TRAM Briefing Meeting AGENDA

Date: 2 February 2012

Time: 8.00 am

Venue: Dunedin Room, City Chambers

Expected Attendees:

Sue Bruce (Chair) The City of Edinburgh Council Sue.bruce@edinburgh.gov.uk

Lucy Adamson Transport Scotland Lucy.adamson@transportscotland.gsi.gov.uk

Dave Anderson The City of Edinburgh Council Dave.anderson@edinburgh.gov.uk

Alan Coyle The City of Edinburgh Council Alan.coyle@edinburgh.gov.uk

Vic Emery

The City of Edinburgh Council

Vicemery@

Gavin King The City of Edinburgh Council Gavin.king@edinburgh.gov.uk

Alastair Maclean The City of Edinburgh Council Alastair.maclean@edinburgh.gov.uk

Bob McCafferty The City of Edinburgh Council Bob.McCafferty@edinburgh.gov.uk

Ainslie McLaughlin Transport Scotland <u>ainslie.mclaughlin@transportscotland.gsi.gov.uk</u>

Kelly Murphy The City of Edinburgh Council <u>kelly.murphy@edinburgh.gov.uk</u>

Colin Smith The City of Edinburgh Council csmith@hg-group.co.uk

Julian Weatherley Turner and Townsend <u>Julian.Weatherley@turntown.co.uk</u>

- 1 Previous Minute and Actions from Meeting 19 January 2012 (circulated)
- 2 Turner & Townsend Update Project Report (circulated)
- 3 Financial Update Alan Coyle to speak to the item (to follow)
- 4 West End Works Dave Anderson to speak to the item (circulated)
- 5 Communications Update Kelly Murphy to speak to the item
- 6 AOCB

7 Date of Next Meeting

Client Meeting - 7 February 2012 at 8am in the Chief Executive's Board Room

Turner and Townsend Meeting – 16 February 2012 at 8am in the Chief Executive's Board Room

Tram Briefing

Item 1

Edinburgh, 19 January 2012

Attendees:

Sue Bruce (Chair) The City of Edinburgh Council Sue.bruce@edinburgh.gov.uk Dave.anderson@edinburgh.gov.uk Dave Anderson The City of Edinburgh Council vicemery@ Vic Emery The City of Edinburgh Council Alastair.maclean@edinburgh.gov.uk Alastair Maclean The City of Edinburgh Council Colin Smith The City of Edinburgh Council csmith@hg-group.co.uk Bob McCafferty The City of Edinburgh Council Bob.McCafferty@edinburgh.gov.uk Alan Coyle The City of Edinburgh Council Alan.coyle@edinburgh.gov.uk Kelly Murphy The City of Edinburgh Council Kelly.murphy@edinburgh.gov.uk Gavin King The City of Edinburgh Council Gavin.king@edinburgh.gov.uk Scott Noble Transport Scotland scott.noble@transportscotland.gsi.gov.uk **Graham Porteous** Transport Scotland graham.porteous@transportscotland.gsi.gov.uk Lucy Adamson Transport Scotland lucy.adamson@transportscotland.gsi.gov.uk Gary Easton Turner and Townsend Gary.easton@turntown.co.uk Julian Weatherley Turner and Townsend julian.weatherley@turntown.co.uk Turner and Townsend Shirley Mushet/PM/Edi/TTGroup@turntown.co.uk Shirley Mushet Turner and Townsend Rob.leech@turntown.co.uk Rob Leech Turner and Townsend Alastair.Richards@tie.ltd.uk Alastair Richards

ACTION NOTE

Neil Gibson

ITEM	ACTION	DEADLINE
	OWNER	

Neil.gibson@bigpartnership.com

1 PREVIOUS MINUTE

Sue Bruce highlighted that a letter had been sent to all utility companies thanking them for their co-operation in the Project.

Big Partnership

Decision

To approve the minute of 22 December 2011 as a correct record.

2 TURNER AND TOWNSEND DASHBOARD REPORT

Julian Weatherley submitted the dashboard report and gave a presentation summarising the Project's progress up to 19 January 2012.

The following main issues were detailed by Julian Weatherley, Gary Easton, Rob Leech, Shirley Mushet and Alastair Richards:

· There had been no reportable health and safety

ITEM

ACTION OWNER

DEADLINE

accidents but there had been five incidents. One of these involved a member of the public being taken to accident and emergency following a fall on the wooden walkway between Haymarket and Haymarket Yards. The walkway was now being gritted to improve traction.

- The total number of NCRs was 381.
- Turner and Townsend believed that BBS should have identified a potential NCR related to Princes Street reconstruction works. It was currently being examined by BBS.
- Bilfinger Berger had identified Section B completion as forecast to be 10 days late. This though was due to a 10 day delay of the construction of the wall at the Airport and was not expected to delay the final Section B completion date.
- BBS had undertaken measures to mitigate the 56 days delay at Haymarket. Piling work at Haymarket had finished on 15 January 2012 rather than the programmed date of 22 January 2012.
- Turner and Townsend were monitoring the Murrayfield ground improvements closely.
- 22 documents had been approved by Network Rail which was as expected.
- Turner and Townsend were presenting five priority documents to Network Rail per week so as to manage the approval process.
- BBS were still required to provide a construction methodology to satisfy Network Rail on the level of vibrations along the Murrayfield Corridor.
- Potential key events had been identified within the key milestones.
- All trees had been removed from Shandwick Place. The surface had also been planed off by Infraco.
- McNicholas had 100 staff working in Shandwick Place and St Andrew Square and were on programme except for South St Andrew Street.
- Shandwick Place should be returned to Infraco in the middle of February, a month ahead of progress.
- South St Andrew Street utility works were very challenging with an expectation that it could be handed over to Infraco 5-6 weeks later than the 12 February 2012 programme date. The north of St Andrew Square would be handed over earlier.

ITEM

ACTION OWNER

DEADLINE

- The utility works on South St Andrew Street had been installed at too high a level and were in conflict with the tram construction. These utilities were either included under the Mudfa contract or had been installed afterwards when there was full knowledge that they would conflict with the tram works.
- Turner and Townsend were pursuing the 'do minimum' option at the Edinburgh Gateway.
 Transport Scotland had expressed concern that the crossing was not to the West of the station and SDS were returning with an alternative design.
- Work was progressing well at Baird Drive and for the A8 underpass.
- Six trams had been delivered and were moving under power.
- The next tram delivery was due on 30 January 2012 and from then on one would be delivered every two weeks. All trams would be delivered by the end of the year.
- During testing there had been instances of tram failures due to some trams being in storage. At the settlement agreement, warranties were extended, so there was no liability to the Project.
- The total approved changes were £3.112m. The key component of this was £1.8m for utility diversions.
- The changes in progress for design and off street had reduced from £6.807m on 22 December 2011 to £6.061m.
- The anticipated changes had reduced from £17.382m on 22 December 2011 to £15.025m.

Sue Bruce advised that there could be value added benefit to handling incidents and communicating personally. If a resident or business was negatively affected by the Tram Project then, for example, a letter could be written explaining the incident or, if appropriate, apologising.

Decision

 To note that there was a problem with gritting being washed away at the walkway at Haymarket and to ensure it was re-gritted appropriately.

Julian Weatherley

Tram Briefing Meeting 19 January 2012

		ITEM	ACTION	DEADLINE
		ITEM	ACTION OWNER	DEADLINE
	2)	To investigate whether the use of a non Network Rail approved contractor was effecting the approval of the document regarding vibrations.	Shirley Mushet	
	3)	That the Communications team analyses the key milestones and feedbacks on potential media events/statements.	Kelly Murphy/Neil Gibson/Lucy Adamson	
	4)	To ensure that the dates within the key milestones conforms to dates altered by the cost engineering proposals.	Julian Weatherley	
	5)	To investigate the current method of handling incidents effecting residents and businesses and identify whether more personal communications could be used.	Julian Weatherley	
	6)	To investigate whether there could be instances where it was appropriate for utility companies' works to be undertaken at the same time as project works. This was in order to avoid the completion of project works and then the immediate excavation of the same area for utility works.	Julian Weatherley	
	7)	To record instances of utility conflicts that had arisen in cases where either they should have been resolved under the Mudfa contract or the utilities had been installed recently with the knowledge that they could conflict with the Tram project.	Rob Leech	
	8)	To investigate whether it could be identified why and who was involved in installing/diverting the utility works in South St Andrew Street at the wrong level.	Colin Smith/ Alan Coyle/Gary Easton/ Rob Leech	
	9)	To add a column detailing the value on the Pricing Assumption Variations table.	Gary Easton	
3	Finan	cial Update		*
.n .m .0	Decis	.		
		te that a full report would be presented to the Briefing meeting of 2 February 2012.	Alan Coyle	

ITEM

ACTION OWNER

DEADLINE

4 ALL PARTY OVERSIGHT GROUP PRESENTATION 26 JANUARY 2012

Bob McCafferty outlined the amended version of the cost engineering presentation to be presented to the All Party Oversight Group on 26 January 2012.

Decision

To make the following changes to the presentation:

Bob McCafferty

- a) To alter bullet point 2 on the Programme Delivery (2) slide to say 'The current closure to affect remedial works to the track on Princes Street will be removed ahead of programme in June'.
- b) Reference should be made on the Overall Impact slide to the bus delays being 2 minutes from some areas and 6 minutes through all traffic diversions.
- To replace the word 'gyratory' in programme delivery (5) to a more plain English term.
- d) That Open for Business had a separate slide in the presentation.
- 2) That the presentation be considered at the Tram Briefing meeting on Tuesday 24 January 2012.

Gavin King

5 TRAFFIC DIVERSIONS MANOR PLACE-HAYMARKET AND PRINCES STREET BUS LANE – COMMUNICATIONS PLAN AND ANNOUNCEMENT PLAN

Kelly Murphy provided details on the draft communications plan and announcement plan for traffic management changes due to the cost engineering proposals.

Kelly Murphy confirmed that a press release had been prepared and would be ready to submit to the Tram Briefing meeting on Tuesday 24 January 2012.

Tram Briefing Meeting 19 January 2012

ACTION

DEADLINE

	I I EIVI	OWNER	DEADLINE
Deci	sion		-
1)	To consider the plans at the Communications Control Meeting.	Kelly Murphy	
2)	To highlight Emergency Services as a key stakeholder in the document	Kelly Murphy	
3)	To feedback any comments on the plans to Kelly Murphy.	All	
4)	To note that a briefing with City Centre Councillors would be held at the end of next week.		

6 OPEN FOR BUSINESS

Dave Anderson provided details on a report setting out how the Open for Business budget had been used in the 2011/12 year and explained proposals for allocating funding in 2012/13.

ITEM

Decision

To alter the recommendations so that the Oversight Group was asked to endorse the 2012/13 Programme rather than approve it.

7 AOCB

Julian Weatherley advised that Turner and Townsend had held sessions with McNicholas on their costs and management overheads and McNicholas were looking to reduce their costs by increasing the efficiency of their supply chain and by implementing a ratchet mechanism for their management fee level. No agreement had been reached but this should be confirmed by Tuesday 24 January 2012.

Julian Weatherley explained that Turner and Townsend had looked at the overall requirements of the project management team. They had identified roles that did not require a Turner and Townsend staff member and would look to utilise Council staff where possible in such roles.

Colin Smith highlighted that the cost engineering report was ready to be distributed as a draft to all parties.

Tram Briefing Meeting 19 January 2012

ITEM ACTION DEADLINE OWNER

Sue Bruce highlighted that the Scottish Government had indicated that they would be requesting a report from the Council on the benefits of the Tram Project to employment. The Council had experience through the Edinburgh Guarantee of encouraging employment in young people and there was an opportunity to improve the reputation of the Project through the employment opportunities created.

Decision

 To release the cost engineering report to all parties. Colin Smith

 To feedback to the Chief Executive any suggestions on the employment benefits of the Tram Project. AII

8 DATE OF NEXT MEETING

Client Meeting – 24 January 2012 at 8am in the Board Room

Turner and Townsend Meeting – 2 February 2012 at 8am in the Dunedin Room, City Chambers

Turner & Townsend



Julian Weatherley Director

Turner & Townsend Project Management Limited Osborne House 1 Osborne Terrace Edinburgh EH12 5HG

t: +44 (0)1

e: julian.weatherley@turntown.co.uk

w: turnerandtownsend.com

Edinburgh Tram Project Full Progress Report No. 4 (9th December 2011 to 27th January 2012) (FINAL)



(FINAL)

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Appendix 1 - Dashboards

Appendix 2 - Health, Safety & Environment

Appendix 3 -Client Decisions

Appendix 4 - Cost Report and Contingency Analysis

Appendix 5- Change Log

Appendix 6 - Risk Register

Appendix 7 - Route Map

Appendix 8 - Acronyms

Rev	Originator	Approved	Date	
0	Shirley-Anne Collin	Julian Weatherley	30-01-2012	

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DOCUMENT4



1 Executive Summary

This report covers progress made during the period from 9 December 2011 to 27 January 2012. It incorporates progress reported within Infraco and CAF Progress Reports No. 4-10 and 4-11 to 7 January 2012.

There were no reportable accidents during the period from 9 December 2011 to 27 January 2012. Twelve incidents occurred in total of which one, involving a member of the public, has been categorised as significant.

Enabling works are progressing under McNicholas. T&T are forecasting that Shandwick Place will be made available to Infraco on 14 February, four weeks in advance of the Rev4 programme date. St Andrew St will made available, in totality, by the end of March resulting in a potential delay to Infraco of circa seven weeks. The extent of delay has been exacerbated by the discovery of incorrectly recorded and poorly executed utilities works under MUDFA.

A number of Scottish Water legacy utility works items are required to be resolved prior to release of the On Street areas to Infraco. Several of these items are likely to require derogations from standards by Scottish Water at short notice. The resolution of these items is being hampered by poor historical record keeping under MUDFA. T&T have requested CEC assistance in the deployment of additional Clerk of Works resource in support of this work stream.

Infraco works in Haymarket1 are currently 56days late, when assessed against the Rev4 programme. Measures to recover this delay are being explored. This slippage does not currently impact on the critical path for the On Street Works.

The progression of seventeen Cost Engineering initiatives has been confirmed by CEC. The initiatives to de-scope the airport ticket kiosk and to share recovery vehicles with third parties is not being taken forward.

The inclusion of rationalisation of traffic management proposals within the Cost Engineering initiatives is required to offset the negative impact of the utilities works on programme. An integrated programme, including all positive and negative effects will now be developed.

Good progress has been made throughout the Off Street areas this period with key activities including the casting of the last section of the deck to the A8 underpass, the commencement of track laying between Gogarburn Bridge & Gogar Farm Road and the commencement of secant pile walling adjacent to the airport tram stop.

Completion of the Mini test track on the 12th December 2011 and completion of Section A handover on programme (16th December 2012) are two key milestones achieved during this reporting period.

Infraco are reporting a ten week delay to the Off Street works programme through the Network Rail corridor. This delay is largely the result of failure to obtain Network Rail approvals in line with the Rev 4 programme. Particular concern remains over the lack of approved construction methodology for the Murrayfield Retaining Walls. This delay may compromise the project's ability to accelerate the commencement of commissioning within the Off Street areas.

Progress Report No. 4 9th December - 27th January 2012

(FINAL)



A decision on the scope of the Edinburgh Gateway remains outstanding. The design of a "do minimum" solution is being progressed by Infraco in order to inform this decision.

Network Rail have advised the project of their plans to develop Haymarket station. Minor modifications to the scope of the Tram works will be required to accommodate Network Rail's proposals.

Six trams have now been delivered to the depot with delivery currently running a month ahead of programme. Five trams have completed their static commissioning routine testing and two trams have completed their dynamic commissioning routine testing.

£2.49m of change occurred in the financial reporting period (22 December 2011 to 27 January 2012) bringing the total instructed change since September 2011 to £3.51m. The AFC for Infraco Works, Utilities Diversions and Trams is currently £500.2M. The AFC does not contain the potential benefits from the value engineering and does not account for the final QSRA/QCRA. An adjustment will be made following re-programming to include for the Cost Engineering initiatives.

(FINAL)

2 Health, Safety & Environment

2.1 Incident reporting

Within the period 9th December 2011 to 27th January 2012, covered by this report, there have been twelve incidents of which one, an injury to a member of the public, was considered to be significant. A summary is provided below:

Ref	Location	Description of Incident	Contractor	Classification
1579	Haymarket Yards	A member of the public fell on raised wooden walkway	Grahams	A member of the public incident
1586	6 St Andrews A member of the public allegedly tripped ove a heras fencing base on a pedestrian walkway.		McNicholas	A member of the public incident
1576	Edinburgh Airport	An operative was standing on a piece of heras fencing and half fell into manhole when it gave way.	Farrans	A minor injury
1585	Shandwick Place / Coates Crescent	Spillage of approximately 1 litre of diesel from generator within groundhog unit	Bilfinger Berger	Environmental
1581	Murrayfield	Network Rail stopped work on the Murrayfield tramstop due to the Form B not having been signed off by Network Rail.	Grahams	Near misses
1583 Gyle		Scottish Water identified a non standard illegal connection into a manhole that had been undertaken without the ATC process being followed	Bilfinger Berger	Near misses
1588	Shandwick place	Report received that heras fencing had blown over in high winds.	McNicholas	Near misses
1584	N/A	Anonymous allegation to the Health and Safety Executive relating to work site personnel operating without correct qualifications and accreditations.	McNicholas,	Others
1587	St Andrew Square	Break in to a welfare unit at St Andrew Square	McNicholas	Others
1577	Murrayfield	THE PART HARD STATE TO STATE THE PART OF T		Service damage
1580	Shandwick Place	A Lead water pipe that leads to a domestic property has been struck when excavating for OLE base.	McNicholas	Service damage
1582	Canning St / Shandwick Place	A live cable identified by City of Edinburgh Council / Scottish Power within a traffic sign column that had been cropped	Not known	Service damage

2.2 Safety Initiatives

A programme of targeted inspections has been carried out jointly by T&T and BBS with their respective contractors at excavation sites across the project. Whilst more than 20 excavations were inspected those with active excavation taking place were



assessed for compliance with HSE guidance HSG47. The findings for this inspections are recorded in the Deliver the Tram Safely report in Appendix 2.

BBS have arranged an on-site safe excavation demonstration, focussing on correct use of trench boxes.

A programme of targeted inspections for temporary works is being planned for the next period. This will be followed by targeted inspections for vehicle movements on site.

2.3 CDM Regulations

The updated Construction Phase Plans for the project and for the works affecting Network Rail assets have been reviewed and commented upon. The revisions to the plans have now been formally issued to Network Rail by BBS.

The Health and Safety File information for the Depot, Section A has been submitted as part of the Body of Evidence submission. This information has been issued to the depot operator.

Responses and close out statements were received from BBS following an audit conducted on compliance with CDM (Reg9; Client Duties in Managing Projects). Some residual issues were transferred into the snagging programme developed during the depot handover process.

2.4 Environmental

A Joint Environmental Inspection has been carried out with BBS 18th January 2012 at Balgreen Road/Water of Leith (Contractor Expanded). BBS have compiled and issued a report (ETN-S5A-001) – the site was in good order with good environmental knowledge.

A New monitoring programme now issued – environmental inspections will be carried out every 2 weeks with either BBS or a Non Infraco contractor.

Part of the old tram network has been found at St Andrews Square South/Princes Street. GUARD Archaeology have been consulted and findings being documented by the site team.

The Project Environmental legal Register is to be an updated one during period 12 and issued by BBS to T&T for information.

2.5 CoCP

T&T has agreed improvements to the surface of the temporary wooden walkway at Haymarket.

Provision of site signage including public contact telephone numbers are being addressed by the respective contractors. A significant improvement has been noted this period.

The results of the CoCP monitoring have been passed to CEC communications team to be up loaded to the project web site. Details of this are in Appendix 2.



3 Client Decisions

Items identified which require input by The City of Edinburgh Council as part of their solution. This information can be found in Appendix $\bf 3$.

4 Commercial

4.1 Cost Summary

The Anticipated Final Cost (AFC) for the Infraco Works, Utilities Diversions and Tramco is £500.2M and is consistent with the budget of £500.2M. The AFC does not include the potential cost benefits from the value engineering work stream and does not include the draft Quantative Cost Risk Analysis. Following instructions on the value engineering indicatives the plan is to incorporate the cost benefits as opportunities and to update the QCRA to help advise Contingency requirements.

The detailed Cost Report, 27th January 2012, has been issued under separate cover and this section of the report summarises the issues and cost movements within the last 4 week reporting period.

A summary of the cost movements are as follows (all figures £Ms):

Reporting Date	Approved	In Progress	Anticipated Change	Contingency Balance
27 th January	3.51	5.75	15.03	7.21
22 nd December	1.02	6.81	16.67*	7.00
Movement	2.49	-1.06	-1.64	0.21

[* Note: £0.7M adjustment to Utilties to align with budget of £2.9M. This has no effect on the overall forecast]

4.2 Infraco

4.2.1 Approved Changes (Movement in the Period)

Change Requests are submitted to CEC each Thursday afternoon for review and approval at Friday morning meetings. This enables scrutiny of specific changes and also compliance with CEC Delegated Authority Rules.

The movements in the period are included overleaf:

Approved to 22 December reporting date	£1,016K
Additional BT ducts at depot and min test track	6
Design Gogar Castle Access Road – tram crossings and approaches	31
Edinburgh Gateway – Advance Temporary Works Design & minimum design	15
Design changes resulting from utilities – OLE, circular pile cap, ducting, drainage, track form	55
Edinburgh park office accommodation – running costs	79
On-street variations – periods 15 Oct and 12 Nov 2011	111
Drawdown for Utility diversions/protection within track zone (to March 2012)	1,800

Cathedral Lane Sub-station retaining wall	5
Haymarket Station – delete cladding installation, substation retaining wall and plinth	-20
Depot water main – surface reinstatement works	60
On-Street Variations – period end 10 Dec 12	357
TOTAL	3,514

4.2.2 Changes in Progress

Changes in Progress include items which cannot be mitigated and the change is agreed in principle or is likely to occur.

Key items:

- Rationalisation of design, site investigations for utility diversions £0.20M;
- Transfer of costs included in On-Street Works Period end estimates -£0.36M;
- Reduction in bus tracker power disconnections (undertaken by McNicholas) -£0.18M
- Early installation of TM at Shandwick Place additional maintenance £0.18M

4.2.3 Anticipated Changes

The key items include:

- Cathedral Lane sub-station £0.4M
- Cycleway Mound/Hanover St £0.93M
- Delay and prolongation utilities affecting OLE foundations, piling etc £0.83M
- Roseburn Delta footpath £0.3M

Further estimating work is needed on the Cathedral Lane Sub-station, piling, York Place Terminal Point, piling to OLE and delay analysis. In addition a review of changes to date and risks is required to prevent any overlap in cost provision and avoid any gaps.

4.2.4 Contributions Register

Contributions from 3rd party, stakeholder or other CEC budgets are being developed in order that the amounts can be finalised. The current position is as follows.

Works	£M	Status / Action
Edinburgh Gateway Costs	0.94	Agreement required with TS
New Ingliston – ducts & crossings	0.54	Agreement required with NIL



Cathedral Lane Sub-station	0.25	Agreement required with Henderson Global
RBS Tramstop	0.50	Agreement required with RBS
St Andrews Sq Public Realm design	0.13	Separate CEC budget
CEC miscellaneous (George St)	0.32	Separate CEC Budget
NR Haymarket Station	t.b.c	Substation hardstanding, remove parapet and staircase
Total	£2.68	

4.2.5 Contingency Analysis

(FINAL)

A draft Quantative Risk Analysis (QCRA) was issued to CEC, 29 November 2011 for initial comment. It was agreed that the QCRA would be updated following approval by CEC for the Cost Engineering improvements.

In the interim the risk analysis undertaken by F&G has been used to monitor the impact of approved and required change against original contingency baseline, determined in early August 2011. Work is ongoing to mitigate risks, final costs for changes in progress and avoid anticipated change to reduce time and cost impacts. Examples of this include alternative solutions for the Footpath at the Roseburn Viaduct to avoid the £1.5M impact of the original design.

	Original Contingency Foreca				Forecast	
Category	Ctgcy	Approved	Available	Required	Post Mitigation	Balance
Design completion/scope risk	6.3	0.8	5.5	0.9	0.9	5.4
Time delay	11.6		11.6	5.4	5.4	6.2
Utilities: Haymarket to York Place	2.0	1.8	0.2	11.7	11.3	-9.3
Utilities: Off Street	0.4		0.4	0.0	0.0	0.4
Possession risks	0.3		0.3	0.0	0.0	0.3
Routine Maintenance	0.5		0.5	0.0	0.0	0.5
Relax of time constraints	0.3		0.3	0.0	0.0	0.3
Pricing Assumptions (York Place etc)	7.2	0.9	6.7	6.7	6.7	0.5
Land Purchase	0.1		0.1	0.0	0.0	0.1
Traffic Management	0.2		0.2	0.0	0.0	0.2
Move to Cost reimbursable	3.3		3.3	0.0	0.0	3.3

Contract						
Procurement	0.2		0.2	0.0	0.0	0.2
Exceptionally Adverse Weather	0.3		0.3	0.0	0.0	0.3
Tramco	0.0		0.0	1.2	1.2	-1.2
Totals	32.7	3.5	29.6	26.0	25.5	7.2

4.2.6 Opportunities

Prior to commencement the budget incorporated £11.0M for Opportunities were included in the budget. This represented the £2.4M de-scoping of works at Forth Ports, £7.0M anticipated reduction from the capping levels included in the On-Street works and a £1.6M variance resulting from the On-street tender returns.

Funding contributions from 3^{rd} parties and other budgets amounts to £2.7M and the de-scoping of the works at Forth Ports has been approved for instruction. This results in an opportunities budget of £5.9M to secure. The value engineering work stream will contribute towards this budget.

The Baseline Project Instructions report issued 20 January 2012, contains the recommendations for value engineering and programme improvements. CEC have confirmed that following review of the recommendations a briefing will be held with the team.

