Delivery Organisation Period Progress Report

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Project Title: Edinburgh Tram Project

Reporting Period: Period 13 2008/09

Transport Scotland Project Manager: John Ramsay

Progress Meeting Date:

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Date:	/09

For and on behalf of tie Limited

Delivery Organisation Period Progress Report

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1 Executive Summary

tie provided Transport Scotland with a update summary of cost and programme on 26th March 2009. The relevant sections of this report have been updated to reflect these <u>unapproved</u> changes. These are subject to review by the Tram Project Board and CEC under the existing delegated authorities.

HSQE



One major reportable accident occurred during Period 13; a Carillion operative jumped into a 1.4m deep excavation and suffered a broken bone in his ankle resulting in the 13-period-rolling AFR rising to 0.38. This is under investigation by **tie** and Carillion.

The service damage frequency fell for Carillion but increased for BSC. The number of power cables being struck has increased including a significant strike to an 11 KVA cable. The average number score for PM inspections was 89%. BSC average score is 95% and Carillion is 81%. During the period there have been six safety tours carried out (six planned). There were 13 Project Manager Inspections planned and 16 carried out.

The frequency of Member of Public incidents has increased, mainly due to security incidents at Princes Street. Although intruders have managed to climb the fence on some occasions, BSC security has prevented further access. This will be monitored closely.

As a result of the Carillion reportable accident, a "blitz" on excavation inspections was carried out by **tie** work supervisors and HSQE staff. Areas of concern were noted with access, shoring and barriers, these have now been addressed. Further specific inspections will continue.

A successful meeting was held between **tie** and the HMRI during Period 13. The meeting was part of the continual working relationship with the HMRI and their interest in the design, construction, commissioning, operation and maintenance of the project. During the meeting a presentation was given by CAF regarding the Tram and by a representative from Manchester University regarding the wheel rail interface.

Commercial

Agreement was reached (Princes Street Supplemental Agreement) to allow work to commence on Princes Street from 23rd March, notwithstanding resolution of the formal disputes. One of the disputes has now been referred to the next stage of the process – mediation or adjudication.

Additionally, tie and BSC have now set up a "Project Management Panel" (PMP) to review and agree issues with the objective of re-invigorating the contractual and working relationships. During the period BSC appointed a new Project Director, Martin Foerder, who until recently was working for Bilfinger Berger on the Malmo Metro project – this has been welcomed by tie.

Programme

As per the summary provided to TS on 26th March and in advance of developing agreement with BSC, **tie** has developed a recalibrated baseline programme which reflects an Open for Revenue Service date of 23 Feb 2012. The table below also reflects a completely unmitigated programme <u>as a control scenario only</u>. This is an <u>unapproved</u> delay to the Open for Revenue Service date. The unmitigated live programme predicts and Open for Revenue Service date in June 2012.

Although the recalibration exercise has been ongoing for some weeks, progress with engaging with Infraco on this matter has been hampered until now as a result of the other disputes. **tie** have have a firm expectation of fully constructive engagement by the consortium following the signing of the Supplemental Agreement (SA) for Princes Street and the establishment of the PMP amongst the parties to resolve outstanding issues and ensure progress is made on critical construction activities. Early evidence from the first PMP meetings has supported this constructive engagement.

On a section by section basis there are "swings and roundabouts" identified in terms of improvement / degradation of delivery dates. Integration of these sections by BSC is now underway and the re-baselined programme assumes the all logic changes will be accepted by BSC.

Area	Description	Unmitigated Finish	Re-baseline Finish
Section 1A	Newhaven Road to Foot of the Walk	03-MAY-12	08-SEP-11
Section 1B	Foot of the Walk to McDonald Road	10-JAN-12	09-SEP-11
Section 1C	McDonald Road to Princes Street west	28-MAR-12	06-SEP-11
Section 1D	Princes Street West to Haymarket	19-OCT-11	17-MAR-11
Section 2A	Haymarket to Roseburn junction	14-FEB-11	28-JUL-10
Section 5A	Roseburn Junction to Balgreen Road	20-MAR-12	17-JUN-11
Section 5B	Balgreen Road to Edinburgh Park central	23-JUN-11	04-FEB-11
Section 5C	Edinburgh Park Central to Gogarburn	24-OCT-11	20-JAN-11
Section 6A	Gogar depot	28-MAR-11	15-OCT-10
Section 7A	Gogarburn to Ingliston Park and Ride	07-JUL-11	11-MAR-11
Section 7B	Ingliston Park and Ride to Airport	26-JUL-11	11-MAR-11
Section A	Depot (ready to receive trams)	21-JAN-11	15-OCT-10
Section B	Test track	07-JUL-11	27-DEC-10
Section C	All construction complete	20-APR-12	27-AUG-11
Section D	Open for Revenue Service	17-OCT-12	23-FEB-12

Importantly, the re-baseline programme does not take account of any opportunities regarding:

1. Improved productivity rates - Princes Street will be an important test in this regard;

- 2. Embargo relaxations;
- 3. Alternative construction methodologies to recover time;
- 4. Adjustments to the testing and commissioning phase (the original programme window has been retained); or
- 5. Partial opening options.

Progress – Design

Good progress is being made in Prior and Technical Approvals with 91% and 84% of each being granted by CEC, respectively. Of the Prior Approvals required, only five remain to be granted and 13 Technical Approvals remain to be granted.

Structures approvals are progressing well – one structure from v31 remains to be approved (Balgreen Road NR access bridge). Roads and drainage approvals remain difficult although positive progress has been made to resolve CEC detailed comments with three areas outstanding for Technical Approval in Phase 1a. Scottish Water are now making good

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progress with drainage outfall consents with two of the four on-street sections informally approved. Two consents are still to be submitted by SDS. All other consents expected to be granted by SW in Period 1 2009/10.

The section 1B close report was signed off by CEC on 24/03/09. Section 1C3 and 1D close reports are now with CEC to conclude. Other sections (excluding Section 7) are pending on SW approval.

Seventy four out of the 93 IFCs have been issued to date. The slippage is being addressed as part of the ongoing Approvals Taskforce and is incorporated into the re-calibration of programme. Reasons for design slippage are being reviewed and recorded each week at the design taskforce meeting which is focused on resolving outstanding design issues. This slippage will be addressed as part of the re-calibration of the programme. **tie** are identifying and implementing opportunities to mitigate the impacts of this slippage.

The quantum of designs which are required to go through a re-design process as a result of either the approvals process or value engineering is captured in the programme analysis and the integrated design programme incorporating all system activities is expected from BSC.

Progress – MUDFA (Utilities)

Utility diversions are now complete in sections 5a, 5b and 6 (depot). BT cabling and SGN connection works are now underway. Utility diversions continue on a number of fronts throughout the city including Leith Walk, York Place, St Andrew's Square, The Mound and Haymarket. For Leith Walk, works are now nearing completion with many of the final water and gas tie-ins now being scheduled. SGN connections will commence in Leith Walk during April. Cumulative progress to date is shown in the table below.

	Rev 7.9	Revised	Plan to	Completed	%
	total (m)	total (m)	date (m)	to date (m)	completed
On-street	40,625	38,324	38,324	24,988	65.2%
Off-street	11,969	8,410	8,410	7,789	92.6%
Total	52,594	46,734	46,734	32,777	70.1%

The following is of note:

- The A8 sewer turn of flows was achieved on 26th March and demobilisation is expected by the end of April;
- Physical work on the diversion of the high pressure gas main in the Mound is well underway;
- De-scoping is underway at Broughton Street (Section 1c) to simplify the diversions required following the results of trial holes in January;
- The 800mm watermain at Gogar has been completed and the Infraco contractor now has significant access to the depot. Earthworks will commence in Period 1;
- Utility diversions were completed by BAA in one section at the airport;
- BT cabling works are underway and SGN connections start on 13th April;
- 3.1% against a target of 2.7% of the plan was delivered in the period;
- Incomplete utility diversions are now impacting on construction works at Haymarket and Leith Walk. This is being addressed by integration and reviewing traffic management options to gain greater productivity; and
- Additional delivery options are being considered for diversions in the Forth Ports estate and at Edinburgh Airport to further accelerate completion of the utility works.

Progress - Infraco (including Tramco)

Work started on Princes Street on 23rd March following the contractual issues which delayed the works following the diversions being implemented in February. There is a focus via the PMP to deal with the top priority issues affecting progress including the depot and key structures. This has successfully led to agreement on works commencing at the depot in

Period 1 and will continue to ensure no further barriers emerge and some of the lost time is recovered.

Disappointingly, progress has continued to be slow at other locations where work is ongoing including Edinburgh Park (bridge beams being installed from 8th April) and Carrick Knowe. Additionally, tram construction work has been deferred on Leith Walk until utility diversions have been completed. This is expected to recommence in late summer. Alternative access arrangements are being considered to recover some of the time lost. The sub-contractor has been redeployed to construct the Verity House access road. Construction at Gogarburn has progressed well and bridge beams are being delivered on 5th May.

BSC have still not entered into formal contracts with any of their sub-contractors.

Good progress is being made with delivery of Tramco deliverables against the schedule with the modules for the first trams currently 2 months ahead of schedule.





View of Edinburgh Tram assembled bodyshell in CAF factory, Spain 01.04.09

Work has progressed with traffic management planning and for the tram construction works at Haymarket which are due to commence in June.

Progress - Other

- Draft schedules for the TROs have been prepared and formal consultation will commence in May / June;
- Haymarket carpark compensation tie have agreed compensation with NR and will settle this before the end of the current financial year. tie continue to discuss with TS the additional compensation payable to First Scotrail, as a result of the extension of the FSR franchise from Nov 2011 to Nov 2014, as it is believed to be a TS cost;
- Building fixings deemed consent has been obtained from 306 owners as well as 66 consents with the owners' agreement. There are nine fixings where matters remain unresolved and negotiations remain ongoing. However, there remains a possibility that these relevant owners may have to be referred to the Sheriff for resolution. CEC are leading the legal process, supported by the project team;
- Frontline are progressing well with the alterations to the road adjacent to the guided busway and the TRO will be in place during April; and
- Procurement is complete for the removal and relocation of a number of monuments in Edinburgh, the most significant of which is the Hearts War Memorial at Haymarket which is expected to be removed in Period 2.

Cost

Actual COWD for 2008/09 is £101.0m, in-line with the Period 12 forecast.

A full reforecast of the cost profile has been produced which links the re-baselined programme (opening 23rd Feb 2012) to Infraco constructions milestones – the resultant forecast spend on Phase 1a in 2009/10 is £150.4m In addition, we assume we will incur costs of £3.2m in 2009/10 as a result of the postponement of Phase 1b construction.

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The AFC for Phase 1a reflects an as yet <u>unapproved</u> increase of £15m to the project risk allowance and total Phase 1a cost of £527m. The <u>approved</u> cost estimate remains at £512m. Allowing for Phase 1b postponement costs of £6.2m there is £11.7m of funding "headroom" within the £545m total funding available.

tie and CEC are in the process of deploying a work plan to target key risk areas and bottom-out issues in order to improve confidence and bring greater certainty to the allocation of risk. This work plan is to be implemented in parallel with on-going engagement with Infraco on all programme and commercial issues. This will be updated in the Period 1 report.

During the period £1.2m was drawn down from the risk allowance. This has been approved at the Change Panel in line with the project delegated authorities.

Potential changes

The following potential changes have been identified. These will impact cost, programme or risk and are outwith the £522-540m range given to TS on the 26th March:

- Gogar interchange impact of changes to facilitate the provision of the Gogar interchange station (to be funded by TS); and
- Picardy Place CEC change funded via developer under consideration.

The impact of such items, including the identification of ranges of risk and opportunity, is subject to review with the Tram Project Board.

Risk

A total of seven separate risk reviews were held during the period. The QRA was reduced in the period following the drawdown of \pounds 1.2m from risk. The total unutilised risk allowance included in the approved budget of \pounds 512m is now \pounds 23.2m.

Included in the top primary risks are:

- Failure of Infraco to commence work in line with programme;
- Delay to IFC drawings beyond V31;
- Tramway runs through area of previously unidentified contamination / unforeseen ground conditions;
- Safety incident during construction;
- · Amendments to design scope from current baseline and functional specification; and
- Unknown or abandoned assets impacts scope of Infraco work.

In addition, the potential risks identified in regard to programme slippage are being reviewed and will form part of the updated QRA.

There are 47 risks in the risk register. There were no new risks identified in the period and one was closed ('Costs associated with obtaining wayleaves', was closed as there are no more wayleaves required). Treatment plans are in place for each risk and are being monitored.

