Appendix 3.1 - Details of Dust Emission Sources for 1-hour and Daily TSP Assessment (Tier 1) at Year 2013

Works Area	Sources		Parameter	Remarks
West Kowloon	Heavy construction	Percentage active area, p	100 %	Assume 100% works area for heavy construction
Cultural District	Source ID: B1-B17,	Mitigation efficiency	91.7 %	Water suppression 12 times a day
	BB3-BB5	No. of working days per month, d	26 days	
		No. of working hours per day, h	12 hour	
		Emission Factor	2.69 Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate	0.000239494 g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			1.9878E-05 g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p	100 %	
	,	Emission Factor	,	AP42, Table 11.9-4
	BB3-BB5	Emission Rate	2.69533E-06 g/m²/s	=0.85*1000000/(10000*365*24*60*60)*p/100

Miles	Description	Sources	Parameter		Emission Rate	Remarks
Post (Comunication Stor) Another production of the second			Particle size multiplier, k		g/VKT	
Special continuous control of the co		points	Road surface silt loading, sL	8.2	g/m2	Mean Silt Loading of Quarry, AP-42 Section 13.2.1 Table 13.2.1-
Average flock weight, W 15P envelop hock or E No. of track figs per day No. of special hours 1100 environ 110						
Average flux weight, W 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day 15P emission factor, E No. of stuck (spa per day) 15P emission factor, E No. of stuck (spa per stuck (spa per stuck) 15P emission factor, E No. of stuck (spa per stuck) 15P emission factor,	Site)					Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of
Average fruit weight, W TSP exists in face, x No. of truck inpo per day No. of truck inpo day No. of tru						
Average truck weight, W 159 "enseison factor, E No. of truck his periodry 150 olevholdsy 150 ole						10 of Improved Activity Levels for National Emission Inventories of
File West For Laden Vehicle Fo						Fugitive Dust from Paved and Unpaved Roads.
TSP emission facts. E. No. of truck trips par day For inside the control of the			Average truck weight W	16	tone	Average weigh of the vehicles traveling the road, extracted from
No. of track trips per day No. of track trips per day For class of trips of track trips per day No. of operation hour						
900 behotsty Forwast HR7AC For			-	370.7	g/VK I	
1900 whitsty For road IFRSA 8 For road IFRSA 9 For road IFRS			No. of truck trips per day	900	veh/day	
1440 (whicklay) For road HRID A- For road HRI						
Part				1440	veh/day	For road HR9
Source ID: HR7A1, HR7B.C HR8A 8 HR9A 9 HR9A 1 HR10 AC HR11 1 HR12 A HR12 A HR10 AC HR11 1 HR12 A HR12 A HR10 AC HR11 1 HR12 A HR12 A HR10 AC HR11 1 HR10 A HR10 AC HR11 1 HR10 A HR10 AC HR11 1 HR10 A						
No. of operation hour process of Express Rail Link (Appendix C) Extracted from SP License of Express Rail Link (Appendix C) assume 12 hours of express Rail Link (Appendix C) assume 12 hours of express Rail Link (Appendix C) assume 14 hours of express Rail Link (Appendix C) assume 14 hours of express Rail Link (Appendix C) assume 14 hours of express Rail Link (Appendix C) assume 14 hours of express Rail Link (Appendix C) assume 14 hours of express Rail Link (Appendix C) assume 14 hours of express Rail Link (Appendix C) assume 14 hours of express Rail Link (Appendix C) and the express Rail Link (Appendix C) assume 14 hours of express Rail Link (Appendix C) assume 14 hours of express Rail Link (Appendix C) assume 14 hours of express Rail Link (Appendix C) and the express Rail Link (Appendix C) assume 14 hours of express Rail Link (Appendix C) assume 14 hours of express Rail Link (Appendix C) assume 15 hours of express Rail Link (Append						
Source ID Source ID Source ID HRAL HRIS-C HRAC HRIS-C HR				360	ven/day	
Source ID. H787A H78P-C H78A H78B H78			No. of operation hour	12	hr	
HR7A1, HR7B C HR8A B HR7A HR8A HR8A B HR7A HR8A HR8A B HR7A HR8A HR8A B HR7A HR8A HR8A HR8A HR8A HR8A HR8A HR8A HR8			% of dust suppression	97.5	%	
H98A-B H98B-B H9		Source ID:				, , , , ,
HR8A B HR9 HR10AC HR10AC HR11 HR11 HR11 HR11 HR12 HR11 HR12 HR12		HR7A1, HR7B-C		1 93F-04	g/m/s (mitigated)	
HRB HR10A C HR11 HR12A HR10A C HR11 HR12A L1.54E-04 g/mix (mitigated) L1.54E-04 g/mi				1.502 04	g/ii/3 (iiiiigatoa)	
HR10A-C HR11 HR12A List-Eod of lomis (mitigated) HR12A List-Eod of lomis (mitigated) T,72E-05				3.86E-04	g/m/s (mitigated)	Rail Link (Appendix C)
HRILAC HRI1 HRI1 HRI1 HRI1 HRI1 HRI1 HRI1 HRI1		HR9		3.09E-04	g/m/s (mitigated)	
HR11 HR12A 1.54E-04 7.72E-05 9/mis (mitigated) 7.72E-05 9/mis (mitigated) 7.72E-05 9/mis (mitigated) No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C) No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C). No. of truck per day: 720, extracted from SP License of Express Rail Link (Appendix C). Source ID: BP4.7 No. of operation for Express Rail Link (Appendix C). Average truck weight, W Average truck weight,		HR10A-C		2.32E-04	g/m/s (mitigated)	No. of truck per day: 1080, extracted from SP License of Express
HR12A Tribute of the properties of the properti		HR11		4 545 04	a/m/a /mitimatad)	
HR12A 7,72E 05 omls (mitigated) No. of truck per days, 280, extracted from SP License of Express Rail Link (Appendix C) Rail Link (Appendix C) Extract from SP License of Express Rail Link (Appendix C), assume 12 hours of operation New Kowson Terminus Particle size multiplier, k Average truck weight, W TSP emission factor, E TSP emission factor, E P11 EP12 EP12 P12 P13 West Kowson Terminus Cuncrete Batching Plant For Laden Vehicle P15 P16 Rail Link (Appendix C) A27E 03 of (mitigated) A1 Calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C), AP-42, Section 13.2.1, Table 13.2.1-10, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-10, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-10, 01/11 ed. P110 and Surrace Batching Plant No. of operation hour "so of dust suppression Sum of Emission Rate EP11 EP12 EP12 EP13 West Kowson Paved hauf road under the concept and the concept batching plant For Laden Vehicle Particle size multiplier, k Road surface slit loading, sl. AP-42, Section 13.2.1, 01/11 ed.) Apgraged Type Truck Coment Tamker Full loading of concept Mixer Fill particle size multiplier, k Road surface slit loading, sl. AP-42, Section 13.2.1, 01/11 ed.) Apgraged Fill per Truck, cement tanker and concrete mixer are 12.2, and 6 whith respectively. No. of whether of aggregate lipper truck, cement tanker and concrete mixer are 12.2, and 5 whith respectively. P15 P26 P27 P28 P28 West Kowson P28 For Laden Vehicle P29 P29 P29 P29 P29 P29 P29 P2				1.54E-04	g/m/s (mitigated)	