4.2.7 On Street - Schedule 45 Pricing Assumption Variations and Commercial Issues

BBS have submitted the following Pricing Assumption Variations. The 'RAG' status indicates, Green – variation principle and amount agreed; Amber – variation principle agreed and amount to be agreed; Red – variation principle not agreed.

Description	RAG (£M)
Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes	0.02
Princes Street - 500mm Water Main Diversion	0.27
Haymarket H1 - Utilities affecting the construction of OLE foundations	1.71
Site Wide - Power to bus trackers affecting the ability to remove site clearance items	0.04
Site Wide - Increased number of drainage boxes including installation	0.00
Haymarket H1 - Third Party (McNicholas) affecting ability to progress the works	0.00
Haymarket H1 - BT Fibre Optic Service requires diverting	0.11

(FINAL)



Princes Street - Amend the design of the St. Johns Church OLE bases	0.02
Princes Street - 2011 Christmas Embargo - Temporary Surfacing of Track Infills	0.29
St Andrew's Square & Shandwick Place - Traffic Management Requirements	0.18
Haymarket 1 - OLE Base Relocations	0.00
On Street Generally - Worksite Modelling	0.01
Bt Diversion at Waverley Bridge	Inc
Unidentified utility discovered when piling (OLE 131 100A)	0.00
Payment for Utility diversions off site outwith BBS's scope (cost report assumes cost neutral)	0.34
DDA Footpath Roseburn Viaduct	0.30

Upon receipt of the PAV from BBS relating to the discovery of utilities affecting foundations we advised CEC that BBS piling design could avoid diversion of utilities and that BBS may have been aware of utilities therefore the works should not result in a PAV. The Independent Certifier published an opinion that a PAV had occurred. Following this an the emergence of other PAV's such as the Princes Street Water Main we requested BBS to confirm how the 'discovery' requirement in Schedule 45 could be established when the re-connection works were a known item of work. This led to a request from BBS that CEC provide a briefing session with their lawyers McGrigors to review the Mediation Heads of Terms and the Settlement Agreement to clarify interpretation regarding BBS's liabilities under the contract in relation to utilities interfering with their work scope. A meeting was held with McGrigors who provided a report, 6 January 2012 and we have issued a summary report of the issues to CEC, 16 January 2012. The report confirms the variance between the provisions in the Heads of Terms i.e. "tie shall take the risk relating to all utility diversions works required to complete the on-Street Works" and the provisions in Schedule 45 of the Settlement Agreement that entitlement to a PAV is subject to the utility being "discovered". The cost report contains £2M of costs associated with the consequences of utilities on OLE foundations (delay to BBS, piling costs and standing time etc). Our report provided a number of recommendations on each point and CEC are yet to advise instructions regarding investigations into the level of awareness that SDS and BBS had regarding the location of utilities and the variance in BBS's views regarding utilities based upon the Mediation Heads of Terms and the Settlement Agreement.

Regarding tNC 545 disconnection of power cables to bus trackers our position is that BBS could not have discovered the power cables as the bus trackers were live prior to taking over the site and the disconnection works were included in SDS's specifications for the work.



Payment for utility diversion costs requires being resolved as the Utility Companies are invoicing CEC direct. This issue is being discussed at the commercial meetings.

BBS have claimed that the DDA compliant footpath which runs 150m North along the embankment for Phase 1b is not included within the Contract Scope. An alternative design and BBS's cost liability are being established.

4.3 Utilities

4.3.1 Budget

The budget comprises; £1.1M for the legacy remedial works at Leith Walk and £1.8M original tie budget for On-Street diversions.

It has been agreed with CEC that the cost model will be developed and change requests submitted for funding specific work sections when required. This means that control can be exercised for short term programme commitments whilst further work can be done to mitigate the impacts of non critical conflicts later in the programme, refer 1.3.4 below.

It should also be recognised that in addition to conflicts the prospect of unforeseen work will impact on final costs. Examples include the extent of foam concrete in place from the MUDFA contract, steelwork within the road construction (St Andrews Sq) and redundant excavations to expose utilities and none were found owing to inaccurate records.

The contractor has been requested to revise the management fee and rates as the scope of work is greater than that originally envisaged. A small reduction in fee has been quoted and is in the process of being confirmed. A greater reduction could be made however this may require re-allocation of risk in relation to disallowables owing to the nature of the contract form e.g. the contractor is liable for defect rectification and damage to plant.

4.3.2 Approved Changes

£1.8M has been approved for diversion and protection works within the track zone to 31 March 2012, refer Utilities Change Order dated 22nd December 2011.

Further change requests will be submitted when the scope of future works has been defined and when committed expenditure exceeds the approved budget.

4.3.3 Changes in Progress

The contract form is NEC Option E – Cost Reimbursable. The contract is being administered by an NEC change management system which tracks orders/changes for specific items of work. This enables control over commitments and managing expenditure.

4.3.4 Anticipated Change

A cost model has been developed for the works based upon the utilities conflict database. The cost model contains composite rates per conflict type. The works are being managed in two priority categories:

(FINAL)

Priority	Conflict Type		
Priority 1:	Overhead Line Bases Road Level Conflicts Tram Ducting Chambers Tram Ducting		
Priority 2:	Track Construction Traffic Signal Pole Street Lighting Column Road Sign Base Kerb Re-alignment		
	Drainage Drainage Gulley		

A summary of the cost model is provided below.

Description	£M
Utility Company Costs	2.0
Priority 1 conflicts: 399 Nr (includes proportion of McNicholas management and design costs – note these are time/task related and will be extracted for the detailed estimate)	4.5
Priority 2 Conflicts: 793 Nr (comment as previous, programme for these works to be finalised and interface with BBS works. Some of these items may be mitigated)	7.3
BT works not completed under MUDFA (ducts damaged Lothian road junction, York Place and Constitution St)	0.4
Total	14.2

The cost model is being refined to account for the emerging scope of work in Shandwick Place and St Andrews Square to cover unforeseen work e.g. removal of foam concrete, steelwork within the road construction, utilities being In the wrong location. The estimate is also being revised to account for the opportunity to mitigate Priority 2 conflicts, e.g. traffic signs and also the emerging Utility Company Costs. The basis of the cost model is:

- 1. Costs based upon a unit cost per conflict type from Haymarket 1. It should be noted that there is a high degree of variability in work scope for each conflict.
- 2. Scottish Water have submitted a proposal for management and supervision costs for On-Street, Off-Street and Legacy Works. These costs are being challenged,



however they are £1.5M in excess of the figures above. It is unlikely that these costs will be agreed in advance of the historical issues associated with betterment and cost share.

- 3. The scope of the Leith Walk legacy works are being established. Current provision is £1.1M as per the original budget.
- 4. There may be works required at Princes St which are not yet defined and are excluded from the estimate.
- 5. The unit cost per conflict may not account for inefficiencies resulting in the accelerated programmes for Shandwick and St Andrews Sq.

4.3.5 Utilities Off - Street

To date a total of £0.23M has been invoiced by Utility Companies for diversions and supervision on the Off Street section. These works were not excluded from Infraco's Off Street Contract Price and discussions are ongoing regarding the correct allocation of these costs.

At this stage these costs have not been included in the Anticipated Change Section of the Cost Report.

4.4 Tram Vehicles

The budget for Tram Vehicles is £62.4M which is lower than the contract sum at £63.6m. There have been no changes during the period.

4.5 Opportunities and Value Engineering

The Baseline Project Instructions report was submitted to CEC for comment / approval on the 25th of January 2012. Following this review a meeting will be held with the project team to confirm instructions. This meeting is planned w/c 30st January 2012.

4.6 Risk

The contingency amounts included in the budget for Infraco, Utilities and Tram Vehicles amounts to £32.7M. This is adjusted to £29.7M as a result of the additional costs from the Infraco contract, variance in the On-Street works, maintenance costs and the drawdown for the On-street Utilities works.

Approved Change, Changes in Progress and Anticipated Change amounts to £24.2M and with the £2.7M contribution results in a balance of £7.3M. [check figures]

The required contingency will be reviewed following the conclusion of the Quantative Cost Risk Analysis.

4.7 Payments and Cash flow

A summary of the certified amounts are provided below.



	Certified	Planned	Comment			
Infraco	246,285k*	250,462k	Delays at: Haymarket Corridor, Earthworks at Balgreen Rd to Edinburgh Park Station, Gogar to Edinburgh Airport Earthworks			
Utilities	1,190k	1,842	Reporting periods for the McNicholas Contract now aligned with the Infraco Contract dates. First certificate Value equals £238K. Additional £62K for Utility Companies.			
Trams	54,066k	54,129k	Payments in accordance with milestone schedule. Includes £481k in Period 9 for depot equipment.			

Final certification value still to be established

(FINAL)

A draft cash flow was submitted 10 January 2012. This is being developed to meet CEC finance team's requirements. It has been agreed that the BBS milestone forecast will be updated following conclusion of the revised working programme resulting from the value engineering improvements.



5 On Street - Enabling Works

5.1 Progress in Period

Scottish Water works in Princes Street were completed allowing traffic to be switched in early January 2012.

Detailed planning of McNicholas enabling works in Shandwick Place and St Andrews Square was completed in the period and traffic switched successfully in both areas to allow enabling work to commence.

Both areas have now been planed by Infraco and works are underway to deal with utility conflicts.

5.2 Key Issues

Legacy Works

The SOFT report dated 19th January 2012 identified the Scottish Water legacy issues as a threat to the project. The report stated that Turner & Townsend was finalising legacy works packages using the utilities database developed for the utility works already underway. While the majority of the legacy issues relate to Scottish Water there are other utility works outstanding following the MUDFA contracts.

Regarding the legacy works within or adjacent to the tram line between Haymarket and York Place, some works can be programmed to coincide with the utility diversionary works being carried out to facilitate Infraco. As the programme for handing over areas to Infraco is at a critical stage however it is not possible to schedule all legacy works at this time. In response to this Turner & Townsend is now categorising each legacy issue, of which there are in excess of 750, and assessing the appropriate course of action. It is anticipated this exercise will be completed by the end of January 2012.

Regarding the legacy works north of York Place a strategy for delivering the works in conjunction with CEC Road Department is currently being finalized and an oral update will be provided at the Tram Briefing Meeting on 2 February 2012.

St Andrew Square

Due to the complexity of the diversions and the constrained nature of the site the utility enabling works at the south end of St Andrew Street will not be complete in time to hand the area over to Infraco in accordance with the Rev 4 programme on 7th February 2012. Current projections show the work site being made available at the end of March 2012. Turner & Townsend has written to Infraco informing it of this delay and Infraco is currently investigating if works in the St Andrew Street area can be re-sequenced to mitigate the delay. Furthermore, proposals brought forward as part of the cost engineering initiative will assist in mitigating the delay as Infraco will be provided with early unhindered access to the east end of Princes Street adjacent to South St Andrew Street.

Footways - Conflicts

In carrying out some localised repairs it has become evident that there may be utilities located in an area on South St Anderws Street outside the Tram DKE +2m that will conflict with the hard landscaping currently specified on the tram project.



These potential conflicts are not currently included in the McNicholas scope of work. Turner & Townsend is investigating this matter further and an update will be provided at the meeting on the 2nd February 2012.

5.3 Look Ahead

Detailed planning of enabling works in Haymarket and Shandwick Place is now underway in anticipation of traffic management measures being brought forward to end March 2012 (see below). The utilities team is also beginning planning work in relation to the utilities at York Place.

On Street - Main Works

6.1 Progress in Period

Works are progressing well in Haymarket 1 following the Christmas shutdown period. Piling was completed in less time than anticipated on 15th January 2012 and Infraco is now exposing, excavating and backfilling the air raid shelter in the area and constructing OLE pile caps. In Princes Street, works from South St David Street to St John's Church are progressing well and discussions are underway with Infraco to establish if the works can be completed early ahead of the Rev 4 programme July completion date. This would include completion of all remedial works, the tram stop and OLE foundations. The Electrical & Mechanical Works, including the overhead wires, are then due to commence in early November 2012.

Princes Street works have been re-sequenced to ensure bus traffic can be switched in early March to facilitate the closure of east Princes Street at the bottom end of South St Andrew Street. This is part of the wider cost engineering traffic management initiative discussed below.

Due to utility clashes at Haymarket 1 the On Street Works were delayed. Turner & Townsend has carried out an assessment of the 56 day prolongation claimed by Infraco and concluded that while the prolongation will not impact the project end date. The delay in the Haymarket section may be mitigated as the works progress, however there is still a potential commercial liability for prolongation of prelims costs and an allowance has been included in the cost report.

Third party approvals and consents for Dublin Street Steps, Picardy Place and Princes Street OLE re-design were progressed during the period. A meeting was held with CEC Planners and Historic Scotland in early January and a way forward agreed in all areas. Formal submissions are now being prepared.

As part of the cost engineering initiative proposals were brought forward to accelerate the implementation of traffic management in Haymarket/Shandwick and at the east end of Princes Street. This facilitates the early commencement of utility enabling works and the potential re-sequencing of Infraco works to mitigate against the delays at South St Andrew Street. Proposals to extend the initiative to York Place were also included as part of the cost engineering submission and work is now underway to plan how this may be brought forward. Based on the work done to date the following changes are due to be implemented:



Traffic Management installed at Shandwick/Haymarket	24 March 12	This will provide McNicholas with access to the site to clear utility conflicts – approximate McNicholas programme is 10 weeks
Princes St bus lane at south end of St Andrew St	03 March 12	Minor enabling works but allows Infraco works to commence at end of March 12 to mitigate delays to enabling works in south St Andrew Street
York Place	End Oct 12	Start depends on all Infraco non M&E works being completed in St Andrew Street and east end of Princes Street

All design work north of York place has been temporarily put on hold pending the outcome of a review into curtailment of non-critical activities on the project.

Works required in the Forth Ports and Lindsay Road area to make good previous Infraco and MUDFA works were assessed during the period and a programme is currently being developed. An assessment of the likely expenditure is also underway.

6.2 Key Issues

Turner & Townsend has carried out a joint inspection with BBS and the Independent Competent Person of the concrete pavement adjacent to the railhead in Princes Street fin relation to concerns about the variable standard of finish of the concrete and the levels being out of tolerance. This has been formally communicated to BBS and a response is awaited.

6.3 Look Ahead

Haymarket 1

Infraco works will continue in the area including pile cap construction, filling of the air raid shelter and earthworks to allow construction of the track slab and pavements.

Shandwick Place

Utility conflict works required to hand the site over to Infraco will continue in the area and it is currently anticipated that this will be completed on 14 February 12. As the traffic management is already in place in Shandwick Place this date is four weeks ahead of the Rev 4 programme. Turner & Townsend is working with Infraco to ensure this time saving is optimised.

Princes Street

Works by Infraco will continue in Princes Street and Turner & Townsend will seek to carry out some legacy remedial works in the area ahead of the completion of the non M&E works in the summer of this year.

St Andrew Square

(FINAL)

It is currently anticipated that utility conflict works required to hand the site(s) over to Infraco in St Andrew Street North and St Andrew Square will be complete on 14 February 12. As the traffic management is already in place this date is in accordance with the Rev 4 programme. Works at the south end of St Andrew Street are delayed and it is currently anticipated these will be complete on 27 March 12.

York Place

Planning work will continue in York Place

(FINAL)

Off Street Works

7.1 Progress in Period

Works are progressing well on the Off Street section with the following activities taking place during the period;

- Russell Road Bridge, the east abutment piling complete;
- Roseburn Street Structures, sewer diversion and bored piling;
- Water of Leith Bridge, bored piling to centre pier commenced;
- Baird Drive Retaining Wall, earthworks commenced;
- Balgreen Road Bridges, installation of temporary works and bored piling progressing;
- South Gyle Access bridge, columns installed and now awaiting a methodology for ground improvements;
- Edinburgh Gateway, 'do minimum' scope options being progressed with Transport Scotland;
- Edinburgh Park Corridor, drainage and subbase construction has commenced with traffic management on the Gyle Broadway to facilitate the construction of the crossing
- Eastfield Avenue to the Gogarburn; ballast and sleeper laying has commenced in sections;
- · Ingliston Park and Ride, substation fit out has commenced; and
- EAL tramstop and kiosk, secant piling commencement

In the period to 27th January 2012 the main achievements were:

- Mini test track completion on the 12th December 2011; and
- Completion of Section A and handover of the depot on the 16th December 2011.

A reinvigoration of the Network Rail submission and approval process has been required post Christmas as a result of differences between planned and actual document production. Turner & Townsend have raised this with Infraco in conjunction with Raymond Sheridan of Network Rail. There shall be a rebrief of requirements to staff has been undertaken.

The Scottish Power and BAA wayleave is still outstanding. This has been promised to the project over the last few weeks by EAL however is not forthcoming and signing by Scottish Power should occur imminently.

Discussions relating to the diversion of the high pressure gas main, Section 7 within NIL land are progressing. Scottish Gas Networks and NIL are discussing the wayleave. The wording has been agreed and a drawing is being submitted to NIL this week. Scottish Gas Networks have appointed a designer and contractor, and have indicated a construction start date of the 5th March 2012.



Transport Scotland have confirmed their intention to decouple the Edinburgh Gateway Project from the Rev 4 programme. This has led to the progression of a 'do minimum' feasibility study where SDS are looking at how much future proofing can be incorporated into a design with minimal abortive works. This will allow Network Rail to progress the Edinburgh Gateway Project at some future stage with minimal disruption to the tram network.

7.2 Key Issues

The following key issues were of relevance throughout the period:

- One of the most important issues for the Off Street Works at the moment is the delay to the Murrayfield Retaining Walls resulting from the lack of approved construction methodology. In the latest submission of the programme Infraco are estimating a 10 week delay to the completion of the Off Street works. Infraco are attempting to recover this by amending the ground improvement methodology being utilised. This would be in place of the dig out and replace methodology allowed for within the Rev 4 programme. Any such change to methodology will need to be approved by Network Rail.
- Approval to commence the gas main diversion within section 7 remains outstanding (see 7.1 above).
- Delays to a decision on the Edinburgh Gateway works could lead to consequential delays to the Infraco works. SDS have produced an outline option that Transport Scotland prefer as this reduces the amount of abortive works and works to the Edinburgh Gateway train station. Confirmation is required with Infraco that this preferred solution fits within the timeline available. If timelines cannot be accommodated the Edinburgh Gateway will revert to the original alignment with a temporary crossover.
- High Voltage supply to the IPR sub-station requires wayleave across BAA land, this is currently with Scottish Power and is actively being pursued (see 7.1 above).
- Interface with Network Rail at Haymarket Station. Meetings have been held and so far all parties are working well together to deliver the respective works without programme conflict. BBS need to ensure that they keep to their revised programme for the Haymarket works.
- The commercial resolution of Roseburn Delta Footpath remains outstanding.

7.3 Look Ahead

The main elements of work planned to commence in the next period are as follows:

- The work at Haymarket Yards shall have the road tie-ins at the top and bottom
 of the slope completed to allow traffic back on the 7th February 2012. Infraco are
 currently installing OHLE poles and reconstructing the footpath.
- Further to the issue described within section 7.2 the Murrayfield Stadium Retaining Wall and Underpass requires to have the method of work for the ground improvement works agreed with Network Rail.

Progress Report No. 4 9th December - 27th January 2012

Turner & Townsend

(FINAL)

- Work has been progressing well at the Murrayfield Tram Stop, lightweight aggregate fill will be ongoing next period. The north and south main stairs base works, tensar blocks and lift shaft works shall continue.
- On the A8 Underpass the last section of the deck was poured on the 19th
 January 2012. Infraco shall commence the works required to reinstate the
 permanent carriageway.
- Gogar landfill soil nailing shall come to completion and the reinforced earth embankment shall commence.
- Between Gogar to Eastfield Avenue there shall be continuation of track laying.
- Permission has been granted by BAA to commence work at Eastfield Avenue.
 This shall see traffic management implemented for the construction of the crossing.



Trams

8.1 Progress in Period

Good progress has been achieved in the period with six trams in total now delivered, of which 5 have completed static commissioning routine tests and 2 of the trams have now in addition completed the dynamic commissioning routine tests that can be performed within the constraints of the MTT.

Vosloh-Kiepe, the traction equipment subcontractor to CAF, have been on-site in support of the dynamic testing from 09th January 2012.

The Tram Inspector has been in attendance on-site as required in order to witness the formal dynamic commissioning tests. BBS have confirmed that they approve Mott MacDonald in the role of Tram Inspector, but have yet to agree to and sign the Tram Inspector Agreement.

Key Achievements:

- 1. Delivery of trams restarted post Depot handover a month earlier than in the Programme with Tram 270 delivered on the 17/01/12.
- 2. Five trams achieving their static commissioning routine testing, although final test documentation is to follow.
- 3. Two trams achieving their dynamic commissioning routine testing, although final test documentation is to follow.
- 4. The trams delivered to site have now in total completed approximately 100 Km mileage accumulation post delivery to the Gogar Depot (note Tram 252 had completed 252Km prior to delivery at Wildenrath).
- 5. Mikel Irizar joins the CAF Site Team as Tram Interface Manager to be responsible for integration.

8.2 Key Issues:

- 1. The departure from the project of ETL's managing director in advance of Lothian Busses taking operational responsibility for Gogar Depot has resulted in lack of clarity of operational responsibility. Turner & Townsend are working with CEC to put in place the steps necessary to secure a successful transition.
- Mott MacDonald are undertaking the Tram Inspector role as confirmed by email by BBS, however BBS are yet to agree to, and sign, the legal agreement itself. The resolution date for this is expected to be 31st January 2012. This has a potential impact as Risk of a contractual Issue with BBS.

8.3 Look Ahead

Tram Delivery, Test & Commissioning:

- 1. Seventh Tram is expected 30th January 2012.
- 2. Eighth Tram is expected 21st February 2012.
- 3. First Five Trams Dynamically Commissioned Forecast Date, 23rd February 2012.



Assurance

9.1 Progress in Period:

The focus for the Project assurance team this period has been centred around the completion of the mini test track for the 12th December and Section A completion on the 16th December. The team have been working closely with BBS to support the witnessing of key performance tests to verify that the infrastructure and system are 'fit for purpose'.

BBS has allowed access to their document management system to review data prior to handover. This provides a level of comfort to illustrate that the production of documentation is progressing well.

Agreement has been reach with CAF to sign the Interdisciplinary Design Checks Certificates. This information has been provided to BBS for inclusion in the Design Assurance Statements.

Work has continued with Edinburgh Trams Ltd to review and revise their Safety Management Systems in support the handover from BBS. This has been coordinated with the maintainers (Siemens / CAF).

There has been ongoing dialog with Lothian Buses, in relation to dept operatives. It is anticipated that the operationsal responsibility will pass to Lothian Buses by the end of January 2012.

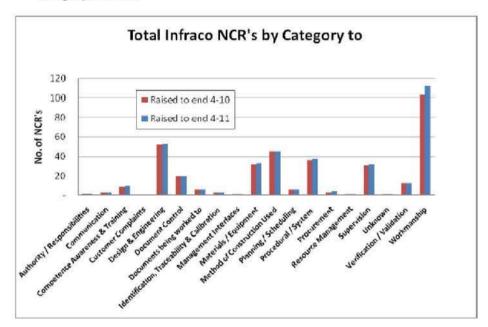
Other key achievements include:

- Agreement of snagging items to support the depot handover process.
- Issue of hard copy operation and maintenance manuals to the depot operator.
- Provision of Railway inspector to support Network Rail third party representative.
- Review of project signage to remove legacy signs. New office signage have been installed.

A combined third party consents tracker has been produced to capture the outstanding requirements to complete the project design and construction activates.

