | | 22/03/2012 | INF CORR 0202 | 18/04/2012 | | | | | | | | 26/03/2012 | | REVISED TMC NOW ISSUED | |
| 574 | 063 | 542 | Haymarket Station | Delete viaduct chadding | To interface with the Network Rail works | Off Street | D/C | £10,000.00 | 13/01/2012 | INF CORR 0091 | 14/02/2012 | | | | | | | | 13/01/2012 | | | |
| 575 | 060 | N/A | Haymarket Station | Take Down Haymarket Station Viaduct Staircase and Parapet. TMC NOW WITHDRAWN NETWORK RAIL COORDINATE OUT WORKS | To interface with the Network Rail works at Haymarket Station. | Off Street | C/R | N/A | 13/01/2012 | INF CORR 0092 | 14/02/2012 | | | | | | | | N/A | N/A | TMC NOW WITHDRAWN NETWORK RAIL WILL UNDER TAKE WORKS | |
| 576 | 036 | 543 | Airport to Gyle | Restatement to 250mm Watermain Remedial Works | To restate the finished works following remedial works undertaken by Clancy Downes | Off Street | D/C | £60,000.00 | 24/01/2012 | INF CORR 0105 | 17/02/2012 | | | | | | | | 26/01/2012 | | 15/06/12 | TCO NOW RAISED FOR AGREED VALUE & APPROVED CEC |
| 577 | 065 | 544 | Haymarket Viaduct | Deletion of Sub Station Retaining Wall and Pierth | To interface with the Network Rail works at Haymarket Station. | Off Street | D/C | £10,000.00 | 26/01/2012 | INF CORR 0098 | 21/02/2012 | | | | | | | | 26/01/2012 | | ESTIMATE REC'D FROM BBS 6TH MARCH 2012, SR TO GET AGREEMENT & BAISE TCO (UNNED SEE TMC 525) | |
| 578 | 066 | 546 | Site Wide | St Provisional Sum Allowance | To remove unexpended provisional sums from the contract value | On Street | D/C | £57,984.00 | | | | | | | | | | | 03/02/2012 | | | |
| 579 | | N/A | On Street Generally | Removal of embargo and revised traffic management | Value engineering initiative | On Street | C/R | £1,100,000.00 | | | | | | | | | | | | 08/02/2012 | | LETTER ISSUED |
| 580 | 074 | 547 | On Street Generally | Cancellation of Trackwork Interference York Place to Newhaven | Value engineering initiative | On Street | C/R | £100,000.00 | 05/02/2012 | INF CORR 0131 | 05/03/2012 | | | | | | | | 09/02/2012 | | | |
| 581 | 075 | 548 | Section 1A | Omni stainers work to Lower Price and Victoria Dock bridges | Value engineering initiative | On Street | C/R | £100,000.00 | 05/02/2012 | INF CORR 0132 | 06/03/2012 | | | | | | | | 09/02/2012 | | | |
| 582 | 081 | 549 | Section 3A | Delete proposal relating to Roseburn Viaduct Structures | Value engineering initiative | On Street | C/R | £306,004.00 | 09/02/2012 | INF CORR 0138 | 06/03/2012 | | | | | | | | 09/02/2012 | | | |
| 583 | 077 | N/A | On Street Generally | Grading sets for on street works | Value engineering initiative | On Street | C/R | | 13/03/2012 | INF CORR 0188 | N/A - Schedule 45 | | | | | | | | 12/03/2012 | | | Withdrawn TMC 583 issued to BBS 15/03/2012, G. McInnes of T&T preparing Estimate |
| 584 | 088 | N/A | On Street Generally | Road Reconstruction specification | Value engineering initiative | On Street | C/R | | 13/03/2012 | INF CORR 0191 | N/A - Schedule 45 | | | | | | | | N/A | N/A | | |
| 584.1 | 088 | N/A | On Street Generally | Road Reconstruction specification (Revision following consultation process with CEC and BBS) | Value engineering initiative | On Street | C/R | | 18/04/2012 | INF CORR 0250 | N/A - Schedule 45 | | | | | | | | N/A | N/A | | |
| 585 | 082 | 550 | Site Wide | Discope of Service Vehicle | Value engineering initiative | Off Street | U/C | £21,565.00 | 16/02/2012 | INF CORR 0138 | 16/02/2012 | | | | | | | | 27/02/2012 | | | Signal TCO returned by BBS 9/3/12 |
| 586 | 70 | 557 | On Street Generally | St. Andrew Square - Value Engineering Design Changes | Value engineering initiative | On Street | C/R | | 26/03/2012 | INF CORR 0138 | 26/03/2012 | | | | | | | | 26/03/2012 | | | Signal TCO issued as E TBA |
| 586.1 | 70 | 557 | On Street Generally | St. Andrew Square - Value Engineering Design Changes (Revision for Street and Traffic Lighting) | Value engineering initiative | On Street | C/R | TBA | 31/03/2012 | INF CORR 0220 | 26/04/2012 | | | | | | | | 04/04/2012 | | | REVISED TMC AND REVISED TMC ISSUED AS E TBA |
| 587 | 71 | 555 | On Street Generally | Edinburgh Train Granite Setts Design | Value engineering initiative | On Street | C/R | | 13/03/2012 | INF CORR 0187 | 06/04/2012 | | | | | | | | 12/03/2012 | | | Revised TMC and TCO 555 issued to BBS 13/03/12, IN to check on TMC return, work with RL on agreement of design file, and issue TCO |
| 588 | 78 | N/A | On Street Generally | Stafford St Return of Parking Spaces | To bring parking spaces back into operation | On Street | C/R | £0.00 | 20/02/2012 | INF CORR 0147 | N/A Schedule 45 | | | | | | | | 20/02/2012 | | | Zero value change confirmed by BBS (email) TCO 551 RAISED & RETURNED FOR RECORD PURPOSES, AS ON STREET TCO (NOT REQUIRED) |
| 589 | 83 | 552 | Airport | Decomposing airport tram stop, look, and canopy | Value engineering initiative | Off Street | C/R | £150,000.00 | 29/02/2012 | INF CORR 0166 | 20/03/2012 | | | | | | | | 27/02/2012 | | | TCO 589 RETURNED SIGNED BY BBS 16TH MARCH 2012 |
| 590 | 073 | N/A | The Mound | New cycleway from The Mound into Princes Street | Works to enable Mound to reopen to traffic | On Street | U/C | | 24/02/2012 | INF CORR 0149 | N/A Schedule 45 | | | | | | | | 20/02/2012 | | | TCO 589 RETURNED SIGNED BY BBS 16TH MARCH 2012 |
| 591 | 85 | 563 | Haymarket Viaduct | Diversion of Scottish Power Cable at Haymarket Viaduct | Works | | | | | | | | | | | | | | | | | |