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Kowloon Barging Points for West Kowloon Terminus Pared hauf road concrete Batching Plant For Laden Vehicle				7.722 00	g/m/o (magacod)	Rail Link (Appendix C)
Point (5 Barging Nover to Terminus Kowtoon Terminus Concrete Barching Plant of Section 19.2 1.7 and 19.2 and 19	XRL - West	Unloading of spoils		4.27E-03	g/s (mitigated)	Extract from SP License of Express Rail Link (Appendix C),
Points for West Kowkoon Terminus West Kowkoon Terminus Concrete Batching Plant Paved haul road For Laden Vehicle For Laden Vehicle For Laden Vehicle For Laden Veh						assume 12 hours of operation
Kowloon Terminus West Kowloon Terminus Concrete Batching Plant Are an		Source ID: BP4-7				
West Kowbon Terminus Concrete Batching Plant West Kowbon Terminus C						
Terminus Concrete Batching Plant Are a particle size multiplier, k For Laden Vehicle Fo		Payed haul road				All calculations and assumptions are extracted from SD
Batching Plant batching plant - For Laden Vehicle For Laden Vehicl						
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West Kowloon Paved haul road outside concrete Batching Plant Particle size multiplier, k Road surface sit loading, st. Average truck weight, W TSP emission factor, E Portage ID: No. of operation hour % of dust suppression Source ID: Source ID: Source ID: Source ID: Source ID: Source ID: Paved haul road outside concrete batching plant Particle size multiplier, k Road surface sit loading, st. 12 g/m2 AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (st.)^N-0.91x (W)^A1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Source ID: Sum of Emission Rate EP14 EP15 4.00E-05 g/m/s (mitigated) EP16 EP16 EP17 Al calculations and assumptions are extracted from SP License of Express Rall Link (Appendix C), AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. AP-42, Section 13.2.1, Valve Touck Full loading of Concrete Mixer E=k x (st.)^N-0.91x (W)^A1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tipper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and		ED10		04		
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1199 g/VKT Aggregate Tpper Truck Cement Tanker Cement Tanker Cement Tanker Concrete Mixer From 7:00-19:00			TSP emission factor, E	23.0		
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4.00E-05 g/m/s (mitigated) EP16 1.70E-05 g/m/s (mitigated) concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP17 8.52E-06 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and		ED45		5.50∟-00	5, o (gatou)	
EP16 1.70E-05 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. EP17 8.52E-08 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and		EPIS		4.00E-05	g/m/s (mitigated)	
1./0E-05 g/m/s (mitigated) concrete mixer are 0, 0, and 6 veh/hr respectively. EP17 R 52E-08 g/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and		EP16				
EP17 R 52E-08 o/m/s (mitigated) No. of vehicle of aggregate tipper truck, cement tanker and				1.70E-05	g/m/s (mitigated)	
concrete mixer are 0, 0, and 3 veh/hr respectively.		EP17		9 505 00	g/m/s (mitigated)	
				ö.52E-06	g/m/s (mingated)	

Description	Sources	Parameter		Emission Rate	Remarks
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Terminus Concrete	outside concrete				License of Express Rail Link (Appendix C).
Batching Plant	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
		Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
				tons	Unladen weight of Cement Tanker
			12	tons	Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
				g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
		% of dust suppression	97.5	%	
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	EP18		6 125 05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
			0.12E-03	g/II/S (IIIIIgaled)	concrete mixer are 12, 2, and 6 veh/hr respectively.
	EP19		5.44E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	FROM		*****	ge (gate e)	concrete mixer are 12, 0, and 6 veh/hr respectively.
	EP20		2.31E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	Paved haul road			· · · · · · · · · · · · · · · · · · ·	concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP
Terminus Concrete	within concrete				License of Express Rail Link (Appendix C).
Batching Plant	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
3	3	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
		3 .,		tons	Unladen weight of Cement Tanker
			12	tons	Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
			457	g/VKT	Aggregate Tpper Truck
			491	g/VKT	Cement Tanker
			391	g/VKT	Concrete Mixer
		No. of operation hour	12	hr	From 7:00-19:00
		% of dust suppression	99.0	%	
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	EP21				No. of vehicle of aggregate tipper truck, cement tanker and
			2.73E-06	g/m/s (mitigated)	concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22		1 505 05	ar/an/a (anitiarate d)	No. of vehicle of aggregate tipper truck, cement tanker and
			1.52E-05	g/m/s (mitigated)	concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP23		3 26F-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
W 117 1	11.1 P				concrete mixer are 0, 0, and 3 veh/hr respectively.
West Kowloon Terminus Concrete	Unloading aggregate Source ID: EP9-	Consumption Rate	272000	-	Extracted from SP License of Express Rail Link (Appendix C).
Batching Plant	EP10	Destists since anothing in a la		Mg/h	F TOD AD 40
(Unloading of raw		Particle size multiplier, k Moisture content, M	0.74		For TSP, AP-42, section 13.2.4, 11/06 ed.
materials)		Mean wind speed, U		% m/s	Extracted from SP License of Express Rail Link (Appendix C). PATH Year 2010 mean wind speed
		iviean wind speed, o	5.5	111/5	E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)
		Emission Factor, E	0.002165163	kg/Mg	(AP-42, section 13.2.4, 11/06 ed.)