9.2 Quality

From the ongoing monitoring of NCR's, discussions are underway with BBS to identify methods to reduce the numbers for workmanship NCR's received. These are shown in the graph below:





Appendix 1 – Dashboards

Produced by	Shirley Collin & Shirley Mushet	SECTION	SUMMARY DASHBOARD REPORT			Employer	City of Edinburgh Council
Approved by	Julian Weatherley	Issue By:	Turner & Townsend Project Management Limited, 9 Lochside Avenue, Edinburgh Park		Address	Waverley Court, Edinburgh, EH8 8BG	
Status	FINAL	Issue Date	30-01-2012	REPORTING PERIOD	13th to 27th January 2012	Project:	Edinburgh Tram Network

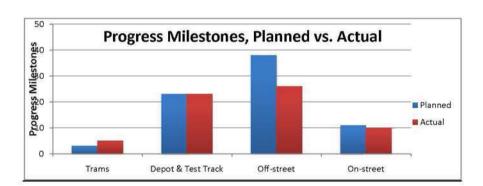
Executive Summa

- There were no reportable accidents during the period from 9 December 2011 to 27 January 2012
 Twelve incidents occurred in total of which one, involving a member of the public, has been
 categorised as significant.
- Shandwick Place forecast to be made available to Infraco on 14 February, four weeks in advance
 of the Rev4 programme date. St Andrew St will be made available, in totality, by the end of
 March circa seven weeks late.
- Scottish Water Legacy Works are likely to require derogations from standards at short notice. The
 resolution of these items is being hampered by poor historical record keeping under MUDFA. T&T
 have requested CEC assistance in the deployment of additional Clerk of Works resource in support
 of this work stream.
- 4. Infraco works in Haymarket1 are currently 56 days late, when assessed against the Rev4 programme. Measures to recover this delay are being explored. This slippage does not currently impact on the critical path for the On Street Works.
- 5. The progression of seventeen Cost Engineering initiatives has been confirmed by CEC.
- Following development of integrated planning of the Infraco and utilities works it is clear that completion of the project in on or before the Rev 4 programme date is increasingly unlikely without the benefit of the proposed Cost Engineering initiatives.
- 7. Infraco are reporting a ten week delay to the Off Street works programme through the Network Rail corridor. This delay is largely the result of failure to obtain Network Rail approvals in line with the Rev 4 programme. Particular concern remains over the lack of approved construction methodology for the Murrayfield Retaining Walls.
- A decision on the scope of the Edinburgh Gateway remains outstanding. The design of a "do minimum" solution is being progressed by Infraco in order to inform this decision.
- Network Rail have advised the project of their plans to develop Haymarket station. Minor modifications to the scope of the Tram works will be required to accommodate Network Rail's proposals.
- 10. Six trams have now been delivered to the depot with delivery currently running a month ahead of programme.
- 11.£2.49m of change occurred in the financial reporting period (22 December 2011 to 27 January 2012) bringing the total instructed change since September 2011 to £3.51m. The AFC for Infraco Works, Utilities Diversions and Trams is currently £500.2M, excluding the impact of delays from utilities works and benefits from Cost Engineering initiatives

C Actions / Decisions

- 1. Agree appropriate delivery strategy for legacy works north of York Place.
- Obtaining permissions in support of the location of revised OLEs in Princes Street and design approvals at Dublin Street & Picardy Place
- 3. Agreement of scope of traffic management provisions in Forth Ports area.
- 4. Agreement of scope of On Street public realm provisions.
- 5. Final Tram Inspector Agreement will require signature by the end of January 2012.
- Clarification on historical commercial position relating to scope of the Roseburn Delta Footpath.
- 7. Secure Scottish Water build over agreements
- 8. Confirmation of scope at Edinburgh Gateway
- 9. Clarity of succession arrangements for the operation of Gogar Depot

Progress Milestones, Planned vs. Actual



VISUAL SECTION



















Produced by	Shirley Collin & Shirley Mushet	SECTION	SUMMARY DASHBOARD REPORT			Employer	City of Edinburgh Council
Approved by	Julian Weatherley	Issue By:	Turner & Townsend Project Management Limited, 9 Lochside Avenue, Edinburgh Park			Address	Waverley Court, Edinburgh, EH8 8BG
Status	FINAL	Issue Date	30-01-2012 REPORTING PERIOD 2012		Project:	Edinburgh Tram Network	

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Additional Content	Haymarket	Haymarket 1 – Completion of Utility moves in	Table 1	200	(335)			Access to site was granted to Infraco on 18-Nov-11, with only minor
	On-Street	advance of Infraco Works	28-Oct-11	16-Dec-11	49	N.	N	
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Commercial Control C	Shandwick Place	Charles T. W. M.						-
Construction	On-Street		07-Mar-12	14-Jan-12	-53	4	N	Site access achieved early to facilitate Utility Clearing Works
Comment	On-Street		N/A	03-Jan-12	N/A	1	N	No forecast date in Rev4. Utility works now in progress.
Committee Consider that of Standards Peace Cut May Marked Congregates 15 April 20 15 April 2	V 1000	commence	-	" pyoulo use	.4			V
Authorities Particulative Authorities	On-Street	Completion of Shandwick Place Utility Moves	N/A	14-Feb-12	N/A		N	
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Special Continued Contin	On-Street	St Andrews Sq Traffic Management	14-Feb-12	07-Jan-12	-38	×	N	
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Complete Teacher Of Scholarium Suprace (Scholarium Suprace Contribution Contributio	On-Street	*St Andrews Square Utilities Work Complete	N/A	14-Feb-12	N/A		N	
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Pacilities As Underpass Completion & Tram Esta Completion of Gogar Burn Tram Stop 17-Oct-12 27-Aug-12 -51 N Delay accom'd within float, no effect on forecast AIR-Depot test track available Interim test track, IPR-GBN available 20-Sep-12 N/A N The interim test track, IPR-GBN, is a proposed milestone Depot & Test AIR-Depot test track available 07-Dec-12 18-Dec-12 11 Y Delay due to the late start of the retaining wall at the Airport, Infraco feel this is recoverable. Tram Test & Commission Trams 1-5; commission 08-Mar-13 18-Mar-13 10 N Delay not expected to have negative impact on other key project objectives Tram Test & Commission T2 Performance Tests. Complete 09-Apr-14 06-Apr-14 -3 N T2 Test must be complete before Shadow Running / T3 Test Tram Test & Shadow Running AIR-VRY complete 09-Shalow Running / T3 Test		CERTAIN IS WELL ASSESSED TO ME TO THE REPORT OF THE RESIDENCE OF THE RESID	#24 CA	EEU SEEL	777		1-55	
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Commission Tram Test & Shadow Running AIR-VRV complete O9-Apr-14 O6-Apr-14	Tram Test &	Trams 1-5: commission	08-Mar-13	18-Mar-12	10		N	
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Tram Test & Shadow Punning AIR-VPV complete OS-Inl-14 OS-Inl-14 3 N T3 Test undertaken during Shadow Punning		T2 Performance Tests . Complete	09-Apr-14	06-Apr-14	-3		N	T2 Test must be complete before Shadow Running / T3 Test
		Snadow Kunning, AIR-YRK, complete	08-Jul-14	05-Jul-14	-3		N	13 Test undertaken during Shadow Running

PROGRESS

1. Assurance- The focus for the project technical assurance team has been centred around the completion of the mini test track. 12th December and Section A completion of the depot on the 16th December. The team has been working closely with 885 to support the witnessing of key performance test to verify the infrastructure and system are 'fit for purpose'.

2. The documentation required to support the handover of the depot has now been received. This has been upload to the "Project Evidence file", and distributed to our Technical Support Service contractor (URS). They are auditing the information through a process of sampling, comment are now due in early February.

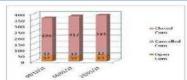
3.Health and Safety - The team have been rolling out the new joint monitoring scheme with BBS, however the level of required monitoring has still to be achieved this should be achieved in the next period.

4.Quality - We are currently working with BBS to review the trends in relation to NCR's, a key area of concern is workmanship. This area continues to produce the majority of NCR's. This has been supported by further on site review of complete works.

5.Environmental – The project continues to maintain a high standard of compliance. With CoCP and site inspections. A number of observation (including fencing, signage, littler) have been raise to B85 for action to improve the external appearance of the work sites.

6.Other - Extensive dialog has been on going with the directors of Lothian Buses, with additional resources supplied to support the operations at the depot. Lothian buses are still in negotiations with CEC to take full responsibility for the depot.

QUALITY



Total No of NCRs raised is 390

9 NCRs were raised during the period and 3 NCRs were closed out during the period.

11 no open NCRs are greater than 6 months old.

A formal site visit was undertaken with BBS to review the workmanship concerns raised at Princes street. A waiting a response from BBS, this may result in an NCR being raised.

ENVIRONMENT

Environmental

1.Joint Environmental Inspection has been carried out with BBS 18/1/12 at Balgreen Road/Water of Leith (Contractor Expanded). BBS have compiled and issued a report (ETN-SSA-001) – the site was in good order with good environmental knowledge.

2.New monitoring programme now issued – environmental inspections will be carried out every 2 weeks with either BBS or a Non Infraco contractor.

Part of the old tram network found at St Andrews Square South/Princes Street.
 GUARD Archaeology consulted and findings being documented by site team.

4.Project Environmental legal Register to be updated during period 12 and issued to Project Managers for information.

CoC

CoCP compilance for this Period has increased and was recorded at 94%.
Q3. Provision of site signage including public contact telephone numbers are being addressed by the respective contractors, this is now being improved.

Q12. Permanent resolution of safety issues relating to wooden temporary walkway at Haymarket are the subject of ongoing discussion between T&T and BBS.





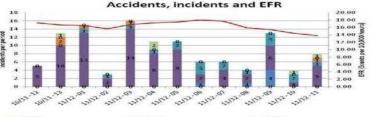
Health &Safety

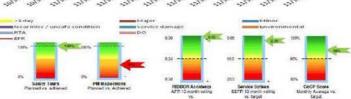
 There were no reportable accidents during the period. The rolling 13 Period AFR remains at 0.00, better than the benchmark KPI of 0.24 for the project.

2.8 incidents were reported during the period.

Ref	Location	Description of Incident	Contractor	Classification
1586	St Andrews Square	A member of the public allegedly tripped over a heras fencing base on a pedestrian walkway.	McNicholas	A member of the public incident
1585	Shandwick Place / Coates Crescent	Spillage of approximately 1 litre of diesel from generator within groundhog unit	Bilfinger Berger	Environmental
1581	Murrayfield	Network Rail stopped work on the Murrayfield transtop due to the Form B not having been signed off by Network Rail.	Grahams	Near misses
1583	Gyle	Scottish Water identified a non standard Illegal connection into a manihole that had been undertaken without the ATC process being followed	Bilfinger Berger	Near misses
1588	Shandwick place	Report received that heras fencing had blown over in high winds:	McNicholas	Near misses
1584	N/A	Anonymous allegation to the Health and Safety, Executive relating to work site personnel operating without correct qualifications and accreditations.	McNicholas,	Others
1587	St Andrew Square	Break in to a welfare unit at St Andrew Square	McNicholas	Others
1582	Canning St / Shandwick Place	A five cable identified by City of Edinburgh Council / Scottish Power within a traffic sign column that had been cropped	Not known	Service damage

TREND

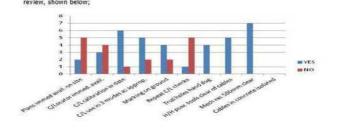




PROJECT INITIATIVES

Deliver the Tram Safely

 Targeted inspections of excavation practice have been carried out with BBS. The results are now under review, shown below:



CONSENTS

It is anticipated that the consents will be granted by April 2012.

Combined Consents requ	ired	1		
	Total Required	Total On Hold	Total Outstansding	Total closed
I hird party	17	4	13	
CI C:Approval	20	7	108	
Technical informations	6	1	5	.3
Planning intermatives	23	8	15	

SOFT ANALYSIS

SUCCESSES

- Targeted inspection of excavations completed.
 - All stakeholders are cooperating well at the
- Technical Support Service (TSS) audit scheme agreed.
- Request of Opinion 18 has been agreed for derailment containment at Ocean Terminal bridges.

OPPORTUNITIES

- Increased monitoring of onsite activities.
 Project Management resources are will become part of integral assurance process.
- 2. Improved technical assurance of tram/
- Infrastructure interfaces.
 3. Safety seminars to be arranged for project
- manager. EMC briefings
- EMC briefings.
 Establishment of project safety meeting.

ATLUDEC

1. Site monitoring below 100%

THREATS

- . Statuary bodies co-operation.
- Late issue of documentation by BBS.
- Potential gaps between contracted maintenance responsibilities
- Visibility of BBS design and assurance documentation.

Produ	iced by	Shirley Collin & Martyn Ayres	SECTION	TRAMS			Employer	City of Edinburgh Council
Appro	oved by	Julian Weatherley	Issue By:	Turner & Townsend Project Management Limited, 9 Lochside Avenue, Edinburgh Park			Address	Waverley Court, Edinburgh, EH8 8BG
Sta	atus	FINAL	Issue Date	30-01-2012	REPORTING PERIOD	13 th to 27 th January 2012	Project:	Edinburgh Tram Network

PROGRESS IN PERIOD	PHOTOGRAPHS	KEY ISSUES

- Good progress has been achieved in the period with six trams in total now delivered, of which 5 have completed static commissioning routine tests and 2 of the trams have now in addition completed the dynamic commissioning routine tests that can be performed within the constraints of the MTT.
- Vosioh-Kiepe, the traction equipment subcontractor to CAF, have been on-site in support of the dynamic testing from 09/01/12.
- The Tram Inspector has been in attendance on-site as required in order to witness the formal dynamic commissioning tests. BBS have confirmed that they approve Mott MacDonald in the role of Tram Inspector, but have yet to agree to and sign the Tram Inspector Agreement.
- Delivery of trams restarted post Depot handover a month earlier than in the Programme with Tram 270 delivered on the 17/01/12.
- The trams delivered to site have now in total completed approximately 100 Km mileage accumulation post delivery to the Gogar Depot (note Tram 252 had completed 252Km prior to delivery from Wildenrath).
- 6. Mikel Irizar joins the CAF Site Team as Tram Interface Manager to be responsible for integration.



Tram Testing 12th December 2011

- Mott MacDonald are undertaking the Tram Inspector role as confirmed by email by BBS, however BBS are yet to agree to, and sign, the legal agreement itself. The resolution date for this is expected to be 31[®] January 2012. This has a potential impact as Risk of a contractual Issue with BBS.
- Lothian Buses have yet to take operational responsibility for the Depot leaving responsibility unclear, steps are to be agreed with CEC in order to make this transition.

LOOK AHEAD

The following items will be progressing during the coming period:

- Seventh Tram is expected 30th January 2012.
- 2. Eighth Tram is expected 21st February 2012.
- 3. First Five Trams Dynamically Commissioned Forecast Date, 23rd February 2012.



ram Testing 12" December 2011



Bridge beams installed at Edinburgh Park viaduct

CEC ACTIONS / DECISIONS

 Letter of Intent was sent from CEC to Mott MacDonald for the Tram Inspector. Final Tram Inspector Agreement will require signature by the end of January 2012.

succ	ESSES	OPPORTUNITIES				
1. 2. 3. 4. 5.	Start of dynamic Tram Commissioning Testing Mott MacDonald introduced into Tram Inspector role Relationship with Project Teams. CAF Interface Manager (Mikel Iridar) appointed to strengthen Tram/Infrastructure integration. CAF Maintenance Team in place now and learning on the job through commissioning. Tram 6 to 10 planned to be delivered early.	1. 2. 3.	Euro Exchange Rate fluctuation against the pound Start system testing and commissioning on completion of Off Street Section (Airport to Shandwick Place crossover) leading to earlier commencement of Revenue Service date (early partial service on Off Street Section and early service on full route) Strengthening of Tram integration technical interface management			
NAMES OF THE OWNER, WHEN	FAILURES identified	1. 2. 3. 4.	THREATS Relationship between BBS (primarily Siemens) and CAF needs to be strengthened on integration and coordination of testing. Late commencement of Revenue Service Commencement Date causes CAF to claim costs and EOT. CAF documentation Procedures (Not Design). Need to convert plan to handover responsibility of depot operations from ETL to Lothian Buses.			

Produced by	Shirley Collin & Rob Leech	SECTION	ON STREET DASHBOARD REPORT			Employer	City of Edinburgh Council
Approved by	Julian Weatherley	Issue By:	Turner & Townsend Project Management Limited, 9 Lochside Avenue, Edinburgh Park		Address	Waverley Court, Edinburgh, EH8 8BG	
Status	FINAL	Issue Date	30-01-2012	REPORTING PERIOD	13th to 27th January 2012	Project:	Edinburgh Tram Network

Status	FINAL	Issue Date	30-01-2012	REPORTING PERIOD	13th to 27th January 2012	Project:	Edinburgh Tram Network
		20					
Ti-	PROGRESS IN PERIOD		PHOTOS			KEY ISSUES	

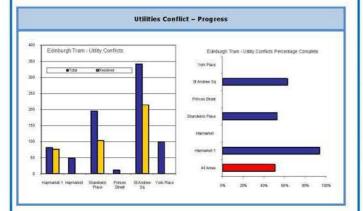
- Scottish Water works completed in Princes Street allowing traffic to be switched in early January
- Traffic Management switches
- Works are underway to deal with utility conflicts.
- Piling completed ahead of Infraco schedule in H1 Excavating and backfilling air raid shelter in H1
- OLE pile cap construction
- Early completion of non M&E Princes Street works being targeted
 Princes Street works re-sequenced recently to ensure bus traffic can be switched in early March
- Prolongation assessment complete and will not impact the project end date, potential commercial liability accounted for in this periods cost report.
- 10. Third party approvals and consents for Dublin Street Steps, Picardy Place and Princes Street OLE redesign were progressed during the period.

 11. Re-sequencing of traffic management opportunities being pursued
- 12. Design work north of York place on hold pending the outcome of a review
- 13. Works required in the Forth Ports/Lindsay Road area assessed and programme being developed.

LOOK AHEAD

The following items will be progressing during the coming period:

- Enabling works in Haymarket and Shandwick Place due to commence 24 March 12
- Closure of Princes Street east bus lane 03 March 12
- Utilities team is also beginning planning work in relation to the utilities at York Place.
- Infraco works will continue in Haymarket 1 including pile cap construction, filling of the air raid shelter and earthworks to allow construction of the track slab and pavements.
- Utility conflict works in Shandwick Place 14 February 12 ahead of Rev 4 programme
 Remedial and non M&E works by Infraco will continue in Princes Street and Turner & Townsend will seek to carry out some legacy works in the area ahead of completion of the non M&E works in the summer of this year.
- Utility conflict in St Andrew Street North and St Andrew Square 14 February 12 in accordance
- Work in St Andrews Street South delayed until end March 12



















KEY ISSUES

- Scottish Water relationship
 - Legacy works database being finalised range of utilities
- Legacy works within tram worksites Possible delays, categorisation being finalized
- Legacy works at North of York Place Strategy being finalized Delays at St Andrew Street – Mitigation measures being explored Utility conflicts outside DKE +2

 - Infraco compliance Princes Street inspection

CEC ACTIONS / DECISIONS

- Obtaining permissions in support of the location of revised OLEs in Princes Street and design approvals at Dublin Street * Picardy Place
- Agree appropriate delivery strategy for legacy works north of York Plac

ON STREET SOFT ANALYSIS

SUCCESSES

- Princes Street hand back
- Traffic Management switches on time
- Cost engineering initiative TM Phasing
- Good working relationships with BBS Piling works at Haymarket ahead of schedule
- Optimize revised traffic phasing Close out works at Forth Ports & Lindsay Road
- Curtail design north of York Place

FAILURES

- Carriageway vertical alignment in south St
- Andrew St
- SDS OLE design MUDFA contract administration & supervision
- Lack of clarity over consents requirements &

OPPORTUNITIES

- 1. Legacy works at Leith Walk
- Legacy works within tram worksites
- Scottish Water relationship
- Unknown utilities IC adjudication on OLEs
- Approval of OLE/Dublin Street & Picardy Place
- Infraco delay to Rev 4 due to utilities
- Infraco non-conformance

Produced by	Shirley Collin & Shirley Mushet	SECTION		OFF STREET DASHBOARD REPORT	Employer	City of Edinburgh Council	
Approved by	Julian Weatherley	Issue By:	Turner & Towrsend Project Management Limited, 9 Lochside Avenue, Edinburgh Park			Address	Waverley Court, Edinburgh, EH8 8BG
Status	FINAL	Issue Date	30-01-2012	REPORTING PERIOD	13 th to 27th January 2012	Project:	Edinburgh Tram Network

Approved by	Shirley Collin & Shirley Mushet Julian Weatherley	SECTION Issue By:	OFF STREET DASHBOARD REPORT Turner & Townsend Project Management Limited, 9 Lochside Avenue, Edinburgh Park			Address	City of Edinburgh Council Waverley Court, Edinburgh, EH8 8BG
Status	FINAL	Issue Date	30-01-2012	REPORTING PERIOD	13th to 27th January 2012	Project:	Edinburgh Tram Network

- Russell Road Bridge; east abutment piling complete;
- Russell Road Retaining Wall W4; bored piling continuing;
- Roseburn Street Structures; sewer diversion and bored piling; Water of Leith Bridge; bored piling to centre pier commenced;
- Baird Drive Retaining Wall; earthworks commenced;
- Baigreen Road Bridges; installation of temporary works and bored piling progressing;
- South Gyle Access bridge; columns installed;
- Edinburgh Gateway; 'do minimum' scope options being progressed;
- A8 Underpass; last section of the deck to be poured;
- 10. Edinburgh Park Corridor; drainage and sub-base construction commenced;
- 11. Eastfield Avenue to Gogarburn Bridge to Gogar Farm Road; track laying has commenced in sections;
- 12. NIL crossing future proofing duct and drainage installation commenced;
- 13. Ingliston Park and Ride; substation fit out has commenced;
- 14. Airport retaining wall; sheet piling continuing;
- 15. EAL tramstop and klosk; secant piling commencement in the period to 27th January 2012 the main achievements were:

PROGRESS IN PERIOD

- 16. Mini test track completion on the 12th December 2011
- 17. Completion of Section A and handover of the depot on the 16th December 2011.

LOOK AHEAD

The following items will be progressing during the coming period:

- Haymarket Substation installation of pipework:
- Haymarket Yards; OLE pole installation and road reopening;
- Haymarket Corridor; installation and testing of ducts and drainage and redesign of three OLE plinth (bottom of Haymarket Yards);
- Russell Road Retaining Wall W3; site clearance and demolition;
- Murrayfield Stadium Retaining Wall and Underpass; method of work to be agreed with Network Rail for ground improvement works;
- Murrayfield Tram Stop; lightweight aggregate fill, north and south main stairs base works and
- tensar blocks and lift shaft works will be ongoing;
- Gogar landfill; completion of soil nailing;
- NIL crossing; Drainage and ducting future proofing works ongoing; Gogar to Eastfield Avenue; continuation of track laying and
- Eastfield Avenue; Crossing construction shall commence.

Network Rail Approvals

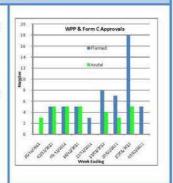
Week Ending 20th January 2012

4 documents on the priority list: 3 documents approved that were not on the priority list and 1 document not signed by the CRE.

Week Ending 27th January 2012

9 documents on priority list; 3 not ready for TPR or NR approval until 24th January, 1 not ready until 25th January and required Saturday night 28th

January (turned out to be 9 documents not 4), 4 signed off by Network Rail and one being reviewed by Network Rail.



PHOTOS



Baird Drive Embankment Construction



Future Proofing of NIL Crossing



Soil Nailing at Gogar Embankment

KEY ISSUES

- Edinburgh Gateway do minimum option potential impact on run time and maintenance.
- Decision on the Edinburgh Gateway works to ensure no delay to the Infraco works.
- High Voltage to the Ingliston Park and Ride sub station wayleave with Scottish Power.
- There is now a positive relationship with Network Rail on Haymarket interfaces. BBS need to keep to their revised programme.
- A methodology is required for the Murrayfield ground improvements. Infraco
- are holding discussions with subcontractors 25th January 2012.
- Submission and approval of construction documentation by Network Rail has not kept pace with project targets. This is the result of poor planning of document production.

CEC ACTIONS / DECISIONS

- Clarification on historical commercial position relating to scope of the Roseburn Delta Footpath.
- Confirmation of scope at Edinburgh Gateway

STREET SOFT ANALYSIS **OPPORTUNITIES** 1. Section A completion with Depot and Mini test track 1. VE opportunities identified Off Street. Develop closer working relationships with key stakeholders such as Scottish Water and Network Rail. handover. 2. Positive working relationship established with Network Rail on Haymarket Station Interface 3. Analysis to be undertaken to see if programme can be 3. Railway Supervisor now onboard to assist with Third brought forward for running to the IPR and then the Party Duties and site supervision along the railway corridor. 4. SGN working on the diversion of the high pressure main at Ingliston. 5. Deputy CRE brought onboard by BBS. 6. Positive meeting with RBS on Tram Stop FATILIBES 1. BBS failure to get documentation through to Network 1. Delays by Transport Scotland on a decision on the Edinburgh Gateway works could lead to consequential delays to the Infraco works. 2. HV supply to the IPR sub station has not yet been finalised. Requires wayleave across BAA land. 3. Interface with Network Rail along the railway corridor. 4. Reduced working hours due to bad weather during 5. Lack of rail experience among some package 6. Murrayfield Ground Improvement methodology not having been produced and presented to Network Rail

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Produced by	Shirley Collin & Gary Easton	Function	COMMERCIAL		Employer	City of Edinburgh Council	
Approved by	Julian Weatherley	Issued By:	Turner & Townsend Project Management Limited 9 Lochside Avenue. Edinburgh Park		Address	Waverley Court, Edinburgh, EH8 8BG	
Status	FINAL	Issue date	30 January 2012	Reporting Period	4-11 to 1 Feb 2012	Project	Edinburgh Tram Network

Summary:

- 1. The AFC for Infraco Works, Utilities Diversions and Trams is £500.2M and is in line with the budget.
- 2. A detailed cost report has been submitted to CEC under separate cover.
- The AFC does not contain the potential benefits from the value engineering and does not account for the final QSRA/QCRA.
- We have agreed with CEC that the draft QSRA/QCRAs will be updated once the revised programme has been established and the value engineering instructions have been approved by the CEC Executive.
- The revised QSRA/QCRAs will be used to mitigate risks and advise on contingency requirements. The forecast contingency balance is £7.0M which represents the original contingency less Approved Change, Change in Progress and Anticipated Change.
- Cost movements will be tracked over the 4 week reporting period using the weekly CEC/T&T Change Meeting as the cut off for the reporting period. Movements in the interim 2 week dashboard will be highlighted.
- 7. A summary of the cost movements (£Ms) in this period are:

[* Note: £0.7M adjustment to Utilities to align with budget of £2.9M. This has no effect on the overall forecast]

Reporting Date	Approved	In Progress	Anticipated Change	Forecast Contingency
27th January	3.51	5.75	15.03	7.21
22nd December	1.02	6.81	16.67*	7.00
Movement	2.49	-1.06	-1.64	0.21

- Note: The balance of the utilities diversion costs, utility company cost, £9.5M and the delay in signing Rev3A to Rev 4 at £4.5M are included in Anticipated Changes. These costs are subject to further development and mitigation.
- Contributions from 3rd Parties, Stakeholders and other CEC budgets amounts to £2.7M which reduces the original budget provision for Opportunities from £11M to £8.3M.
- 10. The Cost report includes £8.3M for opportunities. The de-scoping of the works at Forth Ports, £2.4M, has been instructed which leaves a balance of £5.9M to be secured from the value engineering.
- 11. BBS have raised fourteen Pricing Assumption Variations (PAVs) in the On-Street Works and there are two variations on the Off-Street works which require resolution in principle.
- 12. The On-Street PAVs which require resolution in principle include (see opposite RED items): the disconnection of power to bus trackers. BBS maintain this is excluded, T&T consider that this was a known item of work and therefore was not discovered. Work is ongoing to establish the costs of the disconnections by McNicholas, the scope and price of the site clearance items to achieve a satisfactory resolution.
- 13. The Off-street items which require resolution in principle include: liability for the costs for the footpath at the Roseburn viaduct and payment for utility diversions off street. Work is ongoing to achieve a satisfactory resolution.
- 14. A report has been issued to CEC following our meeting with McGrigors. The report identifies a variance between the Mediation Heads of Terms in relation to the client taking the risk relating to all utility diversions and the requirement of the Settlement Agreement that utilities must be discovered to result in a variation. Further investigation would be required to determine what BBS (SDS) knew (surveys, designs, desktop analysis of utility company records) in order that the discovery test could be established. The cost report contains £2M of costs associated with the consequences of utilities on OLE foundations (delay to BBS, piling costs and standing time etc). CEC are to advise if further investigations are required to prove responsibility.
- 15. £1.8M has been approved for Priority 1 conflicts within the Track Zone to March to increase the approved budget to £4.7M including the Leith Walk remedial works. Priority 1 conflicts include; OLE bases, road level conflicts, tram ducting chambers, tram ducting and track construction. The cost model is being refined to account for the emerging scope of work in Shandwick Place and St Andrews Square to cover unforeseen work e.g. removal of foam concrete, steelwork within the road construction, utilities being In the wrong location. The estimate is also being revised to account for the opportunity to mitigate Priority 2 conflicts, e.g. traffic signs and also the emerging Utility Company Costs.