| TNC No. | PMC No. | TCO No. | Location | Description | Reason For Change | On Street / Off Street | Clause 80 / Schedule 45 Instruction | T&T Change Owner | Change Category DC/UC/CR/SR | Budget Cost for Risk and Potential Changes | Date TNC Issued | Letter Ref | Date Estimate Due | Date Estimate Received | Estimate Change Value (Design) | Estimate Change Value (Construction) | Time Implications | Date Issued to CEC | Approved BY CEC/T&T | Date Approved or Rejected | Agreed Cost for Approved Contract Changes | Date TCO Issued | Comments | | | |
|---------|---------|---------|--------------------------------|--|--|------------------------|-------------------------------------|------------------|-----------------------------|--|-----------------|---------------|-------------------|------------------------|--------------------------------|--------------------------------------|-------------------|--------------------|---------------------|---------------------------|---|-----------------|---|--|--|--|
| 593 | 84 | 558 | Secondary Phase 1a | Cessation of Design Work North of York Place | Design Cessation | On Street | Clause 80 | RL | DC | | 01/03/2012 | INF CORR 8173 | 27/03/2012 | | | | | | | | | 01/03/2012 | RL - FURTHER CLARIFICATION ON SCOPE REQUIRED, BBS RETURN SIGNED TNC 16TH MARCH 2012 | | | |
| 594 | | 559 | Edinburgh Gateway | Edinburgh Gateway slope option - DESIGN | Design Development | Off Street | Clause 80 | SM | DC | | 13/03/2012 | INF CORR 8189 | 06/04/2012 | | | | | 05/03/2012 | CEC | 05/03/2012 | | 13/03/2012 | TCO RETURNED FROM BBS 26.3.12, ESTIMATE DUE FOR RETURN 6.4.12 | | | |
| 594.1 | | | Edinburgh Gateway | Edinburgh Gateway slop option (revision to Add for complete Design for Future Project) - DESIGN | Design Development | Off Street | clause 80 | SM | DC | | 30/03/2012 | INF CORR 8222 | SEE LETTER | | | | | 04/04/2012 | CEC | 04/04/2012 | | | | TNC ISSUED | | |
| 595 | | | Haymarket Viaduct | Deletion of Crew Relief Facility | Design Development | Off Street | Clause 80 | SM | DC | | | | | | | | | 24/04/2012 | CEC | 24/04/2012 | | | | TNC RAISED & APPROVED BY CEC, PROGRESS TO ISSUE, GET AGREEMENT & RAISE TCO | | |
| 596 | 68 | N/A | Section 1D | Utilities clashing with manhole 1D/NO4/03 | Utilities conflict | On Street | | RL | PAV | | | | | | | | | | | | | | | TNC to track PAV | | |
| 597 | | N/A | Section 1D | Omit disconnection of Bus Tracker | Works carried out by McNicholas | On Street | Schedule 45 | RL | | | 15/03/2012 | INF CORR 8193 | N/A Schedule 45 | | | | | 19/03/2012 | CEC | 19/03/2012 | | | | | | |
| 598 | 69 | N/A | Section 1D | Clifton Terrace Void | Introduction of Geotextile Liner | On Street | | RL | PAV | | | | | | | | | | | | | | | | TNC to track PAV | |
| 599 | TBC | | On Street Generally | Floating Track Slab -CONSTRUCTION | Design Development | On Street | Schedule 45 | RL | | | | | | | | | | 24/04/2012 | CEC | | | | | | TNC DRAFTED & SUBMITTED TO CEC, APPROVED BY CEC BUT ON HOLD FOR FINAL CEC/T&T CHECKS | |
| 600 | 72 | N/A | Section 1D | Utilities affecting the construction of OHLE foundations (PILING SHANDWICK) | | On Street | | RL | PAV | | | | N/A Schedule 45 | | | | | | | | | | | | BY - PILING NOW SPLIT H1/D | |
| 601 | 89 | 560 | Section 5C - Gogar Tram Stop | Change of Length of Shelter | RBS Requirement | Off Street | Clause 80 | SM | | | 15/03/2012 | INF CORR 8190 | 10.4.12 | | | | | 19/03/2012 | CEC | 19/03/2012 | | 15/03/2012 | | SIGNED TCO RETURNED FROM BBS 26.3.12 | | |
| 602 | 90 | 562 | North York Place | Omit PID Poles for Tram stops North of York Place | Track no longer goes beyond York Place | Off Street | Clause 80 | RL | DC | -£23,740.00 | 20/03/2012 | INF CORR 8196 | N/A | N/A | N/A | | | 04/04/2012 | CEC | 04/04/2012 | -£23,740.00 | 29/03/2012 | | ORIGINALLY RAISED AS CLAUSE 45, CHANGED TO CLAUSE 80, AGREED AND TCO ISSUED. | | |
| 603 | | | | Bus Tracker Interface Specification | | | | | | | | | | | | | | | | | | | | | | |
| 604 | 87 | N/A | York Place - Waverley Bridge | Utilities affecting the construction of OHLE foundations (PILING) | | On Street | Schedule 45 | RL | PAV | | | | N/A Schedule 45 | | | | | | | | | | | | | AWAITING DECISION ON OPTIONS FROM LOTHIAN BUSES NOTE - THIRD AND FINAL PART OF PILING FOR OTHER AREAS SEE TNC 600, AND 543. |
| 605 | 86 | 561 | Depot | Sub-Station Switching (£ 16K TO 15TH APRIL 2012 , WILL GO BEYOND) | Full Operation Control Not Yet in Place | Off Street | Clause 80 | SM | UC | TBA | 05/04/2012 | INF CORR 8236 | N/A | N/A | N/A | £16,250.00 | | 04/04/2012 | CEC | 04/04/2012 | £16,250.00 | 05/04/2012 | | NOTE - MAKE SURE COST REPORT COVERS FOR PERIOD BEYOND 15TH APRIL. | | |
| 606 | 79 | N/A | York Place - Waverley Bridge | Works Delayed and disrupted as result as result of works carried out by Third parties | Utilities conflict | On Street | Schedule 45 | RL | PAV | | | | | | | | | | | | | | | | | INCLUDED PERIOD END 54 ESTIMATE |
| 607 | | N/A | On Street Generally | Delete 110v sockets on Tram Stops | Sockets No Longer Required | On Street | Schedule 45 | RL | C/R | | 02/04/2012 | INF CORR 8223 | N/A Schedule 45 | | | | | 04/04/2012 | CEC | 04/04/2012 | | | N/A | | | |
| 608 | | | Off Street Generally | Delete 110v sockets on Tram Stops | Sockets No Longer Required | Off Street | Clause 80 | RL | C/R | | 02/04/2012 | INF CORR 8224 | | | | | | 04/04/2012 | CEC | 04/04/2012 | | | | | | |
| 609 | 91 | | Off Street - Section 1A | Traffic Management For Section 1A | Confirmation of Requirements and update | Off Street | Clause 80 | RL | C/R | £110,000.00 | 05/04/2012 | INF CORR 8238 | 02/05/2012 | | N/A | | | 04/04/2012 | CEC | 04/04/2012 | | | | | | |
| 610 | | 564 | Edinburgh Gateway | Siemens Long Lead Items | Order For OLE Poles and Turnout | Off Street | Clause 80 | SM | DC | | | | | | | | | 10/04/2012 | CEC | 10/04/2012 | | | | | APPROVED BY CEC, BUT ON HOLD PENDING OUT COME OF SURPLUS ON STREET POLE RE-USE | |
| 611 | | | On Street Generally | Excavation for Track Slab now by Utilities Contractor | Address utilities clashes as they occur, and avoid disruption to infraco work | On Street | Schedule 45 | RL | UC | | | | | | | | | | | | | | | | TNC Drafted, and under review within T&T. | |
| 612 | | | On Street - Generally | Tram Stops, Branding Changes - ON STREET | Accommodate branding changes being finalised by Operator. | On Street | Schedule 45 | RL | C/R | | | | | | | | | 24/04/2012 | CEC | 24/04/2012 | | | | | TNC RAISED & APPROVED BY CEC, TO BE ISSUED | |
| 613 | | | On Street - SAS/Waterloo Place | Temporary Bus Station at St Andrew Square/Waterloo Place - DESIGN | Required for the York Place phase of TM when full closure adopted October 2012. | Off Street | Clause 80 | RL | C/R | | | | | | | | | 24/04/2012 | CEC | 24/04/2012 | | | | | TNC RAISED & APPROVED BY CEC, TO BE ISSUED | |
| 614 | | | On Street - Rothesay Place | Rothesay Place Traffic Management Amendment | Safety issues at Palmerston Place end of Rothesay Place following implementation of traffic switch | On Street | Schedule 45 | RL | C/R | | | | | | | | | 24/04/2012 | CEC | 24/04/2012 | | | | | TNC RAISED & APPROVED BY CEC, TO BE ISSUED | |
| 615 | | | Off Street - Section 2A | Design wall for blocking off, of the wall under the Haymarket viaduct as a result of the crew relief facility being omitted | Request by NW to block off void | Off Street | Clause 80 | SM | DC | | | | | | | | | 24/04/2012 | CEC | 24/04/2012 | | | | | TNC RAISED & APPROVED BY CEC, TO BE ISSUED | |
| 616 | | | Off Street - Section 2A | Construct wall for blocking off, of the wall under the Haymarket viaduct as a result of the crew relief facility being omitted | Request by NW to block off void | Off Street | Clause 80 | SM | DC | | | | | | | | | 24/04/2012 | CEC | 24/04/2012 | | | | | TNC RAISED & APPROVED BY CEC, TO BE ISSUED | |
| 617 | | | Off Street - Generally | Tram Stops, Branding Changes - OFF STREET | Accommodate branding changes being finalised by Operator. | Off Street | Clause 80 | SM | C/R | | | | | | | | | 24/04/2012 | CEC | 24/04/2012 | | | | | TNC RAISED & APPROVED BY CEC, TO BE ISSUED | |

