Western	Rd & Ma	inline Risi	k Register	- (Dudley R	oad)																											
Strait Markshop Sa	Threat, Opportunity or house	- /2.			Impact	Risk Category		Status Kink Start Center	4 Este Este Cound	Closure Resear Fr	recisely (duration to when effect occurs)	End Date Johan Ste risk is	Fre Miligation Assessment (Qualitative)	1 1	1:	1, 41		TOTALS	Pre-Mil Quantitative I	Cost Impact (C)	ETIJON .	427 1,127 2,78 Pre-Mit QuantitativeTime Imp	and (days)	Propose	Post Militarian Assessment (2)	included the second	OTALS IN LOSS ProfilMS Qua	10.200,601 32.200,670 millethreCod Impact (C)	2,645,336 627 Post 5	6.137 3.70 Bit Quantilative Time Impacts	O Geys) Impail Retionate	Community & Westerling Nation
			M. Description  Intereses Ground on, including ground	Casse				2 2				expected to be gone)	Probability	8 8	Pays to 1	Endres Property Parket Property Propert	ROAD Zoore (polityly	packed Probability( 2 to plan) 10 Pos	Pre M. Con	Pro Man Carli Pro	INV Pro ID	Min M. & Exhedule Exhedule Exh Pre Pre 1		Frequence Salvey () Acquess Factor passed Action Communication States () Action Communication States () Salvey () Action () Salvey () Sa	Proba d d la di accept d d d d d	S S S S Share	Ped Ped	Mi. Cod Peel Max Cod P	MV Peed 2-1-	Ein Mi Enhedule Ma Peel Peel Ma	Min. 67,103 for additional or	mata .
DR: Western 001 Read	Total	Undorsease different Control of Control Con	ig shength may be id binn that believing afthe Construction (the construction (the construction) (the change of the design.	Limited CF carried to construction.	works. Additional coals may arise to mouse should integrity.	Tendenced & Engineering	Construction	Open Maner Ju	e2l		Jan 21	Apr 22						70%	21,790 21,79	60 60,379	27,238 09-401	28 28 :	Original costs appreliesed 71%.  M.S. 2018 of an filtering state of the state of th	Continuing to the continuing t			80% 21,790	21,790 68,370	10,100	28 28	plus 2 seeks shieya in carbi priline (E-60.000 per well ML-17/100 for adultiment meh. 7-8 T seeks feldings in carbinal peritine (E-60.000 per well Max 121,163 adultiment meh. E weeks carbinalise Prefere E-60,000 per week	u plan lar en in plan i glan
DN: Marine	Total	United States Considered Consider	treasen Ground m, including ground ig alteright may be of from that terring other Construction (Freedouthon SCh or	Limited CE carried to sorelination.	Delay construction works Additional coals may also be secure abustual stegsty.	Technold A Engineering	Construction	Open Maked Au	g22		Aug 22	Apr 26						70%	66,370 65,37	19 196,110	81,713 DR-801	7a 7a 2	Original costs appertioned 73%.  It is 27% BWT on following basis  BMS C7.70 bit additional under plant  2 ments distings in contribute profess  (If ES (ES) DO per season.  2 ments distings in contribute profess  (If ES (ES) DO per season.  2 ments distings in contribute profess  2 ments distings in contribute profess  2 ments distings in contribute profess  4 ments (ES) (ES) per season.  Max (ES), (ES) and per season.  6 ments contribute of ments plant  6 ments contribute of ments (ES)  ESC, (OS) per ments.	Continuity to consider the continuity of the con			NOS 40,370	63,373 396,110	86,678 1	7.8 7.8	\$600. \$27,003 for additional as plan 2 weeks distance in confidence in confidence in confidence in the	into. Sector etc. Se piton citr
																							@ 600,000 per sents.  Mai: 121,000 additional works plus. 6 sents confident Prettins @ 610,000 per sents.  With minor additional works. Contidents had assess to 070						Н			
DR: Western DD Read	Total	Unforesees gro Ground discour- Conditions-CPO such as Land cell (Cells		required.			Construction	Open Mater Ja	e-21		Jun 21	Apr 22						10%	1,000 80,00	100,000	28,147 09-402	30 100 ;	ESI, 000 per seek  Bits minur additional works. Contribute hald ancess in CPO areas print in control and ances Mi say I hancement with undertiffed source of control award chap  Max Inthe in company provided a source of control award chaps may be a source of control award chaps which is a control award chaps which the control award chapter which the chapter which the control award chapter which the chapter which the control awa	Unian			29% 1,000	80,000 100,000	и,на :	30 133	Mice minur additional month Contributor had accept for acceptant acceptant acceptant Michigan Talenta acceptant Michigan Talenta acceptant Michigan Talenta acceptant Michigan Talenta acceptant acc	tartisd d
Office Maletine	Total	Unforesses gro Ground discour Conditions - CPO such as Land cell (Cells	may be unformers and conditions and on the CPO land a contamination, sell lans. Poor CBH onto Beating Falloy	Areas of land that will be purchased as part of the DPO that its not custedly emedity the council and a such the custed state of the land is not known.	More work required is put the land in a state that it can be used. Additional materials required, some time and additional costs until the incurred.	Tendrossal & Engineering	Construction	Open Mater Au	g-32		Aug 22	Apr26						254	80,000 160,00	00 40,000	H,333 DR-603	20 100 :	Min. No reports are available prior to CPG therefore assume several basements etc. conduting seats dis.  ML say 1 basement continue hazardous seats / material etc.  Mai: substantial areas requiring	All surveys  uninframe with the  exception of the  exception of  antifer and Coast  fatting produced  for the produced			NO% NO,000	160,000 400,000	M.333	30 100	Win. No reports are australes y CPO Stendars assume ser- basements etc. containing or etc. Wit. say 1 basement conta- hazardars unaber resident Mass substantial ames rep- remediation of little days.	dor to sal sale store store saling
Df: Weden	Total	UED UID date		mpond			Construction	Open Noted Ja	ež.		ae 21	37542922	-						1 2.00	0 400	100 05.003	, ,	Mini Clini and driay viscorded by suremed todays and programms faul Min 1 DIO decisional causing 1 day Max 3 UKDs decisional causing 2 days driay					2,000 4,000	100	, ,	With Cost and disky absolute author to the control budget and programm a section 2 Mr. 1 LOC deconveré section 2 Mr. 1 LOC deconveré section de control section després despré	
OES Read			ing construction in	a maderate area for UIC discovery	In the contractor Delays to programme			Water										1					Max 3 UKDs documed causing 2 days delay								Was 2 USD's decommend countries of the c	mg 2
DN: Martine	Total	uso uso da	may be discovered to be	making shody carried out i tecender 2018 indicated i a a minimiste ama for USC discovery	Possible stand down compensation costs to the contrastor Delays to programme	Endunmental	Contration	Open Mater Au	g-22		Aug 22	Apr 36						-	1 4,000	0 10,000	300 094-003		Mix: Cool and belay absorbed by custed budget and programme final ML-1 COO decemend causing 1 day diday Max 2 UKDs decemend causing 2 days belay	Record operation to produce and continue of continue of continue of the continue of contin			8% 1	6,000 12,000	300		With Cost and distiny allesde correct leadings and programs \$1.1 LDC discovered carrier; \$2.2 LUCTs discovered cour- days delay.	el by e find (1 day sing 2
DM: Martine	Total	Insufficient There is, funding for CPO Innol on and claims Coust polerital & Tara only	nay be an instructe in operation cools and dictions arising from the CPG.	here are a number of CPC required to allow for the software to commence	Increased funding requirements Delay is programme	Funding	Matutory undertakings	Open Maker Ja	a-21		Jan 21	Aug 22						20%	1 75,00	200,000	31,300 01604	1 40	Could and Tara Moleon only Min inter Will learned on personships of existing allowance any ETM Man has do on personships of existing allowance any ETM Man has do on personships of existing allowance any ETM Man are Mill learned on personships of existing allowance processings of existing allowance. The	The continues with the continues of the			20% 1	79,000 300,000	28,000	1 40	Corel and Taro Motors of Minimum of Minimum of Minimum of Minimum on Minimum nay (7)  Was leased on proceedings which was a first manufage absorber on any Error manufage and	ety of to to to to