ĺ			0.588924442	ka/hr	, 556661 161211, 11700 561,
ĺ		Mitigation efficiency	99		Extracted from SP License of Express Rail Link (Appendix C).
		Emission Rate	1.64E-03	g/s (mitigated)	(, , , , , , , , , , , , , , , , , , ,
West Kowloon	Small Cementitious	TSP emission factor	30	mg/m3	All calculations and assumptions are extracted from SP
	Material Silos	Dust extraction flow rate for	1300	m3/hr	License of Express Rail Link (Appendix C).
	Source ID: EP5-EP8	each mixer			, , , , , ,
(Cement / PFA		No. of operation hour	12	hr	From 7:00 to 19:00
Silos)		No. of small cement silos	4		
ĺ		Emission height	21 or 22		EP5: 21m, EP6-EP8: 22m
ĺ		Emission Rate		g/s (mitigated)	
ĺ	PFA weight Hopper	Production rate		m3/hr	All calculations and assumptions are extracted from SP
ĺ		Density	0.001989		License of Express Rail Link (Appendix C).
ĺ		Emission Factor			Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1,
ĺ			2.60E-03	kg/Mg	6/06 ed.
ĺ		Emission Rate	2.30E-04	g/s (mitigated)	
West Kowloon	Mixer Source ID:	TSP emission factor	40	mg/m3	All calculations and assumptions are extracted from SP
Terminus Concrete	EP1-EP2	Dust extraction flow rate for		m3/hr	License of Express Rail Link (Appendix C).
Batching Plant		No. of operation hour		hr	From 7:00 to 19:00
(Mixing Tower)		No. of small cement silos Emission height	2 13		
		Emission neight Emission Rate		g/s (mitigated)	
1	1	301011 11410	1.07 = 02	19/0 (mingatod)	I .

Appendix 3.1 - Details of Dust Emission Sources for 1-hour and Daily TSP Assessment (Tier 1) at Year 2014

Works Area	Sources		Parameter		Remarks
West Kowloon	Heavy construction	Percentage active area, p	100	%	Assume 100% works area for heavy construction
Cultural District	Source ID: C1-C10,	Mitigation efficiency	91.7	%	Water suppression 12 times a day
	C14-C18, C26-C29,	No. of working days per month, d	26	days	
	C32-C33, C37, C39,	No. of working hours per day, h	12	hour	
	C41-C42, C45-C54,	Emission Factor	2.69	Mg/hectare/month of activity	AP42, Section 13.2.3.3
	CB1-CB5	Emission Rate	0.000239494	g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			1.9878E-05	g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p	100	%	
	Source ID: C1-C10,	Emission Factor	0.85	Mg/hectare/year	AP42, Table 11.9-4
	C14-C18, C26-C29,	Emission Rate	2.69533E-06	g/m²/s	=0.85*1000000/(10000*365*24*60*60)*p/100
	C32-C33, C37, C39,				
	C41-C42, C45-C54,				
	CB1-CB5				

Description	Sources	Parameter		Emission Rate	Remarks
XRL - West	Haul road to barging	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Kowloon Barging	points	Road surface silt loading, sL		g/m2	Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-
Point (Construction					3, 01/11 ed.
Site)					Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of
					sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page
					10 of Improved Activity Levels for National Emission Inventories of
					Fugitive Dust from Paved and Unpaved Roads.
		Avorago truck woight W	16	tons	Average weigh of the vehicles traveling the road, extracted from
		Average truck weight, W			SP License
		TSP emission factor, E	370.7	g/VKT	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		No. of truck trips per day	900	veh/day	Extracted from SP License of Express Rail Link (Appendix C) For road HR7A-C
				veh/day	For road HR8A-B
				veh/day	For road HR9
				veh/day	For road HR10A-C
				veh/day	For road HR11
			360	veh/day	For road HR12A From 7:00 to 19:00, extracted from SP License of Express Rail
		No. of operation hour	12	hr	Link (Appendix C)
		% of dust suppression	97.5	%	Extracted from SP License of Express Rail Link (Appendix C)
	Source ID:	Emission Rate			
	HR7A2, HR7B-C		1.93E-04	g/m/s (mitigated)	No. of truck per day: 900, extracted from SP License of Express
	LIDOA D			ge (garee,	Rail Link (Appendix C)
	HR8A-B		3.86E-04	g/m/s (mitigated)	No. of truck per day: 1800, extracted from SP License of Express Rail Link (Appendix C)
	HR9				No. of truck per day: 1440, extracted from SP License of Express
			3.09E-04	g/m/s (mitigated)	Rail Link (Appendix C)
	HR10A-C		2 32E U4	g/m/s (mitigated)	No. of truck per day: 1080, extracted from SP License of Express
	L		2.32E-04	griiro (iiiligaleu)	Rail Link (Appendix C)
	HR11		1.54E-04	g/m/s (mitigated)	No. of truck per day: 720, extracted from SP License of Express
	HR12A			3,	Rail Link (Appendix C) No. of truck per day: 360, extracted from SP License of Express
	HR12A		7.72E-05	g/m/s (mitigated)	Rail Link (Appendix C)
					That Ellin (i ppolitin o)
XRL - West	Unloading of spoils		4.27E-03	g/s (mitigated)	Extract from EIA report of Express Rail Link (Appendix 12.1
Kowloon Barging	to barge				p.3), assume 12 hours of operation
Point (5 Barging	Source ID: BP4-7				
Points for West Kowloon Terminus					
Concrete Batching	Plant - Phase 1				
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Terminus Concrete	outside concrete				License of Express Rail Link (Appendix C).
Batching Plant -	batching plant -	Particle size multiplier, k	3 23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Phase1	L	•			
	For Laden Vehicle	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
		Average truck weight, W		tons tons	Full loading of Aggregate Tipper Truck Full loading of Cement Tanker
				tons	Full loading of Concrete Mixer
		TSP emission factor, E	00.0	10.10	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		,	1199	g/VKT	Aggregate Tpper Truck
			1505	g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of operation hour	12	hr	From 7:00-19:00
		% of dust suppression	97.5		7.00-13.00
	Source ID:	Sum of Emission Rate	07.0	70	Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	EP11				No. of vehicle of aggregate tipper truck, cement tanker and
			1.63E-04	g/m/s (mitigated)	concrete mixer are 12, 2, and 6 veh/hr respectively.