Change Category
DC - Design Change
UC - Unforeseen Circumstances
CR - Client Request
SR - Statutory Requirement
PAV - Pricing Assumption Variation

Appendix 5 – Risk Register

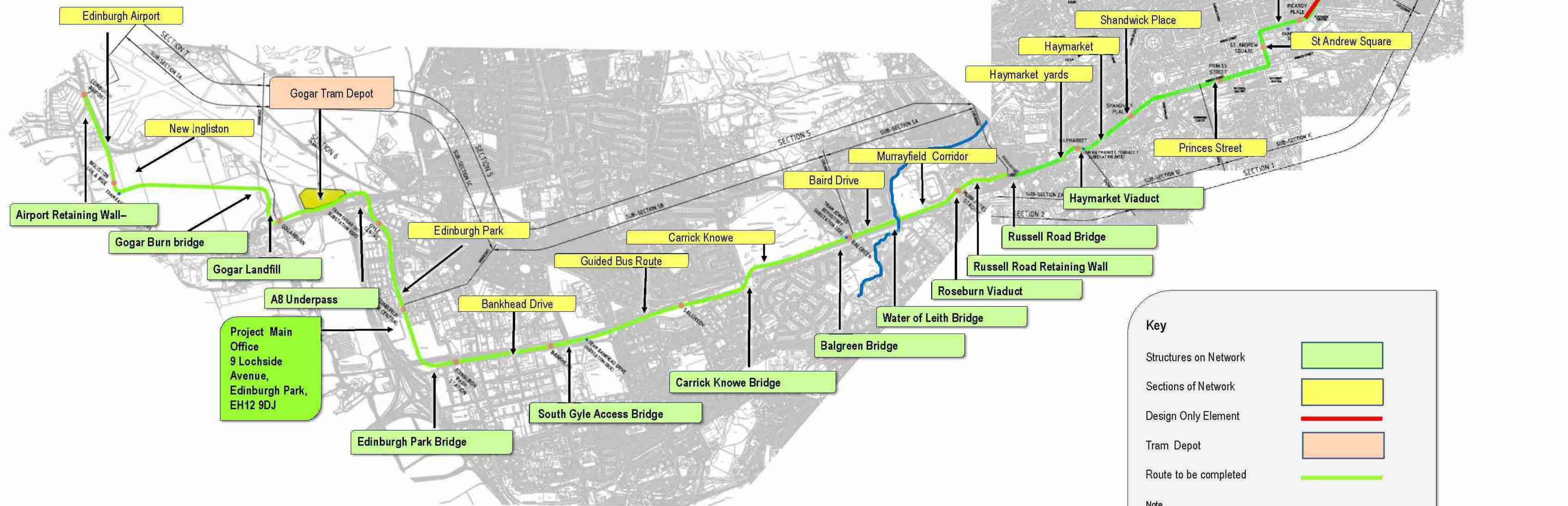
| ID | Cause | Risk Description | Risk Owner | RISK ANALYSIS - Pre Mitigation | | | | | RISK ANALYSIS - Post Mitigation | | | | | RISK ANALYSIS - Post Mitigation | | | | | | |
|-------------|---|---|-------------|--------------------------------|----------------------|------|---------|-----------------|---------------------------------|----------------------|----------------------|-------|---------|---------------------------------|------------|----------------------|----------------------|-------|---------|-----------------|
| | | | | Status | Risk Impact - Client | | | | Risk Level | Risk Impact - Client | Risk Impact - Client | | | | Risk Level | Risk Impact - Client | Risk Impact - Client | | | |
| | | | | | Cost | Time | Quality | Health & Safety | | | Cost | Time | Quality | Health & Safety | | | Cost | Time | Quality | Health & Safety |
| ED009 | Poor management of Scottish Water by TfE and poor record keeping during the old SW works | SW loss reduced to work activity with Scottish Water decommission and access to utilities and lowering of utility risk on tomorrow's proposed potential overall delay to project end date | TfE | On-Off Street | Active | 5 | 5 | 5 | 2 | 3 | 5 | 25 | RED | 3 | 3 | 3 | 4 | 20 | RED | |
| ED015 (New) | Utility issues | Additional costs and time | CEC | On-Off Street | Active | 5 | 5 | 5 | 1 | 1 | 4 | 25 | RED | 3 | 3 | 3 | 4 | 18 | RED | |
| ED021 | Due to the lack of a communications strategy and changing the requirements with limited time to communicate | Loss of communication, loss of media and critical account (Local and National) | CEC | On-Off Street | Active | 4 | 3 | 2 | 0 | 0 | 5 | 20 | RED | 3 | 3 | 3 | 6 | 15 | RED | |
| ED024 | Lack of only applications status with TfE | Delayed start of works. Delays to off-street works | BBS | On-Off Street | Active | 2 | 4 | 3 | 2 | 2 | 1 | 8 | AMBER | 4 | 1 | 3 | 2 | 3 | 12 | RED |
| ED028 | Height constraints for BES system and its impact on the underground ducts | Transfer of 4.5m x 3m ducts with system height in excess of 1.200mm in the On-Street Works. Problem. Utility as-built drawings are not yet available | BBS/CEC/TfE | On-Off Street | Active | 3 | 3 | 3 | 3 | 3 | 9 | 9 | AMBER | 4 | 1 | 3 | 3 | 12 | RED | |
| ED036 | Overcrowding of site | Costs | CEC | On-Off Street | Active | 5 | 5 | 5 | 6 | 0 | 4 | 25 | RED | 3 | 3 | 3 | 4 | 13 | RED | |
| ED071 | Discovery of additional Track construction conflicts (Live) | Further diversion requirements from TfE | CEC | On-Off Street | Active | 5 | 5 | 5 | 2 | 3 | 5 | 25 | RED | 3 | 3 | 3 | 3 | 12 | RED | |
| ED116 (NEW) | H&S measures, incidents and hazards | Provision of PPE & resources | CEC | On-Off Street | Active | 5 | 4 | 1 | 5 | 5 | 25 | RED | 3 | 3 | 3 | 3 | 4 | 12 | RED | |
| ED088 | Scottish Water not permitting infill to be carried at the site to create SW reserves as per TfE drawings | Infill to be carried at the site to create SW reserves as per TfE drawings | BBS/CEC/TfE | On-Off Street | Active | 4 | 4 | 0 | 0 | 3 | 16 | RED | 3 | 3 | 3 | 3 | 3 | 10 | AMBER | |
| ED022 | Discovery of abandoned drains and infill works | Infill to be carried at the site to create SW reserves as per TfE drawings | CEC | On-Off Street | Active | 5 | 4 | 2 | 3 | 4 | 20 | RED | 3 | 3 | 3 | 3 | 3 | 10 | AMBER | |
| ED084 | Overcrowding works | Additional costs | CEC | On-Off Street | Active | 3 | 5 | 1 | 1 | 1 | 15 | RED | 3 | 3 | 3 | 3 | 1 | 9 | AMBER | |
