

Additional Waitemata Harbour Crossing



Confirmed Form Option Cost Estimates

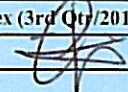
Project Estimate - Form B

OE

Project Name : AWHC TUNNEL OPTION

Options Estimate

Item	Description	Base Estimate	P50 Contingency	P95 / Funding Risk
A	Nett Project Property Cost	201,000,000	32,000,000	83,000,000
	Investigation and Reporting			
	- Consultancy Fees	included		
	- NZTA Managed Costs	included		
B	Total Investigation and Reporting	67,095,040	13,419,100	6,709,550
	Design and Project Documentation			
	- Consultancy Fees	included		
	- NZTA Managed Costs	included		
C	Total Design and Project Documentation	234,832,640	23,483,260	11,741,630
	Construction			
1	MSQA			
	- Consultancy Fees	included		
	- NZTA Managed Costs	included		
	- Consent Monitoring Fees	included		
	Sub Total Base MSQA	201,285,120	20,128,510	16,102,808
	Physical Works			
2	Environmental Compliance	30,530,000		
3	Earthworks	96,985,668		
4	Reclamation	48,004,756		
5	Ground Improvements	34,030,310		
6	Drainage	17,700,000		
7	Pavement & Surfacing	47,968,210		
8	Bridges	109,775,000		
9	Trench Structures	147,025,785		
10	Cut & Cover Tunnels	435,469,340		
11	Retaining Walls	7,958,500		
12	Traffic Services	37,789,785		
13	Service Relocations	85,113,600		
14	Landscaping & Urban Design	18,050,000		
15	Traffic Management Temporary works	145,767,070		
16	Preliminary and General Costs	1,021,011,150		
17	Main Harbour Crossing Tunnels	1,032,073,000		
18	Provisional Sums	39,500,000		
	Sub Total Base Physical Works	3,354,752,174	703,004,156	325,446,012
D	Total Construction	3,556,037,294	723,132,666	341,548,820
E	Project Base Estimate (P0) (A+B+C+D)	4,058,964,974		
F	Contingency (Assessed/Analysed)		792,035,026	
G	Project Expected Estimate (P50) (E+F)		4,851,000,000	
H	Funding Risk (Assessed/Analysed)			443,000,000
I	95th percentile Project Estimate (P95) (G+H)			5,294,000,000

Date of Estimate: 12 Oct 2010	Cost Index (3rd Qtr/2010)
Estimate prepared by Carl Viljoen (Beca)	Signed 
Estimate internal peer review by Ed Rogers and Peter Driml	Signed
Estimate external peer review by Bond CM	Signed
Estimate accepted by NZTA	Signed

These estimates are exclusive of escalation and GST.

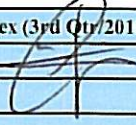
Project Estimate - Form B

OE

Project Name : AWHC BRIDGE OPTION

Options Estimate

Item	Description	Base Estimate	P50 Contingency	P95 / Funding Risk
A	Nett Project Property Cost	200,000,000	32,000,000	23,000,000
	Investigation and Reporting			
	- Consultancy Fees	included		
	- NZTA Managed Costs	included		
B	Total Investigation and Reporting	48,968,460	9,793,740	4,896,870
	Design and Project Documentation			
	- Consultancy Fees	included		
	- NZTA Managed Costs	included		
C	Total Design and Project Documentation	171,389,610	17,138,960	8,569,480
	Construction			
1	MSQA			
	- Consultancy Fees	included		
	- NZTA Managed Costs	included		
	- Consent Monitoring Fees	included		
	Sub Total Base MSQA	146,905,380	14,690,530	11,752,424
	Physical Works			
2	Environmental Compliance	36,923,750		
3	Earthworks	117,371,806		
4	Reclamation	52,236,502		
5	Ground Improvements	36,325,190		
6	Drainage	20,650,000		
7	Pavement & Surfacing	63,346,478		
8	Bridges	104,572,375		
9	Trench Structures	71,769,695		
10	Cut & Cover Tunnels	393,055,795		
11	Retaining Walls	18,188,250		
12	Traffic Services	46,111,040		
13	Service Relocations	75,361,600		
14	Landscaping & Urban Design	20,050,000		
15	Traffic Management Temporary works	140,112,750		
16	Preliminary and General Costs	745,172,500		
17	Main Harbour Crossing Tunnels	477,676,294		
18	Provisional Sums	29,500,000		
	Sub Total Base Physical Works	2,448,424,025	514,689,295	236,781,226
D	Total Construction	2,595,329,405	529,379,825	248,533,650
E	Project Base Estimate (P0) (A+B+C+D)	3,015,687,475		
F	Contingency (Assessed/Analysed)		588,312,525	
G	Project Expected Estimate (P50) (E+F)		3,604,000,000	
H	Funding Risk (Assessed/Analysed)			285,000,000
I	95th percentile Project Estimate (P95) (G+H)			3,889,000,000

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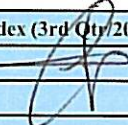
Project Estimate - Form B

OE

Project Name : AWHC RAIL

Options Estimate

Item	Description	Base Estimate	P50 Contingency	P95 / Funding Risk
A	Nett Project Property Cost	5,000,000	1,000,000	1,000,000
	Investigation and Reporting			
	- Consultancy Fees	included		
	- NZTA Managed Costs	included		
B	Total Investigation and Reporting	21,877,120	4,375,440	2,187,720
	Design and Project Documentation			
	- Consultancy Fees	included		
	- NZTA Managed Costs	included		
C	Total Design and Project Documentation	76,569,920	7,656,990	7,656,990
	Construction			
1	MSQA			
	- Consultancy Fees	included		
	- NZTA Managed Costs	included		
	- Consent Monitoring Fees	included		
	Sub Total Base MSQA	65,631,360	6,563,140	6,563,140
	Physical Works			
2	Environmental Compliance	3,000,000		
3	Earthworks	6,745,000		
4	Reclamation	13,243,930		
5	Ground Improvements	13,790,430		
6	Drainage	0		
7	Pavement & Surfacing	0		
8	Bridges	28,050,000		
9	Trench Structures	40,370,000		
10	Cut & Cover Tunnels	94,018,200		
11	Retaining Walls	0		
12	Traffic Services	0		
13	Service Relocations	1,000,000		
14	Landscaping & Urban Design	1,000,000		
15	Traffic Management Temporary works	4,000,000		
16	Preliminary and General Costs	332,912,600		
17	Main Harbour Crossing Tunnels	555,725,880		
18	Provisional Sums	0		
	Sub Total Base Physical Works	1,093,856,040	229,469,990	105,592,150
D	Total Construction	1,159,487,400	236,033,130	112,155,290
E	Project Base Estimate (P0) (A+B+C+D)	1,262,934,440		
F	Contingency (Assessed/Analysed)		249,065,560	
G	Project Expected Estimate (P50) (E+F)		1,512,000,000	
H	Funding Risk (Assessed/Analysed)			123,000,000
I	95th percentile Project Estimate (P95) (G+H)			1,635,000,000

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