DN: Maintine	Total	NEM: Insufficient There is, funding for CPO land as and claims for potential Treatment Centre	tay be an incimate in inputation cools and illustrate along their the CPG.	here are a number of CPC required to allow for the software to commence	Increased funding requirements Delay to programme	Funding	Malulony undertakings	Open Maker Ja	e-21		Jan 21	Aug 22						30%	1 266,00	00 1,000,000	128,000 096-004	1 40		Negotiation with Salasi Villator Mar-21 properly sensions			20% 1	295,000 1,000,000	194,167	1 40	Treatment Centre and Manager  ME. Installer  Me. In	in in
DR: Maintine	hoa	Objection to These or Croken In a				-		Open Mater Aug			Aug 21	Aug 22						804	200,000 200,00	00 400,000	133,333 04-001	100 100 ;		Triping in  regulated the programment in a  prog			30% 200,000	200,000 400,000	80,000	100 100	India By Min 1M Min 1M Min 1M Min 2M India Min 2M India Min 2 M India M India Min 2 M India	N the manuel, the 7 digestions to 1 redox trades.
DN: Martine	Total	Lee Rothesy Solvey Bridge widening of accord	y bridge red capatite ministrating telephone carriageway	The cantage needs to be tiden, physical structure is a bridge word be change and the distribution of boal off change. Passpel may require to be strengthened. The cantage needs to be	change the bridge to support the cere had datebalan. The cannot may not be able to obtaining	Tenhrosal & Engineering	Approvate Legi station	Open Mater Ap	pr 24		April	Apr26						10%	1 800,00	00 3,000,000	116,667 DR-007a	20 80	Assemptions made with regard to spended with These examptions may be Moorred.  BCC will need to reality Min. It nating regards  BLankstead series and protein @  Who abilities design and	Agen recoloring and parties and parties and parties and distant Vision Exp-21			2% 1	835,000 3,000,300	88,338	20 60	Assumptions made with re- to spanded with the to spanded with. Thes assumptions may be insen- 180 BCC will need to resilt Mis. C1 solving require Mis solving dealer and or Will solving require Will additional design as	mol. by a editor
CIPL: Maletina 0075 Maletina	Treat	Lee Canal Bridge Const to widening decem					Approach Lags status	Open Rideri Aug	g21		Aug21	Aug 22						254	100,000 2,000,0	000 8,000,000	473,333 DK-0076	20 20	W. saletieful serie and prelits ()  Was additional design and conditional design and conditional design and period  Wit additional design and conditions wishs smalling line design line in the condition wishs smalling line design.  Was additional dissign and	Professionage, additional AP for design and early tout. Water Vanner Jan 22 design.			20% 100,000	2,000,000 8,000,000	473,333	20 20	Mine additional design are combination within program of the combination within program of the combination and the combination are combination or combination and combination and combination of the combin	Premit reduced du gibns sering undertaken
DN: Martine	hoa	Spring HEI Bridge Const to widening solds	unings and capables of someonialing the beauting many.	The carriage needs to be tides, physical structure a e bridge word be change and the distribution of bool will change.	change the bridge to suggest the cere load datefaction. The searcal may not be also to obtaining bridge for the change	Tenhonal & Engineering	Approach Lagr status	Open Maner Jul	e-21		Jun 21	Aug 21						80%	160,000 160,00	00 330,000	104,847 (39-004	20 20	Win-Trail kerks including 1 month of sortisation perions. @ £40,000 Sk. Tost kerks including 1 month of auctivactor perions. @ £40,000 Max Exits sortion dismission including 2 months of auditorial perions. @ \$40,000	d Janois (pergitopal ky Majarjas) krapatar Jahra Ziell Ziep-21 Adr and assessment			29% 160,000	160,000 320,600	6,335	20 20	Min-Trial kerke trabuling 1 mm contribution prettine (E. 60). Mr. Trial feather trabuling 1 mm 40 contribution prettine (E. 60). Min-1 Each a trabule disease trabuling 2 mm/s of contribution (E. 60). prettine (E. 80).003	600 rath-of 000 ran malter
DN: Martine	Total	Cd cost estimate Statistics and programme programme	iry underlaken C4 d extension and sesses not realistic	Utility diserviors distalled extinute required	Tos could cause programme delays and increased couls	Finance	Approvate Legi status	Open Maner Ja	m-20		Jan 22	April						20%	1 279,00	00 794,000	112,000 091-009		Original costs appertiseed 78% Mis & 20% MIS on following basis Mis Cost attended by custed bodget fluid Mis 20% 87 cost increases Miss 20% 87 cost increases No programme delays identified	Program (restriction of Cale and American) white Book Jan 222 2022 in the Book Jan 222			20% 1	379,000 790,000	75,000	0 0	Win Card abouted by our bodget food   9 Mr. 20% ET and momen  Max: 60% ET and momen  No programme delays blan	in in in interest
OR Weden 000 Read	Total	Of to CS cool Statute editeate and cool programme program	ory underlaken C4 disclandin and anames not realistis	Utility absences detailed entireds required	Tos sould cases programme delays and increased souls	Pinance	Apprount Lagr status	Open Maner Ja	42		Jan 21	Apr 22						75%	1 196,00	00 400,000	128,800 09-009		C1 dim visits for weathers Hel todai. BC 0 ML 1 stands WC 4 results	Westerland in Combined State of Commission o			305 1	100,000 400,000	11,334		0 El des stats for unables fid i BC 0 BL 1 month WC 4 month Enteling costs below reduce	dat.
0% Medica	Treat	Detailed design Chang shanges C4 notice estimate di	ges required to C4 main as a result of initiated design	Cits will be suil of date by the liste the substitut stade	Ownal cost shange and paracitie coope shange	Finance	Other Littless	Open Maker Ja	-2		Jan 21	Aug 22						204	1 185,80	00 371,000	27,000 09-010	1 20	Existing containence medicand by 29%.  With Contained obly stimuted by current bodget and programme facilities of MC 200,000 resholds of weeks of programme delay.  Nata: EXECUTION TO ANNO 17 to ments of programme delay.	Lank to resonance changes of included Walness Aug 22 design.			185. 1	187,500 276,500	28,128	1 20	Existing costs below reduce 20%. Who Cool and delay describe curred bedget and programm ML42000000 multiple of an programme delay. Mac 2000,000 including 4 and of programme delay.	E by a bad na of weeks
GN- GTI Maintine	Total	Price Increase There is between C4 and between C8 estimate	may be an increase in the CE and the CE extresion	Utility companies are estible to be paid their ashalf soil	Tos conté cause programme delays and increased conte	Finance	Other LASSING	Open Mater Ja	- 20		Jan 22	Apr 26						20%	1 279,00	00 760,000	78,800 096-011	1 20	Entiting confinite tow reduced by 29%.  Who Cost and deby alcovered by same longer and pagement find Mr. Price branches of \$1.00.000 totalizing it weeks progressive Max Price branches of \$1.00.000 totalizing it weeks progressive Max Price branches of \$1.00.000 totalizing it weeks progressive deby the price of \$1.00.000 totalizing it weeks progressive deby \$1.000 totalized \$1.00	Professional Arts Earl Apr 28 delice protects			20% 1	271,000 700,000	75,600	1 20	Entitling costs below reduced 20%.  MincCool and other absolute as a second today absolute as a second	
DN: Maintine		Linked Buildings Linked			Additional prolection measures may be my and		Contractor	Open Nobel Au	g32		Aq22	Apr 26						80.	1 20,00	00 NJ,000	16,667 09.076	, ,	Max Price monage of E1 and including 8 areas progression of exp and additional works required as the E2 and				30% 1	20,000 80,000	19,600	, , ,	Max Price transact of E1 training E seeks programme Men. Buy no additional war training to the E1 training of E2 training E2 training E2 training E2 training E2	