| ED026 | Delayed provision of permissions from Utility Companies | Delay to construction works and Programme | CEC | On-Off Street | Active | 4 | 4 | 4 | 4 | 4 | 16 | RED | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED085 | Due to number of contractors working on site | Delay | CEC | On-Off Street | Active | 2 | 4 | 4 | 2 | 2 | 8 | AMBER | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED032 | Lack of communication to TfE regarding requirements | Handover schedule, handover delay | BBS | On-Off Street | Active | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED086 | Approval of works for wayleaves by affected parties | Delay to SW works and increased costs. Delay to BBS Programme | SP/CEC/TfE | On-Off Street | Active | 2 | 2 | 2 | 2 | 2 | 6 | AMBER | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED112 | Discovery of old Tram tracks and sign | Additional works to remove and change to tracks | CEC | On-Off Street | Active | 5 | 4 | 3 | 3 | 2 | 20 | RED | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED083 | Responsibility of TfE for the works on the site | Delay for commissioning | CEC | On-Off Street | Active | 4 | 4 | 1 | 1 | 5 | 20 | RED | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED084 | Failure to protect apparatus prior to excavation | Damage to utility apparatus (By Mechanical) | TfE | On-Off Street | Active | 2 | 2 | 2 | 2 | 2 | 6 | AMBER | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED019 | Lack of change visibility for TfE on street works | Cost and time | CEC | On-Off Street | Active | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED009 | Poor quality workmanship of roadwork materials | Poor condition of roadwork materials | CEC | On-Off Street | Active | 3 | 4 | 2 | 3 | 3 | 12 | RED | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED080 | Unsubscribed works found during excavations/demolitions | Unsubscribed works found during excavations/demolitions | CEC | On-Off Street | Active | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED085 | Work done on site by TfE not completed in time | Delay to construction works and Programme | CEC | On-Off Street | Active | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED087 | Concerns expressed by TfE that work not completed in time | Delay to construction works and Programme | BBS | On-Off Street | Active | 2 | 4 | 4 | 4 | 4 | 16 | RED | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED004 | Ongoing claims and issues | Public liability claims and issues | CEC | On-Off Street | Active | 4 | 5 | 0 | 0 | 5 | 20 | RED | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED002 | Public liability claims | Public liability claims and issues | CEC | On-Off Street | Active | 1 | 3 | 4 | 4 | 4 | 16 | RED | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | |
| ED045 | Public liability claims | Public liability claims and issues | ALL | On-Off Street | Active | 4 | 3 | 2 | 1 | 12 | RED | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | | |
| ED074 | Lack of resources & clear communication | Ineffective management of contractors' resources | CEC | On-Off Street | Active | 3 | 2 | 2 | 5 | 16 | RED | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | | |
| ED075 | Lack of clear and coordinated information on the operational (and subsequent launch) of the tram system | Operational issues and delays | CEC | On-Off Street | Active | 3 | 2 | 1 | 5 | 16 | RED | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | | |
| ED077 | Major and significant public safety and disruption | Major and significant public safety and disruption | CEC | On-Off Street | Active | 3 | 1 | 4 | 5 | 16 | RED | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | | |
| ED076 | Major and significant public safety and disruption | Major and significant public safety and disruption | CEC | On-Off Street | Active | 3 | 1 | 4 | 5 | 16 | RED | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | | |
| ED078 | Major and significant public safety and disruption | Major and significant public safety and disruption | CEC | On-Off Street | Active | 4 | 1 | 1 | 5 | 20 | RED | 3 | 3 | 3 | 3 | 3 | 9 | AMBER | | |