Communications / Customer Service

In response to the Princes Street contract resolution on 20 March, the joint **tie** CEC team organised notifications to be sent to all MSPs, MPs, Councillors, local business and residents. Media activity has included news release distributed on Princes Street contract resolution, photo-shoot with Jenny Dawe on Princes Street works commencing and enquiries on project status.

The production and distribution of notifications continue on a regular basis. The tram website recorded 17,277 total visits in March 2009, which is up by 449 compared to February. The

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design and delivery of Princes Street banners and tram mock-up support has been ongoing throughout this period. The volume of correspondence decreased in the period and continues the downward trend. 537 enquiries were received and 34 notifications of works were distributed. Information request remain the main reason for contact with the public. Customer service levels are generally in line with the targets set.

The team will be working closely with the Health and Safety team to produce a Health and Safety video. This will be used for contractor safety briefings and will reiterate **tie**'s commitment to Health and Safety. The Schools Programme will be focusing on the production of a new fact sheet and the preparation for tram bus visits in May. Filming for the new tram video will be taking place at the mock-up from 15-17 April.



2 Progress

2.1 Overall

Overall progress remains behind both the current three month look-ahead and the master programme, primarily due to:

- Finalisation of the agreement of change delaying the commencement of work. This is now being addressed through dispute resolution;
- Incomplete utility diversions caused in part by traffic management constraints (e.g. Manor Place);
- Slow mobilisation of Infraco;
- Failure of Infraco to submit preparatory paperwork in a timely manner;
- Requirement for re-design of temporary works;
- Design slippage since novation of design to Infraco (now recorded in v43 of the design programme);
- Design changes as a result of the Prior and Technical Approvals process; and
- Consortium integrated design programme and validation.

Work started on Princes Street on 23rd March following the contractual issues which delayed the works following the diversions being implemented in February. There is a focus via the PMP to deal with the top priority issues affecting progress including the depot and key structures. This has successfully led to agreement on works commencing at the depot in Period 1 and will continue to ensure no further barriers emerge and some of the lost time is recovered.

The time impact (38 days) of the v26 / v31 design programmes at the time of Financial Close was agreed in Period 8 (2008/09) and the commercial consequence of this continues to be discussed.

As per the summary provided to TS on 26th March and in advance of developing agreement with BSC, **tie** has developed a recalibrated baseline programme which reflects an Open for Revenue Service date of 23 Feb 2012. The table below also reflects a completely unmitigated programme <u>as a control scenario only</u>. This is an <u>unapproved</u> delay to the Open for Revenue Service date. The unmitigated live programme predicts and Open for Revenue Service date in June 2012.

Although the recalibration exercise has been ongoing for some weeks, progress with engaging with Infraco on this matter has been hampered until now as a result of the other disputes. **tie** have a firm expectation of fully constructive engagement by the consortium following the signing of the SA for Princes Street and the establishment of the PMP to resolve outstanding issues and ensure progress is made on critical construction activities.

On a section by section basis there are "swings and roundabouts" identified in terms of improvement / degradation of delivery dates. Integration of these sections by BSC is now underway and the re-baselined programme assumes the all logic changes will be accepted by BSC.

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Section 1C	McDonald Road to Princes Street west	28-MAR-12	06-SEP-11
Section 1D	Princes Street west to Haymarket	19-OCT-11	17-MAR-11
Section 2A	Haymarket to Roseburn junction	14-FEB-11	28-JUL-10
Section 5A	Roseburn Junction to Balgreen Road	20-MAR-12	17-JUN-11
Section 5B	Balgreen Road to Edinburgh Park central	23-JUN-11	04-FEB-11
Section 5C	Edinburgh Park Central to Gogarburn	24-OCT-11	20-JAN-11
Section 6A	Gogar depot	28-MAR-11	15-OCT-10

Section 7A	Gogarburn to Ingliston Park and Ride	07-JUL-11	11-MAR-11
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Section D	Open for Revenue Service	17-OCT-12	23-FEB-12

Importantly, the re-baseline programme does not take account of any opportunities regarding:

- 1. Improved Productivity rates Princes Street will be an important test in this regard;
- 2. Embargo relaxations;
- 3. Alternative construction methodologies to recover time;
- 4. Adjustments to the testing and commissioning phase (the original programme window has been held); or
- 5. Partial opening options.

The recalibration of the programme is one of the key priorities for the PMP in Period 1.

2.2 Design

IFC Design

The design is progressing as follows:

- IFCs Phase 1a 74 issued out of 93 (Edinburgh Park station Bridge Redesign included in v42);
- Prior Approvals are progressing well with 91% granted, three left to be submitted (including the RBS Gogarburn tramstop) and five left to be granted;
- Technical approvals also progress well with 84% granted, ten remaining to be submitted and 13 left to be granted;
- Structures approvals are progressing well one structure from v31 remains to be approved (Balgreen Road NR access bridge);
- Roads and drainage approvals remain difficult although positive progress has been made to resolve CEC detailed comments with three areas outstanding for Technical Approval in Phase 1a (1A3, 1C2 and 6 Roads);
- Scottish Water are now making good progress with drainage outfall consents with two of the four on-street sections informally approved. Two consents are still to be submitted by SDS. All other consents expected to be granted by SW in Period 1 2009/10; and
- The Section 1B close report was signed off by CEC on 24/03/09. Section 1C3 and 1D close reports are now with CEC to conclude. Other sections (excluding Section 7) are dependent on SW approval.

The quantum of designs which are required to go through a re-design process as a result of either the approvals process or value engineering is captured in the programme analysis and the integrated design programme is expected from BSC.

Phase 1a only	Number	required	Nui	mber
	v31	v42	Submitted	Granted
Prior Approvals	49	54	51 (94%)	49 (91%)
Technical Approvals	71 80		70 (88%)	67 (84%)

Reasons for design slippage are being reviewed and recorded each week at the design taskforce meeting which is focused on resolving outstanding design issues. This slippage will be addressed as part of the re-calibration of the programme. **tie** are identifying and implementing opportunities to mitigate the impacts of this slippage.

Although there is evidence of better management of SDS by BSC, this has not yet resulted in improved design performance.

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2.3 Utility works (MUDFA)

Period 13 has seen MUDFA progress as follows

Rev.07.09 Figures	Period		Delta	Cumulative		Delta
MUDFA PERIOD 12 PROGRESS	Plan	Actual		Plan	Actual	
Section 1a Newhaven to Foot of the Walk	5.9%	0.1%	-5.8%	100.0%	39.2%	-60.8%
Section 1b Foot of the Walk to McDonald Road	0.7%	1.1%	0.4%	100.0%	99.7%	-0.3%
Section 1c McDonald Road to Princes Street west	2.3%	9.1%	6.8%	100.0%	59.9%	-40.1%
Section 1d Princes Street west to Haymarket	0.0%	4.4%	4.4%	100.0%	76.4%	-23.6%
Combined Sections 1A-1B-1C-1D (On-street) Newhaven Road to Haymarket	2.7%	3.4%	0.6%	100.0%	65.2%	-34.8%
Section 2 Haymarket to Roseburn Junction	0.0%	15.2%	15.2%	100.0%	93.9%	-6.1%
Section 5a Roseburn Junction to Balgreen Road	0.0%	0.0%	0.0%	100.0%	100.0%	0.0%
Section 5b Balgreen Road to Edinburgh Park Central	0.0%	0.0%	0.0%	100.0%	100.0%	0.0%
Section 5c Edinburgh Park Central to Gogarburn	0.0%	0.0%	0.0%	100.0%	100.0%	0.0%
Section 6 Gogar depot	0.0%	0.0%	0.0%	100.0%	100.0%	0.0%
Section 7 Gogarburn to Edinburgh Airport	22.3%	2.4%	-19.9%	100.0%	45.9%	-54.1%
Combined Sections 2A-5A-5B-5C-6A-7A (Off-street) Haymarket to Edinburgh Airport	2.7%	2.1%	-0.6%	100.0%	92.6%	-7.4%
FULL ROUTE PHASE 1A NEWHAVEN ROAD TO EDINBURGH AIRPORT	2.7%	3.1%	0.4%	100.0%	70.1%	-29.9%

Section	Commentary
Section 1a Newhaven to Foot of the Walk	Work between Newhaven – Ocean Terminal expected to commence in May. Baltic Street Junction redesign ongoing to deal with difficult traffic management constraints. Constitution Street interface with both archaeological works and potential transfer of side entry manholes scope to Infraco - includes seven side entry manholes from Queen Charlotte Street to Duke Street.
Section 1b Foot of the Walk to McDonald Road	Leith Walk – moving significantly towards completion from FOTW to Macdonald Road. This allows SGN and BT works to commence with connections and cabling. Phase 3 of London road works due to commence on 6 th April.
Section 1c McDonald Road to Princes Street west	Work is progressing well at The Mound (although there is a two weeks delay to recover). There is also significant progress in St. Andrews Square and York Place.
Section 1d Princes Street West to Haymarket	Lothian Rd / South Charlotte Street water connections being planned within the existing traffic management for Princes Street. Haymarket junction works are ongoing with Manor Place and Dalry Road re-opened in the period. Grosvenor Street was not closed at the start of the period as planned due to a gas leak.
Section 2 Haymarket to Roseburn Junction	Haymarket Yards (lower) complete by 20 th March. Haymarket Yards (upper) including Haymarket Terrace sewer crossing by 8 th May.
Section 5a Roseburn Junction to Balgreen Road	MUDFA diversions completeUtilities transferred to Infraco remain in Scotrail depot
Section 5b Balgreen Road to Edinburgh Park Central	BT cabling is expected to be completed in Period 1.
Section 5c Edinburgh Park Central to Gogarburn	Utility snagging complete. BT re-cabling commencing 23 rd March.
Section 6 Gogar depot	Complete
Section 7a Gogarburn to Edinburgh Airport	Keir have completed and tested all utility diversion associated with the BAA walkway project. Delivery of the remainder of scope is being addressed with BAA.

2.4 Tramworks (Infraco)

The project continues to experience problems with slow progress and, in particular, appointment of direct BSC resource and final appointment of the main package contractors. All BSC sub-contractors continue to operate with Limited Letters of Intent whilst awaiting conclusion of the full sub-contracts.

Haymarket viaduct and the Carrick Knowe bridge constructions have been on hold due to BSC's sub contractor issues. However, work has continued on a number of worksites including Princess Street, Edinburgh Park Bridge, A8 underpass, the Gogarburn Bridge, Gogar culvert 2, culvert 3 and the new access road at Verity House.

Progress against Contract Programme

Summary milestones against the agreed Infraco contract and the short term programme milestones are shown in the table below (number of milestones).

	Period 13		Cumulative (short term)			Cumulative (contract programme)			
	Planned	Achieved	%	Planned	Achieved	%	Planned	Achieved	%
Prelims	3	3	100%	36	36	100%	36	36	100%
Construction	15	6	40%	39	30	77%	360	30	8%
Total	18	9	50%	75	66	88%	396	66	17%

Progress is now being monitored against the Revision 1 programme which incorporates the agreed 38 business days (seven weeks plus three days) EOT variation to the contract programme as in the table below. As had been the case in the contract programme progress, the common denominator in the Revision 1 programme remains that every activity in the programmes has a work content generated against it which translates into a weighting, allowing accurate reporting of progress.