CPL Maintre		Anhassingical Annua				Enduranta	Construction Approved Lagi status	7 7	-		Aq22	Apr 26			7			10%	1 30,00	0 20,20	11,000 09.017	, ,	Grighted code approximated FRN.  Original code approximated FRN.  M. R. ENV. WH can fedirecting basis  M. R. ENV. WH can fedirecting basis  M. I. Berry Will can fedirecting basis  M. I. Berry Will confirm to the control basis  M. I. Berry Will confirm to the control basis  M. I. Berry Will confirm to the control basis  M. I. Berry Will confirm to the control basis  M. I. Berry Will control of control basis province  M. I. Will contr				105. 1	33,000 300,000	11,000		EJOS (agenes JO shape to Maria)  Original costs apportiumed  No. 8 197-WH on factors  Mill Cost And Cost of the Co	
0% Weden 917 Road	Total	Anthropical Anthropical artistacis ma	emingral artebuls by he discovered	adjaced to area of potential archaeological bitared	Programme delays	Endunnerial	Construction Approach Lagi status	Open Money An	n.N		Jan 21	Apr 22					٠	10%	1 13,60	100,000	3,667 09.407	1 1	Original ceals appartised 75% M. 6. 23% Will on following bases Min. 6. 23% Will on following bases Min. Color and dainy almosted by samed bedget and programmer follow. Mr. I work of contribute pretine (E. 600,000 per work.  Wat: 10 works of contribute pretine (E. 600,000 per work.)  Original ceals a page-force of 80%.	Follow Standard  Friday Standard Fided Vision Apr 22  Stology			10% 1	13,000 100,000	3,447	1 1	Original costs apportions of No. 8.21% Will no federating Mini-Cost and delay about Mini-Cost and delay about Mini-Cost and programme ML. I mank of controllarly part ESE (50) per seet. Mars 13 ments of controllar pretting (§ 6.61,000 per see	
Offi Wednest 918 Road	Total	Friday Summer Su	willed discovery of an immains sharing solicition due to according to shough	ite is adjacent to charate	A license is required to sensor the bodies which could lake 3-6 reselbs.	Endunnerial	Construction	Open John Ja	n Z		34121	Apr 22						n	10,000 13,00	10,000	808 016-018		Original cash appertioned 60% Ms. & 50% WN (1 patential garantees on each project of the first original or sease of the first original ori	GPR will be carried and Padent Warrier Apr 22 and a second and the production and the second and			\$16 16,000	13,000 10,000	800		Criginal code apportioned Ms. A 80% SER ( ) protectly gravestic an each project for a seal of the series of faithwesting Backs.  Good of Internet modelless ( programme chicky are the series) are series as would be able to proceed an extendity of the time.	of work
0% 018 Maintre	Total	Pide Evavestes son pre	erital discovery of an amazine during solitoristics due to accordy to observe	lie is adjacent to churche	A literate is required to entered the leaders artists could lake 3 6 resetts	Endunental	Construction	Open Staff Au	· 23		Aug 22	April						п	10,000 13,00	10,000	809 076-078		Gregoria costa apparetioned 80%, M. A. 80% WHI (1 patential gravesties on each project) on Malantesia costa and State of Estimates patential on Estimates patential on programme delay as the sector would be able to proceed and south would be able to proceed and south model to down all the time the license is utilizated.	GPR will be named and by contribution  Whent Warner Apr 36			8% 16,000	15,000 15,000			Conjugat couls apportioned Mr. & APIC MPE ( ) present couls for the properties of Mr. & APIC MPE ( ) present couls project for the mean meaning for all the form of the form o	MPS of GRAN of World Street
		Tulk	o nanagement as	uning construction 6 lanes will be narround into 2 som. This could affect the decimes impaired for	This could show down traffic and require the																		Original costs apportioned 78% Ms. & 28% MR on following basis Min Cost and delay also steel by								Original costs apportioned Mr. & 39% Will on federating With Cost and delay absorbe	to 1 1975. § Banks and Day
OTE Martine	Treat	Traffic speci Management shows	ded in the tender ments in ne tanger acceptable	emergency witholes as access into had office hospital needs to be maintained Cear Air Zine Enhance sould lead to recreated traffic in the area	traffic management methodology to be received Children to programme	Approximit agis	Construction	Open Maner Au	<b>932</b>		Aug 22	Apr26						40%	1 79,00	300,300	90,000 004.019	1 10	tourned loadingle and programmen float ML-17th Increases in Tuells stansagement maplement plan 2 ment olday Max 40% recessor in tuells management maplement plan 10 week delay				405 1	73,000 300,000	80,800	1 10	to come designed and programme MA_TOPS horsease in Trust MA_TOPS horsease in Trust management requirement pri management requirement pri management requirement plu management delay	m z bi m 10
DN: Western 019 Read	Total	Yadha Salla Managament dasar	to management as dead in the bender ments in a re langer acceptable	using construction 4 terms will be narrowed trip 2 some. You could affect the access required for emergency whiches as access tole had of the hospital needs to be marked by	This could slow down traffic and require the traffic rearragement methodology to be restricted.	n Approximit ages allon	M Construction	Open Maked Ad	nd.		Am 21	Aprill						40%	1 20,00	10 100,000	16,667 09.019	1 10	Original costs apportioned 75% Ms. & 25% MH on following basis Min Cost and delay steaded by ourself bodget and programme hast MS-12% increase in Turks management explanation julius 2 soon delay				en 1	25,000 100,000	10,867	1 10	Original costs apportuned Ms. 3 TV-SV on Activation Bits Cool and only detailed Ms. NOT SV on Activation Ms. NOT Somewhat Ms. Market Ms. diffe Somewhat Activate Ms. diffe Somewhat Activate Ms. diffe Somewhat Activate Ms. diffe Somewhat Ms. diffe Ms. diffe Somewhat Ms. diffe Ms. diff Ms. diffe Ms. diff Ms. diffe Ms. diff Ms. diffe Ms. diff Ms. diffe Ms. diff Ms. diffe Ms. diff Ms. diffe Ms. diff Ms. diffe Ms. diff Ms. diff Ms. diff Ms. diffe Ms.	TRYS. Seath of by in fluid for fan 2
																							management explanment plan 2 wank delay Max 420 terranan in turbo management implemental plan 10 management implemental plan 10 work delay Min #20,000 contactor could to work entered total fluorental may amount total fluorental may amount total fluorental						$\vdash$		Miss. 6/1/s received in test management projectional phi ments delay Miss.E20,000 conferender con- ments around found founder requirements.	da da
DM: Martina	Treat	Disruption to There is the four in the fou	may be disciplion to di bustinesses during innabustion phase as	could count disruption to business day to day citation due to baffic joins also.	the could had to sheed discent code if we need to resulte any public toward	Harton	Construction	Open State Au	933		Aug 22	April						70%	20,000 84,00	100,000	38,867 09.000		Min 270,000 conductor contin to work second to seconds. See the second to the second t	Bladwinder Mildel Warrer Apr.38 supplement process.		1	N0% 26,000	83,009 100,000	26,330		Min.E21.000 contributor con texts around based business Min.E8(000 contributor con and around based business and around based business Min.e1/00.000 contributor con texts around based business around based business businesses de busy bited	native d