| ID | Cause | Risk Description | Risk Category | Risk Level | RISK ANALYSIS - Pre Mitigation | | | | | RISK ANALYSIS - Post Mitigation | | | | | | | | | | | | | | | | | | | | |
|-------|---|--|---------------|------------|--------------------------------|--------|------|-----------|------------|---------------------------------|--------|------|-----------|------------|-------------------|--------|---|--|-----|------|---|---|---|---|---|---|---|---|---|-------|
| | | | | | Severity | Impact | Time | Frequency | Complexity | Severity | Impact | Time | Frequency | Complexity | | | | | | | | | | | | | | | | |
| ED001 | Design error / lack of agreed final design instructions | Variant instructions not issued timely | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Design error / lack of agreed final design instructions | Variant instructions not issued timely | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED002 | Scope of work is unclear to Work Area Monitoring team not aware of the scope | Unavailability of contractual obligations | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Scope of work is unclear to Work Area Monitoring team not aware of the scope | Unavailability of contractual obligations | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED003 | Police and/or other authorities require change in requirements | Client amendments to design scope from agreed schedule | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Police and/or other authorities require change in requirements | Client amendments to design scope from agreed schedule | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED004 | Operator interface | Item that operator is able to provide information & control required by the system | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Operator interface | Item that operator is able to provide information & control required by the system | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED005 | Network that controls possession, inefficient use of possession or over run | Delay to completion of project due to Network Rail cancellation of Possession or BSS over-run or inefficient use of possession | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Network that controls possession, inefficient use of possession or over run | Delay to completion of project due to Network Rail cancellation of Possession or BSS over-run or inefficient use of possession | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED006 | Shells in site labour force or in police affect works | Network Rail Action | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Shells in site labour force or in police affect works | Network Rail Action | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED007 | Design not finished on time | Design approvals milestones are not met in line with the programme and identification is delayed as a consequence | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Design not finished on time | Design approvals milestones are not met in line with the programme and identification is delayed as a consequence | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED008 | Contractor requests work scope to be added / reduced | Additional work / reduced work and cost implications are not met as a result of the contract | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Contractor requests work scope to be added / reduced | Additional work / reduced work and cost implications are not met as a result of the contract | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED009 | Non approval of the programme | Stakeholder constraints (e.g. Bowdrie, Ed Park, Locks, etc.) | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Non approval of the programme | Stakeholder constraints (e.g. Bowdrie, Ed Park, Locks, etc.) | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED010 | Due to design of GLE base locations | OLE base conflict with existing unknown and known lines | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Due to design of GLE base locations | OLE base conflict with existing unknown and known lines | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED011 | Design to be replaced with new works | Work area and design progression or suspension of works due to Network Rail station product interface issues at station car park | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Design to be replaced with new works | Work area and design progression or suspension of works due to Network Rail station product interface issues at station car park | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED012 | Loss of clarity of responsibilities / constraints prior to programmed completion | Third Party Constraints not obtained | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Loss of clarity of responsibilities / constraints prior to programmed completion | Third Party Constraints not obtained | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED013 | (1) Late or incomplete design submission (2) Failure to complete design submission (3) Extended design approval periods | Delay in Design Approval | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | (1) Late or incomplete design submission (2) Failure to complete design submission (3) Extended design approval periods | Delay in Design Approval | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED014 | CEG provided no input | Multi-faction or incompatibility of roles / issues / equipment with CAG / Network Rail equipment | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | CEG provided no input | Multi-faction or incompatibility of roles / issues / equipment with CAG / Network Rail equipment | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED015 | Decision on whether to proceed with re-configuration of the works on to delay the works | Approval of plans for Edinburgh Gateway | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Decision on whether to proceed with re-configuration of the works on to delay the works | Approval of plans for Edinburgh Gateway | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED016 | Lack of coordination with stakeholders and lack of clarity with Network Rail | Overlapping in location / action / equipment / Network Rail | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Lack of coordination with stakeholders and lack of clarity with Network Rail | Overlapping in location / action / equipment / Network Rail | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED017 | Shells in site labour force or in police affect works | Hydrocarbon contamination of the ground, ground water and watercourses | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Shells in site labour force or in police affect works | Hydrocarbon contamination of the ground, ground water and watercourses | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED018 | Shells in site labour force or in police affect works | Shells in site labour force or in police affect works | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Shells in site labour force or in police affect works | Shells in site labour force or in police affect works | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED019 | Financial issues not controlled or agreed | Costs to be defined on items due to financial issues and contractual complexity | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Financial issues not controlled or agreed | Costs to be defined on items due to financial issues and contractual complexity | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED020 | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED021 | Project control not set up to control materials | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Project control not set up to control materials | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED022 | Lack of clarity of risk of communication | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Lack of clarity of risk of communication | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED023 | Material issues not controlled or agreed | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Material issues not controlled or agreed | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED024 | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED025 | Project control not set up to control materials | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Project control not set up to control materials | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED026 | Lack of clarity of risk of communication | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Lack of clarity of risk of communication | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED027 | Material issues not controlled or agreed | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Material issues not controlled or agreed | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED028 | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED029 | Project control not set up to control materials | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Project control not set up to control materials | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED030 | Lack of clarity of risk of communication | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Lack of clarity of risk of communication | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED031 | Material issues not controlled or agreed | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Material issues not controlled or agreed | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED032 | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED033 | Project control not set up to control materials | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Project control not set up to control materials | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED034 | Lack of clarity of risk of communication | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Lack of clarity of risk of communication | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED035 | Material issues not controlled or agreed | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Material issues not controlled or agreed | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED036 | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED037 | Project control not set up to control materials | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Project control not set up to control materials | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED038 | Lack of clarity of risk of communication | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Lack of clarity of risk of communication | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED039 | Material issues not controlled or agreed | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Material issues not controlled or agreed | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED040 | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED041 | Project control not set up to control materials | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Project control not set up to control materials | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED042 | Lack of clarity of risk of communication | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Lack of clarity of risk of communication | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED043 | Material issues not controlled or agreed | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Material issues not controlled or agreed | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED044 | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | That control is not established as per main, technical drawings and is damaged during construction | That that new track slab fails the testing for strength, movement and stability | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER |
| ED045 | Project control not set up to control materials | Materials that are not set up to control materials | FEI | High | 4 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | AMBER | Julian Weatherley | Active | Project control not set up to control materials | Materials that are not set | | | | | | | | | | | | |