	EP12		1 405 04	a/m/s (mitiasted)	No. of vehicle of aggregate tipper truck, cement tanker and
			1.4∠⊏-04	g/m/s (mitigated)	concrete mixer are 12, 0, and 6 veh/hr respectively.
	EP13		6.35E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	Paved haul road			- , - ,	concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP
Terminus Concrete	outside concrete				License of Express Rail Link (Appendix C).
Batching Plant -	batching plant -	Portiolo aizo multiplica la	0.00	a A I/AT	, , , , ,
Phase 1	,	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
	For Laden Vehicle	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
		Average truck weight, W		tons tons	Full loading of Aggregate Tipper Truck Full loading of Cement Tanker
				tons	Full loading of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
			1199	g/VKT	Aggregate Tpper Truck
				Ia/\///T	10
			1505		Cement Tanker
		No of operation bear	1022	g/VKT	Concrete Mixer
		No. of operation hour	1022 12	g/VKT hr	
	Source ID:	No. of operation hour % of dust suppression Sum of Emission Rate	1022	g/VKT hr	Concrete Mixer From 7:00-19:00
	Source ID:	% of dust suppression	1022 12	g/VKT hr	Concrete Mixer
	Source ID:	% of dust suppression	1022 12 99.0	g/VKT hr %	Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and
	EP14	% of dust suppression	1022 12 99.0	g/VKT hr	Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
		% of dust suppression	1022 12 99.0 8.36E-06	g/VKT hr %	Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
	EP14 EP15	% of dust suppression	1022 12 99.0 8.36E-06 4.00E-05	g/VKT hr % g/m/s (mitigated) g/m/s (mitigated)	Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP14	% of dust suppression	1022 12 99.0 8.36E-06 4.00E-05	g/VKT hr % g/m/s (mitigated)	Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
	EP14 EP15	% of dust suppression	1022 12 99.0 8.36E-06 4.00E-05	g/VKT hr % g/m/s (mitigated) g/m/s (mitigated)	Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively.

Description	Sources	Parameter		Emission Rate	Remarks
West Kowloon	Paved haul road	Turumotor			All calculations and assumptions are extracted from SP
Terminus Concrete Batching Plant -	outside concrete batching plant -	Particle size multiplier, k	2.22	g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Phase 1	For Unladen Vehicle	Road surface silt loading, sL	3.23		AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	or ornaderr vernicle	Average truck weight, W	14	tons	Unladen weight of Aggregate Tipper Truck
				tons tons	Unladen weight of Cement Tanker Unladen weight of Concrete Mixer
		TSP emission factor, E	12	toris	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
				g/VKT	Aggregate Tpper Truck
				g/VKT g/VKT	Cement Tanker Concrete Mixer
		No. of operation hour	12	hr	From 7:00-19:00
	Source ID:	% of dust suppression Sum of Emission Rate	97.5	%	Cum of amission vote of annuarete times to true!
		oun or Emission ridge			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP18		6.12E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	EP19		5.44E-05	g/m/s (mitigated)	concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
	EP20				concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
W 117			2.31E-05	g/m/s (mitigated)	concrete mixer are 0, 2, and 6 veh/hr respectively.
West Kowloon Terminus Concrete	Paved haul road within concrete				All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C).
Batching Plant - Phase 1	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
i nase i	For Unladen Vehicle	Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
		Average truck weight, W		tons tons	Unladen weight of Aggregate Tipper Truck Unladen weight of Cement Tanker
				tons	Unladen weight of Concrete Mixer
		TSP emission factor, E	457	- 0.0/T	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
				g/VKT g/VKT	Aggregate Tpper Truck Cement Tanker
				g/VKT	Concrete Mixer
		No. of operation hour % of dust suppression	12 99.0	hr %	From 7:00-19:00
	Source ID:	Sum of Emission Rate	00.0		Sum of emission rate of aggregate tipper truck, cement tanker and
	ED04				concrete mixer.
	EP21		2.73E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22		1.52E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP23		3 26F-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	Unloading aggregate	Consumption Rate	272000		concrete mixer are 0, 0, and 3 veh/hr respectively.
Terminus Concrete Batching Plant -	Source ID: EP9- EP10		272	Mg/h	Extracted from SP License of Express Rail Link (Appendix C).
Phase 1 (Unloading	EPIU	Particle size multiplier, k	0.74		For TSP, AP-42, section 13.2.4, 11/06 ed. Extracted from Specified Processes License (checked on 13 Jan
of raw materials)		Moisture content, M	2	%	2012)
		Mean wind speed, U		m/s	PATH year 2010 mean wind speed E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)
		Emission Factor, E	0.002165163		(AP-42, section 13.2.4, 11/06 ed.)
			0.588924442	, and the second	Extracted from Specified Processes License (checked on 13 Jan
		Mitigation efficiency		%	2012)
West Kowloon	Small Cementitious	Emission Rate TSP emission factor		g/s (mitigated) mg/m3	All calculations and assumptions are extracted from SP
Terminus Concrete Batching Plant -	Material Silos Source ID: EP5-EP8	Dust extraction flow rate for each mixer	1300	m3/hr	License of Express Rail Link (Appendix C).
Phase 1 (Cement /	Source ID. El 3-El 6	No. of operation hour	12	hr	From 7:00 to 19:00
PFA Silos)		No. of small cement silos	4		
		Emission height	21 or 22		EP5: 21m, EP6-EP8: 22m
	PFA weight Hopper	Emission Rate Production rate		g/s (mitigated) m3/hr	All calculations and assumptions are extracted from SP
	Source ID: EP3-EP4	Density	0.001989		License of Express Rail Link (Appendix C).
		Emission Factor	2.60E-03	kg/Mg	Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed.
Woot Kaudasa	Miyor Cause ID	Emission Rate		g/s (mitigated)	
West Kowloon Terminus Concrete	Mixer Source ID: EP1-EP2	TSP emission factor Dust extraction flow rate for		mg/m3 m3/hr	All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C).