	Per	iod	Delta	Cumu	lative	Delta
INFRACO PERIOD 13 PROGRESS (Contract Programme)	Plan	Actual		Plan	Actual	
Section 1a Newhaven to Foot of the Walk	2.6%	0.0%	-2.6%	10.7%	0.0%	-10.7%
Section 1b Foot of the Walk to McDonald Road	5.2%	0.0%	-5.2%	29.5%	1.4%	-28.1%
Section 1c McDonald Road to Princes Street west	2.1%	0.0%	-2.1%	5.9%	0.0%	-5.9%
Section 1d Princes Street west to Haymarket*	13.0%	0.0%	-13.0%	27.2%	0.6%	-26.6%
Combined Sections 1A-1B-1C-1D (On-Street) Newhaven Road to Haymarket	5.2%	0.0%	-5.2%	16.1%	0.4%	-15.7%
Section 2 Haymarket to Roseburn Junction	3.1%	0.0%	-3.1%	64.2%	12.6%	-51.6%
Section 5a Roseburn Junction to Balgreen Road*	4.0%	0.0%	-4.0%	44.0%	2.9%	-41.1%
Section 5b Balgreen Road to Edinburgh Park Central	8.2%	1.2%	-7.0%	72.6%	5.0%	-67.6%
Section 5c Edinburgh Park Central to Gogarburn	2.6%	0.0%	-2.6%	45.1%	1.6%	-43.5%
Section 6 Gogar Depot	6.6%	0.0%	-6.6%	62.6%	0.0%	-62.6%
Section 7a Gogarburn to Edinburgh Airport	1.4%	0.2%	-1.2%	42.3%	2.5%	-39.8%
Combined Sections 2A-5A-5B-5C-6A-7A (Off-Street) Haymarket to Edinburgh Airport	5.3%	0.3%	-5.0%	57.5%	3.4%	-54.1%
FULL ROUTE PHASE 1A NEWHAVEN ROAD TO EDINBURGH AIRPORT	5.2%	0.2%	-5.0%	41.2%	2.2%	-39.0%

* Enabling works and works as part of a change, and therefore not included in the contract programme, were completed

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Section	INFRACO Commentary
Section 1a Newhaven to Foot of the Walk	BSC have reinstated the sites on Leith Walk and work has been deferred until the completion of utility diversions. Section 1A4 Lindsay Road under review. Design awaited to allow Utility diversions to be completed for W1 Lindsay Road retaining wall.
Section 1b Foot of the Walk to McDonald Road	Roadworks due to commence post Leith embargo delayed awaiting MUDFA completion. Revised traffic management being investigated.
Section 1c McDonald Road to Princes Street West	Roadworks due to commence post Leith embargo delayed awaiting MUDFA completion. Revised traffic management being investigated. Princes Street works re-started 23 ¹⁴ March 09. Surface planning work has now commenced with blacktop removal. Due to the presence of the steel and the other obstructions the contractor is now using alternative methods to complete the construction.
Section 1d Princes Street West to Haymarket	Princes Street works re-started 23 rd March 09. Surface planning work has now commenced with blacktop removal. Due to the presence of the steel and the other obstructions the contractor is now using alternative methods to complete the construction. Tram Works in Haymarket are dependent on MUDFA completion expected late June 09.
Section 2 Haymarket to Roseburn Junction	Haymarket viaduct temporary works design resolved although contractor has not yet mobilised following the Christmas break. Verity House access road has commenced. All required consents in place for track installation. Commercial issues holding-up commencement of works. Drainage and ductworks completed. Tree felling and site clearances have been completed during this period to avoid the bird nesting period.
Section 5a Roseburn Junction to Balgreen Road	Temporary and permanent works re-design delaying various structures. All required consents in place for track installation.
Section 5b Balgreen Road to Edinburgh Park Central	Construction of the Carrick Knowe bridge is on hold due to subcontractor and commercial issues. No package contractor has been procured for this bridge. The north and south abutment wall concrete has been poured for the Edinburgh Park Station bridge.
Section 5c Edinburgh Park Central to Gogarburn	A8 underpass recommenced during Period 13 but has since stopped due to discovery of obstructions.
Section 6 Gogar depot	Earthworks due to commence Period 1.
Section 7a Gogarburn to Edinburgh Airport	Gogarburn underbridge east abutment continues. Casting of culverts underway

2.5 Tram construction (Tramco)

Good progress continues to be made with the progress of deliverables against the schedule. The production line has commenced during Q1 2009 with the delivery of the first tram still on schedule for April 2010.

The CAF contract programme is incorporated in the Master Tram Project Programme and the Period 13 update confirmed the following milestone dates:

- Mock-up finished Delivered •
- 1st Tram delivery 09-Apr-10 5th Tram delivery 10-May-10 •
- 27th Tram delivery 17-Jan-11 •

The fabrication programme maintains approximately two months ahead of schedule.

2.6 Testing and commissioning

The process for acceptance of the Edinburgh Tram Project is designed to ensure that it is delivered in an acceptably safe, compliant and efficient manner. The objectives of the process are to ensure that the system performance, integrity, reliability, availability and safety are

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rigorously tested and that throughout all stages of the delivery process the many sub-systems and the overall system are validated and verified against the requirements and applicable standards. The detailed sequence and scope of testing and commissioning prior to systems Acceptance testing is to be programmed out and proposed by BSC in further detail in the next year.

To achieve these objectives there is a layered approach to the overall testing and commissioning as laid out in the table below.

What	Who	Status
Design assurance	BSC (SDS) / tie	Underway.
Quality	Infraco	Ten of the 37 inspection and test plans have been submitted. A workshop will be held with BSC for each, to allow tie comments to be incorporated prior to formal issue.
Systems Safety	Infraco / Independent Competent Person(ICP) / TEL / Transdev	Started - Safety verification plan in place and process of verification already underway. The ICP has been appointed and has started his verification process.
Performance*	Infraco / Transdev / TEL	Requirements set out in the employer's requirements and will be tested following completion of each section of the network.

BSC have produced Inspection and Test Plans (ITP's) for the current set of construction works, however they have not yet produced a consolidated Test and Commissioning Plan. Constituent elements are available from CAF, the tram manufacturer, the Operator and an overall framework from TEL exists to cover the activities.

It is intended over the next 3 periods to obtain collective engagement on testing and commissioning, and agreement to the formation of a multi-organisation, multi-disciplinary test coordination team.

Testing undertaken and witnessed in the period has included the A8 piles at Gogar and the first tram set of body shells, (weld quality, dimensional tolerances and water tightness).

*Pre-system acceptance testing includes both Factory Acceptance Tests(FATs), site Acceptance Tests (SATs), Sub-system integration tests (SITs) and System commissioning Tests(SCTs). Once a section of the network is physically completed and the SITs are satisfactorily completed then the formal acceptance process requires BSC to carry out and pass a series of systems Acceptance Tests in order to achieve Sectional Completion. These are shown in the table below.

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Test	Test Nan	Test Descriptio	rogramme
T1	Post Commissioning Test	To demonstrate that each Section of the ETN in sequence is able to perform in an acceptably safe manner and deliver the required run times. This is the gateway test to driver training.	Post Commissioning Test immediately follows successful commissioning of each section and is required for progressing to Driver Training.
Τ2	Performance Test 1	After Phase 1a is complete and has passed Test T1, this test demonstrates that Phase 1a is able to perform satisfactorily before starting the three-month Shadow Running period. This is the gateway test to shadow running.	Performance Test 1 will immediately precede the Shadow Running period and is a requirement for progressing to this phase of the programme.
Т3	Pre-operations Test	The test covers a seven day period during the latter part of the Shadow Running phase of the programme using the initial 6/12 tph service timetable.	Pre-operations Test shall immediately precede the Service Commencement Date.
T4	Network Performance Test	The Test is carried out over a 28 day period in Passenger Service to establish that the ETN can reliably operate.	To be completed within twelve months of the Service Commencement Date.
T5	Network Reliability Test	Reliability Testing of key sub- systems in Passenger Service.	To be completed within twelve months of the Service Commencement Date.

This whole process can be described by the following flowchart.

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Stage	io Chair	Tests	Description
8	Passenger Service	Network Performance (T4) and Reliability Test (T5)	The date upon which the Edinburgh Tram Network starts in public service
			PASSENGER SERVICE COMMENCEMENT
7	Shadow Running	Pre-Operations Test (T3)	The period of Tram operations that simulates full public service operation including running to published timetable and calling / dwelling at Tramstops before the ETN enters public service
	Î	Performance Test 1 (T2)	ENERGISATION OF COMPLETED PHASE OF THE ETN
6	Test Running & Driver Familiarisation		The period post-ETN commissioning used to complete driver and control room staff training and gain confidence to enter Shadow Running Phase
		Post-Commissioning Test (T1)	
5	Commissioning	System Integration Test	All subsystems, including the tram, are fully-integrated to form the ETN and are tested to demonstrate that they work together successfully and meet the Employer's Requirements
			ENERGISATION OF SECTION OF THE ETN
4	Set to Work Tests	Site Tests	The point at which subsystems have been installed and then tested to prove they meet their requirements with both Type tests and Site Acceptance tests
-	1		LIMITED ENERGISATION OF PART OF THE ETN
3	Instaliation / Construction		Once the subsystem has successfully passed Factory Acceptance Tests installation / construction at site will take place and as appropriate a delivery test undertaken.
2	Factory Acceptance Tests	FAT	Thorough demonstrable testing of the subsystem at Infraco's premises
-	1		
1	Build / Manufacture		Manufacture and assembly of the System by the Infrace
D	Design		The scope of the works designed through Approval in Principle and Approved for Construction & Manufacturing Drawings; with associated verification and validation test and integration plans complete

A liaison meeting is arranged with HMRI and the ICP in Period 1 09/10.

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2.7 Interface with other projects

The following table identifies the other projects ongoing within the city which may impact on the Tram project. This is reviewed on an ongoing basis both internally and in conjunction with TS to identify conflicts and mitigations. The most significant interface of concern are the Gogar interchange. **tie** has requested an estimate of cost and programme for the design of the tram works and this is due from BSC by the end of the 1st week in April 2009. Following meetings with CEC and TS, this would allow a complete instruction to be given by the end of April. This period the St James centre re-development has moved from red to amber as commencement of this project is now indicated towards the completion of the Tramworks and therefore interfaces should diminish.

External	Promoter	Project Description	Potential Conflict	Tram cor	ntract	Project o	lates	
Project			and the second	Start	Finish	Start	Finish	Comments
Gogar Surface Station	Transport Scotland	New mainline station to the east of the Gogar depot.	 Chemiser as set the expected to include 4 Periods and consolination 3 Tram alignment issues 4 Traffic management clashes 5 Potential site access issues. 	Aug-08	Nov-10	Oct-09	Mar-11	All works with the exception of track installation between Gyle Centre and the depot stop and E&M Installations will be complete by July 2010. tie and TS have developed an integrated programme which is updated and reviewed periodically.
St. James Centre re- development	CEC / Henderson Global	Redevelopment of existing shopping centre.	Interface with Picardy Place junction re- construction and Cathedral Lane sub-station.	Nov-10	Oct-11	2011	2016	Downgraded from red to amber as commencement of this project is now indicated towards the completion of Tramworks and therefore interfaces should diminish.
Haymarket Interchange		Haymarket Accessibility Project (planned for 2009- 10).	Utility diversions continue until June.2009 Potential Interface with Infraco works at Haymarket junction commencing July.2009	May-09	Apr-10	ТВА	ТВА	Possible interface between installation of lifts for this project and construction works for viaduct, tramstop and OHL. Will become clearer as programme detail develops.
St. Andrew Square development	CEC	Demolition of existing buildings bordering South Side St. Andrew Square, South St David Street and Meuse Lane.	Infraco programme.	Nov-09	Mar-10	Apr-09	Sep-09	Utility Diversions in South and mid St Andrew Square will be complete mid April. Main demolition to commence late April following Traffic Management changeover. Telecoms works will continue on the east side. Infraco TM being managed. Project being reviewed periodically.
Princes Street Hotel	Deramore Property Group	Redevelopment of existing buildings at 121 - 123 Princes Street to 80,000 square feet 3 floor of retail and 100 bedroom hotel.	Direct clash with Infraco programmed works in Princes Street during the traffic diversions.	Mar-09	Nov-09	Early 2009	Jun-11	Currently in planning stage. CEC is managing the developer within the tram constraints. Contractors programme being sought.
Princes Street Hotel	asediqbal consulting	Site clearance and redevelopment at 125a Princes Street on all 3 floors to convert to an EasyHotel	Access through BSC worksite. Internal strip- down ongoing and access required for debris removal.	Feb-09	Nov-09	тва	тва	Requirement to access BSC worksite to allow removal of debris.