| I&I Risk ID | Cause | Risk Distribution | Effect/Impact | Risk Owner (Organisation) | Risk Owner (Individual) | Status | Level | RISK ANALYSIS - Pre Mitigated | | | | | Risk Level | RISK RESPONSIBLE PLANNING | | | | RISK ANALYSIS - Post Mitigated | | | | | | | | |
|-------------|--|---|---|---------------------------|-------------------------|--------|---------------------------|-------------------------------|-------------------|-----------------------|---------------|------------|------------|---------------------------|--|--|--|--------------------------------|-------------------|-----------------------|---------------|------------|------------|------------|-------|-------|
| | | | | | | | | Ability - C | | Risk Impact - Current | | | | Risk Score | Mitigating Actions (Client/T&T Measures) | Action Owner | Due Date | Ability - C | | Risk Impact - Current | | | Risk Score | Risk Level | | |
| | | | | | | | | Probability Score | Cost Impact Score | Time Impact Score | Envir. Impact | R&S Impact | | | | | | Probability Score | Cost Impact Score | Time Impact Score | Envir. Impact | R&S Impact | | | | |
| ED000 | Due to manage different programmes | Risks that programmes do not integrate and align | Disturbance to delivery and associated delays. | I&I | Paul Houston | Active | Non Construction | 3 | 3 | 4 | | 5 | 15 | RED | Identify and Mitigate Schedule constraints Ongoing testing and QSHA on the programme | | | | 1 | 3 | 3 | | 4 | 4 | GREEN | |
| ED114 | Myre/Leiths | Change of local authority leadership | Change critical priorities | CEC | Bruce McGilchrist | Active | Client | 2 | 2 | 2 | | 4 | 8 | AMBER | Ensure communication strategy intensity within council | CEC | | | 1 | 1 | 1 | | 4 | 4 | GREEN | |
| ED001 | Contract Programme Narrative Assumptions do not reflect actual conditions on site | Risks that project delivery team fails to define against the Contract Programme Narrative | Potential contamination event trigger e.g. commitment to work within designated working areas | I&I | Julian Weatherley | Active | Non Construction | 5 | 5 | 5 | 0 | 0 | 5 | 25 | RED | Assumption review completed | | | | 1 | 3 | 2 | | 3 | 3 | GREEN |
| ED090 | Other CEC projects | Delivery of the project is affected due to a change in priorities of CEC (both cases) | Delays | CEC | Julian Weatherley | Active | Client | 2 | 3 | 3 | | 3 | 6 | AMBER | | | | | 1 | 3 | 3 | | 3 | 3 | GREEN | |
| R012 | Failure to follow defined procedure of progressive assurance with ICP and/or HMRI, leaving issues unresolved at start up | Delay in acceptance of infrastructure by ICP/HMRI | Failure to complete ROGAS process, including assurance verification and evidence of risk assessment/mitigation in design/construction/operation/maintenance, results in refusal of permission to open for Passenger service, resulting in delay, rework or demeritation costs and possible penalties/LADS | BBS/CEC/T&T | Marilyn Ayres | Active | Construction | 2 | 3 | 4 | 0 | 0 | 3 | 8 | AMBER | (1) Comply with defined process to achieve progressive assurance in good time (2) Develop verification and required handover documentation in good time (3) BBS have shared their Working Document of the BoE with CEC/T&T | CEC/T&T to ensure that they comply with requirements to satisfy ICP and HMRI to obtain acceptance to commence Revenue Service Ongoing meetings held with ICP and HMRI to provide progress updates | Ongoing | 1 | 2 | 3 | 0 | 0 | 3 | 3 | GREEN |
| R019 | Discovery of unforecasted archaeological or human remains during excavation | Archaeological or Human Remains | (1) Delay to works during action by authorities | CEC/T&T | Rob Leach | Active | Construction | 1 | 3 | 3 | 0 | 0 | 3 | GREEN | (2) Training/briefing for BBS site operatives, on recognition and action plan. | (1) Client carrying out pre-excavation based on archaeological assessment of higher probability areas (5) CEC/T&T to make provision (time/costs) for archaeological findings | Ongoing | 1 | 2 | 3 | 0 | 0 | 3 | 3 | GREEN | |
| R009 | Excavation, piling and digging on contaminated land releases contamination to receptors - land, air, water | Release of pollution from contaminated land or land not previously identified as contaminated | Failure to identify contamination, or failure to implement agreed measures procedures for known contamination, results in breach of associated environmental legislation, especially water legislation if released to the water environment, results in refusal of additional costs, penalties, reputation damage | BBS | Shirley Mustich | Active | Construction | 2 | 2 | 3 | 3 | 0 | 3 | 6 | AMBER | (1) Carry out Phase 1 and Phase 2 investigation and then remediation procedures as per agreement with the local authority (2) Establish control procedures for contaminated gas radon (5) Strict verification on identification of contamination, and reporting requirements | | Ongoing | 1 | 1 | 3 | 2 | 0 | 2 | 3 | GREEN |
| R004 | (1) Failure to locate apparatus prior to excavation (2) Failure to excavate carefully around known apparatus (3) Failure to protect apparatus during works or backfilling | Damage to Utility Apparatus | (1) Safety hazard to workforce or public (gas release) (2) Information to supply - impact on third parties and/or reputation damage (3) Penalties and/or compensation claims | BBS/CEC/T&T | Shirley Mustich | Active | Construction | 2 | 2 | 2 | 0 | 4 | 3 | 8 | AMBER | (1) Robust Permit to Dig procedures (2) Communications in place to call out utility for urgent repairs (3) Additional workscope undertaken by SP in December 2011 | | Ongoing | 2 | 1 | 1 | 0 | 2 | 1 | 2 | GREEN |
| R008 | Water runoff from exposed earth/soil | Soil pollution of watercourse or drainage | Failure to plan for runoff or failure to maintain control measures leads to soil runoff. Breaches to licence conditions - prosecution if found rockless - potential additional cost and delay | BBS | Shirley Mustich | Active | Construction - Off Street | 2 | 2 | 3 | 3 | 0 | 3 | 6 | AMBER | (1) Strict observance of CAIT licence conditions (2) Robust planning of work activities, including assessment of pollution risk in WPP development, e.g. piles of exposed earth should be temporarily stored away from the vicinity of watercourse (3) Installation of straw matting as a control measure where appropriate | | Ongoing | 2 | 1 | 1 | 2 | 0 | 1 | 2 | GREEN |
| ED052 | Concurrent major projects in Edinburgh | Other major project conflicts with tram (excluding existing NIT projects) | Delay and additional project management costs | CEC | Shirley Mustich | Active | Construction | 3 | 2 | 2 | | 2 | 6 | AMBER | | CEC tracking external projects | | | 1 | 2 | 2 | | 2 | 2 | GREEN | |