DN: Martina	Total	Traffic Traffic Management Approvals	thi management oth may be obtayed	There are stabulary requirements around requesting approach	Programme delays Additional shall barring conds may be require	Approximit ages	M Construction	Open Prime Au	g-33		Aug 22	April						70%	30,600 126,00	00 301,000	100,000 091-021	s 20	Original ceals appertised 75% ML & 25% MR on Advancing bases MR: 1 seek of continuing bases (MR: 1 seek of continuing position (\$40.500 per seek (\$40.500 per seek) (\$40.500 per seek) (\$40.500 per seek) Max 10sexts of continuing position (\$40.500 per seek)	Plan and programme and to back July State  of required approxima. Auto State			M75 30,000	120,000 300,000	75,000	. 2	Original code apportiumed  M. E2PV-WM on federately  Bits 1 sents of contractor pre- gation 1 sents of contr	Sauth Sauth Sauth Maria Marian
SM: Western S21 Read	Total	Table Tul Management approx Approvals	this management on may be obtained	There are stabulary requirements around requesting approach	Programme delays Additional staff training conds may be require	Approximit ages	M Construction	Open Prime Ja	-2		Jan 21	April						20%	10,000 40,00	100,000	38,800 09.001	s 20	Original ceals apportioned 75% M. S. 25% MR on Advantage basis MR: 1 based of instructor position (60% MR: 2 based of instruct	Propol on ofe and contacts on the set to the			70% 16,000	43,000 100,000	30,000		Original costs apportuned  Mr. 8 29%-WH on following  Whi 1 week of contributor yes  (\$65,000 per mess;  Mr. 4 weeks of contributor yes  (\$65,000 per mess;  Mr. 5 weeks of contributor of the  Mr. 7 weeks of	
DA. Martina	Total	MCC Resources of cape selling R	of consume to become analyzed conjugations and conjugations and conjugations and conjugations are seen to be a seen to be	During propert life system people may leave. The propert reads to from key staff ong GIS uses maybe competition to key reasonable to be seen people major programmen, sook as 1612.	Putertial need to pay contractor tens to come any short talls.	Pancusias	Design	Open Maker Ja	a-21		Jan 21	April						30%	100,000 160,00	00 200,000	80,000 000.003	30 40	(\$60,000 per ments  With Approx cool of 1 amplityees per  Yet yet 12 months  Was approx cool of 1.8 employees be	Manufactury processing processor or two processor or depth of the control of the			30% 100,000	180,000 240,000			(\$60,000 per ment.)  Mile approx cont of 1 employee  Mile approx cont of 1.0 employee  be 12 months.  Mail approx cont of 1.0.	3
DR Wedon	Total	BCC Resources of cape selfon fi		During propert life spote			Everyn	Open Maked An	e21		.ae.21	Apr 22	). 					201	80,000 80,00	100,000	28,800 09.023	20 40	What is award anythyses  Whit approx cost of 1/2 enginyse per part  80 Wh. approx cost of 1/2 enginyse for 1/2 marks  What award enginyse for 1/2 marks	S Medical dary creating Patient Warriar Ad-31 constraints			30% M(,000	83,000 130,000	20,000	n 4	Max. sureral employees  With approx cool of Y2 employees  or year  or year  Mx. suppost cool of Y2 employee  Mx. suppost cool of T employees  Mx. servicel employees	
DA MARINA	Total	Additional CPO Torontonials Access					Approach Lagr	Open Midwel An	-2		Am 21	Aug 22						80%	-200,000 -129,0	100 -1	41,000 09.004	. 11	Opportunity as CPO abreedy budgeted we may not need to go to to CPO abreedy budgeted we may not need to go to CPO abreedy to CPO abreed as CPO abreed as CPO abreed as CPO abreed as CPO abreed to CPO abreed as CPO abreed to CPO	Britantides Inspection of process The Million Could Plaint Waters Emp.21 Ent. page 1 American			N75 UNI,000	438,800 A	4.00		Upperfusibly as CPO attention to the control of CP alternation (CP attention of CP att	edy d to go
																								Cost instructions Value argumeting								
076 Western 928 Road	Total	Target Cod Drutop Exceeded scoon	record reported to PRIC	ohangas in scope	Increased cooks and Programme Delays	Finance	Design	Open Maner Jul	2.21		An 21	April						80%	00,000 0	279,000	38,800 096.008		Target coet contrast 20% agint 80 / 80 on Ehn capped at 120% 80 of 20 MG #220 MG #220	conscions to the parameter of the parame			80% -30,000	4 201,000	33,400		If on Elm capped at U BC - 425 WC 6239	
ON Martina 035	Total	Yanget Cod Director Exceeded success	and target cost may of cost reported to PRIC	edge direlopment cause changes to scope	Changes in scope ; increased costs and Programme Delays	Finance	Design	Open Maner Au	g-23		Aug 22	April						80%	40,000 0	871,000	117,000 094.000		Target coals contract 20% agest 80 / 80 on this capped as 100% 80 of 80 on Mai 20 WE CETS	Continuous anguestag continuo territoria (Victoria engineentag continuo territoria continuo per parti fingliare del continuo per parti di continuo per parti di continuo per parti di continuo per parti di continuo del continuo			90% -90,000	0 875,000	W7,800		Tempet cost contract SPILays  80 on Chin capped at 12  90 CHIN  Mu ES  WC CHIN  Original costs apportuned	
DM: Martina DM	Total	Administration and the conditions in	e may be adense or conditions (Mose as 1 in less year occurrence )	orbinichally more than 1 is 30 year advices weather needs are covered by the obset	Additional profess	Endonnertal	Construction	Open Mobel Au	g-33		Aug 22	April						10%	1 38,60	240,000	1,000 01.004		Original ceahs appertioned 75%. M. s. 25% BHC on Advancing base Min Color and dainy absorbed by earmet budget and programme face Min 1 was of combining positions (\$0.50,000 per tenes. Max. 8 works of combining positions. (\$0.50,000 per tenes.)	Continuetor to Make manimister procedurate to process procedurate to process and the process of			10%	30,000 340,000	1,000		Original code apportioned Nr. a STV-WE on following Min Cod and othery should not committee to the committee of committee of code of c	back of by a Tool from
DR: Western DR Read	Total	Adverse weather motive conditions. To	e may be adorno or conditions (More as 1 in ten-year occurrence)	orbinitisely more than 1 is 10 year advance smaller needs are covered by the obsets	Additional profess	Enguneeta	Contractor	Open Mater Ja	e21		Jan 21	Apr 22						10%	1 19,00	10 80,000	3,800 09.004		Original coats apportuned 78% Mr. & 28% MR on following basis Mr. One and disky advocated by surrest budged and programme fluid Mr. 1 week of collector parties (()(85),(00) per seek.	Contention to take maximize of the production of			10% 1	10,000 80,000	3,600		Original code apportrand Ms. 8 37% Will on following Mile Cool and diday alreads cornel Sodyel and programs ML1 seem of continuity programs (ML1 seem of continuity programs (ML1) are con	ond by one Book where
DA Martra	Total	Infernal BCC Internal procedures no	approach from MCC As	unenna idenal approxi reposal	Programme delays	Approximit age	- AMERICAN -	Open Maket As	en		An-21	Aug 22						85	1 100,00	00 200.000	45,500 DM-027	, ,	Was 5 works of controlled patients © ECC 200 per week  MintCleal and delay allowed by covered beingte and programme from the 5 works of delayed and the 5 works of delayed and the 5 works of delayed delay sorts © ECC 500 per week plant allowed south ECO 50				MN 1	100,000 200,000	10,000	1 20	Max 8 areas of contenting and general section of the contenting and general section of the content to depth and programme Max 8 weeks of informed adding content 1000,000 section 1000,000 sectio	
OPL OTS Martina	Total				Additional works and	Boque		Open Maner Ja			Jan-24	Apr 26						20	1 190,00	00 300,000	38,800 08-008		outh E0.000  Nex 15 seeks of detand delay outh @ C10.000 per unest plus dende outh £ 100.000  Mile 2000 per unest plus dende outh £ 100.000  Mile 2000 E718 perfora a 2 aks Nex E000 1 month protons	Entered months to the deposition for the state of the sta			105 1	190,000 300,000	10,000		ounds 100,000 Max 10 settes of internet de contra (E 10,000 per words. Jacobs contra (E 10,000 per words.  Max E 2008 1 months periods.	day plon. 3 MAs.