Batching Plant - Phase 1 (Mixing		each mixer No. of operation hour	12	hr	From 7:00 to 19:00
Tower)		No. of small cement silos	2		Extracted from Specified Processes License (checked on 13 Jan
		Emission height Emission Rate	13 1.67E-02	g/s (mitigated)	2012)
Concrete Batching West Kowloon	Plant - Phase 2 Paved haul road				All calculations and assumptions are extracted from
Terminus Concrete	outside concrete				Environmental Review report (v. 2012Oct) of Express Rail Link
Batching Plant - Phase 2	batching plant -	Particle size multiplier, k	3.23	g/VKT	VEP (Appendix C1). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	Toward CBP	Road surface silt loading, sL Average truck weight, W	12	g/m2 tons	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden)
			44	tons	Cement Tanker (Laden)
		TSP emission factor, E	13	tons	Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		, , , , , , , , , , , , , , , , , , ,		g/VKT g/VKT	Aggregate Tpper Truck Cement Tanker
			424	g/VKT	Concrete Mixer
		No. of operation hour % of dust suppression	12 91.0	hr %	From 7:00-19:00
	Source ID: AEP 1	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and No. of vehicle of aggregate tipper truck, cement tanker and
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1.41E-04	g/m2/s (mitigated)	concrete mixer are 10, 0, and 10 veh/hr respectively P.6 of 21
		•			· · · · · · · · · · · · · · · · · · ·

Description	Sources	Parameter		Emission Rate	Remarks
230011711011	AEP 2	. urumotei	E 00E 0E		No. of vehicle of aggregate tipper truck, cement tanker and
	AEP 3			g/m2/s (mitigated) g/m2/s (mitigated)	concrete mixer are 0, 2, and 10 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
	AEP 6			g/m2/s (mitigated) g/m2/s (mitigated)	concrete mixer are 10, 2, and 10 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
	AEP 8				concrete mixer are 0, 0, and 10 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
			1.06E-04	g/m2/s (mitigated)	concrete mixer are 10, 0, and 0 veh/hr respectively.
West Kowloon Terminus Concrete	Paved haul road outside concrete				All calculations and assumptions are extracted from Environmental Review report (v. 2012Oct) of Express Rail Link
Batching Plant - Phase 2	batching plant -	Particle size multiplier, k	2.22	g/VKT	VEP (Appendix C1). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	Toward CBP	Road surface silt loading, sL Average truck weight, W	12	g/m2 tons	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Laden)
		Awarage track weight, W	44	tons	Cement Tanker (Laden)
		TSP emission factor, E		tons	Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
				g/VKT g/VKT	Aggregate Tpper Truck Cement Tanker
		No. of operation hour		g/VKT	Concrete Mixer From 7:00-19:00
	Source ID:	% of dust suppression Sum of Emission Rate	100.0		Sum of emission rate of aggregate tipper truck, cement tanker and
		Sum of Emission Rate			concrete mixer.
	AEP 4		0.00E+00	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 10, 4, and 10 veh/hr respectively.
	AEP 5		0.00E+00	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
	AEP 7		0.00E+00	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 10, 0, and 0 veh/hr respectively.
Mast Kandar	Davied keed or				
West Kowloon Terminus Concrete	Paved haul road outside concrete				All calculations and assumptions are extracted from Environmental Review report (v. 2012Oct) of Express Rail Link
Batching Plant - Phase 2	batching plant -	Particle size multiplier, k	3.23	g/VKT	VEP (Appendix C1). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	Leave CBP	Road surface silt loading, sL Average truck weight, W		g/m2 tons	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Aggregate Tipper Truck (Unladen)
		and a son morgini, **	14	tons	Cement Tanker (Unladen)
		TSP emission factor, E		tons	Concrete Mixer Truck (Laden) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
				g/VKT g/VKT	Aggregate Tpper Truck Cement Tanker
		No. of operation hour	995	g/VKT hr	Concrete Mixer From 7:00-19:00
	Source ID:	% of dust suppression Sum of Emission Rate	91.0		
		Cam of Emission rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	AEP 9		7.62E-06	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
	AEP 11		8.29E-05	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 10 veh/hr respectively.
	AEP 12		9.06E-05	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 10 veh/hr respectively.
	AEP 13		9.06E-05	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 10 veh/hr respectively.
	AEP 14		4.92E-05	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 10, 0, and 0 vehi/hr respectively.
	AEP 16			g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	AEP 17			g/m2/s (mitigated)	concrete mixer are 10, 0, and 10 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
			1.021-04	5=o (gatoa)	concrete mixer are 10, 0, and 10 veh/hr respectively.
West Kowloon Terminus Concrete	Paved haul road outside concrete				All calculations and assumptions are extracted from Environmental Review report (v. 2012Oct) of Express Rail Link
Batching Plant - Phase 2	batching plant -	Particle size multiplier, k	3 23	g/VKT	VEP (Appendix C1). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
(Construction Site)	Toward CBP	Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
		Average truck weight, W	44	tons tons	Aggregate Tipper Truck (Laden) Cement Tanker (Laden)
		TSP emission factor, E		tons	Concrete Mixer Truck (Unladen) E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
				g/VKT g/VKT	Aggregate Tpper Truck Cement Tanker
		No. of operation hour	424	g/VKT hr	Concrete Mixer From 7:00-19:00
		% of dust suppression Sum of Emission Rate	100.0		
	Source ID:	Sum of Emission Mate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	AEP 10		0.00E+00	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
	AEP 15		0.00E+00	g/m2/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 10, 0, and 10 veh/hr respectively.
West Kowloon	Unloading aggregate	Consumption Rate	210000	kg/h	All calculations and assumptions are extracted from
Terminus Concrete Batching Plant -	Source ID: PEP9- PEP10	Particle size multiplier, k		Mg/h	Environmental Review report (v. 2012Oct) of Express Rail Link For TSP, AP-42, section 13.2.4, 11/06 ed.
Phase 2 (Unloading					All calculations and assumptions are extracted from Environmental Review report (v. 2012Oct) of Express Rail Link
of raw materials)		Moisture content, M		%	VEP (Appendix C1).
		Mean wind speed, U Emission Factor, E	3.5 0.002165163	m/s ka/Ma	PATH year 2010 mean wind speed E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)
		Emission racion, E	0.002165163		(AP-42, section 13.2.4, 11/06 ed.)
		Mitigation efficiency	50		All calculations and assumptions are extracted from Environmental Review report (v. 2012Oct) of Express Rail Link
					VEP (Appendix C1).