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External	Promoter	Project Description	Potential Conflict	Tram cor	ntract	Project dates		
Project			and the second se	Start	Finish	Start	Finish	Comments
Waverley Steps	Transport Scotland	Refurbishment of existing Waverley Steps with inclusion of new escalators and elevators.	Reviewed with both TS and Waverley Steps project team. Potential TM conflict being managed.	Nov-09	Mar-10	Oct-09	Mar-11	Although the main construction works will be complete by end Mar-10 this area will be re- visited in Q4 2010 for OHL installation. Potential impact on tram TM
Airdrie - Bathgate	Transport Scotland	New track installation.	Tram possessions mainly "piggy-backed" on A2B possessions which could be altered / cancelled.			Mar-09	Mar-10	Various possessions and RotR workings.
RBS tramstop - Gogarburn	RBS	Design by RBS - Build by Infraco.	Design and consents not in place in a timely manner to allow Infraco to build to programme.	Jun-10	Sep-10	ТВА	ТВА	Design and approvals progressing to programme.
National Portrait Gallery		Major building construction and refurbishment.	Interface with both Utilities and Infraco works on St Andrew Street / York Place.	Now	Jul-11	Apr-09	Nov-11	Timetable of Gallery movements received. Meetings held with developer.
Pollution Prevention works	Network Rail / Scotrail	Re-location of existing diesel tanks at Haymarket Sprinter Depot.	Interface with S21A Roseburn Street viaduct and associated track.	Jan-10	Oct-10	Apr-08	Apr-09	Diesel tanks demolished & site clear-up underway. VE design on Roseburn viaduct will see this structure re-programmed.
New Hotel in Haymarket	Tiger Developments	New build hotel.	Utility diversions and potential interface with Infraco works.	Jan-09	Apr-10	Nov-08	2012	Risk has diminished. Manageable conflict.
Haymarket Station re- furbishment	Network Rail / Scotrail	Main Building refurbishment works.	Any external works could conflict with TM for either or both MUDFA and Infraco and could conflict with Infraco construction works. Bridge to be installed from Haymarket terrace to Platform 0 to comply with DDA which will interface with viaduct / tramstop.	Now	Apr-10	Oct-09 (TBC)	тва	NR / Edinburgh Tram Project Delivery Group Meeting 09 Buchanan House, Edinburgh 11 February 2009 noted that the £30M scheme for Haymarket station has been shelved No conflict.
Waverley Station re- roofing	Transport Scotland	New roof and general upgrade to station interior.	May be Traffic Management issues.	Feb-09	Nov-09	Apr-10	Apr-14	Although the main construction works will be complete by end Nov-09 this area will be re- visited in Q4 2010 for OHL installation.
Haymarket Terrace	DTZ Surveyors	Common Repairs to buildings at 2-4-6-8-68 and 74 Haymarket Terrace.	Scaffolding and external repairs.	Now	Apr-10	ASAP	ASAP	CEC will not issue scaffold permits until all tram TM is removed.
Baxter Place Development	Fitzpatrick Hotel Group	Conversion of existing building adjacent Greenside Lane and with	Proposal to divert existing utilities through basement of building. Also potential TM interface issues with	Now	Jul-11	ТВА	2010	No conflict.

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Colour code

Green	No conflict anticipated but being monitored	
Amber	Managing any conflict	
float	Conflict which causes programme concern / unknown effect on tram programme	

Picardy Place construction.

frontage onto Leith Street.

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This has been sent to TS for their input for projects they are sponsoring and will continue to be reviewed by **tie** to identify any potential impacts on the Tram programme as early as possible in order to manage them. A review of the TS projects was carried out late February 2009 with TS and a further session will be arranged for Period 1 09/10.

2.8 Other

Temporary traffic regulation orders (TTROs)

• Weekly visual summary being produced of all tram TM throughout city.

Traffic regulation orders (TROs)

 A TRO programme is in place to ensure that the required TROs for the project are in place by November 2010. The informal consultation process for this is underway and comments are being recycled into any required small design changes.

Network Rail

- Infraco has now delivered its EMC Management Plan and EMC Strategy for NR infrastructure assets and established the scope for the immunisation works. A programme for these works is being developed with Infraco;
- Following a successful trial for measurement of stray traction current between Nottingham Express Transit and NR, Infraco are currently considering three possible immunisation solutions:
 - 1. No additional measures required for ETN and no modification of NR infrastructure;
 - 2. Additional insulation measures on ETN and no modification of NR infrastructure; and
 - 3. No additional measures required for ETN and modify NR infrastructure with FETR. A decision has been made to progress with option 1 and develop to Approval in Principle the design for option 3 as a contingency;
- Infraco will be developing the full assurance case for NR acceptance. Preliminary assurance case to enable traction power testing and commissioning will be completed by August 2009. Further assurance will be provided up to, and including, bringing into service;
- The pollution prevention project at Haymarket depot is reported to be significantly overrunning and not due to be completed until April 2009. A local agreement with First ScotRail has been reached to accommodate any potential overlap between completion of the pollution prevention activities and commencement of the Infraco works; and
- The contractor is preparing the possession plan according to the look-ahead programme.

Third party interfaces

- NR the Bridge Agreements are not yet concluded. There is an outstanding issue on indemnities to close out. An Operating Agreement with NR is expected to be agreed in Q2 2009;
- Forth Ports SDS have delivered agreement plans and tie / CEC will finalise the commercial arrangements with Forth Ports to conclude the agreement. It is currently anticipated that this will happen by mid April 2009;
- Haymarket carpark compensation tie have agreed compensation with NR and will settle this before the end of the current financial year. tie continue to discuss with TS the additional compensation payable to First ScotRail, as a result of the extension of the FSR franchise from Nov 2011 to Nov 2014, as it is believed to be a TS cost;
- Building fixings deemed consent has been obtained from 306 owners as well as 66 consents with the owners' agreement. There are nine fixings where matters remain unresolved and CEC have committed to pursue these through Sheriff Court action. Dates for hearings are to be established. The building fixing construction programme will commence in Spring 2010; and
- Interfaces are being managed to ensure that the SRU accommodation works and events are cohesive. tie are pursuing an alternative approach to the design and construction of the works due to lack of co-operation with BSC.

Fast link modifications (Front Line)

- Front Line has completed all the civil works apart from the drainage connection with the remaining signage erected to coincide with the new traffic regulation order;
- The TRO process is due to be complete by end of April 09. Two objections may result in this slipping by two weeks;
- New lay-by (95% completed) SW issue resolved;
- Signage (95% completed) 100% completion by mid April 09;
- Street lighting(100% completed); and
- Move bus stops (95% completed) full completion by mid April.

Murrayfield Pitches (Souters)

- Maintenance works ongoing every Monday; and
- Final accounts agreed in principle subject to final measurements.

Ancient Monuments (Land Engineering)

Hearts War Memorial

- CEC advised that proposed start date for works is w/c 03 May 2009 to tie-in with the Utilities TM;
- Progress meeting with CEC / Land Engineering held 26/03/09. Updated Method Statement to be formally submitted to CEC w/c 30/03/09;
- LE to get confirmation from Scottish Power regarding disconnection and isolation of the power supply to the Hearts Memorial clock w/c 30/03/09;
- CEC to issue notices to key stakeholders w/c 30/03/09 notifying commencement of works w/c 03/05/09. tie to draft similar notice to local stakeholders.

Robert Burns Monument

- CEC advised 26/03/09 that the monument needs to be moved as part of the junction remodelling exercise and also due to the trams; and
- MUDFA are looking for the monument to be removed before they start work in the junction on 12 June 2009. Land Engineering confirmed that they can facilitate this timescale.

BAA - Burnside road (BAA)

- BAA have advised that Scheme design information will be made available on 24th April;
- tie have requested that BAA review the exit arrangements for the contract taxis and hold a build-ability review, this may impact upon the date of 24th April;
- · BAA are also working up decant proposals, these are still at feasibility stage; and
- Final procurement and delivery strategy of this work is to be settled and agreed with BAA during April 2009.

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3 Headline cost report

3.1 Current financial year

	FY 08/09 COWD Period		FY 08/09 COWD Year To Date		FY 08/09 COWD Full Year Forecast			COWD To Date	Costs To Go	Total AFC		
	Actual	Budget	Variance	Actual	Budget	Variance	Forecast	Budget	Variance	Actual	Forecast	Forecast
Total Project COWD	8.840	10.490	-1.649	100.979	150.851	-49.872	100.979	150.851	-49.872	231.019	295.998	527.017
Other Funding	0.730	10.490	-9.760	7.769	30.852	-23.083	7.769	30.852	-23.083	19.075	24.440	43.515
Demand on TS	8.110	0.000	8.110	93.210	120.000	-26.790	93.210	120.000	-26.790	211.945	271.558	483.502

- COWD in 2008/09 was £101.0m versus the original budget for the year of £150.9m. The key driver of the under spend is the well rehearsed delays to Infraco mobilisation and slow progress by the contractor; and
- During Period 12, a series of disputes with BSC centred on the works on Princes Street was characterised by works across the Infraco contract progressing at a slower rate than anticipated. A SA for Princes Street has now been signed, and the PMP has been established, made up from tie and consortium senior management team members, with the aim of resolving outstanding issues and progression on critical construction activities.

Actual P13 vs. forecast FY08/09

£m	Forecast 08/09	Actual FY08/09
Infrastructure and vehicles	46.1	45.3
Utilities diversions	33.3	33.4
Design	4.6	4.7
Land and compensation	1.3	1.7
Resources and insurance	15.7	15.9
Base costs	101.0	101.0
Risk allowance	0.0	0.0
Total Phase 1a	101.0	101.0

- Actual COWD for 2008/09 is £101.0m, in-line with the Period 12 forecast;
- The infrastructure and vehicles shortfall in COWD against forecast relates to lack of progress against the Infraco milestone schedule. This is offset by higher land and compensation works costs relating to BAA and additional resource costs incurred during Period 13 as a result of the commercial disputes with BSC and negotiation of the SA for works on Princes St;
- As previously reported and agreed with CEC and TS, initial milestones under the Infraco and Tramco contracts in the aggregate amount of £24.2m, in respect of advance material purchases, have been classified as prepayments and will be reclassified as expenditure against funding in the periods when the related materials are delivered to site and incorporated in the works. To date just £21k has been released against the Infraco prepayment as most of the release will occur on the achievement of trackwork and structures milestones in future years.

3.2 Next financial year

£m	Q1	Q2	Q3	Q4	Total FY09/10
Infrastructure and vehicles	14.7	21.9	24.1	60.1	120.8
Utilities diversions	0	0	0	0	0
Design	0.7	0.1	0	0	0.8
Land and compensation	1.3	0.1	0.1	0.1	1.6
Resources and insurance	3.4	2.9	2.8	3.6	12.7
Base costs	20.1	25.0	27.0	63.8	135.9
Risk allowance	2.1	2.7	2.9	6.8	14.5
Total Phase 1a	22.2	27.7	29.9	70.6	150.4

Profile for FY09/10 - Phase 1a only

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- As previously described, In advance of developing programme agreement with BSC, tie has developed a "re-baselined" programme which reflects an open for service date of 23rd February 2012. This has not been agreed with BSC. Following the SA on a way forward on Princes Street, tie now expect to engage fully with BSC via the PMP to ensure that progress is made on critical construction activities and a recalibrated contractual programme can be agreed as soon as possible;
- A full reforecast of the cost profile has been produced which links the re-baselined programme to Infraco constructions milestones. The realigned base costs and risk have then been linked against this programme; and
- The latest view for 2009/10 shows base cost of £135.9m and risk £14.5m, giving a total phase 1a cost of £150.4m. Q1 09/10 base forecast is £20.1m with risk £2.1m and total phase 1a Q1 cost £22.2. Activity is expected to ramp-up throughout 2009 with a forecast of £63.8m base (£70.6m including risk) forecast in Q4.

3.3 Total project anticipated forecast cost

£m	Cum	FY	FY	FY	FY	AFC
	FY07/08	08/09	09/10	10/11	11/12	
Infrastructure and vehicles	30.7	45.3	120.8	82.8	28.6	308.2
Utilities diversions	18.4	33.4		-	-	51.8
Design	21.4	4.7	0.8	-	-	26.9
Land and compensation	16.8	1.7	1.6	-	-	20.1
Resources and insurance	42.7	15.9	12.7	7.5	2.9	81.7
Base costs	130.0	101.0	135.9	90.3	31.5	488.7
Risk Allowance	-	-	14.5	20.8	3.1	38.4
Total Phase 1a	130.0	101.0	150.4	111.1	34.5	527.1
Phase 1b postponement	3.0	-	3.2	-	-	6.2
Total Phase 1a and Phase 1b	133.0	101.0	153.6	111.1	34.5	533.3

Phase Re-baselined Phase 1a AFC and profiling

- The table above reflects the base costs and risks aligned to the re-baselined programme and re-alignment of the Infraco milestones schedule. The AFC for Phase 1a above includes an <u>unapproved</u> increase of £15m to the project risk allowance. The <u>approved</u> cost estimate for delivery of Phase1a of the project remains at £512m;
- The latest forecast view (shown above) assumes that Phase 1b will be postponed and that £6.2m of costs relating to Phase 1b design and payable to BSC if Phase 1b does not progress under the Infraco contract will require to be covered by current funding. Coupled with the re-baselined forecast, there is £11.7m of funding headroom within the £545m total funding available; and
- tie and CEC are in the process of deploying a work plan to target key risk areas and bottom-out issues in order to improve confidence and bring greater certainty to the allocation of risk. This work plan is to be implemented in parallel with on-going engagement with Infraco on all programme and commercial issues. This will be updated in the Period 1 report.