Period Approved

Approved to 22 December reporting date	£1,016K
Additional BT ducts at depot and min test track	(
Design Gogar Castle Access Road – tram crossings and approaches	31
Edinburgh Gateway – Advance Temporary Works Design & minimum design	15
Design changes resulting from utilities – OLE, circular pile cap, ducting, drainage, track form	55
Edinburgh park office accommodation – running costs	79
On-street variations – periods 15 Oct and 12 Nov 2011	111
Drawdown for Utility diversions/protection within track zone (to March 2012)	1,800
Cathedral Lane Sub-station retaining wall	. 5
Haymarket Station – delete cladding installation, substation retaining wall and plinth	-20
Depot water main – surface reinstatement works	60
On-Street Variations – period end 10 Dec 12	357
TOTAL	£3,514k

IN PROGRESS

Key Items

- Rationalisation of design, site investigations for utility diversions £0.20M;
- Transfer of costs included in On-Street Works Period end estimates -£0.36M;
- Reduction in bus tracker power disconnections (undertaken by McNicholas) -
- Early installation of TM at Shandwick Place additional maintenance £0.18M

ANTICIPATED CHANGE

Key Items

- Cathedral Lane sub-station £0.4M
- Cycleway Mound/Hanover St £0.93M
- Delay and prolongation utilities affecting OLE foundations, piling etc £0.83M
- Roseburn Delta footpath £0.3M

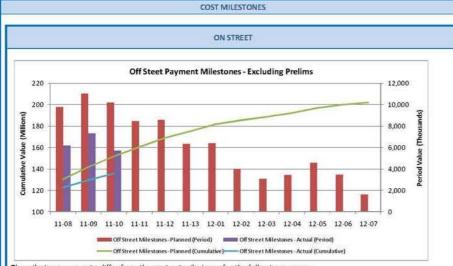
CHANGE

PAVS Description (EM) Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes Princes Street - 500mm Water Main Diversion Utilities affecting the construction of OLE foundations Site Wide - Power to bus trackers affecting the ability to remove site clearance items Site Wide - Increased number of drainage boxes including installation Haymarket H1 - Third Party (McNicholas) affecting ability to progress the works Haymarket H1 - BT Fibre Optic Service requires diverting Princes Street - Amend the design of the St. Johns Church OLE Princes Street - 2011 Christmas Embargo - Temporary Surfacing of Track Infills St Andrew's Square & Shandwick Place - Traffic Management Requirements Haymarket 1 - OLE Base Relocations On Street Generally - Worksite Modelling BT Diversion at Waverley Bridge Unidentified utility discovered when piling (OLE 131 100A) Payment for Utility diversions off site outwith BBS's scope (cost

report assumes cost neutral)

DDA Footpath Roseburn Viaduct

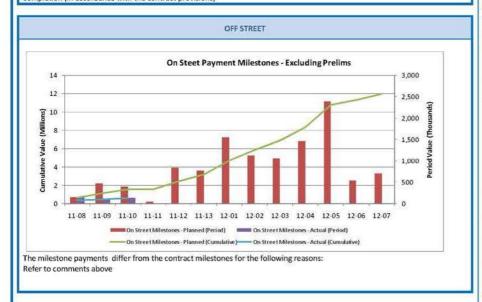
Produced by	Shirley Collin & Gary Easton	Function	COMMERCIAL			Employer	City of Edinburgh Council
Approved by	Julian Weatherley	Issued By:	Turner & Townsend Project Management Limited 9 Lochside Avenue. Edinburgh Park		Address	Waverley Court, Edinburgh,EH8 8BG	
Status	FINAL	Issue date	30 January 2012	Reporting Period	4-11 to 1 Feb 2012	Project	Edinburgh Tram Network



The milestone payments differ from the contract milestones for the following reasons:

Contract milestones are based on Programme revision 3 whereas contract programme is based on revision 4.

Contract milestone schedule indicates all payments are at completion of the milestone. Actual payments are based on partial completion (in accordance with the contract provisions)



Ref	Opportunity	Potential Direct Cost Benefit (small; medium; large)	Programme/Risk Benefit (small; medium; large)	CEC Decision on capturing Opportunity (Agree/Reject/ or ?)
1	Relaxation of traffic management and embargoes			А
3	Non-use of Setts (setts to be included, budget contribution to	eived)		?
4	Public Realm Works at St Andrew Square			A
5	Third Party Agreements			3
5a	Forth Ports			A
5b	Tram kiosk at airport (not to be taken forward)	-		R
6	Tram stop at York Place			А
7	Redeployment of surplus trams			A**
8	Track Materials			А
9	Omit works at Tower Place & Victoria Docks			A
12	Road Reconstruction			A
13	Stop design YOP-NEW	II.		А
14	Storage of Materials			A
16	Further OFF-STREET VE Opportunities			7
Small = <	£100k or < 1 week			
Medium =	=< £1M or < 1 month ** P	al purchasers to be identified	i i	1

Risk	Level	Owner	Comments
Risk that contract is moved to cost reimbursable	000	Julian Weatherley	Monitoring, with continued project management effort to avoid.
Risk that additional scope/work is required that is not currently scheduled or costed	0000	Julian Weatherley	Continuous fiaison with Infraco regarding additional scope/design to identify at earliest stage. Managed by the section PMs. Design Manager in place
OLE bases conflict with existing unknown and known utilities	900	Stephen Lewcock	Piled solution with enabling works contractor installing pile guides or alternative design . TM review to allow additional time
Discovery of additional Track construction conflicts (Live)	900	Stephen Lewcock	Utility owners providing live and dead drawings. TM review to allow additional time. BB bridging track form. Localised sleaving of track/slit trenching
Fram (CAF) / Infrastructure (Infraco) integration risk. Risk that Infrastructure and Tram meet the employers requirements but are incompatible such that system is inoperable	(161)	Alastair Richards	Mapping of programme interfaces between infraco and CAF programmes being developed and detailed mitigation strategies for programme interface crunch points assigned Tram integration manager (Alistair Richards) appointed. CAF Interface manager (Mikel Irizar) to start from mid-January 2012
			Section testing ongoing. Programmed testing of complete track prior to project completion.
Risk that the project relationship with Scottish Water deteriorates and access to utilities and resolving of delay issues becomes prolonged	9689	Rob Leech	Dedicated Scottish Water account Manager appointed. Meetings ongoing with Scottish Water (SW). Steering Group set up with Project Director attendance Co-located SW & T&T teamily possible
Risk of delay due to or failure to obtain NR approval to build as a result of clause 16.2 (NwR corridor)	4900	Shirley Mushet	3rd party rep approved by NR. Meetings ongoing with NR. Assisting contractor in production of a detailed plan for the submission and approval of NR approval documentation. Co-located team now onsite
Late 3rd party claims for utility/property damages from works	(000)	Rob Leech	Utility provider presence on site and robust sign off process in place. Scottish Water Legacy work costs to be evaluated and included in forecasts
Delay to gaining design Consents due to delays by 3rd parties (NR, SW, BAA, SG, Planning informatives etc)	900	Rob Leech	Monthly meetings with stakeholders ongoing. 3rd Party Agreements tracker, design review tracker & informatives register being maintained Ongoing Niegotiations with Soctists Mater regarding specific high risk issue
Design approvals milestones are not met in line with rev4 programme	1910	Rob Leech	Fortnightly design team meeting attended by all stakeholders. Tracking SDS Design Programme. Traffic light system for design approvals SDS design programme is incorporated into Master Schedule.



Appendix 2 – Health, Safety & Environment

Deliver the Tram Safely / Deliver a safe Tram





Project Report - Period 11

Total	Total Hours	>3 day	Major	Injury	NM/Unsafe Condition	Service Damage	ENV	RTA	МОР	AFR	SFR
Period	77,026	0	0	0	3	1	1	0	1	0.00	1.30
13 period rolling	823,831	0	0	6	79	18	5	0	5	0.00	2.18
INFRACO											
Period	68,441	0	0	0	2	0	1	0	0	0.00	0.00
13 period rolling	647,530	0	0	6	62	13	4	0	3	0.00	2.01
OTHER TRAM											
Period	2,862	0	0	0	1	1	0	0	1	0.00	34.95
13 period rolling	22,578	0	0	0	16	5	0	0	1	0.00	22.15



EXECUTIVE SUMMARY

- There were no reportable accidents during the periods 10 and 11. The rolling 13 Period AFR remains at 0.00, better than the benchmark KPI of 0.24 for the project.
- There were 2 reported Member of Public incidents during Period 10 and 11. Both involved slips/trips on temporary pedestrian walkways. (See Appendix A for details)
- CoCP compliance was recorded at 94% during Period 11
- 36% of planned PM joint inspections have been carried out during Period 11.
- 100% of planned safety tours were carried out during Period 11.
- 10 other incidents occurred during the periods 10 and 11 (3 near misses, 3 service damages, 1 minor injury, 1 environmental and 2 other) See Appendix A for details.





Project Report - Period 11

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	14					
Number achieved	1	5					

HSQ&E KEY ACHIEVEMENTS

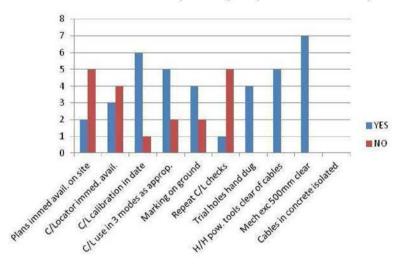
 The rolling 13 Period AFR remains at 0.00, better than the benchmark KPI of 0.24 for the project.

Key Issues - Points to Note

- Following an alleged MoP slip at a wooden temporary walkway at Haymarket, T&T raised concerns
 with BBS over the management of safety at the installation. BBS have subsequently undertaken to renew the slip resistant surface and to ensure vigilance in monitoring and gritting. The walkway is likely
 to be removed during February 2012. T&T site staff will continue to monitor BBS management of
 public safety at this temporary pedestrian route.
- A programme of targeted inspections has been carried out jointly by T&T and respective contractors at
 excavation sites across the project. Whilst more than 20 excavations were inspected those with active
 excavation taking place were assessed for compliance with HSE guidance HSG47. The results from 7
 such sites are summarised in the chart below. Similar failings were identified on both BBS and
 McNicholas sites and these are now being addressed through toolbox talks, on site coaching and
 increased supervisory vigilance. Failings included:
 - Site plans being on site but not immediately available to team (e.g. with excavator operator)
 - Cable locator being share by multiple teams resulting in restricted use
 - Repeat scanning with cable locator not being undertaken as excavation progresses

Repeat inspections in around 2 months will assess improvement.

Safe Excavation Inspection (Compliance with HSG47)



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Project Report - Period 11

ENVIRONMENTAL SUMMARY

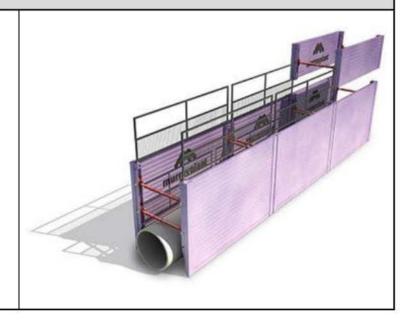
List any significant environmental events, initiatives, breaches etc

- Joint Environmental Inspection carried out with BBS 18/1/12 at Balgreen Road/Water of Leith (Contractor Expanded). BBS have compiled and issued a report (ETN-S5A-001) – the site was in good order with good environmental knowledge.
- New monitoring programme now issued environmental inspections will be carried out every 2 weeks with either BBS or a Non Infraco contractor.
- Part of the old tram network found at St Andrews Square South/Princes Street. GUARD Archaeology consulted and find being documented by site team.
- Project Environmental legal Register to be updated during period 12 and issued to Project Managers for information.

BEST PRACTICE

List any significant quality events, initiatives, breaches etc

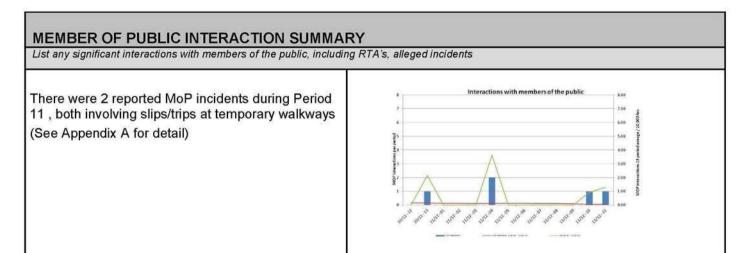
 BBS arranged an on-site safe excavation demonstration focussing on correct use of trench boxes.







Project Report - Period 11



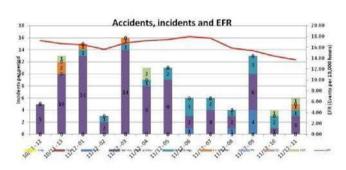
CDM Compliance

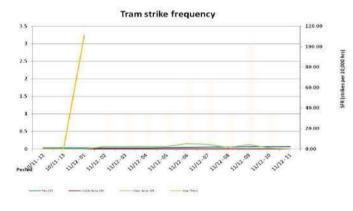
List any significant quality events, initiatives, breaches etc

 Responses and close out statements were received from BBS following an audit conducted on compliance with CDM (Reg9). Some residual issues were transferred into the snagging programme developed during the depot handover process. The lack of natural light has been raised formally by the operator.

GRAPHS











Project Report - Period 11

APPENDIX A SIGNIFICANT INCIDENTS

There were 2 significant incidents during periods 10 and 11 as detailed below:-

AIIR Ref:	AIIR 1579	Contractor:	Graham	Grahams			
Location:	Walkway between Ha	ymarket Station and Haymarke	t Yards	S			
Project:	Infraco	Date & Time:	19/12/1	19/12/11 before 8:30			
Sub Contractor:		Contractor Reference:					
Project Manager:	Tom Cotter	Is the accident / incide Serious / Significant or		Yes X	No		
Description:	Incident reported by e-mail to Alf Orriell by Suezi Page, ICAS. Member of public fell on wooden walkway between Haymarket Station and Haymarket Yards. Member of public later attended Accident & Emergency 19/12/11 and was diagnosed as having cracked her coccyx.						
Action taken by Contractor:		d daily inspections BBS have un urface as often as necessary, as permanent solution.					
Action taken by Project Team (if required):	Site visited by T&T, photographs taken. Concerns over management of walkway were raised with BBS who subsequently undertook to re-new slip resistant surface and to ensure vigilance in monitoring and gritting. Walkway likely to be removed during February 2012. T&T to monitor effectiveness of BBS preventative actions.						

AIIR Ref:	AIIR 1586	Contractor:	McNicholas.				
Location:	St Andrew Square bus station						
Project:	Utility works	Date & Time:	16/01/12 AM				
Sub Contractor:		Contractor Reference:			b.7748*		
Project Manager:	Stephen Lewcock	Is the accident / incident Serious / Significant or Ma	State of the second		No		
Description:	Member of Public allegedly tripped on Heras fencing base protruding into pedestrian walkway outside St Andrew Square bus station.						
Action taken by Contractor:		report being received. McNicho olbox talks / site briefings regard		100			
Action taken by Project Team (if required):	그 사람이 하나 있는데 하는데 하는데 하면 하다면 하다 하는데 하나 하는데 하다 하나 하다	eventative actions discussed with safety forum with other contrac		d learning	points to		

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Project Report - Period 11

APPENDIX A (Continued)

Other Incidents

Date	Contractor	Accident / Incident Type	Detail	Category
14/12/2011	Farrans	Minor injury	Operative was loading a van and was standing over a manhole which was covered by a single piece of heras fencing & a piece of timber. Heras fencing gave way & the operative fell half into the manhole. Minor injury to leg, but no treatment was required.	Minor
16/12/2011	Grahams	Service damage	Graham Construction were receiving two loads of trench fill from SKENE group Haulier when it was noticed by one of the site operatives that the second vehicle of two was manoeuvring from the footpath on to the carriageway. It was noticed that the vehicle went down on one side indicating a dip. Upon inspection it was found that a BT junction box had sustained damage to both its frame and lid.	Minor
04/01/2012	McNicholas	Service damage	Hand digging as preparation for OLE base at Shandwick Place area the team struck a lead water service with the shovel.	Minor
06/01/2012	Grahams	Near miss	Network Rail stopped work on the Murrayfield due to the Form B not having been signed off by Network Rail.	Minor
13/01/2012	Not known	Service damage	Phil Carson of Scottish Power attended site and discovered that there was cable still live located within a traffic sign that had been chopped. The access cover to the pole was open and accessible to the public.	Minor
13/01/2012	Bilfinger Berger	Near miss	Scottish Water inspected the MH 9202 on drawing ULE90130-05-DNE-00022 Rev11. A non standard illegal 150mm connection to a Scottish Water network MH 9202 without an ATC or informing Scottish Water the works were being started was identified.	Minor
16/01/2012	McNicholas	Other	Anonymous allegation to the health and Safety Executive relating to work site personnel operating without correct qualifications and accreditations.	Minor
19/01/2012	Bilfinger Berger	Environmental	Spillage of approximately 1 litre of diesel from generator within groundhog unit.	Minor

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Project Report - Period 11

Date	Contractor	Accident / Incident Type	Detail	Category
19/01/2012	McNicholas	Other	Break in to welfare unit.	
22/01/2012	McNicholas	Near miss	Report received that heras fencing was blowing around on Shandwick Place. Fencing secured by City Logistics.	Minor

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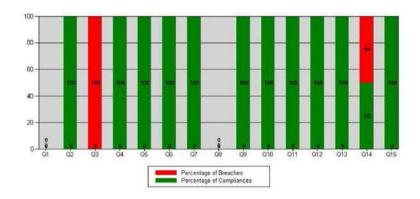




Project Report - Period 11

APPENDIX B - COCP INSPECTIONS

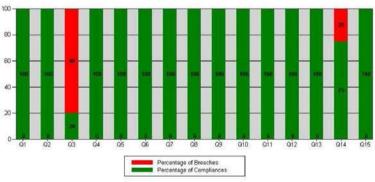
Period 10





Q1. Hours of Work
Q2. Notification
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







Summary of issues and action taken

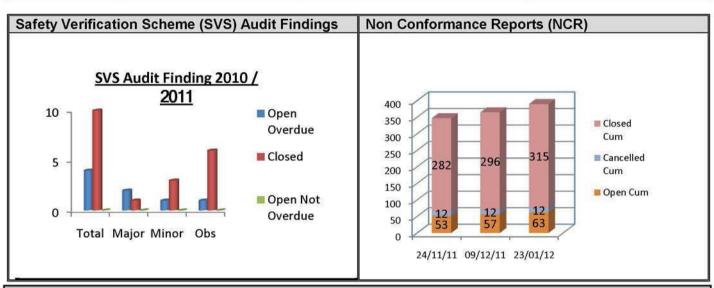
- Concerns over management of public safety at temporary walkway at Haymarket were raised with BBS who subsequently undertook to re-new slip resistant surface and to ensure vigilance in monitoring and gritting. Walkway likely to be removed during February 2012. T&T will continue to monitor the effectiveness of BBS preventative actions at this location.
- Provision of site signage including public contact telephone numbers are being addressed by the respective contractors.



Deliver a Safe Tram



Project Report - Period 11



1.0 Executive Summary

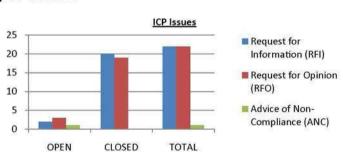
- BBS has not progressed with closure of SVS Audit report TSA/10/003. A letter is being issued to escalate this.
- Currently awaiting formal responses to SVS audit report TSA/11/02, further letter sent to BBS 23/1/12.
- Independent Competent Person (ICP) 2 open Requests for Information (RFI's) (1 on hold); 3 open Requests for Opinion (RFO's) and 1 open Advice of Non Compliance (ANC).
- Submissions relating to Section A (Inspection and Test Plans & Design Assurance Statement) are currently under review by Technical Support Service (TSS)
- Signalling & Traffic Reversing crossovers at Leith Walk, York Place and Shandwick Place are still being finalized by SDS.
- OLE Building Fixings Notices to be issued w/c 23/1/12 for the two fixings on Hanover Street and the one proposed fixing on Shandwick Place. A 28 day notice period is in place from date of notice, and if no objection is received, then deemed consent.
- Power & OLE BBS have yet to resolve the CEC informative regarding finials. Siemens are to
 obtain a sample to show CEC planners to enable final closure of this informative.
- Programme for metrics inspections has now been issued, inspections to resume during period 12.
- NCR's 25 NCRs were raised during the period and 19 NCRs were closed out during the period.

2.0 Safety Verification Scheme (SVS)

System Assurance

- SVS Audit TSA/11/02 Systems Integration and Engineering (Integrated Design Check (IDC) Process) held 23rd November 2011. Report issued to BBS December 2011; formal response awaited – to be chased during period 12.
- SVS Audit findings TSA/10/03/002 & 004 require further clarification.
- SV reports tie-SVS-REP-11-03 for Junction 91. Response received and is currently under review by David Manning.
- Body of Evidence progressing well with the collation of documentation.

ICP Issues



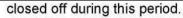
- RFI-021 Action outstanding BBS to provide suitable drawings showing CCTV/PA coverage to enable assessment of any additional requirement. Due 09/12/11
- RFI-014 and RFI-017 are expected to be



Deliver a Safe Tram



Project Report - Period 11



- Information associated with RFO-018 and RFO-021 has been received during the period, currently being reviewed prior to submission to the ICP.
- RFO-022 re Emergency Isolation Procedure for depot and mini test track issue 18/1/12, response outstanding

3.0 BBS Design Construction and T&C Assurance

Electromagnetic Compatibility (EMC)

No EMC issues to report this period

Trackform

 W Biggins and CEC (A Renwick) reviewed and approved the draft "Design of on-street Trackform" [Ref. CEC Letter SS1/AR]

OLE Building Fixings

 Notices to be issued w/c 23/1/12 for the two fixings on Hanover Street and the one proposed fixing on Shandwick Place. A 28 day notice period is in place from date of notice, and if no objection is received, then deemed consent.

Power & OLE

 BBS have yet to resolve the CEC informative regarding finials. Siemens are to obtain a sample to show CEC planners to enable final closure of this informative.

Signalling and Traffic signals

- Reversing crossovers at Leith Walk, York Place and Shandwick Place are nearing completion by SDS. The design is in final internal review prior to submission to CEC for approval. No delivery date is available yet.
- Point controller cabinet & layout foundation previously reviewed. It was noted that the layout of
 cabling and equipment was missing from the submission. System schematics for these cabinets
 now received and under review. Checking Points control equipment for motorised points. David
 Manning has now taken over this issue and will provide an update during period 12.
- Meetings held to agree preferred option for communication connections between UTC, Junctions
 and the control Room with fail over. Integrated solution discussed which will look at the most cost
 effective data provision for CCTV and Emergency fall back provision at Annandale Street as well.
 This issue has now been passed to David Manning who will update the status during period 12.
- 2 options outstanding for Traffic light controller units (TLCs) and UTC BBS have intimated no cost differential between the two options. CEC attended Nottingham Traffic Control Centre on 5th December 2011 and Sheffield on 6th December 2011 to see how the options are managed. CEC to circulate notes from visits (including previous visit to Bradford) on alternatives. Cost differential of options to be confirmed.
- BBS to provide extracts from junction drawings to facilitate early commissioning of haldo pillars for power connection to new TLC cabinets, David Manning to chase this issue during period 12.



Deliver a Safe Tram



Project Report – Period 11

Depot Equipment

- Wash plant Pressure washers provided, provision of power supply and cold water in sidings to be confirmed. End wash equipment configuration undergoing redesign to ensure plant operates as required.
- Unimog VOSA correspondence closed out by Alistair Richards/Operator. Unimog requires Tax and License to operate on road network, legal requirements to be finalised by operator
- Wheel Lathe Testing completed on CAF wheelset, demonstration provided by CAF that calibration wheelset is appropriate.
- T&C of all depot equipment completed, punch list items to be corrected and close out of issues demonstrated.

4.0 Operator/Maintainer Safety Management System (inc. T&C)

- Preparations for depot handover & mini-test track operations were completed and depot and minitest track operations commenced successfully.
- Procedures and management systems have been developed and implemented.
- Post handover contracts and resources were put in place, including appointment of a replacement Engineering Manager and an Assistant Engineering Manager.
- Training progressed in accordance with the integrated training plan. Supplier training necessary
 for depot and test track operation has been carried out and controllers and driver trainers will be
 passed out as competent for depot and main-line off-street driving w/c 15th January 201.
- The first ISO9001 certification audit scheduled for December has been deferred until January.
 Pre-certification audits for ISO4001 and BS OHSAS 18001 took place successfully on the 12th and 15th December respectively, with the auditors expressing their confidence that the processes were at a state of readiness for certification audits.
- Work is ongoing on updated the safety management system in preparation for transfer of responsibility for operations to Lothian Buses.