II	I	Emission height	5.5	<u> </u> m	P.7 of 21

Description	Sources	Parameter		Emission Rate	Remarks
		Emission Rate	6.32E-02	g/s (mitigated)	
West Kowloon Terminus Concrete Batching Plant - Phase 2 (Cement / PFA Silos)	Cement Silos Source ID: PEP 1 to PEP 7	Emission height Emission Rate	5.5 1.48E-02	m g/s (mitigated)	All calculations and assumptions are extracted from Environmental Review report (v. 2012Oct) of Express Rail Link
,	Mixer & Weight Hopper Source ID: PEP8	Emission height Emission Rate	5.5 1.98E-02	m g/s (mitigated)	All calculations and assumptions are extracted from Environmental Review report (v. 2012Oct) of Express Rail Link VEP (Appendix C1).
West Kowloon High	way Scheme HIJ				
West Kowloon Highway Scheme HIJ	Heavy construction Source ID: AA9-12		2.99368E-05	g/m²/s (mitigated)	Extract from PER report of Scheme HIJ and Junction JRD/FST/CRD (Appendix 3.1), assume 100% active area
	Wind Erosion Source ID: AA9-12		2.69533E-06	g/m²/s	Extract from PER report of Scheme HIJ and Junction JRD/FST/CRD (Appendix 3.1), assume 100% active area
West Kowloon Highway Scheme Q (Interim)	Heavy construction Source ID: FF1-FF9	-	2.99368E-05	g/m²/s (mitigated)	Extract from PER report of Scheme Q (Appendix 3.2), assume 100% active area
	Wind Erosion Source ID: FF1-FF9	-	2.69533E-06	g/m²/s	Extract from PER report of Scheme Q (Appendix 3.2), assume 100% active area

Works Area West Kowloon		1			
	Sources		Parameter		Remarks
	Heavy construction	Percentage active area, p	100		Assume 100% works area for heavy construction
Cultural District	Source ID: E1-E61,	Mitigation efficiency	91.7		Water suppression 12 times a day
	EB1-EB5	No. of working days per month, d		days	
		No. of working hours per day, h		hour	
		Emission Factor		Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate		g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			1.9878E-05	g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p	100		
	Source ID: E1-E61,	Emission Factor		Mg/hectare/year	AP42, Table 11.9-4
	EB1-EB5	Emission Rate	2.69533E-06	g/m²/s	=0.85*1000000/(10000*365*24*60*60)*p/100
West Kowloon	Haul road to barging	Particle size multiplier, k	2.22	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Cultural District	points	Road surface silt loading, sL		g/m2	Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-
Barging Point	points	riodd saridoc siit iodding, se	0.2	9,1112	3, 01/11 ed.
(Construction Site)					Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of
(sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page
					10 of Improved Activity Levels for National Emission Inventories of
					Fugitive Dust from Paved and Unpaved Roads.
		Average truck weight, W	16	tons	Average weigh of the vehicles traveling the road, extracted from
		Average truck weight, w			SP License
		TSP emission factor, E	370.7	g/VKT	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		No. of truck trips per day			Extracted from SP License of Express Rail Link (Appendix C)
				veh/day	For road HR7A-C
				veh/day	For road HR8A-B
				veh/day veh/day	For road HR9 For road HR10A-C
				veh/day	For road HR11
1				veh/day	For road HR12A
1		L		·	From 7:00 to 19:00, extracted from SP License of Express Rail
1		No. of operation hour	12	hr	Link (Appendix C)
		% of dust suppression	97.5	%	Extracted from SP License of Express Rail Link (Appendix C)
I	Source ID:	Emission Rate			,
	HR7A3, HR7B,		4755 44	a/m/o (mitiacted)	No. of truck per day: 900, extracted from SP License of Express
	HR7C1		4./5E-14	g/m/s (mitigated)	Rail Link (Appendix C)
	HR8A-B		0.405.14	g/m/s (mitigated)	No. of truck per day: 1800, extracted from SP License of Express
			3.43L-14	g/III/s (IIIItigated)	Rail Link (Appendix C)
	HR9		7 59F-14	g/m/s (mitigated)	No. of truck per day: 1440, extracted from SP License of Express
			7.002 14	g/m/3 (mitigated)	Rail Link (Appendix C)
	HR10A-C		5.70E-14	g/m/s (mitigated)	No. of truck per day: 1080, extracted from SP License of Express
	UD44		••	ggaice,	Rail Link (Appendix C)
	HR11		3.80E-14	g/m/s (mitigated)	No. of truck per day: 720, extracted from SP License of Express
	HR12A			, , ,	Rail Link (Appendix C)
	HR12A		1.90E-14	g/m/s (mitigated)	No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C)
					Hall Link (Appendix C)
West Kowloon	Unloading of spoils		4 27F-03	g/s (mitigated)	Extract from EIA report of Express Rail Link (Appendix 12.1
Cultural District	to barge		1.2.2 00	g/o (ugatou)	p.3), assume 12 hours of operation
Barging Point	Source ID: BP4-7				, account 1 - 11 - 11 - 11 - 11 - 11 - 11 - 11
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Cultural District	outside concrete				License of Express Rail Link (Appendix C).
	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Plant (Construction		Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Laden Vehicle		12 36	g/m2 tons	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck
Plant (Construction		Road surface silt loading, sL	12 36 45	g/m2 tons tons	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker
Plant (Construction		Road surface silt loading, sL Average truck weight, W	12 36 45	g/m2 tons	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer
Plant (Construction		Road surface silt loading, sL	12 36 45 30.8	g/m2 tons tons tons	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
Plant (Construction		Road surface silt loading, sL Average truck weight, W	12 36 45 30.8 1199	g/m2 tons tons tons g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck
Plant (Construction		Road surface silt loading, sL Average truck weight, W	12 36 45 30.8 1199 1505	g/m2 tons tons tons g/VKT g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker
Plant (Construction		Road surface silt loading, sL Average truck weight, W	12 36 45 30.8 1199 1505	g/m2 tons tons tons g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck
Plant (Construction		Road surface silt loading, sL Average truck weight, W	12 36 45 30.8 1199 1505	g/m2 tons tons tons g/VKT g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker
Plant (Construction	For Laden Vehicle	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022	g/m2 tons tons tons g/VKT g/VKT g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=lk x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
Plant (Construction		Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour	12 36 45 30.8 1199 1505 1022	g/m2 tons tons tons g/VKT g/VKT g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=lk x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
Plant (Construction	For Laden Vehicle	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022	g/m2 tons tons tons g/VKT g/VKT g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=lk x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00
Plant (Construction	For Laden Vehicle	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5	g/m2 tons tons tons g/VKT g/VKT g/VKT hr %	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
Plant (Construction	For Laden Vehicle Source ID:	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5	g/m2 tons tons tons g/VKT g/VKT g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and
Plant (Construction	For Laden Vehicle Source ID:	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and
Plant (Construction	For Laden Vehicle Source ID:	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5	g/m2 tons tons tons g/VKT g/VKT g/VKT hr %	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively.