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3.4 Change control

The current change control position is summarised in the table below:

BASE ESTIMATE	498.10	87.30	585.40
APPROVED CHANGES - to Financial Close	13.91	0.00	13.91
CONTROL BUDGET - Baseline	512.02	87.30	599.32
APPROVED CHANGES - post Financial Close	0.00	0.00	0.00
REVISED CONTROL BUDGET	512.02	87.30	599.32
ANTICIPATED CHANGES	0.00	0.00	0.00
CURRENT AFC	512.02	87.30	599.32
PREVIOUS AFC	512.02	87.30	599.32

- Base estimate The position at Final Business Case (Oct 2007);
- Approved changes to Financial Close The financial impact of the project control budget having been reset to reflect final Infraco and Tramco Contract Award levels and a consequential reappraisal of the risk allowance. This was approved at the Tram Project Board on 4th June 2008;
- Control budget baseline (New Project Control Budget) The baseline within which all future project change control will be reported against;
- Approved changes post Financial Close Tram Project Board approved changes from this point on. There are none to report with financial effect on the Control Budget at this point. The funding for the approved changes to date have been met from a drawdown of funds from the project risk allowance; and
- Anticipated changes The following potential changes have been identified. These will
 impact cost, programme or risk and are outwith the £522-540m range given to TS on
 the 26th March:
 - Gogar interchange impact of changes to facilitate the provision of the Gogar interchange station (to be funded by TS); and
 - o Picardy Place CEC change funded via developer under consideration.

The impact of such items, including the identification of ranges of risk and opportunity, is subject to review with the Tram Project Board. There have been additional specific briefings with CEC and TS.

Risks to this position are described in Section 5 below.

4 Time schedule report

4.1 Report against key milestones

In advance of developing agreement with BSC, tie has developed a <u>unapproved</u> recalibrated baseline programme which reflects an Open for Revenue Service date of 23 Feb 2012. A completely unmitigated programme <u>as a control scenario only has also been produced</u> which shows a date of 17 Oct 2012. However, the LIVE programme has been used to generate the milestone data below and this is based on all current information fed into the master programme and gives a mid-point between the recalibrated baseline and un-mitigated programme dates. This indicates an open for revenue service date of June 2012.

(The agreed baseline programme reference for this project is that at Financial Close leading to revenue service in July 2011.)

Milestones	Baseline programme date	Actual / current forecast date – unmitigated
Approval of DFBC by CEC	21 Dec 06A	21 Dec 06A
TRO process commences	14Dec07A	10-Dec-07A
MUDFA – commencement of utility diversions	02 Apr 07A	02 Apr 07A
Approval of FBC by TS – approval and funding for Infraco / Tramco	09 Jan 08	Dec 07A
Tramco / Infraco – award following CEC / TS approval and cooling off period and SDS novation.	28 Jan 08	14 May 08A
Construction commences	14-Apr-08	14-May-08A
Haymarket viaduct commences	08-May-08	01-Sep-08A
Edinburgh Park viaduct commences	06-Aug-08	01-Sep-08A
A8 underpass commences	08-Aug-08	28-Aug-08A
Carrick Knowe Bridge commences	21-Aug-08	19-Aug-08A
All demolition work complete	22-Aug-08	13-Apr-09
Tram mock-up delivered	Oct 2008	Nov 2008A
First track installation commences – on street	03-Nov-08	Jun 2009
MUDFA works complete	Nov 2008	Oct 2009
Haymarket viaduct complete	08-Dec-08	23-Sep-09
Roseburn viaduct commences	20-Jan-09	29-Mar-10
Design assurance complete	20-Jan-09	21-Jul-09
All Issue for Construction (IFC) drawings delivered	21-Jan-09	08-Oct-09
Princes Street closed	03-Feb-09	22-Feb-09A
Roseburn viaduct complete	20-Apr-10	04-Mar-11
Carrick Knowe bridge complete	11-May-09	05-Jan-10
All consents and approvals granted	18-May-09	07-Aug-09
Edinburgh Park viaduct complete	24-May-09	30-Sep-09
A8 underpass complete	14-Jul-09	04-Mar-10
Princes Street re-opened	01-Aug-09	16-Nov-09
NR immunisation complete	Nov 2009	Nov 2009
TRO process complete	01-Dec-09	Nov-10
1 st OHL installed (Commence Section 2)	11-Dec-09	20-May-10
Commission Section 2 (Haymarket to Roseburn junction)	11-Jan-10	06-Oct-10
Commission Section 6 (depot)	25-Mar-10	17-Feb-11
1 st Tram delivered	09-Apr-10	09-Apr-10
Test track complete	23-Apr-10	13-Apr-11
1 st section (other than depot) complete ready for energisation	25-June-10	06-Oct-10
Commission Section 7 (Gogar to Edinburgh Airport)	25-June-10	23-May-11
Driver recruitment commences	July 2010	Oct 2010
Commission Section 5 (Roseburn junction to Gogar)	09-Nov-10	12-Dec-11

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Driver training commences (depot only)	Dec-10	Jan-11
Driver training commences (excludes depot)	Nov 2010	Nov-11
System testing complete off street	09-Dec-10	Jan-12
Final tram delivered	17-Jan-11	17-Jan-11
Construction Line 1a complete	17-Jan-11	Dec-11
System testing complete on street	16-Feb-11	Jan-12
Commission Section 1 (Newhaven to Haymarket)	11-Mar-11	Sep-11
Letter of "no objection" from Independent Competent Person	17-Apr-11	Jan-12
to commence tram running		
Shadow running starts	18-Apr-11	Mar-12
Shadow running complete	July 2011	Jun-12
Letter of "no objection" from Independent Competent Person	July 2011	Jun-12
to commence revenue service		
Open for revenue service	July 2011	Jun-12

<u>Guidance for Completion:</u> Legend for colouring of Actual / forecast date text

Green: Yellow: Pink Red:

Actual / forecast date is ahead or in line with baseline Slight slippage – readily recoverable with action. Significant slippage but expect recovery can be achieved Notable / significant slippage – difficult to recover, even with action.

4.2 Key issues affecting schedule

Programme is one of the priorities of the PMP and a refresh of the key issues affecting schedule will be provided in future periods following engagement with BSC.

12-week look-ahead 4.3

Milestones	Actual / current forecast date
1B Roadworks Foot of the Walk – Balfour Street	16-Oct-08A
1D Roadworks and trackworks Princes Street	23-Feb-09A*
1D Roadworks Lothian Road junction	13-Apr-09
S19 Haymarket viaduct	01-Sep-08A
2A Trackworks Haymarket to Roseburn junction	20-May-09
S20 Russell Road bridge	27-May-09
W3/W4 Russell Road retaining walls	20-May-09
S23 Carrick Knowe bridge	20-Oct-08A
W11 Bankhead Drive RW	28-May-09
S26 South Gyle Access bridge	28-May-09
5B Trackworks Saughton Road north to Bankhead	28-Apr-09
5B Trackworks Bankhead to Edinburgh Park Station	12-Nov-08A
S27 Edinburgh Park viaduct	25-Aug-08A
5C Trackworks Edinburgh Park to Gyle	09-Oct-08A
W16 Gyle Centre TS RW	01-Jun-09
W28 A8 underpass	01-Sep-08A
Gogar depot earthworks	24-Apr-09
Gogar depot building foundations	02-Jun-09
S29 Gogar underbridge	13-Oct-08A
S30 Gogarburn culvert No.1	01-Dec-08A
S32 Gogarburn culvert No.2	12-Jan-09A

*Works recommenced 23rd March 09.

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5 Risk and opportunity

5.1 Review of risk register

Risk and Opportunity Reviews

The following reviews took place in the period.

Date	Format of review	Attendees	Comments
17/03/09	Infraco Risk	Project Risk Manager	Discussion regarding the
	Management Plan	BSC Commercial Director	Record of Review for the
	Review	Siemens Finance and	IRMP
		Commercial Manager	
17/03/09	Infraco Risk Allocation	Project Risk Manager	Review of Infraco risk
	Review	Infraco Commercial	allowances within the QRA
		Manager	
23/03/09	Structures Risk	Project Manager	All risks and treatment
	Review	Project Risk Manager	plans reviewed
23/03/09	Depot Risk Review	Project Manager	All risks and treatment
		Project Risk Manager	plans reviewed
24/03/09	MUDFA Risk Review	MUDFA Constriction	All risks and treatment
		Director	plans reviewed
		Project Risk Manager	
25/03/09	Roads and Drainage	Project Managers	All risks and treatment
	Risk Review	Project Risk Manager	plans reviewed
25/003/09	Princes Street Risk	Project Managers	All risks and treatment
	Review	Project Risk Manager	plans reviewed
25/03/09	Section 7 Risk Review	Project Manager	All risks and treatment
10 C		Project Risk Manager	plans reviewed

Risk Register

The Primary Risk Register is attached at Appendix D. The Primary Risk Register contains those high impact risks which are impacting (or have the potential to impact) the project at this moment in time. In addition, the potential risks identified in regard to programme slippage are being reviewed periodically and will form part of the updated QRA.

A full review of the Project Risk Register with various tie directors will take place in Period 1.

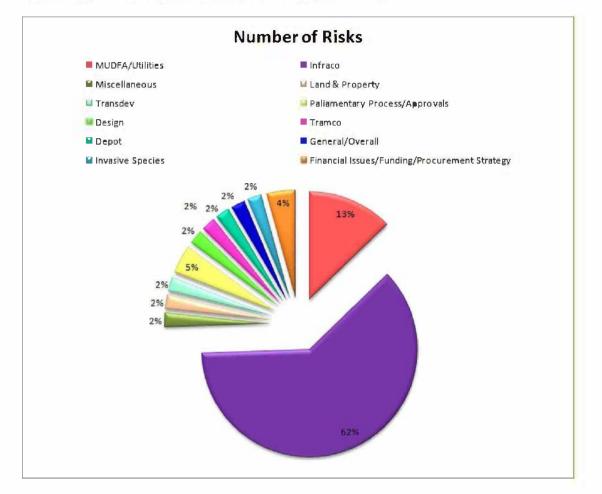
There are currently 47 risks in the Project Risk Register. The top five project risks are listed on the following pages.

Delivery Organisation Period Progress Report		ocument Type: sue: rogress Meeting Date: age:	eport sue 1 od 13 28								
				Тө	p 5 Risks - Peri	od 13					
		Risk Description									
ARM Risk D	Cause	Event	Effect	Risk Owner	Significance	Black Flag	Treatment Strategy	Previous	Current	Due	Action Owner
916	CEC do not achieve capability to deliver	CEC are unable to honour their funding committment	Potential showstopper to project if contribution not reached, Line 1B may depend on incremental funding from CEC	S McGarrity	NIL - 0.0	Project	CEC has formed a multi discipline Tram Contributions Group to monitor identified sources of £45m contribution including critically developers contributions. tie are invited to that group. (see add info)	Status On Programme	Status On Programme	Date 31Jul-11	CEC
							CEC to deliver necessary contributions for 1a	On Programme	On Programme	31 Jul-11	CEC
							Tram Project Board te monitor progress tewards gaining contributions	On Pregramme	On Programme	31 Jul-11	В МасКау
6999		Extent of concessiona fare support committmentfrom TS provides inadequate comfort to CEC	ry CEC wihdraw support for FBC and project fails	B Campbell	NIL - 0.0	Project	Negotiate the terms of Government committment to concessionary fare support to level which is satisfactory to CEC	Complete	Complete	31 Jan-08	8 Campbell
1077	Lack of visibility of design changes	Tramworks price base on a design which ma have been altered. Unclear who authorise design change.	Potential delay and	S Bell	NP 212		Establish a process which will act as a control mechanism for design changes.	On Programme	On Programme	31-May-09	T Glazebrook
		design change.					Escalate to Infraco German parent companies if still unresolved.	Complete	Complete	31-Dec 08	S Bell
							Identify potential threat/respense to BSC positioning to encourage engagement and co-ordinate to resolve programme challenges and delays	Complete	Complete	31-Mar-09	S Bell
							Utilise DRP processes if appropriate.	On Pregramme	On Programme	31-May 09	S Bell

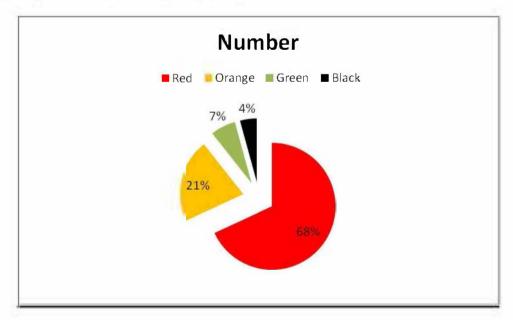
	urgh Tram Project y Organisation Period Progress	Report P	ocument Type: sue: rogress Meeting Date: age:	Pr	ogress Report Issue 1 Period 13 29				
44	SDS contractor does not deliver the required prior and technical approval consents in line with SDS V31	Delay te IFC drawings beyond V31 Programme	Delayte programme with E additional resource costs and delay to infraco. Impact	D Sharp	Evaluation of prior approval programme Hold fortnightly Roads Design	Complete	Cemplete	31-Oct 08 31-Dec 07	● Sharp T Glazebrook
			upon risk balance.		Group Informal consultation prior to statutory consultation	Complete	Complete	31-Mar-09	T Glazebrook
					Integrate CEC into tie organisation/accomodation (office move)	Complete	Cemplete	4-Jun-∎7	T Glazebrook
					Weekly Meetings of Approvals Task Force	On Programme	On Programme	31-May-09	D Sharp
5 173	Uncertainty over extent of contaminated land on route	Tramway runs throug area of previously unidentified	n Increase in costs to remove material to special and other tip.	R Bell	Issue containation and gi repor te Infraco bidders	: Complete	Cemplete	2 Mar 07	B Dawson
		centaminatien/unforse n ground conditions.	26		tie to ebtain ground investigation and centamination reports from SDS	Complete	Cemplete	30-Mar 07	A McGregor

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The ratings of the risks are illustrated below.