5.0 Metrics

New monitoring programme now issued. Metrics inspections will resume during period 12.
 Initally inspections started for works at the Depot will be reviewed and closed where possible. An update will be provided in the next period report.

6.0 NCR's

- Total No of NCRs raised is 390.
- 25 NCRs were raised during the period and 19 NCRs were closed out during the period.
- 11 no open NCRs are greater than 6 months old.

7.0 Deliver a Safe Tram - Required Action

- Metrics Inspections to recommence during period 12.
- Ongoing review of Section A handover documentation with particular reference to the Body of Evidence.



Appendix 3 -Client Decisions





Edinburgh Tam Project - PROJECT DELIVERY GROUP MEETING

Turner & Townsend - Client Decisions Register

January 27, 2012

Action Ref	Actionee	Date Action	Action	Expected Date	Date of	Status	Comment/
No.		Opened		of Closure	Completion		Commentary

CLIENT DECISIONS REGISTER

		<u>CLIENT DESCISIONS</u>		
ALIASTAIR RICHARDS	26-01-2012	Letter of intent was sent from CEC to Mott MacDonald for the Tram Inspector. Final Tram Inspector Agreement will require signature by the end of January 2012.		OPEN
SHIRLEY MUSHET	26-01-2012	Roseburn Delta footpath, this requires to come to a conclusion on where commercial responsibilities lie.		OPEN
ROB LEECH	25-01-2012	Agree appropriate delivery strategy for legacy works north of York Place		OPEN
GARY EASTON	20-01-2012	A number of variations are occurring on-site owing to "discovery" of utilities. To validate this investigation of BBS/ SDR design and survey would be required. (Approx £2M.		OPEN
SHIRLEY MUSHET	22-12-2011	Decision to go ahead with minimum scope solution at Edinburgh Park.		OPEN
SHIRLEY MUSHET	22-12-2011	Obtaining "build over licence" at Haymarket substation	29-02-2012	OPEN
ROB LEECH	22-12-2011	Obtaining permissions in support of the location of revised OLE supports in Princes Street and outstanding design approvals at Dublin Street steps and Picardy Place.	31-01-2012	OPEN





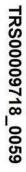
Edinburgh Tam Project - PROJECT DELIVERY GROUP MEETING

Turner & Townsend - Client Decisions Register

January 27, 2012

Action Ref	Actionee	Date Action	Action	Expected Date	Date of	Status	Comment/
No.		Opened		of Closure	Completion		Commentary

	GARY	08-11-2011	Independent Certifier assessment of T&T paper on Prelims on SDS	09-11-2011	09-11-2011	CLOSED	
08121-PDG- 014	SHIRLEY MUSHET	05-01-2012	Roseburn DDA Compliant Footpath Inclusion within Scope	19-01-2012		OPEN	
08121-PDG- 010	SHIRLEY MUSHET	05-01-2012	Railway Supervisor Role Permission to engage	19-01-2012		OPEN	Raised again at meeting on 22-12-11. Awaiting confirmation to appoint.
221211- PDG-004	ROB LEECH	08-11-2011	Clarity of scope for On Street public realm works	09-11-2011	09-11-2011	CLOSED	
221211- PDG-003	SHIRLEY MUSHET	08-11-2011	Clarity of scope for Edinburgh Gateway works	09-11-2011	09-11-2011	CLOSED	
	SHIRLEY MUSHET	05-01-2012	Decision to go ahead with minimum scope solution at Edinburgh Gateway.	05-01-2012	05-01-2012	CLOSED	
221211- PDG-002	ROB LEECH	08-11-2011	Street Lighting, Road Sign & Bus Stop connections/disconnections: BB do not believe they are responsible for these works. The Way forward is to be included as an agenda item at the next Construction Control Meeting	19-01-2012		OPEN	
221211- PDG-001	ROB LEECH	22-12-2011	Decision, following issue of briefing paper from T&T, on procurement route for Scottish Water remedial north of York Place. Turner & Townsend are in discussion with CEC regarding the most appropriate procurement strategy for the legacy works on Leith Walk.	19-01-2012		OPEN	





Edinburgh Tam Project - PROJECT DELIVERY GROUP MEETING

Turner & Townsend - Client Decisions Register

January 27, 2012

Action Ref	Actionee	Date Action	Action	Expected Date	Date of	Status	Comment/
No.		Opened		of Closure	Completion		Commentary

EASTON		changes	1		
ROB LEECH	08-11-2011	Support to early decision making in respect of traffic modelling of junctions.	09-11-2011	09-11-2011	CLOSED
ROB LEECH	08-11-2011	Confirmation of OCIP insurance cover extension beyond October 2011.	09-11-2011	09-11-2011	CLOSED
ROB LEECH	22-12-2011	Confirmation of scope and funding allocation for St Andrew Square public realm works	19-01-2012	09-11-2011	CLOSED
ROB LEECH	08-12-2011	Confirmation of on OCIP Insurance cover/extension beyond the 8 th December 2011	08-12-2011	08-12-2011	CLOSED
ROB LEECH	08-11-2011	Independent Certifier assessment of Infraco obligations in respect of Utilities, following submission of Turner & Townsend report on 4 November 2011.	09-11-2011	09-11-2011	CLOSED



Appendix 4 – Cost Report and Contingency Analysis

TRS00009718_0061

Edinburgh Trams

City of Edinburgh Council



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Section 1 - Project Summary

		Bud	iget Informat	ion		Committed		Act	uals			Forecast			Third Party C	ontributions	Varia	ance
		A	В	C = A + B	D	E	F = D + E	G	н		1	К	e L	M=F+I+J+K +L	N	O = M-N	P=0-C	Q=0/C-1
		Original Budget	Budget Variation	Current Budget	Original Contract Value	Approved Contract Changes	Current Contract Value	Certified to Date	Outstanding Amount	Changes in Progress	Anticipated Change	Opportunities	Risk / Mitigated	Anticipated Final Cost	Estimated Contribution Value	Anticipated Final Project Cost	Budget Variance (Value)	Budget Variance (%
	Edinburgh Tram Programme	496,936	3,218	500,154	479,660	3,514	483,174	297,300	202,609	5,749	15,025	-8,322	7,206	502,832	2,678	500,154	0	0.549
	1.00		4,932	403,809	413,103	1,714	414,817	242,617	172,200	5,749	5,496	-8,322	0	417,740	2,678	415,062	11,253	39
1	Infraco	398,877	4,932	403,003	125,205		14.77	- 1-/0-1	172,200	3,113		7.00		Commence of the Contract of th		The second secon		
1 2	Utilities Utilities	2,912			2,912		4,712	691	13,550	0			0	14,241		14,241	9,529	2029
1 2 3			1,800	4,712		1,800	4,712		13,550		9,529		0			14,241 63,645	9,529 1,245	

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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Section 1 - Infraco Commercial Summary

		Bud	lget Informat	ion		Committed		Act	uals			Forecast			Third Contrib		Vari	ance
		A	В	C = A + B	D	E	F=D+E	G	н	1	J	к	L	M=F+I+J+ K+L	N	O = M-N	P = 0 - C	Q = 0 / C - 1
		Original Budget	Budget Variation	Current Budget	Original Contract Value	Approved Contract Changes	Current Contract Value	Certified to Date	Outstanding Amount	Changes in Progress	Anticipated Change	Opportunities	Risk / Provision	Anticipated Final Cost	Estimated Contribution Value	Anticipated Final Project Cost	Budget Variance (Value)	Budget Variance (%)
	Infraco Contract	398,877	4,932	403,809	413,103	1,714	414,817	242,617	172,200	5,749	5,496	-8,322	(417,740	2,678	415,062	11,253	3.45%
	Off Steet	360,060	1,246	361,306	362,501	1,246	363,747	238,018	125,729	5,207	300	-142	(369,112	2,298	366,814	5,508	2.16%
00	Preliminaries and Other Items	150,408	269	150,677	150,409	269	150,678	100,911	49,767	4,616	0	0		155,294	0	155,294	4,617	3.06%
01	Newhaven Road to Haymarket	85,368	767	86,135	87,738	767	88,505	85,295	3,210	482	0	-2,122		86,865	318	86,547	412	0.85%
02	Haymarket Corridor	8,692	-20	8,672	8,692	-20	8,672	4,279	4,393	40	0	0		8,712	0	8,712	40	0.46%
05	Roseburn Junction to Gogar	80,035	120	80,155	80,105	120	80,225	22,374	57,851	0	300	940		81,465	940	80,525	370	1.63%
06	Depot	19,979	33	20,012	19,979	33	20,012	18,257	1,755	138	0	0		20,150	0	20,150	138	0.69%
07	Gogar to Edinburgh Airport	15,578	77	15,655	15,578	77	15,655	6,902	8,753	-69	0	1,040		16,626	1,040	15,586	-69	6.20%
	On Street	38,817	468	39,285	47,384	468	47,852	3,937	43,915	542	5,196	-8,180	(45,410	380	45,030	5,745	15.59%
00	Preliminaries and Other Items	21,837	0	21,837	21,837	0	21,837	3,294	18,543	71	0	0		21,908	0	21,908	71	0.33%
01	Newhaven Road to Haymarket	16,980	468	17,448	25,547	468	26,015	643	25,372	471	5,196	-8,180		23,502	380	23,122	5,674	34,70%
00	Maintenance & Mobilisation	0	2,205	2,205	2,205	0	2,205	662	1,543	0	0			2,205	0	2,205	0	0.00%
00	Spare Parts	0	1,013	1,013	1,013	0	1,013	0	1,013	0	0			1,013	0	1,013	0	0.00%

or			

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

10	t۱	n	C

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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
507	St Andrew's Square - Provide a clarification report and completion of the St. Andrew's Square Public Realm design	133,075	133,075	0	Additional funding opportunity	01	01
508	Eastfield Avenue - 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
517	Additional BT Ducts at Depot and Mini Test Track	2,996	9,833	-6,837		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	61,095	-29,787		05	08
530	Amend the design of the Depot Road turning head as per RDC191. Option 2	30,458	30,458	0		06	08
531	Edinburgh Gateway - Advance Temporary Works design	9,349	300,000	-290,651		05	08
536	System Wide - Tramstop Cabinets - reduction in 10 years maintenance liability	0	-5,069	5,069	No saving to contract	01	08
538	Depot - Tramwash Continuous Mode - Requirement for additional hand lances washers	0	25,000	-25,000	Change rejected - included within contract	06	08
544	Extension to Edinburgh Park Office to accommodate CEC / Transport Scotland	159,900	159,900	0		00	08
558	Site Wide - Provision of a CAD Technician	2,000	0	2,000		01	08

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Section 2A - Approved Change - Clause 80

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
561	Forth Ports Area - Omit all works at the Forth Ports area	0	0	.0	Included within V.E. list	01	08
562	On Street Generally - OLE Design Changes for On Street Section (PMC 045)	20,000	0	20,000	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	0	5,000	All design costs to be grouped under tnc 562 (BBS PMC 045)	01	08
565	Advanced design works for Edinburgh Gateway Minimum Option	6,000	0	6,000		05	08
566	On Street Generally - Ducting Design Changes Due to Utilities Conflicts	10,000	0	10,000		00	08
567	On Street Generally - Drainage Design Changes Due to Utilities Conflicts	10,000	0	10,000		00	08
568	On Street Generally - Trackform Design Changes Due to Utilities Conflicts	10,000	0	10,000		00	08
569	Additional Running Costs associated with the extension to the Edinburgh Park offices	79,200	0	79,200		00	08
572	Cathedral Lane Substation - Retaining Wall Design	5,000	0	5,000		01	08
574	Haymarket Station - Delete viaduct cladding	-10,000	0	-10,000		02	08
576	Depot - Reinstatement to 250mm Watermain Remedial Works	60,000	0	60,000		07	04
577	Haymarket Viaduct - Sub Station Retaining Wall and Plinth	-10,000	0	-10,000		02	08
Total		1,246,456	1,406,462	-160,006			

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Section 2B - Approved Change - Schedule 45

IC Ref No	Description	Agreed Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
001	Independent Certifiers Schedule Part 45 Period End Change Order to 15/10/2011 relating to the following PAV's and On Street Works Estimates	8,593	0	8,593	Includes TNC 513, TNC 543, TNC 521	01	08
002	Independent Certifiers Schedule Part 45 Period End Change Order to 12/11/2011 relating to the following PAV's and On Street Works Estimates	102,135	0		Includes TNC513, TNC 521, TNC 528, TNC 535, TNC 543, TNC 547, TNC 548, TNC 549	01	08
003	Independent Certifiers Schedule Part 45 Period End Change Order to 10/12/2011 relating to the following PAV's and On Street Works Estimates	357,140	0		Includes TNC535, TNC543, TNC548, TNC549, TNC551	01	08
						1	
Total		467,868	0	467,868			
10(0)		407,808	U	407,808			

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Section 3A - Change in Progress - Clause 80

TNC No.	Description	Minimum	Most Likely	Maximum	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Chang Code
510	Murrayfield Accommodation Works	0	0	0	0	0	0	Withdrawn	01	08
513	Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes	120,000	150,000	180,000	150,000	400,000	-250,000		01	08
514	Utility Mapping	92,756	92,756	92,756	92,756	84,816	7,940	Time chargeable costs. L&M Surveys and Class One. Complete	01	08
515	Edinburgh Gateway 33kV Cable Protection	0	0	0	0	0	0	Refer to 531	05	08
516	Additional Watermain requirement at Depot and Mini Test Track	15,734	19,667	23,600	19,667	19,667	0		06	08
518	Design & installation of a new cycleway through the Mound / Hanover Street Junction	0	0	0	0	20,000	-20,000	Previously PWTNC-018 - Withdrawn (Duplicates 506)	01	01
519	York Place - Design of a temporary tram stop	0	0	0	0	0	0	Previously PWTNC-019 - Withdrawn (Duplicates 505)	01	01
520	Valve chamber access and alteration works to 800mm water main at the Depot	94,645	118,307	141,968	118,307	118,307	0		06	08
524	Airport to Gyle - NIL Design Finalisation	24,000	30,000	36,000	30,000	30,000	0		07	01
525	Airport to Gyle - Site Access for Remedial Works	0	0	0	0	0	0	Superseded by 525A	07	08
525A	Airport to Gyle - Site Access for Remedial Works	40,000	50,000	60,000	50,000	50,000	0		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	0	0	0	Saving from Infraco, not included during the period as cost not shown in utility budget	07	04
534	SP Insurance Ducts - Install Insurance ducts at various locations	40,000	50,000	60,000	50,000	50,000	0		07	08
539	System Wide - Delay in signing - impact on commencement and completion	4,314,103	4,541,161	4,768,219	4,541,161	4,600,367	-59,206	Meeting scheduled to review cost incurred at delay commencemnt	00	02
540	Section 7 - Plot 304 - Omit Landscaping works	-159,560	-199,450	-239,340	-199,450	-50,694	-148,756	Full value of omission calculated as £182k. Subject to cancellation costs from subcontractors	07	08
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	0	0	0	0	0	0		01	08
542	Old Port Road - Design of new Cycle Path	0	0	0	0	10,000	-10,000	Change withdrawn - no cost	01	08

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Section 3A - Change in Progress - Clause 80

TNC No.	Description	Minimum	Most Likely	Maximum	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Chang Code
549	Princes Street - Amend the design of the St. Johns Church OLE bases	3,000	4,000	5,000	4,000	6,000	-2,000	Opportunity to deduct original scope to be persued once acceptance of revised pole locations is achieved.	01	08
550	Shandwick Place OLE & Landscape Design Revision	0	0	0	0	0	0	Costs included in anticipated change section	01	08
553	Site Wide - SDS to provide the services of Matt Fell	60,000	75,000	90,000	75,000	75,000	0		00	01
556	Track Work Materials York Place to Newhaven - Price Fixing for Rheda City C and D	0	0	0	0	0	0	Included in VE register	01	12
557	Haymarket 1 - OLE Base Relocations (Design mods)	24,000	30,000	36,000	30,000	0	30,000	All design costs to be grouped under tnc 562 (BBS PMC 045)	01	08
559	Detailed Design of York Place	160,000	200,000	240,000	200,000	0	200,000	tnc issued - awaiting BBS estimate	01	08
571	Hope Street Junction Design	4,000	5,000	6,000	5,000	0	5,000		01	08
573	Roseburn - Non DDA Compliant Footpath	0	0	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 Haymarket Station Viaduct Staircase and Parapet	32,000	40,000	48,000	40,000	0	40,000		02	08
Total			5,206,441		5,206,441	5,413,461	-207,020			

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Section 3B - Change in Progress - Schedule 45

TNC No.	Description	Minimum	Most Likely	Maximum	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
521	Haymarket - Temporary Accommodation	0	0	0	0	4,917	-4,917	Costs included in end of period On Street Works certified amounts	01	08
522	Haymarket 1 - Road Reconstruction	0	0	0	0	0	0	Included in VE register	01	08
523	Haymarket 1 - Additional CBR / Plate Testing	0	0	0	0	10,000	-10,000	Included within on street priority works (contract milestones)	01	08
528	Haymarket 1 - Slit trench excavation to validate utilities	0	0	0	0	10,000	-10,000	Included within on street priority works (contract milestones)	01	08
532	Princes Street - Temporary traffic management design	0	0	0	0	0	0	Further information required	01	10
533	Princes Street - 500mm Water Main Diversion	0	0	0	0	40,163	-40,163	Costs contained within 535	01	08
535	Princes Street - 500mm Water Main Diversion - rev 3 dwg	124,000	130,201	130,000	129,134	0	129,134		01	08
537	Haymarket 1 - Additional visit of Tar planer to facilitate slewing of BT ducts	0	0	0	0	15,000	-15,000	Withdrawn	01	08
543	Haymarket H1 - Utilities affecting the construction of OHLE foundations	57,000	59,651	60,000	59,267	147,500	-88,233	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	16,000	20,000	24,000	20,000	200,000	-180,000	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	21,482	21,482	21,482	55,941	-34,459		00	08
547	Haymarket H1 - Third Party (McNicholas) affecting ability to progress the works	0	0	0	0	30,000	-30,000	Costs included in end of period On Street Works certified amounts	00	08
548	Haymarket H1 - BT Fibre Optic Service requires diverting	24,000	30,000	36,000	30,000	150,000	-120,000	T&T currently reviewing BBS Prolongation claim - 56 days delay claimed to 10/12/2011	00	08
551	Princes Street - 2011 Christmas Embargo - Temporary Surfacing of Track Infills	120,000	150,000	180,000	150,000	300,000	-150,000		01	08
552	Princes Street - BT diversion @ junction of Princes Street and South St. David Street	0	0	0	0	40,000	-40,000	Costs included within TNC 535	01	08
554	St Andrew's Square & Shandwick Place - Traffic Management Requirements	0	0	0	0	0	0	Refer to Revision A	01	10
554A	St Andrew's Square & Shandwick Place - Traffic Management Requirements	144,000	180,000	216,000	180,000	0	180,000		01	08
555	Haymarket - OLE 196B design revision to avoid main sewer	8,000	10,000	12,000	10,000	0	10,000		01	08
560	St. Andrews Square - Omit £0.7m of repairs to road surface finishing	0	0	0	0	0	0		01	08
564	On Street Generally - Worksite Modelling	8,000	10,000	12,000	10,000	0	10,000		01	08

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Section 3B - Change in Progress - Schedule 45

TNC No.	Description	Minimum	Most Likely	Maximum	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
570	Omit the Removal of Trees in Shandwick Place	-7,000	-9,100	-11,000	-9,067	0	-9,067		01	08
578	SI Provisional Sum Allowance	-46,000	-58,000	-70,000	-58,000	0	-58,000		01	08
Total			544,233		542,816	1,003,521	-460,705			

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Section 4 - Anticipated Change

TNC No.	Description	Minimum	Most Likely	Maximum	Forecast Amount	Previous Period	Change from Previous Period	Notes	Sched.	Section Code	Chang Code
1	Pricing Assumptions - 6.4.2.1 Floating Track Slab	784,000	980,000	1,176,000	980,000	1,000,000	***	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.	On	01	08
2	Pricing Assumptions - 6.4.2.3 York Place Terminal Point	755,200	944,000	1,132,800	944,000	1,000,000	-56,000	Excludes design costs (in change section of report).	On	01	08
3	Pricing Assumptions - 6.4.2.4 Cathedral Lane Substation	480,000	600,000	720,000	600,000	1,000,000	-400,000	This budget 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	On	01	08
4	Pricing Assumptions - 6.4.2.6 Dublin Street	40,000	50,000	60,000	50,000	75,000	-25,000		On	01	08
5	Pricing Assumptions - 6.4.2.7 Cycleway at Mound	56,000	70,000	84,000	70,000	1,000,000	-930,000	Allowance for alterations to pavement at junction of Princes St and the Mound	On	01	08
6	Track Lowering	400,000	500,000	600,000	500,000	3,000,000	-2,500,000	The majority of the utility conflicts which result from the track lowering have now been incorporated into the utility forecast. Remaining allowance for bridging structures. Opportunities for bridging being finalised.	On	01	08
7	Piled OLE base in lieu of utility diversion	600,000	750,000	900,000	750,000	258,333	491,667	Total of 49 piles. Awaiting on street estimates from BBS to confirm value.	On	01	08
8	Haymarket viaduct substation				0	o	0	Consents status TBC	On	01	08
9	NIL future proofing and tramstops				0	0	0	confirm if this is part of settlement agreement	Off	07	08
10	Settlement Agreement exclusions not included elsewhere	323,502	404,378	485,254	404,378	404,378	0	Refer to Schedule E, items 7,8,10,11,12,14. 6 removed - now included in change in progress	On	01	08
11	Increased rent for extended office at Edinburgh Park (Capital Cost in tnc 544)	0	0	0	0	102,500	-102,500	Moved to Change in progress (tnc 569)	Off	00	08
12	H1 delay costs associated with utilities	492,800	616,000	739,200	616,000	0	616,000	Allowance for 8 weeks delay @£77k/wk	On	01	02
13	Delayed commencement to Shandwick Place & St Andrews Square (from 7/2/12)	169,600	212,000	254,400	212,000	0	212,000	Allowance for 4 weeks delay @£53k/wk	On	01	02
14	Roseburn Delta - DDA footpath	240,000	300,000	360,000	300,000	0	300,000		Off	05	08

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Section 4 - Anticipated Change

TNC No	Description	Minimum	Most Likely	Maximum	Forecast Amount	Previous Period	Change from Previous Period	Notes	Sched.	Section Code	Change Code
15	Mudfa Reinstatement - Hope Street / Lothian Road	8,000	10,000	12,000	10,000	0	10,000		On	01	08
16	Ongoing traffic management at Lindsay Road	48,000	60,000	72,000	60,000	0	360000000000000000000000000000000000000	Additional TM cost in excess of contract agreement - 4 months allowed at £15k per month	On	01	08
Total	3		5,496,378		5,496,378	7,840,211	-2,343,833				

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Section 5 - Change Summary

Change Code	Description	Approved Change	Change in Progress	Anticipated Change	Opportunities	Risks	Total
01	Design Risk	813	105	0			91
02	Time delay Impact	0	4,541	828			5,36
03	Utilities: Haymarket to York Place	0	О	0			
04	Utilities: Off Street	60	0	0			6
05	Blockade and Possession Costs	o	0	0			
06	Routine Maintenance	o	0	0			
07	Relaxation of time constraints	0	0	0			
08	Pricing Asumption Variations and Client Change	842	1,103	4,668			6,61
09	Land Purchase	o	0	0			
10	Traffic Management	0	0	0			
11	Move to Cost reimbursable Contract	o	О	0			
12	Procurement	0	o	0			
13	Exceptionally Adverse Weather	o	0	0			
99	General Contingency	O	0	0			
otal		1,715	5,749	5,496	o	0	12,96

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

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Section 6 - Credits & Contributions

Ref No	Description	Included in Contract Sum	Approved Changes	Changes in Progress	Anticipated Changes	Total Forecast	Notes	Sched.	Section Code	Change Code
01	Edinburgh Gateway Feasibility	860,000	82,995	0		940,000	£1.2m in total. Remainder of the costs included in CEC sections of the project budget.	Off	05	08
02	New Ingliston Future Proof measures	540,000	0	0		540,000	This contribution will be offset by a land cost reported within the relevant section of the CEC cost report	Off	07	08
03	Henderson Global - Cathedral Lane substation DESIGN	12,953	233,596	0		246,549	Full extent of agreement with Henderson Global to be established. Allowance assumes all design costs associated with future substation will be borne by Henderson Global.	On	01	08
04	RBS Tramstop	500,000	0	0		500,000	Allowance included subject to final agreement with RBS	Off	07	08
05	St Andrew Square Public Realm design		133,075	0		133,075	As per agreed change value	On	01	08
06	Forth Ports		0	0		0	No allowance for any contribution included at present. No allowance for additional cost for resolution of Lindsay Road / Tower Place Bridge	Off	01	08
07	CEC Miscellaneous. Mainly George Street CEC costs (£298k)	318,213	0	0		1000 to 2000 t	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.	Off	01	08
Total		2,231,166	449,666	0	0	2,677,837				

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Section 7 - Period Movement

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
513	Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes	0		-250,000	0	-250,000
514	Utility Mapping	0		7,940	0	7,940
517	Additional BT Ducts at Depot and Mini Test Track	2,996		-9,833	0	-6,837
518	Design & installation of a new cycleway through the Mound / Hanover Street Junction	0		-20,000	0	-20,000
521	Haymarket - Temporary Accommodation	0		0	-4,917	-4,917
523	Haymarket 1 - Additional CBR / Plate Testing	0		0	-10,000	-10,000
528	Haymarket 1 - Slit trench excavation to validate utilities	0		0	-10,000	-10,000
529	Design Gogar Castle Access Road tram crossing and approaches	31,308		-61,095	0	-29,787
531	Edinburgh Gateway - Advance Temporary Works design	9,349		-300,000	0	-290,651
533	Princes Street - 500mm Water Main Diversion	0		0	-40,163	-40,163
535	Princes Street - 500mm Water Main Diversion - rev 3 dwg	0		0	129,134	129,134
536	System Wide - Tramstop Cabinets - reduction in 10 years maintenance liability	0		5,069	0	5,069
537	Haymarket 1 - Additional visit of Tar planer to facilitate slewing of BT ducts	0		0	-15,000	-15,000
538	Depot - Tramwash Continuous Mode - Requirement for additional hand lances washers	0		-25,000	0	-25,000
539	System Wide - Delay in signing - impact on commencement and completion	0		-59,206	0	-59,206