Plant (Construction	For Laden Vehicle Source ID:	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
Plant (Construction Site)	For Laden Vehicle Source ID: EP11 EP12 EP13	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively.
Plant (Construction Site) West Kowloon	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tipper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP
Plant (Construction Site) West Kowloon Cultural District	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05	g/m2 tons tons tons g/VKT g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C).
Plant (Construction Site) West Kowloon Cultural District Concrete Batching	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05	g/m2 tons tons tons g/VKT g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Full loading of Aggregate Tipper Truck
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05	g/m2 tons tons tons g/VKT g/VKT g/VKT g/WKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Gement Tanker
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s tons tons tons	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/wKT g/m2 tons tons tons tons	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05 3.23 12 36 45 30.8	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s tons tons tons	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05 3.23 12 36 45 30.8	g/m2 tons tons tons g/VKT g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/VKT g/m2 tons tons tons g/VKT g/VKT g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05 3.23 12 36 45 30.8	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/wKT g/m2 tons tons tons g/VKT g/VKT g/VKT g/VKT g/VKT g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant -	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05 3.23 12 36 45 30.8 1199 1505 1022	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/wKT g/m2 tons tons tons g/VKT g/VKT g/VKT g/VKT g/VKT g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant - For Laden Vehicle Source ID:	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05 3.23 12 36 45 30.8 1199 1505 1022	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/wKT g/m2 tons tons tons g/VKT g/VKT g/VKT g/VKT g/VKT g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant - For Laden Vehicle	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05 3.23 12 36 45 30.8 1199 1505 1022 12 99.0	g/m2 tons tons tons g/VKT g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/WKT g/m2 tons tons tons tons tons g/VKT g/VKT g/VKT g/VKT g/VKT hr %	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer.
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant - For Laden Vehicle Source ID: EP14	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05 3.23 12 36 45 30.8 1199 1505 1022 12 99.0	g/m2 tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/wKT g/m2 tons tons tons g/VKT g/VKT g/VKT g/VKT g/VKT g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant - For Laden Vehicle Source ID:	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05 3.23 12 36 45 30.8 1199 1505 1022 12 99.0	g/m2 tons tons tons g/VKT g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/WKT g/m/s tons tons tons tons g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant - For Laden Vehicle Source ID: EP14 EP15	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05 3.23 12 36 45 30.8 1199 1505 1022 12 99.0	g/m2 tons tons tons g/VKT g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/WKT g/m2 tons tons tons tons tons g/VKT g/VKT g/VKT g/VKT g/VKT hr %	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant - For Laden Vehicle Source ID: EP14	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05 3.23 12 36 45 30.8 1199 1505 1022 12 99.0	g/m2 tons tons tons g/VKT g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/WKT g/m/s tons tons tons tons g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tipper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tipper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant - For Laden Vehicle Source ID: EP14 EP15 EP16	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05 3.23 12 36 45 30.8 1199 1505 1022 12 99.0	g/m2 tons tons tons g/VKT g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/WKT g/m2 tons tons tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tpper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively.
Plant (Construction Site) West Kowloon Cultural District Concrete Batching Plant (Construction	For Laden Vehicle Source ID: EP11 EP12 EP13 Paved haul road outside concrete batching plant - For Laden Vehicle Source ID: EP14 EP15	Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression Sum of Emission Rate Particle size multiplier, k Road surface silt loading, sL Average truck weight, W TSP emission factor, E No. of operation hour % of dust suppression	12 36 45 30.8 1199 1505 1022 12 97.5 1.63E-04 1.42E-04 6.35E-05 3.23 12 36 45 30.8 1199 1505 1022 12 99.0 8.36E-06 4.00E-05 1.70E-05	g/m2 tons tons tons g/VKT g/VKT g/VKT g/VKT hr % g/m/s (mitigated) g/m/s (mitigated) g/m/s (mitigated) g/WKT g/m2 tons tons tons tons tons g/VKT g/VKT g/VKT hr % g/m/s (mitigated)	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Cement Tanker Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tipper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed. Full loading of Aggregate Tipper Truck Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.) Aggregate Tipper Truck Cement Tanker Concrete Mixer From 7:00-19:00 Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and

Works Area	Sources		Parameter		Remarks
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Cultural District	outside concrete				License of Express Rail Link (Appendix C).
	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Plant (Construction Site)	For Unladen Vehicle	Road surface silt loading, sL Average truck weight, W		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
Site)	or ornaderr vernicle	Average truck weight, w		tons tons	Unladen weight of Aggregate Tipper Truck Unladen weight of Cement Tanker
				tons	Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		·	457	g/VKT	Aggregate Tpper Truck
			491	g/VKT	Cement Tanker
			391	g/VKT	Concrete Mixer
		No. of operation hour	12	hr	From 7:00-19:00
		% of dust suppression	97.5	%	
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP18		6.12E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively.
	EP19		5.44E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 6 veh/hr respectively.
	EP20		2 31F-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
Wast Kaudaan	Davied head reed		2.0.2.00	g,e (ga.ea)	concrete mixer are 0, 2, and 6 veh/hr respectively. All calculations and assumptions are extracted from SP
West Kowloon Cultural District	Paved haul road within concrete				License of Express Rail Link (Appendix C).
	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Plant (Construction	3	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
Site)	For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
				tons	Unladen weight of Cement Tanker
			12	tons	Unladen weight of Concrete Mixer
		TSP emission factor, E	457	24/4	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
				g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker Concrete Mixer
		No. of apparation bour		g/VKT	
		No. of operation hour	99.0	hr o/	From 7:00-19:00
	Source ID:	% of dust suppression Sum of Emission Rate	99.0	76	
	554.55 121	oun or Emission Hate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP21				No. of vehicle of aggregate tipper truck, cement tanker and
			2.73E-06	g/m/s (mitigated)	concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22		1 505 05	a/m/a (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
			1.52E-05	g/m/s (mitigated)	concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP23		3.26E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	Unloading aggregate	Consumption Rate	272000	ka/h	concrete mixer are 0, 0, and 3 veh/hr respectively.