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035 Martina		Irradio Species Tracts	-			i Engunenta		Open Maner Au			Aug 22	Apr 28					'	8%	10,000 40,00	100,000	38,800 094.600	' '	Mini Circl and delay almosted by current budget and purposenon facilities. See 100 of additional counts for degree and de			1	30% 16,000	43,003 100,000	16,600	1 2	Mini-Coal and delay absorbs someth bodget and programs the state of the programs day and and departs (2 day of the at 1900,000 for all and disquared (1 day delay) Mini 3 weeks of before cool- ability (8 15,000 per week	
OR Martin	Treat	Needing Street Annual A	_			Engunanta		Open Plates Au			Aug 22	Apr 23					'	10%	20,800 e3,60 10,800 83,60	100,000	15,313 09.400	10 20	Max 3 weeks of bilimate cocks and only (2 12),000 per sens.  30 is sent of bilimate could not all the could not be sent of the could not be sent on the could not be sent on the could not be sent of the could not be sent of the could not be sent of the could not be sent on the could not be sent of the could not be sent o	Neuron Angeling John George John George John George John George John George Commenced George Thinking Read Wasse Annie			M7% 20,000	63,003 130,000	33,338	10 20	Min. 3 weeks of bitmed costs daily (£ 15), 200 per use daily (£ 15), 200 per use daily (£ 15), 200 per use district costs. daily (£ 15), 200 per use	
DA. Marina	Total	Pattical Influence Public Inqui		trees in close proceedy to		State		Open Maket Ja  Open Maket Au			Aug 22	Apr 26						20	10,000 HI,00	20,000	71,000		90 Ms. EID (DIO of shallound requested of Ms. EID (DIO of shallound but indicate bu	Title-finisher management Riderl Visions Apr 26  Monager as part of the femilies are early Riderl Visions Apr 26  Property of the femilies are early Riderl Visions Apr 26			10,000	180,000	73,000		10 WE 110,000 of auditions 10 Mc ENGODY of auditions Inquirements Mark 2000,000 for auditions (Mark 2000,000 for auditions) (Mark 2000,000 for auditions) (Mark 2000,000 for auditions) (Mark 2000,000 for auditions) (S I for audition and approximate Install S I for audition and a for a for audition and a for	Ex 60 distant
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		Property		potential of crime Menchets or mendans of public may not be happy with the making methodology and result to stateme etc.  A large construction side scale to the north west of				Open Maked Ja			_est							-	30,60	m, 000	04.80			professed PAGES VANISHE Apr. 23			10,000					
Office Western Collan Road	Total	Propertinentaries in the Dr. Propertinentarie				Recourses	Construction	Open Mater As			Atr-21	Apr 22					•	80%	1 83,00	240,000	83,334 09-6134	1 10	MiniCord and delay absorbed by current budget and programme fluid M. 7 weeks of contribute pretines costs (E.ES.0.03) per week. Mini. 8 weeks of contribute pretines costs (E.ES.003) per week.	Coordination making Middel Warner Apr 32  Coordination			30% 1	N3,000 260,000	32,000	1 10	Mine-Coal and delay denotes some delay denotes to delay adapt and programs of the coal and programs of the coal and the co	
DN: 033b Martina	hea	Propert Interfaces may be constituted to a	number friend Schools Stronger Owners of the stronger of the s	A large construction side scikle to the north west of the development area in for the Shidand Marroyaltan Hospital yould be developed along side our projects.	American system Sale. Additional utility disensions and Suffic management costs.	Posturios	Contration	Open Maket Au	<b>423</b>		Aug 22	Apr 26					•	26	900,000 6465,00	00 K00,000	141,417 09-4136	60 RO	When 2 mouths of cardinates pretine (\$10.000 per week.)  With investing of controllation pretines control (\$10.000 per week.)  Max 1 Standbland cardinates pretines controllate (\$10.000 per week.)	Constitution meeting Myself time Myself time Modified to special Modified to special more actions and powerful costs.			20% 800,000	600,000 800,000	128,330	0 0	Min. 3 months of continuitur p  (E. 0.000) per seguint p  (M. 1 months of continuitur p  costs (E. 0.000 per seguint p  costs (E. 0.000 p  costs (E.	
DN- S36 Maintre	Total	TAR is read Then in payersants in each	nay be a requirement one of SAR contained they scan parametes	These is 15/4 in road paramete	Additional contamination disposal conta	Endunental	Contractor	Open Staff Au	ų-22		Aug 22	Apr 26						35%	1 27,00	90 M,000	2,700 09.004	0 0	Original costs apportuned 78%. M. I. 23% BRT on following bases Min-Cost and deby: absorbed by carnel bodget and population fact ML-10 and contamination sterrified BRL-10 and contamination sterrified BRL-10 and contamination sterrified BRL-10 and contamination sterrified	Carl correg non comprising may de comprising any comprising correct comprising comprisin			10% 1	27,000 84,000	2,700		Original costs apportuned  Nr. 8 29% WE on following Miss Cost and delay absorbs counted todays and programs  ML 10 or contamulation size you counted cost plan exiting  Mar 20 or contamulation size  Mar 20 or contamulation size	TOTAL BRAIN
DN Weden	Total	TAR is read Then is	nay be a requirement	Time is SAT in read	Additional contactingtion	Engage	Constructive	Open John Ja	-7		Jan 21	Apr 22						Me	1 9,000	0 14,000	900 DR-034		Mix 2 or to considerate territoria.  No programme desay between the programme desay between the programme desay is bleed the desay to be the programme desay is bleed the desay at the programme for the programme for the programme for the programme desay at the programme for the programme desay at the programme desay at the programme desay at the desay at the programme desay at the desay at the programme desay at the design of the programme design of the programme desay at the programme design of the programme d	Cost saving new Locyclotic and Junited a Man-Triple A man rement and a mental and a			10% 1	8,000 18,000	500		over current cord plan relian. No programme delays bles  Mr. 8 27% Will on fellowing  Mr. 8 27% Will on fellowing  Mr. 100 or organism  O MacCord and dinny absolute  O MacCord and colony plants  Mr. 10 or organism	Mad
038 Road 076 Weden 038 Road				paements Scheme will be digging		-		Open Staff Ja			Jan 21	Apr 22					0	20	2,600 13,60	-	4,800 09-001	0 0	Original costs apportuned 78%  ML 8.28% MR on following basis  Min. 613,000 increase in pollution measure costs  ML 610,000 increase in pollution				30% 3,830	13,800 28,800	4,600	0 0	о селино беобрей анд унициания М.Н. 10 об селинализациой най- изин селино сели фази нейти. МЕНЕ \$10,000 инстидиа по дой, М.К. 550,000 инстидиа по дой, М.К. 550,000 инстидиа по дой, М.К. 650,000 инстидиа	Med the Literal share of the L
DR- 035 Martina	Total	Polision EA.na Measure	ay require pullufoun measures	Scheme will be digging	Summer code	Enduranta	Construction	Open John Au	· · · · · · · · · · · · · · · · · · ·		Aug 22	Apr 26						2%	7,800 37,80	20 75,000	12,500 094.008	0 0	Obginal code appartition of 75% ML & 25% MR on fidewing basis Whit C13,000 inclinates in justificate ML C30,000 inclinates in justificate ML C30,000 increases in justificate minimum code Max: C300,000 inclinates in justificate minimum code Max: C300,000 inclinates in justificate minimum code Max: C300,000 inclinates in justificate minimum code				30% 7,600	37,800 78,800	12,000	0 0	Mine £10,000 occesses to just measure confu ML ESS,000 increases in just the ESS,000 increases i	don
DN- DNA Martina	Total	CRT requirements important or contract or	nicus requirement and by CRT during actions on utselline listing , increased string , working bours	Construction taking place on the Endges and in precently of cabusy and CPT land	Then could be received to equipment for structure mentioning, received municipal working hours or	Stanisov	Construction	Open Maner Ju	+2		34-21	Aug 23						XN.	1 73,00	00 160,000	22,800 DR-016a	0 1	Min Cuel and distry absorbed by surrest budget and programme for ML ATACOD cost of abilitized requirements (mobility) 1 day programme delay   Max 110 200 cost of abilitized implements (mobiling 35 days programme delay				20% 1	73,000 190,000	15,000	0 1	Min Cost and oling absolute current height and programs \$1.275,000 and of absolu- inguisments (policiting) in programmed (policiting) in programme delay() Mar 27300,000 and of absolu- requisments delay()	of by in final day boost days