| R002 | (1) Failure to supervise works correctly (2) Failure to install or maintain guarding, lighting, signage, TM, temporary roads and paths (3) Failure to inform third parties of works | Death, injury or damage to third parties (people or property) during construction | Construction incidents causing death or injury, damage to works or adjacent infrastructure, delay and/or additional costs, involvement in investigation process, legal penalties or insurance issues, reputation damage | BBS/CEC/T&T | Julian Weatherley | Active | Construction | 2 | 3 | 4 | 1 | 4 | 3 | 8 | AMBER | (1) Operate robust Construction Health & Safety management system (2) Identify risks at Work Package Plan stage and mitigate in method planning and appropriate control measures (3) Ensure works are carried out in compliance with WPP, and that WPP is amended in advance of implementation if works methodology change is necessary | T&T to manage McNicholas and ensure that they comply with good industry practice | Ongoing | 1 | 2 | 2 | 1 | 3 | 2 | 2 | GREEN |
| ED094 | Unknown condition of utilities | Failure of Utility assets which impacts on infra works (i.e. power supply, burst pipes etc) | Delay to infra works | CEC | Julian Weatherley | Active | Construction | 2 | 2 | 3 | | 4 | 8 | AMBER | | Close liaison with utility companies | | | 1 | 1 | 2 | | 2 | 2 | GREEN | |
| R003 | Construction methodology, including use of plant and equipment on-site, results in CoGP or statutory noise level exceeded | Construction Noise limit exceeded | Failure to plan works methodology or plant utilisation to minimise noise impact, or failure to implement mitigation measures, results in noise level exceeded, work stoppage, delay and/or additional costs, penalties, reputation damage | BBS | Julian Weatherley | Active | Construction | 3 | 2 | 2 | 2 | 3 | 9 | AMBER | (1) Mitigate noise generation by selection of appropriate methodology, equipment at WPP stage (2) Use appropriate, well maintained equipment, ensuring equipment is operated correctly and shut down when not in use (3) Implement appropriate mitigation (noise barriers/absorbers, muffle power instead of generators) | T&T to manage McNicholas activities | Ongoing | 1 | 1 | 2 | 1 | 1 | 2 | 2 | GREEN | |
| R005 | (1) Spillage from discharge pump during filling (2) Leakage from storage tanks | Hydrocarbon Spill during filling/discharging | Hydrocarbon contamination of the ground, groundwater and watercourses, resulting in ecological damage, penalties, legal action, delay and/or clean-up costs | BBS/CEC/T&T | Julian Weatherley | Active | Construction | 2 | 1 | 3 | 3 | 0 | 3 | 6 | AMBER | (1) Fueling of mobile equipment to be carried out in low risk locations, using appropriate equipment (2) comply with Oil Storage Regulations (3) Storage away from sensitive receptors and/or drainage systems (4) Ensure spill kits available for minor spillage (5) Implement an emergency response plan, including specialist response contractor | T&T to manage McNicholas activities | Ongoing | 1 | 1 | 1 | 2 | 0 | 2 | 2 | GREEN |
| R006 | Failure to prevent death or injury of protected birds, amphibians etc and/or accidental material placed on/near watercourse or embankment, destruction of nesting sites, damage to wetland areas | Death or injury of protected wildlife or damage to plants and/or damage to wildlife habitats | Failure to identify presence of protected wildlife (Otter, Badger, beaver, water voles, amphibians) and take appropriate mitigation measures, or failure to implement/maintain agreed measures for wildlife or ecological protection. Can delay works, breaches to licence conditions - prosecution if found rockless | BBS | Shirley Mustich | Active | Construction | 2 | 2 | 3 | 4 | 0 | 2 | 6 | AMBER | (1) Ensure licence conditions within method statements (2) Check Ecologist who is the licensee for conditions - ensure wildlife survey data is complete and available to site team (3) Training for site team (toolbox talks ongoing) | | Ongoing | 1 | 1 | 2 | 3 | 0 | 2 | 2 | GREEN |
| R020 | Extreme weather or with normal weather pattern | Exceptional adverse weather | (1) Delay to work due to access restrictions or reduced output (e.g. concrete placing in prolonged cold weather) (2) Damage to work in progress - rework | BBS/CEC/T&T | Julian Weatherley | Active | Construction | 3 | 2 | 2 | 0 | 0 | 6 | AMBER | (1) Pre planning for weather mitigation (flood covers, lighting, water spray) at site preparation, provision of drinking water, sunscreen, pumps (2) Plan using suitable weather forecast information for high risk activities (e.g. wind as applicable crane lifts) | T&T to manage McNicholas activities | Ongoing | 1 | 1 | 2 | 0 | 0 | 0 | 2 | GREEN | |
| R014 | Lack of QA control of construction information | Failure to implement rigorous QA control of information for construction | Errors, rework, delay and/or cost | BBS | Marilyn Ayres | Active | Construction | 1 | 3 | 3 | 0 | 0 | 2 | 3 | GREEN | (1) Establish robust document register (drawings and other documents) (2) Establish robust procedure for release of information for construction (3) Robust procedures in place and continued monitoring of compliance through Audits | | Ongoing | 1 | 1 | 1 | 0 | 1 | 1 | 1 | GREEN |
| R018 | Terrorism, Vandalism, Trespass, Ason | Socially Incident | Delay to works due to time lost or damage caused as a result of a socially incident. Environmental impact and adverse publicity | BBS/CEC/T&T | Julian Weatherley | Active | Construction | 3 | 3 | 2 | 0 | 2 | 0 | 9 | AMBER | (1) Appropriate site security to be in place, based on security hazard assessment (2) Vulnerable materials or works to be protected (5) Effective call-out and emergency response plan to be in place and rehearsed | CEC/T&T to review overall likelihood of Terrorism, Vandalism, Trespass and Ason risks to overall Project | Ongoing | 1 | 1 | 1 | 0 | 0 | 0 | 1 | GREEN |
| ED077 | Design site or land currently acquired | Basements in work plans (and possibly west mainland street) conflict with current road layout | Additional costs & time to acquire basements and divert utilities and fill basements | CEC | Rob Leach | Closed | Construction - On Street | 5 | 3 | 5 | 2 | 1 | 0 | GREEN | Key areas identified 1) Traffic Models to include lane turning between Elder street and St Andrew street north 2) If basements are found to be acquired carry out full structural survey of basements | Rob Leach | 12/03/2011 | 5 | 4 | 5 | 2 | 1 | 1 | 0 | GREEN | |
| R001 | Utilities not diverted by CEC/T&T. Delayed provision of permissions from Utility Companies | Utilities encountered during BBS Construction Works | Utility works not complete. Utility works obstructing access to work areas Delay to construction works and Programme | CEC/T&T | Rob Leach | Closed | Construction - On Street | 4 | 3 | 5 | 2 | 3 | 0 | GREEN | (2) BBS has provided CEC/T&T with work areas and additional Traffic Management in Period 4-11 and Period 4-12 | (1) CEC/T&T to manage Utility to meet BBS programme. T&T has engaged Utilities contractor to divert utilities | asap | 3 | 3 | 4 | | 0 | 0 | GREEN | | |

