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10	139		Utilities diversion outline specification only from plans	Uncertainty of Utilities location and consequently required diversion work/ unforeseen utility services within LoD	Increase in MUDFA costs or delays as a result of carrying out more diversions than estimated	G Barclay	High - 25.00																							
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27	164		Utilities assets uncovered during construction that were not previously accounted for; unidentified abandoned utilities assets; asbestos found in excavation for utilities diversion; unknown cellars and basements intrude into works area; other physical obstructions; other contaminated land	Unknown or abandoned assets or unforeseen/contaminated ground conditions affect scope of MUDFA work.	Re-design and delay as investigation takes place and solution implemented; Increase in Capex cost as a result of additional works.	I Clark	High - 25.00																							
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47	342		Tram alignment at A8 crossing at Gogar co-incides BT data nests/cable (main coms link between Glasgow and Edinburgh)	A8 crossing tunnel requires special design or BT data nest/cables require to be moved	Capex cost to cover BT data nest/cable move; additional design costs; delay while works to undertake move are carried out; additional tunnelling costs.	I Clark	High - 24.00																							
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MUDFA RISK REGISTER - NOV 07

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57	911	Scottish Power own and maintain a cable tunnel in the vicinity of Leith Walk that may or may not interfere with Tram construction and operation; exact location and depth of tunnel is unknown; condition of tunnel is unknown.	Presence of Scottish Power tunnel in Leith Walk requires radical solution	Tunnel may have to be decommissioned and re-laid in a more suitable location; tram alignment may require to be adjusted; special foundation solution e.g. cantilever may be required; increased capex; potential for tunnel collapse during operation and consequent disruption for tram.	M Blake	High - 24.00																						
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78	926	Major single safety incident during construction	Safety incident during MUDFA Diversions - Gas/Power/Water	Injury to employee. Delay (potentially critical) due to HSE investigation and rework. PR risk to tie and stakeholders.	G Barclay	High - 22.0																						

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7	<b>ARM Risk ID</b>	<b>Cause</b>	<b>Risk Description</b>	<b>Event</b>	<b>Effect</b>	<b>Risk Owner</b>	<b>Significance</b>	<b>Black Flag</b>	<b>Treatment Strategy</b>	<b>Previous Status</b>	<b>Current Status</b>	<b>Due Date</b>	<b>Action Owner</b>															
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102	21	Design constraints e.g. presence of other utilities, proximity of LoD boundary, diversion technical requirements etc.	Design requires that Utilities are diverted outside of LoD	Additional design; additional land purchase required and consequent contact with landowners; design may result in increased work quantities due to extent of diversions; potential increased duration of works.	T Glazebrook	High - 19 DD		AMIS to seek to divert under Statutory Utility powers where outwith LoD	Complete	Complete	28-Dec-07	G Barclay																
103																												
104																												
105																												
106									GIS used to identify diversions outwith LoDs and respective landowners	On Programme	Complete	31-Aug-07	E Cropley															
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112									SDS to aim to design diversions within LoD	On Programme	On Programme	28-Dec-07	T Glazebrook															
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115									SDS to undertake design checks to ensure diversion in LoD	On Programme	On Programme	28-Dec-07	T Glazebrook															
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