DN: Martina	Total	MX requirements proportion during construction municipal	nous requirement and by NK during actions may observe	Construction taking place on the Bhilges and in nacintly of caless	Then could be recreated recreated to obstace over	Stanton	Construction	Open Model as	42		Jul-21	Aug 23						275	1 75,000	10 100,000	22,800 DH-008h	, ,	mequinements (moduling 15 days impropriet and control of the contr	d Stateholder Ridert Vitainer Age 34 magazinet process			2% 1	73,000 100,000	11,000	, ,	requirement (southing to programme straig programme straig programme straig control and straig straight straigh	ed by to South
	_	Parement Quality				-	-				Aug 22	Apr 26						-	30,000 73,00	+	42,800 094.007		Max 1200 and of additional imparaments (smileting 12 days programments (smileting 12 days programments days)  Min 2200 for more sufficient could be parament Min 2200 for more sufficient reports to the control of the	Apper brings process  Apper brings prints to point extension brinking quantities brinking quantities  and States				73,000 110,000		1 3	programme diding!  Max 230,000 and of ability and a particular of a programment producting 10 or programme diding!  Billion 2505, for more resulting course, to parameter did not be a parameter of the course to parameter of the course of the	days  alter  Same until the re- come Through
	_	Parement Quality	_		_	_	_		_		Aug 23 July 21			1 1			•	10			7,813 09-407		Was COOk for substantial requests to exciting passwood. Was COOk for source residingsion codes to passwood. Maj COOk for substantial request to	middle quelles.				29,000 10,000			Wat TOX for recor recording conts to payment 10 ML (23%	Zane until the ne
DN Martra		Conditioned Distays I Nation						7,1			3ap 21	Aug 23						475	1 90,00	279,000	48,000 094.009	1 20	Sea 100 to 100 t	Continuents of definitional definitional agreemant to adming across to proceed.			30% 1	90,000 270,000	38,000	1 20	Max ED: to exclusive any open Probability reduced by I Min. Some delays allowed as and accounted to in sulfar accounted to in sulfar accounted to in sulfar accounted to in sulfar mention accounted to professional parties such as \$2.00,000 pm. Was '10 works of professional Was '10 works of professional Company of the counter Was '10 works of professional Company of the counter Company of Company of Company of Company of Company of Company of Company of Compa	Arrend or of meet, oran
DN Martina	Total	Late provision of Late pro- information by by empt employer by empt	sesson of education dayer e.g TO quetes	Contractor may require inflamation from BCC e.g. Technolog queries	Chilay So poe constituction phase	Stantativ marapenet	approach	Open Maket Au	<b>933</b>		Aug 22	Apr 38						2%	15,000 33,00	90,000	13,800 09-040	10 20	Original costs appartisened 25% ML & 25% BRIS on Relieuting basis Min 2 sweets of information costs and delay @ £10,000 per winel.  St. it sweets of informational and delay @ £10,000 per winel.  Bits 12/weets of informational costs and delay @ £10,000 per winel.	Control Transfer to Transfer t			20% 18,000	30,000 90,000	1,000	10 20	Min. 2 weeks of interval costs driving @ \$10,000 per see  80 SEL weeks of identification of other driving @ \$10,000 per see  Max 12 weeks of identification of identification of the  driving @ \$10,000 per weeks	and t. cand d. ts. and et.
DR Weden 000 Read	Total	Late providen of Late pro- information by Late pro- employer by empl	odeson of education dayer e.g. TO queles	Contractor may require information from BCC e.g. Technoloid queries.	Delay to pre- construction phase	Stanton marapenet	showy	Open Model Ju	e21		Jun 21	Apr 22							8,000 13,00		4,800 09.600		Original costs apportuned 72%. M. S. 22% BM on following basis Mile 2 weeks of interest costs and following 52 Year 200 and Mile 2 weeks of interest costs and following 52 Year 200 and Mile 2 Year 200 and M	Grade Tracker to Souther openion. The monthing agent Printer State Apr 22			20% 8,000	10,000 30,000	3,000	10 20	Min. 2 weeks of internal costs diving @ \$10,000 per use Min. 2 weeks of internal costs of the state of the state of the diving @ \$10,000 per use Max. 2 benefit and a 2 divined costs shallow @ \$10,000 per use	
ON Martra	Total	Coronavirus Impo	nation outliered may of resources.	Connectus outbreak may impact on efficiency of measures, debys on materials.	Programme delays.	Possuries		Open Mater Ja			34-21	Apr 26						100	37,800 71,00		68,800 DR-042		Original costs apportuned 72% M. & 28% WR					79,000 379,000			120 Original code apportuned ML & 20% WK	4 70%
DS Weden OC Read	Treat	Constanting Constanting Ingo	of on efficiency of resources.	regard on efficiency of measures, delays on malerials.  Incid road release carved colored during key Tripli-	Programme delays	Approach Legic		Open Pidest Ju Open Nidest Ju			Jan 21	Apr 22						25	1 20,00		40,628 DR-042		Original costs apportuned 72%.  M. 6.29 Mer.  Min. No days that controller  integrated by menoperating existing programme 51  Min. 20 W. 6 (ESEN PV) for part  Max 2 Who. 95 (ESEN PV) for part  parties.	The state of the s				29,000 109,000		1 3	Conginat code apportuned Mr. & 20% WK.  Siles To days that cannot programme IT to Mr. O 21% KK.  Make 2 title gills PV for perform Make 2 title gills PV for perform IT.	
DR: Martine	Total	Accidents or PDA: Insidents occur total during propert	Os or other Police decis delay works	Unanticipated PTA's and Pullice Incidents./ Investigations on road reduck.	Programme chileys.	Approxitation after		Open Notes Au Open Notes Au	· · · · · · · · · · · · · · · · · · ·		Aug 22	April							11,000 30,00	-	20,000 09-000		y  Min say 1 day at weekly pestins sale of EFTIS PVV  Min. 2 days @ ETIS PVV pestins  Max. 1 sh @ EFTIS PVV pestins	projects  Project and the set of				10,000 40,000	-	, ,	Was told 1 day at menthy problem of \$238 PW ML 2 days @ \$738 PW per Max: 1 oh @ \$738 PW per	redires redires
Off Weden	Total	Accelerate or MAN Incidents occur (MAN during project)	Ox or other Police decis delay wates	Unerdispated PTA's and Police Incidents./ Investigations on road reduces.	Programme delays	Approxitation after		Open Mater Ja	m-21		34:21	Apr 32						20%	8,000 13,00		4,827 DE-003	1 2	The say I day at weekly profes one of CDS. PW  ML 2 days @ CDS. PW perios.  Max. 1 sh @ CDS. PW perios.	to the property of the propert			50% S,000	10,000 28,000	6,607	1 2	Min. say 1 day at unestly or rate of EDS PW ML 2 days @ EDS PW por Max. 1 sh @ EDS PW por	patin ratina stima
DN- D06 Martine	Total	Local schools and and heaptlatein addition visitely not o	proximity of exhaults hospitats require A not safety measures or condemptated and lander stage	oblitional safety measures equived during construction to suit people behaviours	Additional continuous for implemented additional crossing purels, I safely barriess edu.	Approximit again		Open Plated Au	g-22		Aug 22	Apr 26						2%	8,000 20,00	00 40,000	A,RET DROSS	0 0	Who 1 no. additional signage ML Tay 1 additional concerning and 2  Mars Tay ETS restallation of additional concerning the additional engages a 3	2 Contribution employed to compare the contribution of the contrib			20% 8,000	23,000 41,000	4,867	0 0	Minc 1 no additional organism. They I additional organism on additional organism of Mars. Easy ETEX restatistion additional conversity, ETE additional conversity, ETE additional organisms in 2 additional conversity.	end 2 and 2 and threat