New risks and concerns

The Project Risk Manager, in conjunction with the relevant director, agrees which concerns are escalated to risks and are added to the Project Risk Register.

The following six items were added to the Infraco Concerns Register in the period.

Discipline	The descention										
	Risk Cause Namber	Rak Event	Effect								
Section 1D	Underground structures	Presence of underground chambers and/or structures	Delay to programme, extension of time claim. Additional costs.								
Section 7	85 BAA to not accept design	tie/BSC are unable to gain BAA consent for the design	Delay to critical works.								
Section 7	86 Design costs exceeds amount allowed for in project budge	t Unable to conclude the design in time or to cost	Delay to critical works. Cest overrun								
Section 7	87 Construction costs exceed amount allowed for in project budget	Unable to complete the works in time or to cost	Delay to critical works. Cost overrun								
Section 7	Actual costs exceed budget costs	Increase in the cost of works associated with the relocation of Burnside Road	Cost overrun								
Land & Property	89 BSC have indicated that it may be necessary to purchase additional land on Roseburn Street.	tie are required to purchase plots 97 and 101 on Roseburn Street	Additional cost.								

The item relating to underground structures and chambers was added by the Section 1 Project Manager.

The entries relating to Section 7 were added to the existing risks for these works by the new Project Manager for this section. An assessment has been made for these in the unapproved cost review.

The land and property item was added following the Period 12 PD Review after it was highlighted that BSC are claiming that two additional plots on Roseburn Street require to be purchased.

Reassessed and closed risks

The following items in the Infraco Concerns Register were were closed in the period.

Thursday.		Risk description	
	Risk Number	Risk Event	(201).
Depot	21 Delay to pipejacking sewer diversion works		Delay and disruption to Tramworks on A8 underpass com letion
Depot	liabilit, with su -chain		Further delay to critical depot building works
Depet	68 Design of permanent dewatering alters discharge from close roximit to NR asset to SW sewer.		Delay to programme, extension of time claim. Additional third sate costs.

Number 21 was closed as the sewer diversion is now complete.

Number 67 was closed as the problems with the water main are now effectively complete.

Number 68 no longer exists as the monitoring measures put in place have eased Network Rail's concerns and the threat of suspension has diminished.

There was one project risk closed in the period. Risk Id 10, 'Costs associated with obtaining wayleaves', was closed as there are no more wayleaves required.

5.2 Risk action plan for next two periods

The following treatment plans are due for completion in the next three periods.

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Action Owner	Risk ID ▼ Act	ion ID 🔻 Action Name	Due 🔄	Active	Complete 🔻	Late 💌	Next 3 periods
A Hill	164	In conjunction with MUDFA, undertake trial excavations to confirm locations of utilities and inform designer. All complete but section 1A1 and York Place to Picardy Place 42 outstanding.	30/06/2009	Yes	Νο	No	Period 4
A Hill	931	605 MUDFA trial holes to verify GPR surveys	30/04/2009	Yes	No	No	Period 2
A Hill	139	In conjunction with MUDFA, undertake trial excavations to confirm locations of utilities and inform designer. All complete but section 1A1 and York Place to Picardy Place 42 outstanding.	30/06/2009	Yes	No	No	Period 4
D Sharp	44	467 Weekly Meetings of Approvals Task Force	31/05/2009	Yes	No	No	Period 3
D Sharp	279	634 Weekly Meetings of Approvals Task Force	31/05/2009	Yes	No	No	Period 3
D Sharp	279	635 Monitoring and tracking through the 3rd party rep	31/05/2009	Yes	No	No	Period 3
D Sharp	271	559 Assure the quality and timing of submissions	31/05/2009	Yes	No	No	Period 3
D Sharp	271	637 Weekly Meetings of Approvals Task Force	31/05/2009	Yes	No	No	Period 3
D Sharp	1033	Pressue from Approvals Task Force to ensure Technical and 632 Prior Approvals are delivered	30/04/2009	Yes	No	No	Period 2
G Barclay	1084	Assess TM implications to minimise enabling works and 654 additional cost	30/04/2009	Yes	No	No	Period 2
G Barclay	1085	653 Examine VE opportunity to reduce costs with SUCs and SDS	30/04/2009	Yes	No	No	Period 2
I Clark	914	SDS to obtain consent for design in accordance with programme requirements - Scottish Water and all Telecoms. 573 Complete with the exception of section 1A1 Liase with Scottish Power to agree and approve method of	30/04/2009	Yes	No	No	Period 2
M Blake	911	628 crossing tunnel	30/04/2009	Yes	No	No	Period 13
M Blake	914	SDS to obtain consent for design in accordance with programme requirements - SGN and Scottish Power. 557 Complete with the exception of section 1A1	30/04/2009	Yes	No	No	Period 2
R Bell	1079	Ongoing review of BSC resources and formal review at 4- weekly meeting. Objectives to be set for BSC at monthly 648 meetings in order to monitor progress.	31/05/2009	Yes	No	No	Period 3
T Glazebrook	1077	646 Establish a process which will act as a control mechanism for design changes. (If one exists already then ensure process is complied with)	31/05/2009	Yes	No	No	Period 3

5.3 Cost Quantative Risk Analysis

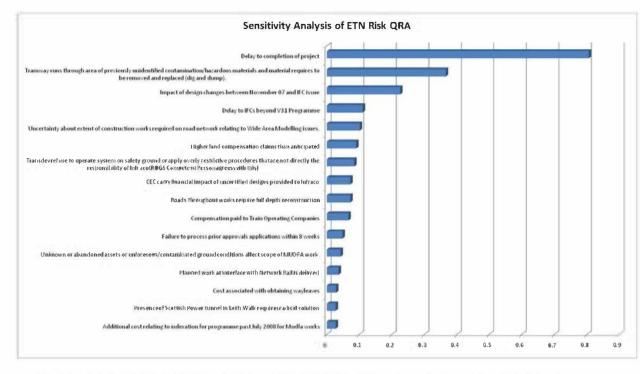
The Project Risk Allocation has reduced by $\pounds 1.2m$ in the period. All draw-downs are shown in the table below. The current Project Risk Allocation is $\pounds 23.2m$.

Description	Owner	Value (£)					
Edinburgh Park Office rental - additional cost	Frank McFadden	-42,326					
Track monitoring of NR infrastructure at Gogar depot	Mike Paterson	-4,673					
Land at Leith Goods Yard	Eric Smith	-56,000					
MUDFA	John Casserly	-1,033,000					
Enhanced response mgmt for unplanned traffic delays	Alan Coyle	-100,000					
	Sub-total						

Sensitivity analysis of cost QRA.

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The above chart highlights those component risks which are correlated most closely with the overall risk allocation. These risks are the ones which, if changed in terms of probability or impact, would have the most significant effect on the final output.

5.4 Schedule QRA

tie is currently working with the supplier of Active Risk Manager (ARM – the risk management software which **tie** uses) with a view to integrating Primavera and ARM so that a schedule risk analysis can be developed. A schedule QRA will be created in line with the recalibration of the overall programme. In advance of the recalibrated programme **tie** will trial the updated ARM software against the current programme.

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6 Health, safety, quality and environment

6.1 H&S accidents and incidents, near misses, other or initiatives

HS&E ACCIDENTS and INCIDENTS SUMMARY											
Project running totals	Total Hours	>3 day	Major	Injury	NM / Unsafe condition	Service damage	ENV	RTA	MOP	AFR	SFR
Period 13	136,339	0	1	2	29	15	0	2	13	0.73	11.00
Year to date	1,320,064	1	4	29	171	216	3	15	87	0.38	16.36
13 period rolling	1,320,064	1	4	29	171	216	3	15	87	0.38	16.36



There was one "Major" reportable accident occurred during Period 13; a Carillion operative jumped into a 1.4m deep excavation and suffered a broken bone in his ankle. This is being investigated by Carillion. This has resulted in the 13-period-rolling AFR rising to 0.38.

The service damage frequency fell for Carillion but increased for BSC. The number of power cables being struck has increased including a significant strike to an 11 KVA cable. The average number score for PM inspections was 89%. Three Carillion sites fell below the 80% compliance level. BSC average score is 95% and Carillion is 81%. During the period there have been six safety tours carried out (six planned). There were 13 Project Manager Inspections planned and 16 carried out.

The frequency of Member of Public incidents has increased, mainly due to security incidents at Princes Street. Although intruders have managed to climb the fence on some occasions, BSC security has prevented further access. This will be monitored closely.

As a result of the Carillion reportable accident, a "blitz" on excavation inspections was carried out by **tie** work supervisors and HSQE staff. Areas of concern were noted with access, shoring and barriers, these have now been addressed. Further specific inspections will continue.

A successful meeting was held between **tie** and the HMRI during Period 13. The meeting was part of the continual working relationship with the HMRI and their interest in the design, construction, commissioning, operation and maintenance of the ETN. During the meeting a presentation was given by CAF regarding the Tram and by a representative from Manchester University regarding the wheel rail interface. **tie** and BSC also discussed how construction was controlled to an integrated design.

Two Operational Health Standards were agreed by **tie** and BSC regarding the appropriate standard to be adopted for the provision of suitable and sufficient site welfare and for the placement of kerbs to minimise manual handling. These have been communicated to site and subcontractors have already been challenged by BSC regarding compliance to the standards.

6.2 Environment

An inspection of Japanese Knotweed to the area of the old Viking building to ascertain if new growth was evident was inconclusive. To aid identification of new growth, the old weed is being removed to a skip and burned in a controlled manner. SEPA and CEC have been contacted.

A new Quality and Environmental Manager has been employed by tie and will assess the adequacy of the current BSC environmental and quality plans.

6.3 Quality

tie have appointed a new Quality and Environmental Manager in the period. This section will have increased focus from this specialist resource in the upcoming periods.

Infraco

BSC Quality Management Plan (Rev 3) and Siemens Quality Management Plan (Rev A), issued to tie 16/2/2009 for review and acceptance, currently outstanding. Action passed to S. Smith, to be completed during Period 1. BSC are in the process of reviewing their 10 ITP's which, upon completion of review will be resubmitted to tie for acceptance. Various inspections carried out by Construction Support Service over Period 13, with weekly reports submitted to BSC's construction team, in order that issues raised can be dealt with or NCR's raised by BSC. NCR's are not raised by CSS. S. Smith to monitor the findings from theses inspections.

MUDFA

Three Carillion audits were planned for the period and three were carried out. NCRs from two audits are all closed out. Output from 3rd audit conducted 27/3/09 is awaited. Three NCRs raised by **tie** inspectors during Period 13. 24 NCRs are recorded as still open. Process review to be held detailing action to close outstanding NCR's.

7 Stakeholder and communication

7.1 Stakeholder / communication strategy / plan

tie, CEC and other key parties continue to work closely together to enhance the ongoing communications strategy. All parties continue to meet regularly and the next Communications Group meeting is due to be held on 7 April 2009.

7.2 Stakeholder / communication update

In response to the Princes Street contract resolution on 20 March, the team organised notifications to be sent to all MSPs, MPs, ClIrs and 7,000 local business and residents on 20 March and w/c 23 March. The website was also updated. Media activity has included news release distributed on Princes Street contract resolution, photo-shoot with Jenny Dawe on Princes Street works commencing and enquiries on project status.

The production and distribution of notifications continue on a regular basis: Constitution Street Update (5 March), Haymarket Update (5 March) Leith Walk Update (20 March) as well as several local updates. The tram website recorded 17,277 total visits in March 2009, which is up by 449 compared to February. The most popular pages viewed continue to be the homepage, local updates and the route map. The design and delivery of Princes Street banners and tram mock-up support has been ongoing throughout this period.