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Section 7 - Period Movement

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
540	Section 7 - Plot 304 - Omit Landscaping works	0		-148,756	0	-148,756
542	Old Port Road - Design of new Cycle Path	0		-10,000	0	-10,000
543	Haymarket H1 - Utilities affecting the construction of OHLE foundations	0		0	-88,233	-88,233
545	Site Wide - Power to bus trackers affecting the ability to remove site clearance items	0		0	-180,000	-180,000
546	Site Wide - Increased number of drainage boxes including installation	0		0	-34,459	-34,459
547	Haymarket H1 - Third Party (McNicholas) affecting ability to progress the works	0		0	-30,000	-30,000
548	Haymarket H1 - BT Fibre Optic Service requires diverting	0		0	-120,000	-120,000
549	Princes Street - Amend the design of the St. Johns Church OLE bases	0		-2,000	0	-2,000
551	Princes Street - 2011 Christmas Embargo - Temporary Surfacing of Track Infills			0	-150,000	-150,000
552	Princes Street - BT diversion @ junction of Princes Street and South St. David Street	0		0	-40,000	-40,000
554A	St Andrew's Square & Shandwick Place - Traffic Management Requirements	0		0	180,000	180,000
555	Haymarket - OLE 196B design revision to avoid main sewer	0		0	10,000	10,000
557	Haymarket 1 - OLE Base Relocations (Design mods)	0		30,000	0	30,000
558	Site Wide - Provision of a CAD Technician	2,000		0	0	2,000
559	Detailed Design of York Place	0		200,000	0	200,000

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Section 7 - Period Movement

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
562	On Street Generally - OLE Design Changes for On Street Section (PMC 045)	20,000		0	0	20,000
563	On Street - Amend pile caps from square / rectangular to circular	5,000		0	0	5,000
564	On Street Generally - Worksite Modelling	0		0	10,000	10,000
565	Advanced design works for Edinburgh Gateway Minimum Option	6,000		0	0	6,000
566	On Street Generally - Ducting Design Changes Due to Utilities Conflicts	10,000		0	0	10,000
567	On Street Generally - Drainage Design Changes Due to Utilities Conflicts	10,000		0	0	10,000
568	On Street Generally - Trackform Design Changes Due to Utilities Conflicts	10,000		0	0	10,000
569	Additional Running Costs associated with the extension to the Edinburgh Park offices	79,200		0	0	79,200
570	Omit the Removal of Trees in Shandwick Place	0		0	-9,067	-9,06
571	Hope Street Junction Design	0		5,000	0	5,000
572	Cathedral Lane Substation - Retaining Wall Design	5,000		0	0	5,000
574	Haymarket Station - Delete viaduct cladding	-10,000		0	0	-10,000
575	Haymarket Station - Take Down Haymarket Station Viaduct Staircase and Parapet	0		40,000	0	40,000
576	Depot - Reinstatement to 250mm Watermain Remedial Works	60,000		0	0	60,000
577	Haymarket Viaduct - Sub Station Retaining Wall and Plinth	-10,000		0	0	-10,000

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Section 7 - Period Movement

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
578	SI Provisional Sum Allowance	0		0	-58,000	-58,000
IC001	Independent Certifiers Schedule Part 45 Period End Change Order to 15/10/2011 relating to the following PAV's and On Street Works Estimates		8,593			8,593
IC002	Independent Certifiers Schedule Part 45 Period End Change Order to 12/11/2011 relating to the following PAV's and On Street Works Estimates		102,135			102,135
IC003	Independent Certifiers Schedule Part 45 Period End Change Order to 10/12/2011 relating to the following PAV's and On Street Works Estimates		357,140			357,140
otal - App	roved Change / Change in Progress	230,853	467,868	-597,880	-460,705	-359,863
nticipated	d Change			197,500	-2,541,333	-2,343,833
		230,853	467,868	-400,380	-3,002,038	-2,703,697

1 2	ARKET Haymarket 1
2	Haymarket 1
0.00	naymarket 1
2	Haymarket 2
3	Haymarket 3
	Haymarket 4
5	Haymarket 5
6	Haymarket 6
l SHAND	DWICK PLACE
7	Shandwick Place 1
8	Shandwick Place 2
9	Shandwick Place 3
10	Shandwick Place 4
11	Shandwick Place 5
12	Shandwick Place 6
13	Shandwick Place 7
ا St ani	DREWS SQUARE
14	St Andrews Square
I YORK	PLACE
15	York Place 1
16	York Place 2
17	York Place 3
18	Uncategorised
19	Additional Works *
20	Legacy Works
21	Uncompleted BT Works
	Uncompleted Works
	Credit for Works not required

Budget Information					
Original Budget	Budget Variation	Current Budget			
1812	o 0	1812			
	0	0			
	0	0			
	0	0			
	0	0			
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	0	0			
1100	0	1100			
1100	Ü	1100			
		2912			

	FORECAST/ BUDGET	
SUC Costs	McNicholas Budget Forecast	Total Budget Forecast
141	669	810
71	359	430
76	487	562
0	4	4
.5	38	42
15	80	95
104	673	777
38	228	266
73	550	623
23	169	191
29	177	206
41	228	269
11	93	103
363	2118	2480
68	455	523
77	564	641
92	729	821
576	3807	4383
твс	твс	ТВС
твс	твс	1100
750		750
-400		-400
1800	11426	14676

Ref	Section
Mitigations	-3%
TOTAL	

	Budget Information	
Original Budget	Budget Variation	Current Budget
		29

	FORECAST/ BUDGET	
SUC Costs	McNicholas Budget Forecast	Total Budget Forecast
-53	-339	-435
1747	11087	14241

Notes, Assumptions & Exclusions:

- 1. See attached Tab Haymarket 1 for breakdown of Haymarket 1 budget cost
- 2. All other areas conflict budgets based on pro rata of Haymarket 1 costs at 7K per conflict until firmed up
- 3. SUC Costs based on information received from Utility Providers. Outstanding issues with SW could have a potential increase in this cost of £1.5M
- 4. Legacy Work Scope still to be confirmed. Once confirmed forecast will be entered. Therefore Legacy Works Forecast is excluded at present
- 5. See Additional Works tab for all works carried out by McN that are not covered by the Work Areas identified ie Princes Street etc
- 6. McNicholas Management Costs Forecast is Provisional Pending further clarification and agreement of McN Org Chart
- 7. COWD blank at present; McNicholas/ SUC Cost update due for 21/11/2011

nflict Type	Average Cost
Traffic Signal Pole	4
Track Construction	9
Tram Ducting	13
Tram Ducting Chamber	13
Street Lighting Column	4
Road Sign Base	3
Road Level Conflict	13
OLE	3
Kerb Realignment	13
Drainage	8
Drainage Gulley	3
Uncategorised	
Standby Team	
TOTAL Excl Risk & Cont	



Appendix 5 - Change Log



TNC Location No.	Description	Reason For Change	Street / Chuse 8	181 181	Change	Source of Bu		Letter Rof		EX	ate Change E	Heate T		saned Approve	dBY Date			tle Change	Date 100	Comments
			Off Street Schedule 45 Instruction	do Owner	Category 0C/UC/CR/SB	Funding Bisk and 1/2/3/4 Potential Changes	Issued	40200000	Estimate Due E	Estimate V Received D	Value C Chan Design Con	Change Value f Implications Construction	fations to CC	ac achini	8.1 Approved or Rejected	d contract Changes	A PMCNo.			
101 Hawthorneyale Cycle Link	Change the design to widen the footway alongside the south side of	Historic Post Mediation Charge	off Street Gause 80	AS/GMG	8/5	2 N/A	21/06/2011	INF COSR 7787	1/4 65	1102/80/	£20,020,51	00'03	19/17	19/10/2011 CEC	20/18/2011	610,020,51	0.51 PMC-001	100-202	24/10/2011	Previously PWTMC401
102 Ocean Drive Footway	under the delign of Ocean Drive to reinstate the footpath to the America the Ocean Drive.	Historic Post Mediation Change Off's	Off Street Clause 80			61.10	11/06/2011	INF CORR 7786 8	WA T		610,230.82	00'03	AVA	181	26/10/2011	011 £10,730.82	0.82 PMC-002	100-108	26/10/2011	Previously PWTMC-092
503 Depot Access Bridge	Amend the delign of the OLE at the Depot Access Bridge to enable construction of the Depot	Historic Post Mediation Change	Off Street Clause 80	AS/GMG	8/5	3	21/06/2011	INF CORR 7785 N	a wh		£69,223,43	00'03	24/3				6.03 PMC-003	\$15-001	30/11/2011	Previously PWTNC-003
504 Blenhern Place	Seview of the barried right burn into Blerthern Flace as part of the design for Section 1C2 roads.	Historic Post Mediation Change			E/O	8	21/06/2011	INF CORR 7788 A		Ļ,	\$46,247.09	60.00	1/61		4			905-004	24/10/2011	Previou
505 York Place Terminal Point	Production of a feasibility report, initial feasibility design for option of, run time modeling etc.	Historic Post Mediation Change	Off Street Clause 80	-31	C/B	2	26/07/2011	INF COSS 7817	15/08/2011 15	*	6228,652.80	60.00	24/1			er.	2.80 PMC-005	100-513	15/11/2011	Previously PWT64C-885
506 The Mound	Design for providing a new cycleway from the Mound to Princes Street	Historic Post Mediation Change	000			ės.	21/06/2011	INF CORR 7789 P	N/A 8		19,436.93	60.00	19/1				G	100-203	24/10/2011	Previously PWTMC-2006
507 St.Andrew's Equare	Provide a darfication report and completion of the St. Andrew's Square Public Resim design	Historic Post Mediation Change	D	-		c	21/06/2011	INF CORR 7790 P	\rightarrow		£138,075,48	00:00	19/1				ta:	100-504	24/10/2051	Previously PWTNC407-1CO 564 Rev Aissued 15/12/11
508 Eartheld Avenue	Obtain E.A. approval for the highways design drawings at Easthied Avenue tram crossing.				5/0	2	11/02/2011	INF CORR 7804			610,025.09	60.00	19/1				0.	100-207	24/10/2011	Previously PWTMC-008
509 Cathedral Lane Substation	Design of Cathedral Lane Substation	Historic Post Mediation Change Off's	Off Street Clause 80	45/5146			12/07/2011	INF CORR 7799	02/08/2011 09	69/11/2011 E	1233,595,67	£0.00	13/01	13/12/2011 050	15/12/2011	411, £233,595,67	5.67 PMC-008	615-001	15/17/7611	Previously PWTNC403 - Instructed to proceed in TNC letter but awaiting CEC approval to issue tCO
510 Murrayfield 511 Gogar Lane	Murrayheid Accommedation Works Storm Water Connection from Goger Lodge to the landowners new	Historic Post Mediation Change	Off Street Clause 80	PAS/SMG	E/S		1100/20/01	INF CORR 7815	Wa I	14/11/2011	15,050.25		N/A	TâT	21/11/2611	011 65,750.46	0.46 PMC-010	115-001	21/11/2611	Withdrawn Previously PWTNC-011
512 Ocean Terminal	saptistanii Re design of Ocean Terminal Bypass Road	Historic Post Mediation Change Off's	Off Street Clause 80	AS/GMG		2	13/07/2011	INF COSR 7814 8	4/A 25	29/08/2011	\$53,685.15	60.00	15/11	15/16/2011 CEC	20/16/2011	411 (53,685.15	5.15 PMC-012	100-505	24/18/2011	Previously PWTMC-612 - tCO 565 Rev A issued 15/12/31
	Rensed design to minimise utility diversions / conflicts - used for sitt	Historic Post Mediation Change	- 0		D/C		20/07/2011	≤	Zanous								- Q (G.		2	
	trenching and trial holes:					£400,000.00	07/09/2011 (A&B)		60		643,547.07		15/1	15/11/1011 CEC	21/12/2011	011		100-526	06/01/2012	being reviewed for ASB and CSD, 13E is now a PAV being actioned under Schedule Part 45
			Cause 80 Schedule 45	_ 8			(C&D)	OSW.004	23,	23/01/12	151,211.55 N/A			8				MA	N/A	
514 Various	Utility Mapping	Historic Post Mediation Change	On Street	AS/GMG			72/07/2011	1 =	17/08/2011	16/22/2011	692,756.07		10				PMC-016			Previously PWTNC014 - Instructed to proceed in TNC letter
- 54	Edinburth Galeway 233 V Cable Protection	100	eff Street	AS/GARG		- 0	- 62/08/2011	-	- 2	27.07	1252						PIAC-014	MA	N/A	Previously PATRIC 035 - Instructed to proceed in TRC letter
Tit Dance & Albert Town	And districted by Antonia since construction and the Chinese since Maria Transfer		Off Chancel Chance St.				**************************************	PAG CODE 7000	110/11/1000	1100/00/01		00 360 TO		300			C44C-013			Discussion in Distriction and Contraction and the proposed by Their Institute of
_			_				***************************************	200000000000000000000000000000000000000	-	10 may may may 10 miles		100000000000000000000000000000000000000		1				200		
Depot a Meri Test Track	nd Mary 1881 thats	HISTORIC POST M 621 attorn Change	Off Street, Clause 80	es/owo			06/03/2011	11st COSSI 7834	03/12/2011	13/17/2011	10.02	13,208.66		Te .		£2,339,35	5.35 PMC-018	686-000		Previously PWTMC-01s - Instructed to proceed in TNL IRCH
518 The Mound	Daign's, installation of a new ordewsy through the Mound / Hanover Steet junction	100	Off Street				69/09/2011													Previously PWTMC-018 - Withdrawn (Duplicates 506)
39 Vork Place 29 Depot	Design of a tamegor ary train, dopon ton Phase Valve chamber access and alteration works to 800 mm water main at	4 Historic Post Mediation Change Offis	Off Street Clause 80	AS/GMG	132		18/05/2011	INF CORR 7729	13/06/2011 24	24/10/2011	q	£105,786.20					PMC-009			Previously PWTMC-015 - Withor awn (Duplicates 505) Previously IMC-137, Estimate renewed and issued back to
22 Haymarheet	dion	McNetholas	treet. Schedule	112		2 62,876,75	67/10/2011	INF CORR 7926	AT 1102/11/10	V11/2011 N/A		(4,917,00	MA	181	2/101/20	111	PMC-028	NA	NA	BBS with comments
522 Haymarket 1 523 Haymarket 1	Road Reconstruction Additional CRS / Plan Testing	00	Street Schedule	45 NA/RU		4 4338,611.57	07/10/2011	IMP CORR 7927	02/11/2011	included in She	medication	- Company	07/1	0/2011 CEC	07/18/2	911	PMC-029	N/A N/A	N/A N/A	Fato included in PMC 02%
24 Arport to Gyle	M.L. Design Finalisation	100	Street Clause 80	AS/GMG		2 £30,000.00	36/09/2011	INF CORR 7905	20/01/2012	100		\parallel		\parallel			PMC-019			
525a Arportto Gyle	See Access for Remedial Works	5	Off Street Clause 80			2 450,000.00	21/11/2011	INF CORR 7978	23/01/2012								PMC-026			885 have advised that an estimate cannot be provided until
26. Ampart to Gyle	Tram Delivery Temporary Works	Joe Out	Off Street Clause 80	48/6MG	Ш	0	67/10/2011	INF CORR 7518	1102/11/20	14/11/2011 1681		16,940,24	NA	TST	08/11/2011	011 16,878.44	8.44 PMC-027	100-518	12/12/2011	
27 Ingliston	Reimbursewent of Costs paid directly to 50N for the diversion of approximately 120m of 10" steel IP gas main to accommodate the new Edinburgh. Tram at Ingiston	8	Street Clause 80	4.7	Š	*				G 5-		- 8	- 7			-				
28 Hsymarket 1 29 Section SC-Gogar Cartle Access Road	SRI trench excavation to validate utilities. Design Gogar Castle Accies Road fram crossing and approaches	88	Off Street Schedule 45 Off Street Clause 80	45 St. AS/GNEG	0/N	2 41,345.00	26/10/2011	INF CORR 79.28	11/02/11/02	15/11/2011	1 38 100 663	£22,728.57	15/II	15/12/2011 GEC	16/17/2611	110 01110 010	8.00 PMC-022	100-5244	17/61/7612	Previously issued as TNC129
38 Section 6 - Depot Access Road	Amend the design of the Depot Road turning head so per RDCI 51.	10	Off Street Clause 80	AS/GMG	SC/S	4	27/10/2011	INF CORE 7949	22/11/2011 18	18/10/2011	£30,458,40 745		NVA	181		130,458.40	8.40 PMC-023	\$25-003	15/12/2011	Previously issued as TNC 130
31 Edinburgh Gateway	doon z. Advance Temporary Works design	Early implementation of the temporary works will Off standards the BTM works on common as soon service	Off Street Clause 80	AS/SMG	5/0	14.	18/10/2011	INF CORR 7951	1101/11/60	07/22/2011 Nil	4	£790,185.14		2	1101/11/11	69,349.00	9.00 PMC-014	100-532	11/11/1611	Works requested and cost approved by Transport Scotland
82 Princes Street	Temporary traffic management design		treet		5		N											NA	N/A	Withdrawn
34 SP Insurance Cucts	Southern Value Main Liver Sign. This fall insurance ducts at locations and informations and sizes as	TO GO TO THE WINE THAT TOWN ON THE DATE OF	Off Street Clause 80	ASJGMG	200	610,885,00	31/10/2011	INF COSR 7953	28/10/2011		200000000000000000000000000000000000000		48/10/	WKU11	31/10/1	170	PMC-041	200	4	Further information requested by infraco 11/11/11
35 Princes Street 36 System Wide	500mm Water Main Diversion - res 3 dwg. Trainstop Cabinets - reduction in 10 years maintenance liability	See TMC 533 To meet cooling/heating nexts, cabinets to be IP 55 Off 9	On Street Schedule Off Street Clause 80	as Moffit.	s/s	46,083,43	05/11/2011	INF CORR 7962 INF CORR 7959	29/11/2011				08/33	08/11/2011 T&T 08/11/2011 T&T	1192/21/2011		R0.00 PMC-051	N/A 100-517	N/A 08/12/2011	Replaces that 533
37 Haymarket I	Additions visk of Tar planes to facilitate slewing of BT ducts	_							28/11/2011				08/17	1/2011						Withdlawn
28 Depot	Transwath Continuous Mode - Requirement for additional hand	Thatram wash continuous mode may leave a small Off 9	Off Street Clause 80	6M6	8/5	2 10.00					10.00		ANA	181	13/12/2611	100	E0.00 PMC-048	100-520	13/11/2011	Previously issued as TNC 118 and TNC 118A. Cost neutral as
	lances washers																	100-520A	12/01/10/11	2 .
6 8	agring - impact on commerm dicaping works	Change in Requirements for landscape works Offi	Off Street Clause 80	AS/GMG	C/8:	4 -4162,953.61	14/11/2011	INF CORR 2972	N/A 88/12/2011 15	\$/12/2011 64,	1759,000.00	89,457,70	28/1	9/2011 CS	21/13/	011	PMC-020	100-529	14/11/2611	Cost still to be determined by Colin Smith tCO issued under Clause 80.15
Minder Street	Oty Chamber - Arnandale Street Communication Units. Usage of OEC available B1-Lines to avoid provision of direct F0 link from	0			8	ы			06/02/2012					_			PMC-021	N/A	N/A	Confirmation received from GEC that changes to the Employers Requirements are acceptable.
42 Old Port Road	Princes screen of uniformities. Design of new Cycle Path	luo .	treet Clause 80	WO		£16,000.00			Ħ				\parallel				PMC-024	N/A	N/A.	On Hold
44 Ethnburgh Park	Utalises affecting the construction of OHLE foundations Extension to Edinburgh Park Office to accommodate CEC / Transport	8 8	Off Street Clause 80	30	5	14/A.	23/11/2011	INF COSS 7984	15/23/2011	4/11/2011 N/A			31/31	31/16/2011 OEC	31/10/2011	4155,300.	0.00 PMC-031	100-512	21/11/2011	Prioring Advantagloon Variation Cost determined by Colin Smith
545 Ste Wide	socioling. Unities affecting the ability to remove into dearance nems		On Street 14/A	35	PAN	£200,000.00	NJA	14/2	WA.								PMC-032	NA	N/A	Priding Assumption Variation
Ste Wide	Increased number of dramage boxes including installation	In accordance the Settlement Agreement, Schedule: On- Part E. Exceptions to Settlement: On Street Systems and Trackworks Only Items.	Street Schedule	45 RL	5	2 621,482.00	18/01/2012	INF COSR 8087	N/A B	6/01/2012	421,482.50		N/A	Tā	18/01/2	617 671,482	2.00 PMC-033	100-541	18/61/2012	Authough On Street works the instruction was issued as a Gause 10 change at the nequest of 685
S47 Haymarket H1	Third Party affecting ability to progress the works. At this a Cost Service receives disenting	100	Street N/A	0	PAV	61% 000.00	20,00	9/8	076								PMC-035	N/A N/a	N/A N/A	Prioring Apparation Variation Prioring Apparation Variations
49 Princes Street 150 Shandwick Place	Amend the design of the St. Johns Church CLE bases Shandwick CLE & Landscape Design Remsion	To avoid conflict with services A number of utility conflict that can be addressed On s	On Street Clause 80	<i>a a</i>	0/0	2 £19,990.00	23/11/2011	INF CORR 7980 INF CORR 8025	15/12/2011				N/A	181	21/11/2411	111	PMC:045	100-510	29/11/2011	Confirmation of a verbal instruction Confirmation of a verbal instruction
55. Princes Street	2011 Orietteas Embargo - Temporary Surfacing of Track ordina	-	On Street N/A	2001	AVVd	£366,000.00	NA	-	A/A								PMC-043	N/A	N/A	Priong Assu
Finces Street	&T diversion @ junktion of Princes Street and South St. David Street		On Street, N/A	NN	Apd	\$40,000.00											PMC-044	NA	N/A	Priong Assumption Variation
53 Ste Wide	Spare provide the services of Mattifell	To assist in the Utilities design Off 9				675,000,00	36/11/2011	INF CORR 7989	26/12/2011					OEC			PMC:048	100016	30/11/2011	
554 St Andrew's Square & Shandwick Flace	Traffic Management, Requirements		Street Schedule 45	45 Rt	0/0	2 NA	12/12/2011	INF COSS 7998	N/A M/N	ď				OKC	08/12/2611	etti NVA	PMC-052	AVA	N/A	