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Key Merine Western Road

# QCRA Results for: Dudley Road: Mainline section

### Notes:

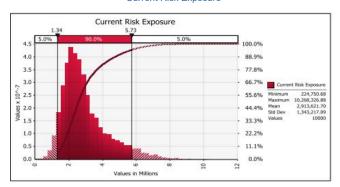
- This analysis has been prepared by Corderoy following a risk workshop held on Wednesday 09 June 2021 attended by Robert Warner (Project Manager -1 Birmingham City Council), Rachel Rock (Assistant Project Manager - Birmingham City Council), John Swift (NEC Project Manager), Paul Taylor (Commercial Manager - Birmingham City Council), Prime Kular (Consultant to Birmingham City Council) and Peter Cane (Corderoy Risk Manager)
- 2 Risks from the Dudley Road risk register were modelled and analysed with @Risk for Excel, using Monte-Carlo modelling technique, to forecast a range of potential
- The Cost-Confidence curves below indicates the Current Risk Exposure and Mitigated Risk Exposure levels of risk depending of the different levels of probability/confidence.
- The key statistical results are provided in the table, showing the confidence (% in left column) that our risk exposure will be equal or less than the value to the right (£m). These can be used to inform the Contingency required. For example:
- P50 (Median): There is a 50% probability/confidence that our Current Risk Exposure risk exposure will be equal or less than (will not exceed) £2,573,649.42 (Comparative EMV Value 2,912,398) and £1,958,530.78 (Comparative EMV Value £2,310,301) Mitigated Risk Exposure.
- 5 The Birmingham City Council team have provided data regarding the assessment (Prob & Impact) of risks in the Risk Register based on a series of assumptions at the time of the risk workshop. These assumptions, may change as a result of review and other developments.
- Due to the potential magnitude of risk DR-007a Lee Railway Bridge widening the project has assumed that should full replacement of the bridge be required (whether caused by the project or not) will be funded from elsewhere and full replacement value of the bridge is excluded from the risk register and the analysis below.
- 7 Both threats and opportunities have been included within the risk simulation exercise
- 8 Known issues have been excluded from the analysis

outcomes. The results were based on 10,000 iterations

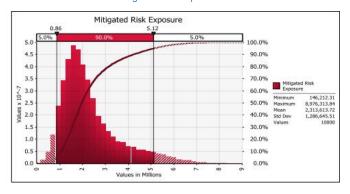
It is recommended that regular reviews of the Risk Register are undertaken and QCRA is run periodically to ensure the project risks are being managed and updated as the project develops and as more detailed information is made available