Events this month included: the Labour Party Conference at which **tie** participated in a Dragon's Den Fringe event (6 March), a presentation to Leith Chamber of Commerce (16 March), a stand and workshop held at ETAG Conference (17 March), a presentation to the Fife Council (20 March), All Party Light Rail Committee (24 March) and a Spokes event (25 March). Scottish Parliamentary MSP briefings were held by Mike Connelly throughout the dispute.

The customer service team have been handling telephone and email requests for information including the Princes Street works, information on tram mock-up, parking, logistics requests, Small Business Support Scheme and requests for tram images. A weekly Customer Stakeholder Report is available on the trams website.

7.3 Communication and stakeholder action plan for next period

Notifications will be distributed to local businesses and residents regarding upcoming works in Constitution Street, Leith Walk, Lothian Road junction, Haymarket and Roseburn. The Princes Street tram works will be supported by ongoing face to face engagement, website updates and banner / signage installation. Media activity next period will be focused these works and ongoing coverage on the tram mock-up.

Events in the next period will include a presentation to the Leith Rotary Club, CBI Lunch (3 April), a stand at Scottish Trades Union Congress (20-22 April) a fringe event featuring Sarah Boyack MSP and Paul Tetlaw from Transform, a presentation to ex Royal Mail executives and a presentation to Strathclyde Uni students (28 April).

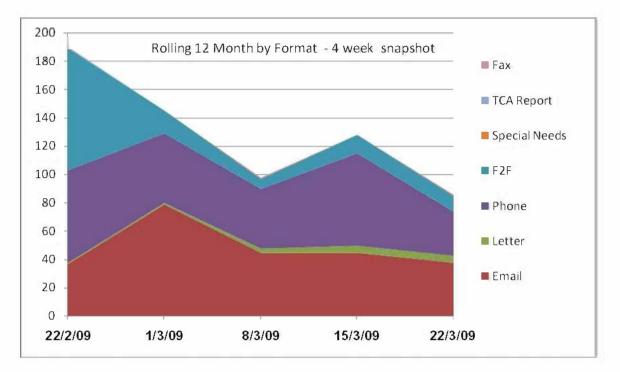
The team will be working closely with the Health and Safety team to produce a Health and Safety video. This will be used for contractor safety briefings and will reiterate **tie**'s commitment to Health and Safety. The Schools Programme will be focusing on the production of a new fact sheet and the preparation for tram bus visits in May. Filming for the new tram video will be taking place at the mock-up from 15-17 April.

7.4 Customer Service Trends and Analysis

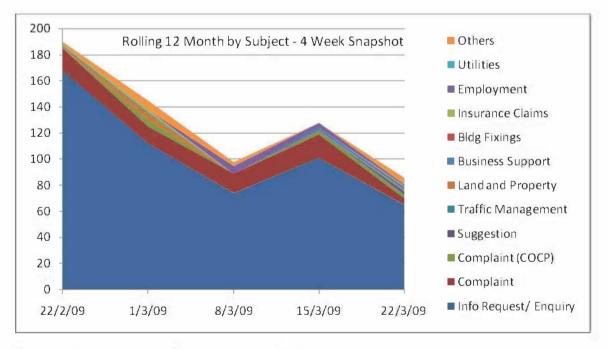
A 4-week breakdown of Customer Service's incoming correspondence is shown below. From the previous month's figures, the overall volume of correspondence has decreased substantially between February 22nd and March 22nd.

Edinburgh Tram Project

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Regarding the format of correspondence, the total number of contacts decreased, with figures for phone calls and emails rising in place of the declining face to face meetings (F2F) figures.



Figures decreased across the board concerning the subject of customer correspondence. However Information Requests still remain the bulk of all contacts.

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Item	Volume Month	Volume (Cumulative from 21/11/08)	Performance (Month)	Performance (Cumulative)	Target Performance
Telephone response	323	1076	99	96	90% in 30 seconds
Telephone Same day resolution	317	1039	98	96	Info onl y
					1
Emailacknowledgement	202	605	100		100% acknowledged within 24 hours
Email response	1		99	97	90% resolution in 7 days
Email same day resolution	180	524	90	85	Info only
Letter acknowledgement	12	48	100		100% acknowledgement within 24 hours
Letter response			92	94	100% resolution in 7 days
Total Enquiry Volumes	537	1729			
	01	0.40	100	100	
Website update	91	249	100	100	Weekly

Monthly Customer Service Report

Monthly Notifications Performance 23/02/09 to 21/03/2009 and Cumulative from 1st September 2008)

Notification Type	Work Site		Utilities	Tram works	Total	% in Standard
	Month	Notifications	0	0	0	
Major works		In Standard	N/A	N/A	N/A	N/A
	Cumulative	Notifications	5	3	8	
		In Standard	0	1	1	13
	Month	Notifications	7	3	10	
Minor Works		In Standard	7	2	9	90
	Cumulative	Notifications	15	15	30	
		In Standard	10	9	19	63
	Month	Notifications	1	0	0	
Emergency		In Standard	1	N/A	1	100
	Cumulative	Notifications	14	0	14	
		In Standard	14	0	14	100

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Appendix 'A' Detailed cost report

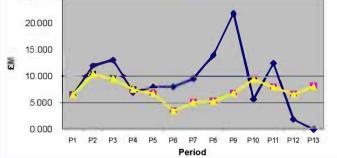
FY 08/0	09: Demand	on TS					93.2	210	
10	CIAL COMMENTARY								
PERIOD RESULTS:	a only. See Section 3 of the TS repo	rt for further commenta	rv.						
TD RESULTS: TD is for Phase 1a	only. See Section 3 of the TS report f	for further commentary.							
	AST:								
	1a only. See Section 3 of the TS repo	ort for further comment	tary.						
FC: FC is for Phase 1a	only and includes an unapproved ind	crease of £15M to the P	roiect Risk a	llowance. Th	is excludes	£6.2M of pote	ential Phase 1	lb costs and i	s consister
ith the update sent	on 26th March 2009. See Section 3 o	of the TS report for furth	ner commenta	ary.					
SUMMARY	FY 08/09	FY 08/09			FY 08/09		COWD	Costs	Total
	COWD Period Actual Budget Variance	COWD Year To Actual Budget	Variance	Forecast	Full Year F Budget	Variance	To Date Actual	To Go Forecast	AFC Forecast
otal Project COWD Other Funding Demand on TS	8.840 10.490 -1.649 0.730 10.490 -9.760	100.979 150.851 7.769 30.852 93.210 120.000	-23.083	100.979 7.769	150.851 30.852	-49.872 -23.083 -26.790	231.019 19.075	295.998 24.440 271.558	527.0 43.5
emand on 1 S	8.110 0.000 8.110	93.210 120.000	-26.790	93.210	120.000	-26.790	211.945	271.558	483.5
RAPH 1 - Period Tre	end of Full Year Forecast (FY 08/09)		GRAPI	H 2 - Period	Trend of AF	C			
							Final Costs		
160.000				530.000 525.000				*	1
140.000				525.000					
120.000 100.000				520.000				_/	ļ
120.000 100.000 80.000 60.000		***	εw	520.000 515.000 510.000		* * *	* * * * *		-
120.000 100.000 80.000		***	¥ S	520.000 515.000	***	* * *	*-* - * - *		~
E 120.000 100.000 80.000 40.000 20.000 0.000	P2 P3 P4 P5 P6 P7 P8 P9 P10	P11 P12 P13	W3	520.000 515.000 510.000 505.000	P1 P2 P3	◆ ◆ ◆ P4 P5 P6	• • • • •	10 P11 P12 P13	
E 120.000 100.000 80.000 40.000 20.000 0.000	P2 P3 P4 P5 P6 P7 P8 P9 P10 Period	P11 P12 P13	Wæ	520.000 515.000 510.000 505.000 500.000	P1 P2 P3		• • • • •	10 P11 P12 P13	
120,000 100,000 80,000 40,000 20,000 0,000 P1	Period	P11 P12 P13	εu	520.000 515.000 510.000 505.000 500.000	P1 P2 P3			10 P11 P12 P13	
E RISK AND OPPOR	Period	P11 P12 P13	Υσ	520.000 515.000 510.000 505.000 500.000	P1 P2 P3			10 P11 P12 P13	
E RISK AND OPPOR	Period	P11 P12 P13	Wa	520.000 515.000 510.000 505.000 500.000	P1 P2 P3			10 P11 P12 P13	
120,000 100,000 80,000 40,000 20,000 0,000 P1 B: RISK AND OPPOR FULL YEAR FORECA See Section 3 of the	Period TUNITIES TO: AST:	P11 P12 P13	Wa	520.000 515.000 510.000 505.000 500.000	P1 P2 P3			10 P11 P12 P13	
120,000 100,000 80,000 60,000 40,000 20,000 0,000 P1	Period TUNITIES TO: <u>AST:</u> TS report for further commentary. <u>only and includes an unapproved inc</u>	crease of £15M to the P	roject Risk a	520.000 515.000 510.000 505.000 500.000 495.000		Pe	riod		
120,000 100,000 80,000 60,000 40,000 20,000 0,000 P1 CULL YEAR FORECA See Section 3 of the section 3 of t	Period TUNITIES TO: AST: TS report for further commentary.	crease of £15M to the P	roject Risk a	520.000 515.000 510.000 505.000 500.000 495.000		Pe	riod		
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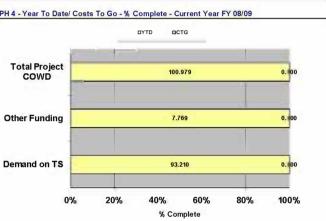
Detailed Financial Information

13 £m

6: Current Year 08/09 - Baseline Budget	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	Total
1 Total Project COWD - Budget	6.457	13.085	14.265	7.667	8.688	8.763	10.395	15.222	23.863	6.198	13.563	12.195	10.490	150.85
2 Other Funding - Budget	-0.036	1.080	1.178	0.633	0.717	0.724	0.858	1.257	1.970	0.512	1.120	10.348	10.490	30.85
3 Demand on TS - Budget	6.493	12.005	13.088	7.034	7.971	8.039	9.537	13.965	21.893	5.686	12.443	1.847	0.000	120.00
Current Year 08/09 - Actuals (Updated 4 weekly) 4 Total Project COWD + Revised Forecast	6.457	11.287	10.360	8.162	7.371	3.744	5.531	5.750	7.377	10.265	8.648	7.186	8.840	100.97
7 Other Funding + Revised Forecast	-0.036	0.932	0.855	0.674	0.609	0.309	0.457	0.475	0.609	0.848	0.714	0.593	0.730	7.76
10 Total Demand on TS	6.493	10.355	9.505	7.488	6.762	3.435	5.074	5.275	6.768	9.418	7.934	6.593	8.110	93.21
8: Variance tracker 12 Variance Line 1 to Line 4 - Project Actual vs Budget 13 Variance Line 2 to Line 7 - Oth Funding Actual vs Budget	0.000	-1.798 -0.148	-3.905 -0.322 -3.583	0.495 0.041 0.454	-1.318 -0.109 -1.209	-5.018 -0.414 -4.604	-4.864 -0.402 -4.463	-9.472 -0.782 -8.690	-16.487 -1.361 -15.125	4.068 0.336 3.732	-4.915 -0.406 -4.509	-5.009 -9.755 4.746	-1.649 -9.760 8.110	-49.87 -23.08 -26.79
14 Variance Line 3 to Line 10 - Demand on TS vs Budget	0.000	-1.650	-0.000		1.200				10.120	-				
5	0.000 01 22.186 1.832 20.354	-1.650 Q2 27.667 2.284 25.383	a3 29.891 2.468 27.423	Q4	Total 150.413 12.419	inancial C All costs a Project Ris	reforPha k allowan with the u	se 1a only ce. This e update ser	/10 Onwar and inclu xcludes £	desanur 6.2M of p	otential P	<u>d increase</u> hase 1b cc action 3 of	sts and is	3
: Next Year 09/10 - Forecast 16 Total Project COWD 19 Other Funding 22 Total Demand on TS 0: All Years (Escalated) (Updated 4 weekly)	Q1 [22.186] [1.832] [20.354] FY 03/04	Q2 27.667 2.284 25.383 FY 04/05	Q3 29.891 2.468 27.423 FY 05/06	Q4 70.669 5.835 64.834 FY 06/07	Total 150.413 12.419 137.994	Financial C All costs a Project Ris consistent further cor	reforPha skallowan with the u nmentary.	se 1a only ce. This e update ser	/10 Onwar y and inclu xcludes £ nt on 26th FY 11/12	ides an ur 5.2M of p March 20 FY 12/13	otential P 09. See se FY 13/14	hase 1b co ection 3 of	sts and is	oort for
P: Next Year 09/10 - Forecast (Updated 4 weekly) 16 Total Project COWD 19 Other Funding 22 Total Demand on TS (Updated 4 weekly) 10: All Years (Escalated) (Updated 4 weekly) 24 Total Project COWD (Updated 4 weekly)	Q1 22.186 1.832 20.354 FY 03/04 0.000	Q2 27.667 2.284 25.383 FY 04/05 3.093	Q3 29.891 2.468 27.423 FY 05/06 10.664	Q4 70.669 5.835 64.834 FY 06/07 30.431	Total 150.413 / 12.419 / 137.994 / 137.994 / 137.994 / 137.952 / 107.952 / 107.952 / 107.952 / 1	Financial C All costs a Project Ris consistent urther cor FY 08/09 100.979	reforPha k allowan with the u nmentary. FY 09/10 150.413	se 1a only ce. This e apdate ser FY 10/11 111.101	y 10 Onwar y and inclu xcludes £ ht on 26th FY 11/12 34.483	Ides an ur 5.2M of p March 20 FY 12/13 0.000	otential P 09. See se FY 13/14 0.000	hase 1b co ection 3 of	osts and is the TS rep	TOTAI
Next Year 09/10 - Forecast 16 Total Project COWD 19 Other Funding 22 Total Demand on TS 10: All Years (Escalated) (Updated 4 weekly)	Q1 [22.186] [1.832] [20.354] FY 03/04	Q2 27.667 2.284 25.383 FY 04/05	Q3 29.891 2.468 27.423 FY 05/06	Q4 70.669 5.835 64.834 FY 06/07	Total 150.413 12.419 137.994	Financial C All costs a Project Ris consistent further cor FY 08/09 100.979 7.769	reforPha skallowan with the u nmentary.	se 1a only ce. This e apdate ser FY 10/11 111.101 9.173	/10 Onwar y and inclu xcludes £ nt on 26th FY 11/12	ides an ur 5.2M of p March 20 FY 12/13	otential P 09. See se FY 13/14	hase 1b co ection 3 of	osts and is the TS rep	TOTAI 527.01 43.51