					ı	ı	İ			ı		ı	ı	ı		ı		1		ı	ı	ı	
i	uncestr	emolita vision	allowers and entressa	Off Street Schedule 45		Change Co	Category Fund	Funding Risk and L/2/3/4 Potential Changes	kand mpes	lissued Lecture	Estimate Due	te Due Estimate Received			Change Value (Implications Construction		totte acitat	T Approved or Rejected	oc Approved Contract Changes	ed PMCNo.	Order No.	baned	Cale murch
5544	St. Andrew's Square & Shandwick Place	Traffic Management Requirements.	To facilitate early access	On Street Schi	Schedule 45	18	3/0	2 6181	£180,000.00 12/0	12/01/2012 INF CORR 8066	R 8066 N/A	MA					030	1182/21/80	311 N/A	PMC-052	M/A	N/A	TNC Wording Amended
555	Haymarket	Oct 1968 design revision to avoid main sewer	To a word conflict with sewer	On Street 14/4		37	3/0	*	13/2	12/2011 INF CORR	ORR 8617 NJA	N/A				200				PMC-045	\$25-004	13/23/2011	1. Pricing Assumption Variation
900	York Place to Newhaven	Track Work Materials York Place to Newhavan - Price Frangfor Rheda Oty Cand D	There is currently no budget allowance to fund this	Off Street, Clay	Clause 80		C/R	q								14/12/2011	1011 050						Confirmation of instruction given by Colin Smith and issued by letter to 86 S
557	Haymarket 1	OLE Base Relocations	Utility Clashes	On Street Clau	laure 80	KM	0/0	3 63	0,000.00 13/1	3/12/2011 INF CORR	CRR 8016 06/61	06/01/2012				MA	TäT	18/12/76	111	PMC-045	100-521	13/12/701	4
558	Ste Wide	Provision of a CAD Technique	To progress VE proposals in relation to pavement re-	On Street	Clause 80	균	-	-	13,000.00 13/1	13/12/2011 INF CORR B015	R B 015 06/01/2013	1/2013				NA	TâT	18/12/2611	1111	PMC-051	100-522	18/23/2611	1
553	York Place	Detailed Design of York Place Terminal	Terminal point excluded from the Settleward	On Street Clau	Clause 80	R	C/R		751	15/12/2011 INF COSR 8033		10/01/3013											
560	St. Andrews Square	Omit £0.7m of repairs to road surface finishing	and an artist of the second of	On Street Schu	Schedule 45	150		100															
1700		Cmit all works at the Forth Ports area	Works not required as part of this agreement	۲	Clause 80	180	CR.	4 62,463	62,443,000.00 21/1	21/12/2011 INF CORR 8050	R 8050 16/01/2012	/2012				N/A	N/A	N/A	£2,443,500.00	0.00	100-528	-21/12/2011	11 Instructed by Colin Smith
295	On Street Generally	OLE Design Changes for On Street. Section (PMC 045)	e to the		Clause 80	36	2/0	2 620	101-0			31/01/2012				20/12/2011			-	30.00 PMC-045	100-530	05/01/2012	7.5
99	On Street Generally	Cyclader Pile Cyps:	it reduces the size of the pile cap and by default the look of mystal upon utilities, moreover it made for more aspectant follows: A volving as the pile cap can be done without a requirement for any exits digging etc.	On Street	Clause 80	zi.	2/0	2		31/12/2011 (16' COSS 8044	88044 14/91/2012	1/3013				NA	181	2162/1995	290	PMC-045	100-334	2102/10/60	0
284	On Street Generally	Worksite Mödelling	Requested by Andy Conway of CEC	On Street N/A		RE	S.C.W	2 45	416,000.000,314	31/12/2011 INF CORR 8045		16/81/3011				NA	TåT	21/23/2611	111 E15,665.00	10.00 PMC-055	150-531	21/27/2011	II Pridrig Assumption Variation
565	Edinburgh Gateway	Ad saroad design works for Edinburgh Gateway Minimum Option.	Works requested by Transport Scotland to assess and protect the current programme assumptions for both the Edinburgh Train project, and Edinburgh Getmany proposals.	Off Street Clau	Clause 90	2	80	H.	1,450.00 21/1	11/12/2011 INF CORR 8048	FA 1	16/01/2013					ŕ	12/01/2012	16,000.00	00:00 PMC:054	100-533 100-533 A 100-533 B	21/12/2011 12/01/2012 13/01/2012	Works requested and sout approved by Transport Sociated See Association 2002, 2 increasing value from £2,650 to 65,600. Rev 6 sound amending the requirement.
396	On Street Generally	Ducting Design Changes Due to Willbles Conflicts.	To prevent delay by providing a solution for potential utilities conflicts in advance	On Street Clau	Clause 80 Pt.		2/0	2 (0)	410,000.00 12/0	12/01/2011 INF CORR 8062	R8062 N/A	MA	NA	N/A		N/A	181	13/01/2012	812 £10,000.00	30.00 PMC-046	\$65-001	11/81/2613	22
267	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 Clau	Clause 80 RL		ple	2 10	110.000.00 12/0	12/01/2011 INF CORR 8961	88061 N/A	MA	N/A	NA		N/A	TåT	11/01/7912	110,000.00	30.00 PMC-050	\$65-001	11/01/701	
899	On Street Generally	Design changes due to Trackform conflicts	To prevent delay by providing a solution for potential utilities conflicts in advance	On Street Gau	Cause 80 Rt.		2/0	2 (1)	419,850.00 12/0	12/01/2011 INF CORR 8063	R8063 N/A.	NA	N/A	N/A		N/A	TäT	11/61/2012	912 £10,000.00	30.00 PMC-047	100-537	11/81/2012	C
595	Edinburgh Park	Additional flumming Costs associated with the extension to the Edinbursh Park offices.	To provide services for the office extension instructed under TNC 544 and tCO 512	Off Street, Class	Clause 80 CS		E/O	2 22	179,200.00 11/0	11/01/2011 INF CORR 8064	K8064 N/A	NA	N/A			NA	ß	31/16/2011	111 £79,200.00	30.00 PMC-031	100-53E	11/61/2011	11 Approved by Colin Smith
576	Shandwick Place	Onit the Removal of Trees in Shandwick Pisco	ontractor rying out urrently	On Street Schi	Schedule 45, Rt.		D/G	4	9,100.28 12/0	12/01/2012 INF CO68 8065	\$ 900 8					N/A	TâT						
571	Hope Street	Hope Street Junction Design	Legacy works following MUDFA	On Street Clau	Clause 80 St.	-	C/R	2 65	5,000.00 19/0	01/2012 INF CORR	18089 13/62	/2012				-							
572	Cathedral Lane Substation	Retaining Wall Design	ran unreinforced retaining ostation site	On Street. Clau	Clause 80 Pt	-	C/R	2	5,000.00 18/0	18/01/2012 INF CORR 8086		13/03/2013	25 - 2			15/01/2013	2012 T&T	18/61/2012	012 £5,000.00	00.00	100-540	18/01/2012	27
573	Roseburn	Non DDA Compliant Footpath	we solutions	Off Street Clau	Clause 80 SM	×	C/H/O	100	V61	19/01/2012 INF CORR 8090	14/92/2012	2/2013				03/01/201	1012						
574	Haymarket Station	Delete vaduct dadding	To interface with the Network Rail works		Clause 80 SM	en:	0/0	7 -110	0.000.00 19/0	19/01/2012 INF CORR 9091		14/02/2012	375	100		19/03/201	2012 .T&T	19/01/2012	012 610,000.00	0.00	100-542	19/01/2012	2.5
23	Haymarket Station	Take Down Haymarket, Station Viaduct Staincase and Parapet	1-15		1		C/B	1/3	/61	19/01/2012 INF COSR 8092		14/02/2013	8—35		. ,	19/01/2012	. ,,						
878	Arportto Gyle	Renstatement to 250mm Watermain Remedial Works	To reinstate the finshed works following remedial works undertaken by Cancy Dowrs	Off Street, Cliv	Clause 80 SM		2/0	2 168	00:000'5	24/01/2012		_				26/01/2013	2012 CEC	27/01/2012	210		100-543		
22.5	Haymarket Maduct	Deletion of Sub Station Retaining Wall and Plinth	To interface with the Network Rail works at Haymarket Station.	Off Street Clau	Clause 80 SM		5/0	2 -0	619,000,00 26/0	26/01/2012 INF-CORR 8098	48098					26/01/2012	7012 T&T	27/61/2612	112		100-544		
87.5	578 Ste Wide	Si Provisional Sum Allowamos	To remove unexpended provisional sums from the	On Street Schi	Schedule 45 MM	-	p/c	4	457,894.00 25/0	25/01/2012						26/01/2012	.012						

Change Category	Source of Fun
DC - Design Change	1 - Budget Tra
UC - Unforeseen Groumstances	2 - Contingen
CR - Client Request	3 - 0/5 Fundi
SR - Statutory Requirement	4 - Saving

Location	Description	Reason For Change	On Street /	181 Change Owner	Category pc/uc/cs/SR	Source of Funding 1/2/3/4	Source of Budget Cost for Date THC Letter her Eurofing Bisk and Issued 1/2/1/4 Potential Changes Changes L	Date TMC Issued	Letter Ref	Date Estimate Due	Date Estimate Received	Extinate Change Colonate Time Date found Approved BY Was Agreed Coff for Wilson Values Change Values (CCC) As Approved BY State Control of Confection Con	Estinate Change Value f Construction	Time	Date Issued A	oproved BY	Date Ag sproved or Rejected	wed Cost for Approved Contract Changes	Infrace PMC No.	tie Change Order No.
he Mound	Relocation of BBS 3te compound in The Mound to facilitate the introduction of bus lanes.	To divert buses from the Waverley Endge junction	On Street	Wa	S/S	5 %		2 5							2	30		9 5		ф Д)
in Street Generally	Site handback dates to 688 following.completion of works by Mitherbol as	Dates may vary from those previously identifies? / agreed due to completion of works.	On Street	KW	5															



Appendix 6 - Risk Register

i Tu	rner & To	wnsend		Edinburgh Tram Project Risk Re	9														-84					at a second
				·			,			7.00	SK ANA, YSIS	PWMS	gred			MATERIORIC SALVANIA		,		MSK	AMUTER	5 - Pout Minigan	wd .	ADDITIONAL INFO
ITPAK	Chengory	Count	Plak Dasuriyasu	Effect (Deput)	Risk Course (triggeressifier)	Plac Owner (individual)	ltina	Lovel	shillly - Co Probability Score	Risk In Cost T Impact in Score 5	me Re	out outest sect &	nix Score	Riak Level	Enting contribu	Mitspiring Actions	Atlant Owner	D _e s Date	shillty - C Probability Score	Cost Tie Impact Imp Score So	pact - Curr ine Re spect on oure in	end touted	Score Risk	Level Nors
D016	Contract	Delay over 21 days Cost over £750k	Risk that contract is moved to cost reimbursable	Costs	CEC	Julian Weatherley	Active	Program me	5	5	0	4	25	HEE	Monitor. Continue project management effort to avoid				5	5	1	4 2	25 8	FEG Relat
D019	Design	Lack of Design certainty for Infraco driver on street sections (e.g. York place tram stop etc)	Risk that additional scope/work is required that is not currently schedulad or costed	Cost and time	CEC	Julian Weatherley	Active	Program me	5	5	5	5	25	MED	Continuous lisison with intraco regarding additional scope/design to identify at earliest stage Managed by the section PM's Design Manager in place				5	5	4	5 2	25	ED FSG General design risk
D073	Utilities	Due to design of OLE base locations	OLE bases conflict with existing unknown and known utilities	infraco stop work or seek further instruction delays to remove conflicts	CEC	Stephen Lewcock	Active	Project - On Street	5	5	5	5	25	nen	Piled solution with enabling works contractor installing pile guides or alternative design Circular Pile design completed and implemented. First Sno OLE's have been piled in Haymarket 1.				5	5	5	5 2	25	Solution included in programme Pask of over and above
lEW1	interface S	Poor management of Scottleh Water by TE and poor record keeping during the MUDFA works.	Risk that the project relationship with Scottish Water detoriorates and access to tellities and resolving of delay issues becomes prolonged	SW less inclined to work closely with the project to solve problems; potential delays to overall programme at a time when time is cratical in final language, and infraction or impact on infraction works with potential overall delay to project and date	T&T	Rob Leech	Active	Project - On Street	5	5	5	5	25	men	Dedicated Scottish Water account Managor appointed Steeling Group Set up and attended by Project Director	Appoint senior manager to take over all non-infraco works Set up Steering Group to be attended by Project Director Finalso distribuse of all SW issues and sign off with SW Finalso programme of works for Lotth Walk lagacy issues Consider co-location of T&T resource with SW	Andy Scott	1. 20/01/2012 2. 20/01/2012 3. 01/02/2012 4. 01/02/2012 5. 01/02/2012	5	5	5	5 2	25	en.
D071	Utilities	Due to legacy issues and unknown services.	Discovery of additional Track construction conflicts (Live)	Further diversions requirements sequence of works interruptions delays to work Delays for consents Additional costs	CEC	Stephen Lewcock	Active	Project - On Street	5	5	5	5	25	MEO	Utility owners providing tive and dead drawings Building tibos into the programme to enable stit trenching in solvence of remediat works by easily smplementation of trailid management plan and utilising 2 week soft start BB bidging track form Localised sleeving of track / skt trenching	4 part scheme to revise TM and reduces schedule duration being reviewed and new programme issued for QSRA	1, Paul Robinson	1.01/02/2012	5	.4	5	5 2	25	
0003	Interfsce S	Removal of CAF from turnkey offering as part of settlement agreement, intraco do not take on integration responsibility	Tram (CAF) / intrastructure (infraco) integration risk, Risk that infrastructure and Tram meet the employers requirements but are incompatible such that system is incorporable.	Delay for commissioning	CEC	Alesteir Richards	Active	Program me	4	ě	4	5	20	MED	Tram integration manager (Alata) Richards) appointed GAF interface manager (Mikel inzar) to start from med-lanuary 2012 Section testing organia Programmed testing of complete track prior to project completion	Map out programme interfaces between intraco and CAF programmes. Develop detailed mitigation strategies for programme interface crunch points. 2. CEC to confirm liabilities resulting from settlement agreement.	Paul Robinson Gery Easton	1, 30/01/12	4	4	4	5 2	20	HD .
D005	Network Rail	Construction works through the NwR contidor Network real stakeholder management Clause 16.2	Risk of delay due to or failure to obtain NR approval to build as a result of clause 15.2 (NwR corridor)	Delay to off street works	CEC	Shirley Mushet	Active	Project - Off Street	, 5	4	4	3	20	me	Srd party rep approved by NR. Meetings ongoing with NR. Assisting contractor in production of a retailed plan for the submission and approval of NR approval documentation. Co-located team now onsite Delay activity records kept	Cotain NR agreement on proposals for interface management	t. Shirley Mushet	1. Ongoing	5	4	4	3 2	20 1	BD
D029	Consents	Lack of closure of agreements prior to programmed construction	Delay to gaining design Consents due to delays by 3rd perties (NR, SW, BAA, SG, Planning informatives etc)	Delay to construction works and Programme	CEC	Martyn Ayres	Active	Project	4	3	3	3	12	men	Monthly meetings with stakeholders ongoing 3rd Party Agreements tracker, design review tracker & informatives register being mainteined	Agree and understand consents obligations under the contract for each stakeholder	Martyn Ayres	22/01/12	4	3	4	3 1	16	io.
D084	Construction	Construction works	Late 3rd party claims for utility/property damages from works	Additional costs	CEC	Rob Leech	Active	Project - On Street	3	5	1	1	15	BED	Utility provider presence on site SW legacy works included in forecast	Ensure robust sign off process with utility companies	Rob Leech	12/01/2012	3	5	1	2 1	15 10	ED.
D074	Design	Design not finished on time CEC/3rd party do not approve designs within required contractual timescales	Design approvals milestones are not met in line with rev4 programme	Infraco unable to meet Rev4 programme Detay	CEC	Rob Leech	Active	Project	4	5	5	4	20	(GEE)	Fortnightly design team meeting strended by all stakeholders. Tracking SIS Design Programme Traffic light system for design approvats SIS design programme is incorporated into Missian Schadule.				3	•	5	4 1	15	±i
D077	Project Manage ment	Dasign out with LOO	Additional land required to allow construction	Additional costs	CEC	Rob Leech	Active	Project - On Street	, 5	3	5	1	25	HEE	Review to design out	identify key areas and put in to action the process for land registry identification etc via CEC	Rob Leech	30/12/2011	5	3	2	1 1	15 41	Land costs and dribys may exting on the control of Land control is to Potential Showstopper Potes Potes for programme appointed to call the dissipated out.
EW2	Project Manage ment	Due to the lack of a communications strategy and changing TM requirements.	Risk that the public, politicians and media are mis-informed about the project and TM plans	Loss of confidence, loss of media and political support	CEC	David Fox	Active	Strategic	4	3	2	5	20	WED	Regular, reliable and timely communications of information to the public, council and media	Strategy & resource plan being developed by plint communications group	CEC		3	3	2	5 1	15	can be designed out Pasidents /, local communities. Effected businesses and wider trailmes community. Politicians Other Stakeholders
0064	Project Manage ment	agreements	Unavailability of power supplies to meet the infraco rev4 programme	Delay	CEC	Julian Weatherley	Active	Project	3	3	4	2	12	HEE	Wayleaves to be obtained	investigate potential for NR site power supply (Gary little)	Alisteir Sim	30/11/2011	3	4	4	2 1	2 1	
D001	Program me	Contract Programme Narrative Assumptions do not reflect actual conditions on site	Risk that project delivery team fails to deliver against the Contract Programme Narrative	Potential compensation event trigger e.g. commitment to work within designated working areas	TST	Julian Weatherley	Active	Program me	5	5	5	5	25	men	Assumption review completed	Mitigation plans to be developed for each assumption Confirm Nearative is not contractual document Means Schedule to incorporate the dependencies against which the Programme Narrative assumptions are defined	Section Leads C. Gary Easton Robinson	1. 30/01/12 2. 11/11/11 3. 30/01/12	3	4	4	4 1	12	Main delays covered by file programme maturations. Not Controllars Main Programme tockdes addition (1 weeks & assurations are addressed Covered E0070019

		wnsend							T .	Twis	SK ANALYSIS	- Pre-Mile	gent			man services makeres					SK ANALYT	IS-Per Mi	i sprined		ADDITIONAL INFO
												T													
a c	Crengory	Cover	Plak Description	Ettesi/Impaki	Risk Owner ingentudary	Plak Owner (individual)	Stime	Livel	Probability - Co Probability Score	Risk In Cost To Inspect In Score Si	me Re npact on core Im	pulate pulate poct is	nk Score	Risk Leve	E was produce	Magazing Arroral	Attack Owner	D _F Der	Probability - C Probability Score	Cost 7 Impact It Score 6	Inne I Impact Score	Reputed in Impact is	Vink Score	Risk Level	Holms
004	interface s	Ongoing daims and issues	Risk of further breskdown in client / contractor relationship	Officult working relationships with a teck of trust and sharing of knowledge and expertise. Lack of joined up approach to problem solving. Delays to programme.	T&T	Julian Weatherley	Active	Program me	4	:4	5	5	20	HED	Control meetings in place Full time independent certifier Using new relationship to "wipe state cleen" and build new relationship Joint working groups in place Weeldy project directors informal meeting Generate Team building activities at all levels.	Section 4 to 1 to			3	:4:	4	4	12	880	
009	Construc tion	Poor quality workmanship or inadequate materials	Poor installation or latent detects occur during or after infraco maintenance period	built work does not meet employers requirements additional costs & delays	CEC	Julian Weatherley	Activo	Program me	3	4	4	3	12	mee	T&T PM's to provide regular feedback on progress, workmanship and quality on site Ongoing Auditing				3	4	4	3	12	mes	Maintainance perkel is t plus 10 years
072	Utilities	Due to legacy issues and unknown services.	Discovery of Track construction conflicts (abandonments)	infreco stop work to seek further instruction delays to prove abandonment	CEC	Stephen Lewcock	Active	Project - On Street	5	4	4	4	20	HED	Utility owners providing live and dead drawings. Building float into the programme to enable slit trenching in advance of remedial works by early implementation of traffic menagement plan and utilising 2 week soft start.					3	3	3	12	MED	Delay covered by ED071
028	Consents	Lack of closure of agreements prior to programmed construction	Delay to gaining Third Party design Consents due to late receipt or poor information (NR, SW, BAA, SG, Planning informatives etc)	Programme	BB/S	Martyn Ayres	Active	Project - Off Street	3	3	3	3	9	AMBER	As builts available Morthly meetings with stakeholders ongoing Marntain 3rd party agreements tracker, design review tracker & informatives register	Agree and understand consents obligations under the contract for each stakeholder	Martyn Ayres	22/12/2011	4	3	3	3	12	KED	
0092	Project Manage ment	Lack of a fram inspector agreement	Tram inspector duties are breached in accordance with the infraco/CAF contracts	Compensation event	CEC	Madyn Ayres	Active	Program me	5	2	2	4	20	1000	Allister Richards heading up Tram operations	Appoint Tram Inspactor	Martyn Ayres	30/11/2011	4	2	2	3	12	MED	
035	Consents	Land owner issues.	Risk that access to 3rd party land is delayed or denied	Defays and additional costs for compensation	CEC	Shirtey Mushet	Active	Project - Off Street	3	3	4	3	12	nee	Regular review meetings with key stakeholders				2	3	5	3	10	AMBER	Suggested by P&G robe due to finescales of our being denied - mand fine but due to kin probability
0002	interface s	Project controls not set up to control methods Lack of clarity of lines of communication	Risk that project delivery team fails to communicate the evolving impact of the risk profile to the client team		тат	Tony Wager	Active	Program me	4	2	3	5	20	NEO	CoCP Assurance team Discipline within project management / CEC / TS on issue of programme information	Gain darily on distribucient delivery learn governence and direction Review of project stakisholder management arrangements Project execution plan to capture above outcomes	David Fox Rowens Morris Paul Robinson	Complete Complete Complete	2	2	3	5	10		CEC risk as well
076	Utilities	Delayed provision of permissions from Unity Companies	Delay to achieving utility consents & supervision requirements for work increase	Delay to construction works and Programme	CEC	Stephen Lewcock	Active	Project - On Street	4	4	4	4	16	мер	Develop relationship with utility company leads and co-locate where appropriate	Map out consent requirements	Martyn Ayres	30/01/2012	3	3	3	3	9	AMBER	
023	Network Rail	Lete running trains, insufficient management of possession, lack of prior possession planning	Custailment of or in efficient use of possessions	Additional work, possessions required	BB/S	lan Musi	Active	Project - Off Street	3	3	5	2	15	MED	Timeous submission and approval of WPP in hire with standards Creation of possession RAG assessment and approval by NR below start date Prior to possession, agree Go/No Go times				3	3	3	2	9	AMBER	
012	Assuranc e	Leck of construction installation certificates Evidence & support Site Acceptance tests etc	insufficient documentation to meet handover requirements	Works not being accepted Handover deadlines not achieved Delay Re-work	BB/S	Martyn Ayres	Active	Program me	3	3	3	2	9	AMBER	Section project managers co-ordinating deliverable documents. 2 weekly review meetings monitoring process.	Co-ordination spreadsheet developed & to be agreed between stakeholders BB/S to provide co-ordinated program to support the delivery	1, ??? 2. Martyn Ayres	1. 01/12/2011 2. Over Due	3	3	3	2	9	AMBER	COVERED
0050	Construe tion	Extreme weather out with normal weather pattern	Exceptional adverse weather	Delay to work due to access restrictions or reduced outputs (e.g. concrete placing in prolonged cold weather). Damage to work in progress - rework.	CEC	Julian Weatherley	Active	Project	3	2	2	3	9	AMBER	Pre planning for weather mitigation (fleece- covers, lighting, water spray/dust suppression, provision of diniving water/sun cream, pumps). Plan using suitable weather forecast information for high risk activities (e.g. wind susceptible crane litts).	Review contract to identify antiffement for disruption	Greame McGinty	02/12/2011	3	2	2	3	9	AMBER	Rosa
032	Environm ertel	Construction methodology, including use of plant and equipment on site	Construction Noise or Vibration limit exceeded	Work stoppage , delay and/or additional costs, penatties, reputation damage.	BB/S	Shidey Mushet	Active	Project	3	2	2	3	9	AMBER	Mitigate noise generation by selection of appropriate methodology, equipment at WWP stage. Use appropriate, well maintained equipment, ensuring equipment is operated correctly and shut down when not in use.				3	2	2	3	9	AMBER	
0078	Construc tion	Excavation works across site	Discovery of archaeological site or human remains	Delay to works during action by authorities	CEC	Rob Leech	Active	Project - On Street	3	5	5	1	15	man	postlies/absorbers, mains power instead of generators. Archaeological strategy in place Mapping of known stes Training-briefing for site operatives, on recognition and action olan				2	4	4	1	8	AMBER	F CMCm
039	Construc tion	Failure by site staff to follow ITPs and relevant quality procedures. Poor performance (quality) during construction; poor materiats; detects.	Failure of Contractors / Sub- Contractors to self-certify completion, close out of NCRs and deliver construction/material quality	Delay to handover to system contractor or operator.	88/S	Julian Weatherley	Active	Project	5	4	4	3	20	nen	increased monitoring by Quality team to verify that proper checks are being carried out and records kept in accordance with ITPs.				2	4	4	3	8	AMBER	Rort
006	Commer cial	Unreasonable behaviour in relation to commercial disagreements by any party	Disputed interpretation of contract and valuation of estimates submitted for potential changes	Programme delay white disputes regarding estimates are resolved	T&T	Gary Easton	Active	Program me	3	4	3	4	12	же	"kilots guide" to key clauses of contract independent Certifier in place.	Mobifies specialist confract resource to support early dialogue on interpretation of confract & communicate to the learn 2. Developing a joint programme with intraco 3. Brest fearm on commercial provisions on the confract.	I. Steve Williams 2. Tony Wager 3. Gary Easton	1. Ongoing 2. 11/11/11 3. 11/11/11	2	4	3	4	8	AMBER	
080	Construc tion	Unidentified voids found during excavations/demolitions	Unknown or abandoned chambers', callers, voids etc.	Redesign and delays pending resolution - cost impact	CEC	Rob Leech	Active	Project - On Street	3	3	5	2	15	mee	Design management process. Advanced diversion works. Ongoing surveys/enabling works from intraco.	**************************************	CONFO		2	3	4	2	8	AMBER	Covered above