Appendix 6 – Route Map

Edinburgh Tram Network – Route Map & Key Locations



Key

- Structures on Network
- Sections of Network
- Design Only Element
- Tram Depot
- Route to be completed
- Note.

Drawn by: Martyn Ayres
Date: 10/11/11
Revision: 0

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Appendix 7 – Acronyms

ACRONYMS

| | |
|-------|--|
| ACCB | Accommodation and Boundary Works |
| AiP | Approval in Principle |
| ANC | Advice of Non Compliance |
| APPP | Prior Approvals – Detail Design |
| APPR | Approvals |
| APPT | Technical Approvals – Detail Design |
| ARCH | Architecture |
| AUXI | Auxilliary Power |
| BAA | British Airports Authority |
| BBS | Bilfinger Berger Siemens |
| BLDS | Buildings |
| BRDG | Bridges |
| BSC | Bilfinger Berger / Siemens / CAF - previous consortium |
| CAF | Tram Provider - (Construcciones y Auxiliar de Ferrocarriles) |
| CAR | Corrective Action Request |
| CAR | Water Environment (Controlled Activities) Regulations 2011 |
| CDM | Construction (Design and Management) Regulations 2007 |
| CEC | City of Edinburgh Council |
| CECS | CEC Services |
| CFS | Case for Safety |
| CHAR | Charette Changes |
| COCP | Code of Construction Practice |
| COMM | Commissioning |
| CVI | Confirmation of Verbal Instruction |
| DAS | Design Assurance Statement |
| DASB | Design – As Built |
| DaST | Deliver a Safe Tram |
| DDAP | Detailed Design Assurance Plan |
| DEMO | Demolition |
| DEPO | Depot |
| DKE | Dynamic Kinetic Envelope |
| DoC | Declaration of Conformity |
| DRAN | Drainage |
| DtTS | Deliver the Tram Safely |
| E&M | Electrical & Mechanical |
| EAL | Edinburgh Airport Limited |
| EART | Earthworks / Embankments |
| ELEC | Electricity |
| EMC | Electromagnetic Compatability |
| ENVI | Environmental |
| ER's | Employers Requirements |
| ESM | Engineering Safety Management |
| FAT | Factory Acceptance Test |
| FATs | Factory Acceptance Tests |
| GASS | Gas |
| GEOT | Geotechnical |
| HAZID | Hazard Identification Study |
| HAZOP | Hazard and Operability Study |
| HIGH | Highways |
| HIRA | Hazard Identification and Risk Assessment |
| HMRI | Railway Inspectorate |
| HS | Historic Scotland |
| HSE | Health and Safety Executive |
| HV | High Voltage |
| ICCO | Independent Certifiers Change Order |
| ICP | Independent Competent Person |

| | |
|---------|---|
| IDC | Inter Disciplinary Check |
| IDR | Inter Disciplinary Review |
| Infraco | Infrastructure contract |
| ISA | Independent Safety Assessor |
| ISRP | Infrastructure Safety Review Panel |
| ITP | Inspection and Test Plan |
| JNCS | Junctions |
| KPI | Key Performance Indicator |
| LAND | Landscaping |
| LIGH | Lighting |
| LOLER | Lifting Operations and Lifting Equipment Regulations 1998 |
| MANA | Management |
| MECH | Mechanical |
| MILE | Milestones |
| MISC | Miscellaneous |
| MODL | Modelling |
| MUDFA | Multi-Utility Diversions Framework Agreement |
| MUDFA | Multi Utility Diversions Framework Agreement |
| MULT | Multi-Discipline |
| NCR | Non Conformance Report |
| NR | Network Rail |
| NWR | Network Rail |
| O&M | Operation and Maintenance |
| OCC | Operational Control Centre |
| OCIP | Owner Controlled Insurance Policy |
| OCL | Overhead Catenary Line |
| OLE | Overhead Line Equipment |
| ORA | Operational Risk Assessment |
| ORR | Office of Rail Regulation |
| ORS | Operational Radio System |
| OTHW | Other Works |
| PHA | Preliminary Hazard Analysis |
| PLAT | Platforms |
| PM | Planned Maintenance |
| POWR | Power (Traction) |
| PSCC | Project Safety Certification Committee |
| QCRA | Quantified Cost Risk Analysis |
| QRA | Quantified Risk Analysis |
| QSRA - | Quantative Schedule Risk Analysis |
| RAIB | Rail Accident Investigation Branch |
| RAM | Reliability Availability Maintainability |
| REL | Railway Electrification |
| RFI | Request for Information |
| RFO | Request for Opinion |
| RIDDOR | Reporting of Injuries, Diseases and Dangerous Occurences Regulations 1995 |
| ROGS | The Railway and other Guided Transport System (Safety) Regulations 2006 |
| RSA | Road Safety Audit |
| RSAR | Road Safety Audit Report |
| S&T | Signalling and Telecoms |
| SAC | Safety Application Condition |
| SAT | System Acceptance Test |
| SATs | Site Acceptance tests |
| SCADA | Supervisory Control and Data Acquisition |
| SDS | System Design Services |
| SEPA | Scottish Environmental Protection Agency |
| SEWR | Sewerage |
| SFAIRP | So Far As Is Reasonably Practicable |
| SGN | Scotland Gas Networks |
| SI | Site Instruction |
| SIGN | Signalling |
| SIT | System Integration Test |
| SMS | Safety Management System |
| SNH | Scottish Natural Heritage |
| SP | Scottish Power |
| STAK | Stakeholder |
| STRL | Street Lighting |
| STRU | Structures / Retaining Structures |
| SUBM | Submissions |
| SUBS | Sub-Stations |
| SURV | Surveys |

| | |
|-----|----------------------------|
| SW | Scottish Water |
| TPS | Traction Power Supply |
| T&T | Turner & Townsend |
| TCO | Tie Change Order |
| TM | Traffic Management |
| TNC | Tie Notice of Change |
| TS | Transport Scotland |
| TSS | Technical Support Services |
| UCO | Utilities Change Order |
| UNC | Utilities Notice of Change |