Edinburgh trams





11: Other Funding	20	SCI - 1			1.8	w. 77			100		5 SY		57	1 6
Budget (Current Year 08/09)	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	Total
CEC	-0.036	1.080	1.178	0.633	0.717	0.724	0.858	1.257	1.970	0.512	1.120	10.348	10.490	30.852
Other Funding Stream			0.000			Contraction of the	· · · · · · · · · · · · · · · · · · ·		1	2000			S	0.000
Other Funding Stream						1	1			1	1			0.000
Other Funding Stream		- C - C - C				0 0	20		0		() () () () () () () () () ()	1	0.000	0.000
Other Funding Stream	1	-6			1		tr			1	ir:		1	0.000
Total Budget Other Funding	-0.036	1.080	1.178	0.633	0.717	0.724	0.858	1.257	1.970	0.512	1.120	10.348	10.490	30.852
Actual (Current Year 08/09)	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	Total
CEC	-0.036	0.932	0.855	0.674	0.609	0.309	0.457	0.475	0.609	0.848	0.714	0.593	0.730	7.769
Other Funding Stream		0	A			1	() () () () () () () () () () () () () (1	6		- 0		0	0.000
Other Funding Stream				1			-					1.1	100	0.000
Other Funding Stream		-	-			1	· · · · · · · · · · · · · · · · · · ·		100		1.1.1			0.000
Other Funding Stream				-		1	1		63	2	1		1 m 1	0.000
Total Actual Other Funding	-0.036	0.932	0.855	0.674	0.609	0.309	0.457	0.475	0.609	0.848	0.714	0.593	0.730	7.769
12: Promoter Full Year Forecast Run Rate														
Period Trend of Full Year Forecast (Current Year 08/09)	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	
Full Year Forecast	150.851	150.851	150.984	150.537	150.647	138.759		126.104		111.658			100.979	
														-
13: Promoter AFC Run Rate	-	-		_		_	1.11		_		_		1	
Period Trend of AFC	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	
Anticipated Final Cost	508.017	512.017	512.017	512.017	512.017	512.017	512.017	512.017	512.017	512.017	512.017	512.017	527.017	

Appendix 'B' Change control register

(Register and other information as volunteered or requested from delivery organisation / promoter – There are none to report on at this point)

Appendix 'C' Programme information

To be sent separately to TS by CD:

- Milestone Schedule Summary (progress against baseline)
- Full Detailed Time Schedule (progress against baseline)
- Critical Path
- 12 Week Look Ahead Extract from Schedule

Appendix 'D' Primary risk register

Please note that a full review of the Project Risk Register will take place in Period 1. The Primary Risk Register will be updated accordingly.

Period 13 2008/09 - Primary Risk Register

		Risk Description									
ARM Risk ID	Cause	Event	Effect	Risk Owner	Significance	Black Flag	Treatment Strategy	Previous Status	Current Status	Due Date	Action Owner
14	SDS contractor does not deliver the required prior and technical	Delay to IFC drawings beyond V31 Programme	Delay to programme with additional resource costs and	D Sharp	High - 23-00		Evaluation of prior approval programme	Complete	Complete	31-Oct-08	D Sharp
	approval consents in line with SDS V31		delay to infraco. Impact upon risk balance.				Hold fortnightly Roads Design Group	Complete	Complete	31-Dec-07	T Glazebrook
							Informal consultation prior to statutory consultation	Complete	Complete	31-Mar-09	T Glazebrook
							Integrate CEC into tie organisation/accomodation (office move)	Complete	Complete	4-Jun-07	T Glazebrook
							Weekly Meetings of Approvals Task Force	On Programme	On Programme	31-May-09	D Sharp
173	Uncertainty over extent of contaminated land on route	Tramway runs through area of previously unidentified contamination/unforseen ground	Increase in costs to remove material to special and other tip.	R Bell	tin 200	R.	Issue containation and gi report to Infraco bidders	Complete	Complete	2-Mar-07	B Dawson
		conditions.					tie to obtain ground investigation and contamination reports from SDS	Complete	Complete	30-Mar-07	A McGregor
52	Political and/or Stakeholder objectives change or require design developments that constitute a change of scope; Planning	Amendments to design scope from current baseline and functional specification.	Programme delay as a result of re-work; Programme delay due late receipt of change requirements and lack of	D Sharp			Close working relationship with CEC and stakeholders	On Programme	On Programme	31-Jan-11	L Murphy
	Department requires scope over and above baseline scope in order to give approval (may be as a result of lack of agreement over interpretation of planning legal requirements).		(dealt with through change process); Project ultimately could become unaffordable.				Weekly critical issues meeting	Complete	Complete	31-Jul-08	T Glazebrook
928	Major single safety incident	Safety incident during	Delay (potentially critical) due to	S Clark		8	All Site Staff to get CSCS or	On Programme	On Programme	30-Jan-11	C McLauchlan
	(including a dangerous occurrence) during construction	construction	HSE investigation and rework. PR risk to tie and stakeholders.				equi∨alent				
							Develop and Implement Incident Management Processes	Complete	Complete	27-Apr-07	T Condie
							HSQE Audits, site inspections and Management Safety Tours to be carried out	On Programme	On Programme	31-Dec-10	T Condie
							Safety Induction to be carried out for all site staff	On Programme	On Programme	31-Dec-10	T Condie

		Risk Description									
RM Risk ID	Cause	Event	Effect	Risk Owner	Significance	Black Flag	Treatment Strategy	Previous Status	Current Status	Due Date	Action Owne
							Site Supervisors to be appointed by tie	Complete	Complete	28-Feb-07	S Clark
11	Utilities assets uncovered during construction that were not previously accounted for, unidentified abandoned utilities	Unknown or abandoned assets impacts scope of Infraco work	Re-design and delay as investigation takes place and solution implemented; Increase in Capex cost as a result of	D Sharp			GPR surveys in areas where there are likey to be services	Complete	Complete	1-Apr-07	T Glazebrook
	assets; known redudant utilities; unknown live utilities; unknown redundant utilities.		additional works.				MUDFA trial holes to verify GPR surveys	On Programme	On Programme	30-Apr-09	A Hill
77	Legal challenge. Extension of statutory consultation process. Large number of objections. TRO process is subject to a public hearing process.	Delay in achievement of TRO(s) due to a large number of public objections and/or a legal challenge to using a TTRO to construct Infraco.	Requirement to start construction using TTROs	A Sim	Hate and		Use of TTROs to undertake construction of permanent works in advance of permanent TROs being approved.	On Programme	On Programme	30-Jan-11	A Sim
95	Encountering archaeological finds/burials/munitions during construction	Exhumation of archaeological finds/burials	Delay in construction programme	e R Bell			Agree protocol AMIS to re-programme works accounting for hot-spots	Complete Complete	Complete Complete	20-Apr-07 30-Apr-07	
							Assess Infraco programme to determine if float contained within the high risk areas	Complete	Complete	28-Aug-07	T Hickman

Carry out advanced archaeological works in advance of Infraco	Complete	Complete	31-Mar-08	P Douglas
Check to ensure that AMIS programme has adequate float	Complete	Complete	14-May-07	J McAloon
Identify hotspots	Complete	Complete	28-Feb-07	S Clark
Meet Archaeologist	Complete	Complete	28-Feb-07	S Clark
Review Infraco programme regarding archaeological hotspots and ensure adequate programme float	Complete	Complete	31-Jul-07	T Hickman

		Risk Description									
ARM Risk ID	Cause	Event	Effect	Risk Owner	Significance	Black Flag	Treatment Strategy	Previous Status	Current Status	Due Date	Action Owner
271	Inadequate quality of submission of approval. Partial submission of package. Programme compression. Lack of CEC resources. CEC does not follow agreed procedures.	Failure to process prior approval applications within 8 weeks	s Delay and disruption to infraco programme	D Sharp	High 19 QO		Agree approvals submission arrangements with CEC to align with SDS design programme and procurement programme.	Complete	Complete	31-Mar-08	T Glazebrook
							Assure the quality and timing of submissions	On Programme	On Programme	31-May-09	D Sharp
							Final agreement to be approved by Roads Authority, CEC Promoter, CEC in-house legal and tie	Complete	Complete	28-Feb-07	T Craggs
							Finalise alignments and gain agreement from CEC	Complete	Complete	29-Dec-06	T Craggs
							Weekly meetings of Approvals Task Force	On Programme	On Programme	31-May-09	D Sharp
							Where appropriate increase case officer resource to cope with programme compression	Complete	Complete	31-Oct-08	D Fraser
1033		Failure of Infraco to mobilise in time to commence work in line with programme.	Delay to programme. Cost overruns. Negative publicity. Criticism from stakeholders	SBell	AND MADE	Ó	Continued focus at Infraco progress meetings as well as programme workshops to mitigate the impacts of any delay	Complete	Complete	1-Oct-08	S Bell
							Implementation of Advanced Works programme in order to mitigate potential future issues during construction	Complete	Complete	1-Aug-08	R Bell
							Infraco given instructions to proceed at risk	Complete	Complete	1-Aug-08	R Bell
							Pressue from Approvals Task Force to ensure Technical and Prior Approvals are delivered	On Programme	On Programme	30-Apr-09	D Sharp

ARM Risk ID) Cause	Event	Effect	Risk Owner	Significance	Black Flag	Treatment Strategy	Previous Status	Current Status	Due Date	Action Owner
1076	Utilities do not finish diversion works prior to Tramworks commencing work	Tramworks are unable to commence work or work is delayed/disrupted	Delay and disruption claims from BSC.	R Bell	High - 18 00		Tramworks PMs attendance at Traffic Management meetings. Weekly meetings between tie Tramworks and Utilities PMs. 4- weekly tie Tramworks/Utilities management meetings. Identification of programme clashes between Tramworks and Utilities works tracked	On Programme	On Programme	31-Jul-09	R Bell
1078	Lack of effective engagement from BSC leaders towards tie and third parties (NR, BAA, Forth Ports) and the Tram project as a whole.	between tie and BSC. Failure to		R Bell	and the second	C.	Engagement between tie and BSC at different levels. Regular review of BSC management of third parties as per Employers Requirements.	On Programme	On Programme	31-May-09	R Bell
1079	Failure of BSC to effectively resource up for project	Lack of competent resources within BSC to safely and effectively deliver Tram project	Delay to programme and additional cost	R Bell		l.	Ongoing review of BSC resources and formal review at 4-weekly meeting. Objectives to be set for BSC at monthly meetings in order to monitor progress.	Complete	Complete	31-Mar-09	R Bell

Appendix 'E' Resource information

(Updated Organisation Charts, Notifying Changes of Key Personnel – N/A)