## Appendix 1 – Issues and Investigation Matrix

Objective 1: What progress has the Edinburgh trams project made to date?				
Issues	Sub-issues	Methodology	Lead responsibility	Potential PIs
1.1 What was the project's original budget and delivery date?	<ul> <li>What was the project's original budget?</li> <li>When were trams originally expected to be operational?</li> <li>What route was the trams originally expected to follow</li> </ul>	Review of final business case	• PAG	Cost and operational date for original project
1.2 How much has been spent on the project against the original budget to date?	<ul> <li>How much has been spent against budget to date for:         <ul> <li>Planning and design work</li> <li>Utilities diversion works</li> <li>Infrastructure construction (tracks, trams depot etc)</li> <li>Vehicle supply</li> <li>Other costs</li> </ul> </li> </ul>	<ul> <li>Interviews with tie</li> <li>Analysis of tie's financial and progress monitoring reports</li> </ul>	• PAG	Spend to date compared to forecast and original budget
1.3 Where has the funding come from to finance the project	<ul> <li>How much has Transport Scotland provided towards the project to date against budget?</li> <li>How much has CEC provided towards the project to date against budget?</li> </ul>	<ul> <li>Interviews with         Transport Scotland and         CEC</li> <li>Analysis of Transport         Scotland payments to         CEC/tie</li> </ul>	PAG, auditors	Funding provided to date compared to forecasts and budget
1.4 What is the most recent estimated cost to deliver the project as currently-scoped?	<ul> <li>How much does tie now expect the project to cost as originally scoped for:</li> <li>Planning and design work</li> <li>Utilities diversion works</li> </ul>	Interviews with tie     Analysis of tie's financial and progress monitoring reports	• PAG	Additional spending required to deliver original project

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	<ul> <li>Infrastructure construction (tracks, trams depot etc)</li> <li>Vehicle supply</li> <li>Other costs</li> </ul>			
1.5 How much progress has been made in delivering the key elements of the project against the original plan?	How much of the following elements of the project have been delivered to date against plan     Utilities diversion works     Infrastructure construction (tracks, trams depot etc)     Vehicle supply	Interviews with tie     Analysis of tie's financial and progress monitoring reports	• PAG	Delivery to date against planned schedules
1.6 What is the most recent estimated date that trams will be operational as per the original project?		Interviews with tie     Analysis of tie's financial and progress monitoring reports	• PAG	Current operational date for original project
1.7 What are the main reasons for any cost over-runs and delivery delays?		<ul> <li>Interviews with tie</li> <li>Analysis of tie's financial and progress monitoring reports</li> <li>Review of other briefing reports to CEC etc</li> </ul>	• PAG	Analysis of cost and delivery against plans

Objective 2: What options are now being considered to take the project forward?				
Issues	Sub-issues	Methodology	Lead responsibility	Potential PIs
2.1 What options are tie considering to redefine the scope and scale of the project?	What options are tie considering to restrict or reschedule the original tram network?	<ul><li>Interviews with tie</li><li>Review of other briefing reports to CEC etc</li></ul>	• PAG	
2.2 What are the costs and benefits of these options?	<ul> <li>What are the costs of these options?</li> <li>What benefits will they provide?</li> <li>When will trams become operational under each option?</li> </ul>	<ul> <li>Interviews with tie</li> <li>Review of other briefing reports to CEC etc</li> </ul>	• PAG	<ul> <li>Costs and benefits of options</li> <li>Operational dates of options</li> </ul>
2.3 To what extent have these options been subject to robust testing?	What has tie done to gain assurance about the accuracy of the costs and delivery dates for each of the options?	<ul> <li>Interviews with tie</li> <li>Review of any internal/external reports etc</li> </ul>	• PAG	
2.4 What processes are in place to consider and agree the preferred option?	How will CEC and Transport Scotland consider these options and when?	Interviews with CEC/tie	• PAG	
2.5 How will tie and/or CEC obtain any additional funding required to finance the remaining elements of the project?	<ul><li>How much extra funding is likely to be required?</li><li>How will this finding be obtained?</li></ul>	Interviews with CEC/tie     Review of relevant briefing reports etc	PAG, auditors	Additional funding required by source
2.6 What is tie doing to resolve the contractual disputes with Bilfinger Berger?	<ul> <li>What is the nature of these disputes and why have they arisen?</li> <li>What does the contract between tie and Bilfinger Berger for infrastructure construction say about dispute resolution?</li> <li>What progress has been made to</li> </ul>	<ul> <li>Interviews with tie</li> <li>Analysis of reasons for disputes, how long outstanding</li> <li>Review of contract</li> <li>Review of relevant</li> </ul>	• PAG	<ul> <li>Number or resolved and outstanding disputes</li> <li>Amount of money at dispute</li> <li>Cost of options</li> </ul>

 date with dispute resolution?	briefing reports etc	to resolve
<ul> <li>What options are tie considering to resolve the disputes (including contract cancellation)?</li> </ul>		dispute
<ul> <li>What is the likely cost of each option?</li> </ul>		

Objective 3: Are governance arrangements for managing and monitoring the project robust?				
Issues	Sub-issues	Methodology	Lead responsibility	Potential PIs
3.1 Are responsibilities for managing and monitoring the project clearly understood by each of the parties involved?	<ul> <li>What is the respective roles of tie, CEC and Transport Scotland in the trams project</li> <li>What is the role of the Trams Project Board?</li> <li>Who is represented on the Trams Project Board?</li> </ul>	<ul> <li>Interviews with tie, CEC and Transport Scotland</li> <li>Review of Trams Project Board terms of reference</li> </ul>	• auditors	
3.1 Does tie have adequate arrangements for managing and monitoring the progress of the project?	<ul> <li>To what extent does tie have:         <ul> <li>Clearly defined project management arrangements</li> <li>Sound financial management and reporting arrangements</li> <li>Active risk management procedures?</li> </ul> </li> <li>How often does tie report to the Trams Project Board?</li> <li>Do the reports provided give a full and accurate summary of the project's progress?</li> </ul>	Interviews with tie     Review of changes since first AGS report     Review of relevant briefing reports etc	PAG, auditors	Number and frequency of reports to Trams Project Board
3.2. Does CEC exert sufficient oversight over tie for managing and monitoring the project?	<ul> <li>What arrangements are in place to allow CEC to monitor progress of the project?</li> <li>What information on the project's progress is provided at full council or relevant committee meetings?</li> <li>Do the reports provided give a full and accurate summary of progress</li> </ul>	Interviews with CEC     Review of relevant briefing reports etc	• auditors	Number and frequency of reports to council and relevant committees

	made?		
3.3 Does Transport Scotland have robust arrangements for appraising requests for funding and for reporting the project's progress?	How often are funding claims submitted?	Interviews with     Transport Scotland	Frequency of funding claims
	<ul> <li>What information is provided in support of claims?</li> </ul>	Review of funding claims and monitoring	
	<ul> <li>How does Transport Scotland validate claims for funding?</li> </ul>	reports  Review of internal	
	What external support is sought to help in claim validation?	briefing papers etc	
	<ul> <li>Have any concerns been raised about the quality of funding claims and their validation?</li> </ul>		
	How does Transport Scotland report internally on progress with the project?		N.