### Monte-Carlo modelled Graphs

### Current Risk Exposure



# Mitigated Risk Exposure



### Monte-Carlo modelled confidence outputs

Exposure	Pre Mitigation
5%	£ 1,338,214.13
10%	£ 1,561,351.77
15%	£ 1,722,165.37
20%	£ 1,863,716.00
25%	£ 1,991,626.76
30%	£ 2,110,329.84
35%	£ 2,217,559.02
40%	£ 2,341,278.56
45%	£ 2,458,757.67
50%	£ 2,573,649.42
55%	£ 2,712,691.69
60%	£ 2,850,134.13
65%	£ 3,021,073.85
70%	£ 3,219,566.30
75%	£ 3,494,464.79
80%	£ 3,821,477.91
85%	£ 4,285,432.93
90%	£ 4,878,107.39
95%	£ 5,727,247.94

10%	Ł	1,055,603.20
15%	£	1,195,911.88
20%	£	1,324,445.17
25%	æ	1,437,711.93
30%	æ	1,544,409.22
35%	£	1,645,377.56
40%	æ	1,747,527.83
45%	æ	1,854,634.52
50%	£	1,958,530.78
55%	æ	2,082,438.35
60%	æ	2,221,991.77
65%	£	2,376,478.22
70%	æ	2,565,387.37
75%	£	2,812,795.26
80%	æ	3,139,586.83
85%	£	3,585,339.76
90%	£	4,212,745.38

**Exposure Post Mitigation** 

5% £

862,595.55

5,119,247.81

Top 5 risks by cost exposure

### Current Risk Exposure

ID	Risk Title	EMV Pre mitigation
DR-007b	Lee Canal Bridge widening	473,333
DR-053	Additional costs for stats not accounted for	187,500
DR-033b	Project Interfaces	161,667
DR-005	Objection to Orders	133,333
DR-057	Additional requirements in order to hand back asset	128,000

# Mitigated Risk Exposure

ID	Risk Title	EMV Post mitigation
DR-007b	Lee Canal Bridge widening	473,333
DR-053	Additional costs for stats not accounted for	125,000
DR-033b	Project Interfaces	129,333
DR-005	Objection to Orders	80,000
DR-057	Additional requirements in order to hand back asset	80,000

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# QCRA Results for: Dudley Road: Western Road section

### Notes:

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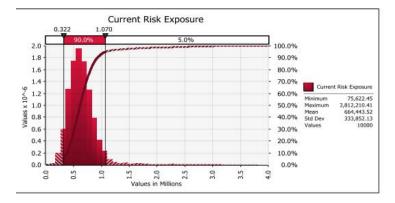
- Risks from the Dudley Road risk register were modelled and analysed with @Risk for Excel, using Monte-Carlo modelling technique, to forecast a range of potential outcomes. The results were based on 10,000 iterations
- The Cost-Confidence curves below indicates the Current Risk Exposure and Mitigated Risk Exposure levels of risk depending of the different levels of probability/confidence.

The key statistical results are provided in the table, showing the confidence (% in left column) that our risk exposure will be equal or less than the value to the right (£m). These can be used to inform the Contingency required. For example:

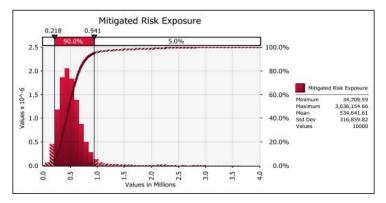
- P50 (Median): There is a 50% probability/confidence that our Current Risk Exposure risk exposure will be equal or less than (will not exceed) £615,290.41 (Comparative EMV Value £665,697) and £480,471.92 (Comparative EMV Value £534,034) Mitigated Risk Exposure.
- The Birmingham City Council team have provided data regarding the assessment (Prob & Impact) of risks in the Risk Register based on a series of assumptions at the time of the risk workshop. These assumptions, may change as a result of review and other developments.
- 6 Both threats and opportunities have been included within the risk simulation exercise
- 7 Known issues have been excluded from the analysis
- 8 It is recommended that regular reviews of the Risk Register are undertaken and QCRA is run periodically to ensure the project risks are being managed and updated as the project develops and as more detailed information is made available

# Monte-Carlo modelled Graphs

### Current Risk Exposure



### Mitigated Risk Exposure



### Monte-Carlo modelled confidence outputs

Current Risk Exposure						
Current F	KISK	•				
5%	£	322,412.28				
10%	£	378,380.93				
15%	£	419,899.16				
20%	£	451,710.40				
25%	£	481,450.02				
30%	£	510,249.82				
35%	£	537,442.54				
40%	£	562,497.25				
45%	£	591,078.04				
50%	£	615,290.41				
55%	£	640,153.37				
60%	£	668,941.40				
65%	£	696,693.20				
70%	£	726,732.72				
75%	£	761,646.16				
80%	£	802,377.69				
85%	£	853,683.18				
90%	£	923,592.24				
95%	£	1,070,459.35				

15%	£	301,171.72
20%	£	330,854.83
25%	£	357,511.67
30%	£	382,231.82
35%	£	408,024.90
40%	£	432,768.45
45%	£	456,345.72
50%	£	480,471.92
55%	£	506,610.81
60%	£	533,176.48
65%	£	560,265.64
70%	£	592,067.73
75%	£	628,184.57
80%	£	666,818.03
85%	£	716,462.69
90%	£	792,415.34

Mitigated Risk Exposure 5% £

10%

217,598.83

264,736.22

941,296.43

Top 5 risks by cost exposure

# Current Risk Exposure

ID	Risk Title	EMV Pre mitigation
DR-009	C4 to C8 cost estimate and programme	125,000
DR-033a	Project Interfaces to western road	53,334
DR-056	BIM deliverables	43,750
DR-057	Additional requirements in order to hand back asset	42,667
DR-050	Network Rail cables serving west coast main line	42,000

# Mitigated Risk Exposure

ID	Risk Title	<b>EMV Post mitigation</b>
DR-009	C4 to C8 cost estimate and programme	83,334
DR-033a	Project Interfaces to western road	32,000
DR-056	BIM deliverables	43,750
DR-057	Additional requirements in order to hand back asset	26,667
DR-050	Network Rail cables serving west coast main line	40,000

95%

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