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										IDEX ANALYSES - Pre-IAIN	- Pre Miligan			Season and Season	Î		1	HEN AND	NEW ANALYSIS - HAR MIN	peakin		ADDITIONAL 1890	
terries a	Company		Risk Descriptor		Risk Dense Ris	Flat Ower	3	Probe	abi Cost Physics 6 Score	Time Reput Bross on Score Imped	pulled pulled back Sak Sa	Rat Level	an exception of	and the district	Astin Ones	9 4.2	Probability - C. Rak Probability Cost My Score Score	Risk Impact- at Time sect Impact sec Score	Reputer On Impact	Rink Score	Risk Level	Howa	
ED037	Network Rail	BB/S over run of work under possession		Tran delay charges under schedule 6	CEC	Str Murit	Active Off	Project - 2 Off Street		i i	•	AMBER	Timeous submission and approval of WPP infere with standards and Creation of possession RAG assessment and approval by NP bolose standate Pror to possession, agree Go.No.Go times	Review of intrace contract to determine wither (Schecule 8 and remediation costs are intercemble from intrace (Nen Coyle)	Greame 0 McGinty	02/12/2011	8			ω	AMBER		
ED006	Program me	Due to number of different programmes		disruption to delivery and associated delays.	T81	Tony Ac	Active Prog	Program 3	6	-	5 15	NEO NEO	integrated Master Schedule completed Ongoing testing and QSRA on the programme	000			8	6	4	80	AMBER		
ED075	Project Manage ment	Legacy issues beyond York Place	Lagacy issues beyond York Plene cause delay to finalising design of works to be implemented by 2014	Delay to design and construction programme	CEC	Rob Leeith Ac	Active On S	Project - 3	e	•	4 21	di He	Fortnightly design team meeting attended by all askenbolders. Tracking SUS Design Programme. Design Manager in place.	Agree finalised scope between CEC and so yet identified and set in the wath controlline work to be done in line with controllinents to delivery works to be implemented.	Rob Leech 0	08/12/2011	N N	6 4	4	60	AMBER	. this Utilities or Forth Ports.?	
ED040	Assuranc e	Faiture to define procedure of progressis sesurance with ICP endroy HMRI, leavin seares unresolved at start-up	Faiture to complete ROGS/SVS species, including and evidence assurance-byarification and evidence of risk assessment/imbgaton in design/construction/operation/mair enance	Aley in acceptance of securities of CPHAMI, the control of control of assenger service, resulting in assenger service, resulting in dis and possible mithee/LADS	BBrS	Martyn Ac	Active Pro	Project 2	ю.	•	-	AMBER	Comply with defined process to achieve progressive instantance in good time. To be be yearlication and required handower documentation in good time.				N	.4		0	AMBER		
NEWS	Project 5 Manage ment	Legacy issues	Public Enquiry called prior to Completion	Defays	CEC DB	David Fox Ac	Active Stra	Stratogic 2	6	•	4 8	AMBER	5	Monitor political stance Resource required to be investigated.	CEC		2	6	•	8	AMBER		7
ED044	Environm ental	feliure to implement/maintain agreed measures for watercourse protection		Breaches to licence conditions - prosecution, fines, potential additional cost and delaystoppages. Reputation damage	S S S N	Shirley Ac	Active Off S	Project - 2 Off Street	2	n	8	AMBER	Strict observance of CAR Itoence constitons. ER Robust plenning of work schulles, including assessment of publice risk in WPP development, e.g. piles of exposed	and the second s			n n	8	4	60	AMBER E	d park-pagarinetin et Lath etc	
ED013	3 Commer cial	Delay to or lack of agreed formal Variation instructions.	sned	Delay to varied works and Programme	T&T We	Julian Weatherley	Active Prog	Program 4	2	*	8	AMBER		Formal instructions required for Variations dentified to date. Protocol required to formalise future changes prior to programmed construction.			4	2	N	60	AMBER		
NEW3	Project 3 Manage ment	Lack of resource & clear co-ordinated procedures		bas of public & political confidence	CEC DR	David Fox Ac	Active Stra	Strategic 3	2	8	5 15	NEW 9		plaints & FO!	CEC		8	2 2	.₹:	0	AMBER		- 0
NEW?	Project 7 Manage ment	Lack of oro active strategy	Poor public information on Launch in	reputation demags, public confusion	CEC MD	Bob McCefferty Ac	Active Stra	Strategic 3	2	\$ # \$	5 15	NEW S		Create Launch plan Signage etc	CEC		2	1 2	7	0	AMBER		- 3
NEW4	Project A Manage ment	Lack of communication		Lack of confidence in delivery of the project, undernining council reputation	CEC MO	Bob McCefferty Ac	Active Stra	Stratogic 4	57%		20 20	tion o		Ensure communication strategy internally (within council	CEC		2		70	0	AMBER		
ED030		Constraints applied to work areas to satisfy stakeholders is not aligned with the provisions in the infraco contract. Non approvel of TM proposals	Additional traffic management and Additional traffic management and resoluting works are required to meet its Stakeholder constraints (Syle Broschway, Ed Park, Lochside etc.)	Additional costs and programma impacts	CEC We	Julian Weatherley	Active Pro	Project 3	8	N	о	AMBER	Utilise competent TM staff, working closely with existing TM control process. Ensure that any impact of external change is notified to Client and followed up for cost/time entillsement.	Review of infraco contract to determine wither (3d party agreements are aligned with the contract and identity critical areas	Greame 3 McGinty	30/12/2011	N N	es es	n	60	AMBER	8.Grak. 15	
ED063	Project 3 Manage ment	Due to number of contractors working on site	Scotnal stop works at depoil	Dolay	CEC S	Shirley Ac	Active OH S	Project - 2 Off Street	4	4	2 8	AMBER	250				2	8	8	49	AMBER 5	Uppester of green from F&G seed on stage of depot works cothall working depot, not Dagar	
ED007		Lark of tarisperenty of final document delivery	9 9	Works not being accepted Dates to the project key elements being missed	BB/S N	Martyn Ac	Active Pro	Project 3	13	n	8	AMBER	Section project managers co-ordinating deversible documents. 2 weekly review meetings monitoring process.	Co-optimation spinearished developed 8 to be agreed between statecholders. BBS to provide co-outinated program to support to below, with the section of the order of the continued program to continue the section of the continued of the continued to solver about the completion.	Rowena 0 Morris Martyn Ayres C	01/12/2011 Over Due	~	es es	N	40	AMBER N	egonauce.	
ED049	Design	Late or incomplete design submission. Failus to design to inquirements. Extended design approval periods.	Deky in Design Approval due to P BB/S work	ons.	BB/S We	Weatherley Ac	Active Pro	Project 2	m		e e	AMBER	Robust design menagement by BB/S. H. Detailed morntoring of approval process by BB/S. BB/S.				N N	n	.00	6	AMBER		
ED064	Constru	Underestimation of drainage requirements High rain fall, proximity of works to Halercourse at various points on the route		additional time & costs and materials	BB/S M	Shirley Ac	Active Off S	Project - 2 Off Street 2	6		2	AMBER	86				2	e e		6	AMBER		100
ED066	Project 6 Manage ment	CEC provided equipment	tiy of	delay, repair costs	CEC We	Julian Weatherley	Active OH S	Project - 3 Off Street	е .	е .	6	AMBER	5	investigate potential for early tearing of system (integration	Ceth Leech 3	30/11/2011	8	2 3	8	9	AMBER		
ED016	6 Contract	Soppe of works relating to Wide Area Modelling have not been agreed with SDS.		Potential additional construction	BB/S We	Weatherley Ac	Active Pro	Program 3	N	N	-	AMBER		Agnes Scope of veries releting to Wide Axen Modelling with SDS				20		6	AMBER 7		
ED046	O Utilities	Failure to boste apparatus prior to exceed a feet and feet of feet	Demsge to Utility Apparatus	Safety hezard to workforce or fundic (gas elegases). Interruption to supply, impact on funding the funding sendor reputation damage. Penalties and/or compensation claims.	BBS	Stephen Ac Lewcock	Active Pro	Project 2	2	8		AMBER	Rouss Permit to Dig procedures ER Communications in please to call out utility for urgent repairs				~	2	10	0	AMBER	Suppose for ONOn abset 777	

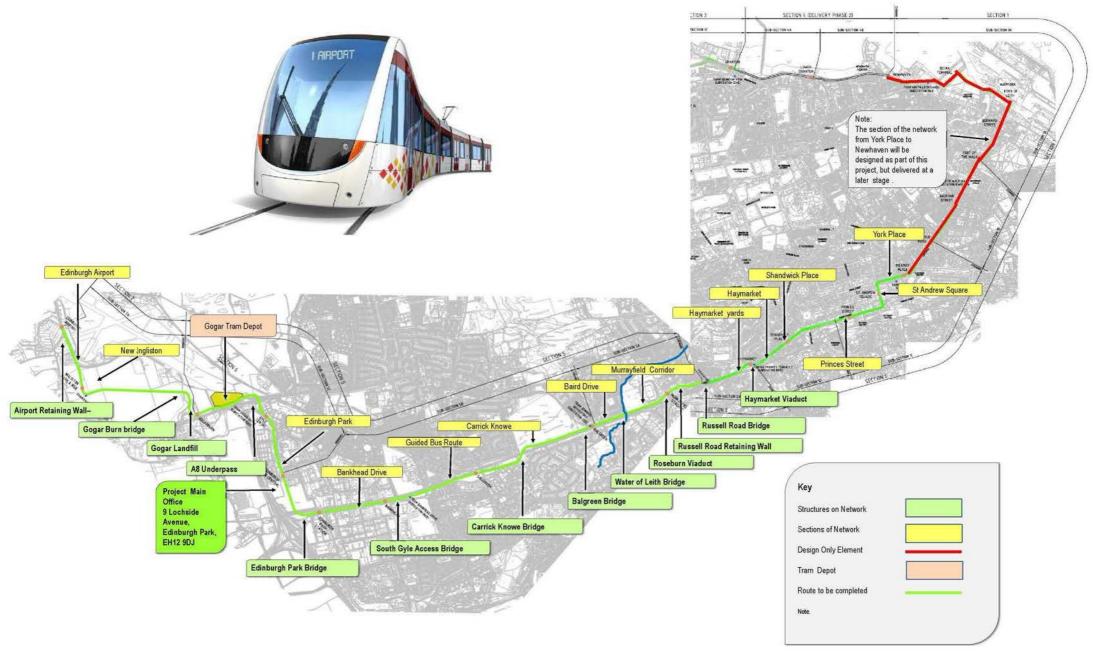
r Tu	ırner & To	wnsend		Edinburgh Tram Project Risk Re	rgiardf			0											-						
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Trac	Catron/s	Course	Pink Dissortation	Effect (Innact	Righ Owner	Philip Owner (individual)	Mina	Live	shill by a Co Probability Score	Rink In Cost T Impact in Score 5	npect - Cur fine R mpact or score In	leputeri ri ripect ka	is Score	Ras Leve	Elemonomia	Window Altron	Atlantown	n - nor	Probability Score	Cont Cost Impact Score	Time Impact Score	Reputation	N Mi Score	Riak Level	Howa
0053	Construct tion	insufficient surveys and trial holes etc	Unforeseen ground conditions require additional works, excavations, till etc.	Additional costs, work and programme impacts	BB/S	Julian Weatherley	Active	Project	3	2	2	1	8	AMBER		Surveys/enabling works to identify		3100/10-	3	2	2	ene.	6	AMBER	-
0015	Project Manage	Political and/or Stakeholder objectives change or require design changes	Client amendments to design scope from agreed baseline	Programme delay and cost impact	CEC	Julian	Active	Program	3	2	2	2	6	AMBER	CEC to monitor potential changes.				3	2	2	2	6	AMBER	
0045	Metwork Rail	Delay to completion of Haymarket access road, progress of NR project & tack of visible BBS progress in area	NR disputes and compensation due Haymarket interface issues	compensation costs and relationship issues	BB/S	lan Muir	Active	Project - Off Street	3	2	1	2	6	AMBER					3	2	1	2	6	AMBER	
D048	Environm ental	Excavation, plang and digiting on contaminated land releases contamination to receptors - land, air, water	Release of pollution from contaminated fand or land not providusly stendition as contaminated	Failure to identify contemination, or failure to implement agreed measures procedures for known contamination, results in breach of associated environment legislation is reloased to the water environment, results in work stoppage, deliy and/or additional costs, penalties, reputation damage.	8B/S	Shirley Musher	Active	Project - Off Street	, 2	2	3	2	6	AMBER	Carry out Phase I and Phase II investigation and their remodation procedure as per agreement with the local authorsy. Establish control procedure for contaminated groundwater. Brief worldozo on identification of contamination, and reporting requirements.				2	2	3	2	6	AMBER	
EW6	Project Manage ment	Lack of consultation with stakeholders	Branding and name choice of trams is universally disliked	Reputation damage to Council	CEC	Bob McCatterty	Active	Strategic	3	2	1	5	15	нио		Lothian Buses & Council to liaise regarding name & branding	CEC		2	2	1	3	6	AMBER	
0065	Project Manage ment	Operator interface	Risk that operator is late in providing information & personnel required by infraco for festing and commissioning	delay to testing and commissioning	CEC	Alesteir Richards	Active	CAF	3	3	4	2	12	THE		Lothian Buses to be engaged by CEC	Alisteir Richards	30/11/2011	3	1	2	2	6	AMBER	Orlores, partiellal etc
D051		Project delay has lead to build up of large quantity of materials in off site storage facilities	Insufficient storage and associated security	Delay to project/programme delay	CEC	Rob Leech	Active	Project - On Street	3	1	2	2	6	AMBER		Identify requirements and source additional storage space - Liaise with CEC	Rob Leech	30/11/2011	3	1	2	2	6	AMBER	Storinger disposit Liebilis
0014	Commer cial	Client's failure to authorise interim payments to infraco	Delayed interim certification and/or payment of Contract sum	Late or non-payment may lead to suspension of work by infraco	CEC	Julian Weatherley	Active	Program	2	1	3	2	6	AMBER		Ensure that all payment applications are processed and agreed within Contract timescales			2	1	3	2	6	AMBER	
D047	Environm ental	Spillings from clischarge pump during fuelling: Leakinga from storage tanks	Hydrocenton contamination of the ground; groundwater and watercourses	rosulting in ecological damage, penalties, legal action, delay and/or clean-up costs	BB/S	Shirley Mushel	Active	Project - Off Street	2	1	3	3	6	AMBER	Fueling of mobile equipment to be carried out in twirsk boations, using appropriate equipment. Comply with Oil Storage Regulations. Storage away from sensitive receptors and/or drainage systems. Ensure spill kits available for minor spillage. implement an emergency response plan, implement an emergency response plan, including spaceliet response contractor.				2	1	3	3	6	AMBER	
0017	CAF	Financial issues not controlled by project	financial reasons and potential	non delivery of trams, delays and costs to re-procure	CEC	Julian Weatherley	Active	Program	1	5	5	5	5	AMBER					1	5	5	5	5	AMBER	
0079	Project Manage ment	Rail coeting is not installed as per manufectures guidence and or is damaged during remedial works	insolvency Risk that new track slab/ rails fails testing for stray current (water ingress) and requires to be broken out and replaced.	Design delay, program additional costs	BB/Ś	Rob Leech	Active	Project - On Street	1	3	3	5	5	AMBER	Testing engoing Remedial works ongoing through works prior to five current.				1	3	3	5	5	AMBER	Teating complete and passaid no block top. Availing results of temporary cover teats. Full instablish realing at 8 to complete.
D042	Network Rail	Proximity of engineering works to NR assets	Engineering works destabilise or cause movement in the embankments and NR asset resulting in need for additional work	Additional works, possessions and delays	BB/S	lan Muk	Activo	Project - Off Street	2	4	4	3	8	AMBER	Monitor EB/S works and ensure methods are in place for sale working	Review of infrace contract to determine wither Schedule 8 and remediation costs are recoverable from Infrace (Atan Coyle)	Greame McGinty	02/12/2011	ī	4	4	3	4	GREEN	
D038	Construction	Failure to control fire hazards during construction or commissioning	Fire in Deptit Building	Fixe in depot building causes damage to structure, trains or control from equipment, delaying system operation	CEC	Shirley Musher	Active	Project - Off Street	2	4	4	3	8	AMBER	Include the hazard sasessment in all Work Package Plans. Robust control of meterest storage and waste cisposal. Signorus enforcement of no-smoking rules All temporary and permanent electrical installations to be designed, massled to design and monitored. Adaption of temporary electrical systems to be injunciestly controlled. Appropriate permit systems to be used (o.g., Hot Works).		Andy Scott	92/12/2011	i	4	4	3	4	GREEN	
D011	Funding	CEC do not agree funding and contingency on time	Full funding and contingency not available on time for key payment milestones	additional costs, delays and legal claims	CEC	Julian Weatherley	Active	Program	2	5	5	4	10	AMBER					1	4	4	4	4	GREEN	
D056	CAF	Delay of Depot	Lack of available/suitable storage for CAF trams	Additional costs for rental of alternative storage and delays to moving of Trams	CEC	Shirley Mushet	Active	CAF	5	4	3	4	20	men					1	4	3	4	4	GREEN	Depet Stonege wheest available
D058	Construc tion	Terrorism, Vendelism, Trespass, Arson, Protester action	Security incident on site	Delay to works due to time lost or damage caused as a result of a security incident. Environmental impact and adverse publicity.	BB/S	Julian Weatherley	Active	Project	1	3	2	4	4	GREEN	Appropriate site security to be in place, based on security hazard assessment. Vulnerable materials or works to be protected.				1	3	2	4	4	GREEN	Covera both T&T and BB/S PB/B
D052	Interface 5	Concurrent major projects in Edinburgh	Other major project conflicts with trams (excluding existing NR projects)	Delay and additional project management costs	CEC	Shirley Mushet	Active	Project	3	2	2	2	6	AMBER	CEC tracking external projects.				2	2	2	2	4	GREEN	
0021	Network Rail	Misunderstanding of possession requirements / timescales	Lack of disruptive possession availability to complete works	programma dalays	BB/S	ian Muk	Active	Project - Off Street	. 5	2	5	4	25	WEB	Infraco confirmed that no possessions required.	BB/S Review design for overhead line to remove conflict if possible.	3. Shaley Mushet	3. Complete	1	2	4	1	4	GREEN	Scotts#28 week notice perk 685 first they can design ou need for disciptives through redesign of the overhead line

# Tu	ırner & To	ownsend		Edinburgh Tram Project Risk Re	gister																			
			·							7.00	ISK ANALYS	is - Pre-Mitig	pried		1	MATERIORIE PLANNIE.	_			MSKA	MALTER - PA	et Misgened		ADDITIONAL INFO
MITTER MITTER	Chenguly	County	Plan Description	Edyct (bypat)	Risk Gernel strippmentaris	Plat Owner (individual)	line	Liwiel	polity - C Probability Score	Cont Interest to Score E	npact - Cur Time R Impact or Score In	rent leputeti n	nk Score	Risk Level	Exercis continu	Mayong Arrow	Atlant Owner	tipe Dest	shifty - Co Probability Score	Risk Impa Cost Time Impact Impa Score Score	2-Current Reput on e Imper	ndi	n Risk Level	Nome
D043		insufficient environmental surveys or tailure to implement/meintain agreed measures for wildfile or ecological protection	Accidental damage to unforeseen widite habitat, or failure to prevent damage to known habitat (Otter, Badger, birds, water voles, amphibians).	Additional mitigation costs, breaches to licence conditions, prosecution, times and stoppage or delays to works	BB/S	Shirley Mushel	Active	2		2					Ensure licence conditions within method statements. Training for site team (toolbox taks)	Check Ecologist who is the licensee for conditions - ensure widdle survey data is complete and evallable to site team.		8888	1	2 3	3 4	4	GREEN	
D055	Contract	Service commencement period	Sub suppliers warranties expire during the maintenance period and Siemens may have legitimate claim due to delays	additional costs	BB/S	Shirley Mushet	Active	Project - Off Street	3	2	2	1	6	AMBER					2	2 2	2 1	4	GREEN	Maintainance gerkel is Section plus 10 years
0057	Network Rail	insufficient time, technical information, processes or failure in Audit	Applications for Natwork Rail site access are refused or delayed	Delays to works	BB/S	lan Muk	Active	Project - Off Street	2	2	2	1	4	GREEN	T&T carrying out through audits				2	2 2	2 1	4	GREEN	
D095	CAF	Trem system issues	Failure of key Tram testing during commissioning	Dalay to train availability to test on track	CAF	Alastair Richards	Active	CAF	3	1	2	2	8	AMBER					2	1 2	2 2	4	GREEN	
NEWS	Project Manage ment	May efections	Change of local authority leadership	change political priorities	CEC	Bob McCatterty	Active	Strategic	2	2	2	4	8	AMBER		Ensure communication strategy internally within council	Alan Coyle		1	1 1	4	4	GREEN	Currently creats purity support to the project
ED094	Utilities	Unknown condition of utilities	Failure of Utility assets which impacts on infraco works. (i.e. power supply, burst pipes etc)	Delay to infraco works	CEC	Julian Weatherley	Active	Project	2	2	3	4.	8	AMBER	Monitor infraco works to identify utilities to be used:				31	3 3	3 2	3	GREEN	
ED060	Construc tion	Lack of QA control of construction information	Failure to implement rigorous QA control of information for construction	Errors, rework, delay and/or cost	BB/S	Martyn Ayres	Active	Project	1	3	3	3	3	GREEN	Establish robust document register (drawings and other documents). Establish robust procedure for release of information for construction.				1	3 3	3 3	3	GREEN	
E0090	Program me	Other CEC projects	Delivery of the project suffers due to external priorities of CEC (forth ports)	Delays	CEC	Julian Weatherley	Active	Program me	2	3	3	3	6	AMBER					1	3 3	3 3	3	GREEN	
ED061	Project Manage ment	Strikes in site labour force or suppliers affect works progress or delivery	industrial Action	Lost time due to strikes or delivery delays	CEC	Julian Weatherley	Active	Project	1	2	2	1	2	GREEN	Effective worldorce communication/consultation, using existing safety/welfare consulting process. Use of reputable sub-contractors and				1	2 2	2 1	2	GREEN	
ED069	Design	Depot relocation away from airport site	Exclusion of high cost abnormals within current depot scope	reduction in costs and reduced construction periods	GEG	Rob Leech	pportuni	Project - Off Street	,	1	i	1	1	OREEN	- to				1	1	1	1	GREEN	



Appendix 7 – Route Map

TRS00009718_0091





Appendix 8 – Acronyms



ACRONYMS

ACCD	Assessment debits and Development Mention	
ACCB AiP	Accommodation and Boundary Works Approval in Principle	
ANC	Advice of Non Compliance	
2.00		
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	
СОММ	Commissioning	
CVI	Confirmation of Verbal Instruction	
DAS	Design Assurance Statement	
DASB	Design – As Builts	
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	
0.000		
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	

TD.C	Value Dissiplinary Charles
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	PROPERTY TO THE WAR DOWN
	Key Performance Indicator
LAND	Landscaping
LIGH	Lighting
LOLER	Lifting Operations and Lifting Equipment Regulations 1998
MANA	Management
MECH	Mechanical
MILE	Milestones
MISC	Miscellaneous
11 C C C C C C C C C C C C C C C C C C	Open Control C
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 SCADA	Site Acceptance tests
SDS	Supervisory Control and Data Acquisition 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	
SNH	Safety Management System Scottish Natural Heritage
SP	Scottish Natural Heritage Scottish Power
STAK	Stakeholder Stakeholder
STRL	Street Lighting
STRU	Structures / Retaining Structures
SUBM	Submissions Structures
JOUDIN	I SUDITION IS
SUBS SURV	Sub-Stations Surveys

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

			mitigation measures		
Key Issue	S	Action required	Responsible Officer	Agreed deadline	Comments
Site Details		required	Officer	acaanne	
-	Maps	Provision of visitor maps of West End and key city landmarks	Kelly Murphy	10/2/12	
	Crossing Points	Directional arrows on lampposts to indicate crossing points	Bob McCafferty/ Stuart	3/2/12	
-	Directional Signage – "Ten Minutes To Haymarket"	Parisian drums with signage to and from key locations Princes St, Haymarket etc	Kelly Murphy	3/2/12	
	Road Routes access signage	Signs indicating key vehicular routes	Alastair Sim	10/2/12	

West End tram work

-	Fences	Replace Shandwick Heras fence with Princes St solution	Bob McCafferty	17/2/12	
-	Barrier Heights	Reduce barrier heights at crossing points	Bob McCafferty	10/2/12	
	Kerb edges	Introduce black rubberised kerbs outside House of Fraser on Queensferry Street	Bob McCafferty	10/2/12	
-	Increased crossing points	Add a further crossing point at east of Shandwick Place	Bob McCafferty	3/2/12	
		Remove Heras footings from pavement outside Cavalry club	Bob McCafferty	10/2/12	
*	Maximum pavement widths	Place Heras inside railings at House of Fraser	Bob McCafferty	10/2/12	
		. ,			ļ

Site Presentation

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_	Colours and	Replace red and	Bob McCafferty	17/2/12	
	type of barrier footing	white Heras bases with more neutral colour	Bob McCallerty	1772712	
-	No fly parking	Remove all unnecessary vehicles within Heras area	Bob McCafferty	1/2/12	
-	Weekend working	Introduce weekend working	Bob McCafferty	10/2/12	
-	Litter (clearing of rubbish)	Establish daily litter collection routine within Heras compound	Bob McCafferty	6/2/12	
-	Removal redundant street clutter	All temporary signs with concrete bases and temporary traffic signals to be removed from Shandwick Place area	David Lyons	10/2/12	
-	Project information	Provide hoarding showing expected duration of work programme ad work to be carried out	Kelly Murphy/ Colin Smith	10/2/12	

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venicular A	On Street Parking reductions	Additional parking on Melville street to replace lost central bays	Marshall Poulton	17/2/12	
-	Signs for on street parking	Introduce signs showing where cars drivers can find parking	Andy Conway/ Gavin Brown/Kelly Murphy	10/2/12	
-	Through Route and Destination Signage	Improve Signage of key through routes	Marshall Poulton	17/2/12	
-	Traffic Flow	Review one way operation of Manor Place	Marshall Poulton	17/2/12	
-	Locations of Bus Stops in West End	Review opportunity for a bus stop at foot of Lothian Road	Alasdair Sim	17/2/12	
-	Access to problem areas	Improve access to Coates Crescent from south side	Alasdair Sim/ Marshall Poulton	17/2/12	
Communication with Stakeholders					
*	Stakeholder briefings	Organise briefing session in west End for 15th February	Dave Anderson/ Kelly Murphy	7/2/12	

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-	Marketing support	Develop straw man marketing plan	Greg Ward/ Towb Centre co- ordinators	24/2/12	
-	OfB budget initiatives	Agree outline OfB plan	Dave Anderson	17/2/12	
-	Frequency	Continue weekly stakeholder briefing note and update list of recipients and monthly meeting of West End stakeholders	Kelly Murphy/ Dave Anderson	Weekly ongoing	
-	Governance	Establish West End OfB steering group	Dave Anderson with WECC and WETA	17/2/12	
-	Contractor Responsive ness	Identify site stakeholder liaison reps for McNicholas and BBS	Colin Smith	10/2/12	
-	In store information point at Lothian buses	Set up tram works information point in Lothian Buses Shandwick Place outlet	Kelly Murphy	2/3/12	

- Vacant shop units	Contact Property Agents about window dressing vacant units	Greg Ward / Lindsey Sibbald	17/2/12	
Mitigation & Support				
- Action to return space to pedestrians as soon as practicable	Develop phased return of space for pedestrians by reducing work sites	Colin Smith/ Bob McCafferty	Phased Return	
	Take out triangular sections of Heras sites at Hope street and front of HoF	Colin Smith/ Bob McCafferty	10/2/12	
- Minimise Parking restrictions	Review West End Parking Tariff – parking charges, zoning, hours of enforcement	Marshall Poulton	24/2/12	
- Animation – events, markets, promotions	Appoint events organisers to arrange twice monthly events in west end	Greg Ward / Susan Lanham	10/2/12	

- Business Rates – review and discount for disruption	Continue active liaison Joan Hewton Lothian Rates assessor	Lindsey Sibbald/ Town Centre coordinators/ Alf Orriel	Monthly meetings with Assessor's office	
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