Cultural District	Source ID: EP9-			Mg/h	Extracted from SP License of Express Rail Link (Appendix C).
Ü	EP10	Particle size multiplier, k	0.74	-	For TSP, AP-42, section 13.2.4, 11/06 ed.
Plant (Unloading of		Moisture content, M	2	%	Extracted from Specified Processes License (checked on 13 Jan
raw materials)		,			2012)
		Mean wind speed, U	3.5	m/s	PATH year 2010 mean wind speed
		Emission Factor, E	0.002165163	kg/Mg	E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)
			0.588924442	kg/br	(AP-42, section 13.2.4, 11/06 ed.)
					Extracted from Specified Processes License (checked on 13 Jan
		Mitigation efficiency	99	%	2012)
		Emission Rate		g/s (mitigated)	·
West Kowloon	Small Cementitious	TSP emission factor	30	mg/m3	All calculations and assumptions are extracted from SP
Cultural District Concrete Batching	Material Silos Source ID: EP5-EP8	Dust extraction flow rate for each mixer	1300	m3/hr	License of Express Rail Link (Appendix C).
Plant (Cement / PFA	Source ID: EP5-EP8	No. of operation hour	12	hr	From 7:00 to 19:00
Silos)		No. of small cement silos	4		
		Emission height	21 or 22		EP5: 21m, EP6-EP8: 22m
		Emission Rate		g/s (mitigated)	2. 5. 2, 2. 6 2. 6. 22
	PFA weight Hopper	Production rate		m3/hr	All calculations and assumptions are extracted from SP
	Source ID: EP3-EP4	Density	0.001989		License of Express Rail Link (Appendix C).
		Emission Factor	2.60E-03	ka/Ma	Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1,
		Fraissian Bat			6/06 ed.
Most Kandara	Missan Commer ID	Emission Rate		g/s (mitigated)	
West Kowloon Cultural District	Mixer Source ID: EP1-EP2	TSP emission factor Dust extraction flow rate for each		mg/m3	All calculations and assumptions are extracted from SP
Cultural District Concrete Batching	LF I-EF2	mixer	1500	m3/hr	License of Express Rail Link (Appendix C).
Plant (Mixing Tower)		No. of operation hour	12	hr	From 7:00 to 19:00
]		No. of small cement silos	2		Extracted from Specified Processes License (checked on 13 Jan
		Emission height	13		2012)
	l	Emission Rate	1.6/E-02	g/s (mitigated)	

Appendix 3.1 - Details of Dust Emission Sources for 1-hour and Daily TSP Assessment (Tier 1)

Description	Sources	Parameter	E	Emission Rate	Remarks
West Kowloon Highway Scheme HIJ	Heavy construction Source ID: AA9-12		2.99368E-05 g/	/m²/s (mitigated)	Extract from PER report of Scheme HIJ and Junction JRD/FST/CRD (Appendix 3.1), assume 100% active area
	Wind Erosion Source ID: AA9-12		2.69533E-06 g/		Extract from PER report of Scheme HIJ and Junction JRD/FST/CRD (Appendix 3.1), assume 100% active area
West Kowloon Highway Scheme Q (Interim)	Heavy construction Source ID: FF1-FF9		2.99368E-05 g/	/m²/s (mitigated)	Extract from PER report of Scheme Q (Appendix 3.2), assume 100% active area
	Wind Erosion Source ID: FF1-FF9	-	2.69533E-06 g/		Extract from PER report of Scheme Q (Appendix 3.2), assume 100% active area

Works Area	Sources		Parameter		Remarks
West Kowloon	Heavy construction	Percentage active area, p	100		Assume 100% works area for heavy construction
Cultural District	Source ID: F1-F36, FB1-FB5	Mitigation efficiency No. of working days per month, d	91.7	% days	Water suppression 12 times a day
	FB1-FB3	No. of working days per month, d		hour	
		Emission Factor		Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate		g/m²/s (unmitigated) g/m²/s (mitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			1.50702-05	g/iii /3 (iiiliigated)	
	Wind Erosion	Percentage active area, p	100		
	Source ID: F1-F36, FB1-FB5	Emission Factor Emission Rate	0.85 2.69533E-06	Mg/hectare/year g/m²/s	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100
	1 51 1 50	Emission rate	2.000002 00	9/11/5	-0.00 1000000/(10000 000 24 00 00) p/100
West Kowloon		Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Cultural District Barging Point	points	Road surface silt loading, sL	6.2	g/m2	Mean Silt Loading of Quarry, AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
(Construction Site)					Uncontrolled total loading range from 4.2+1.9g/m2, for a mixture of
					sand and native soil, to 11.0+3.8g/m2 for native soil alone, Page 10 of Improved Activity Levels for National Emission Inventories of
					Fugitive Dust from Paved and Unpaved Roads.
		Average truck weight, W	16	tons	Average weigh of the vehicles traveling the road, extracted from
		TSP emission factor, E		g/VKT	SP License E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		No. of truck trips per day	0.0	9,	Extracted from SP License of Express Rail Link (Appendix C)
				veh/day	For road HR7A-C
				veh/day veh/day	For road HR8A-B For road HR9
			1080	veh/day	For road HR10A-C
				veh/day	For road HR11 For road HR12A
				veh/day	From 7:00 to 19:00, extracted from SP License of Express Rail
		No. of operation hour		hr	Link (Appendix C)
	Source ID:	% of dust suppression Emission Rate	97.5	%	Extracted from SP License of Express Rail Link (Appendix C)
	Source ID: HR7A-C	Emission Rate			No. of truck per day: 900, extracted from SP License of Express
			4./5E-14	g/m/s (mitigated)	Rail Link (Appendix C)
	HR8A-B		9.49E-14	g/m/s (mitigated)	No. of truck per day: 1800, extracted from SP License of Express
	HR9				Rail Link (Appendix C) No. of truck per day: 1440, extracted from SP License of Express
			7.59E-14	g/m/s (mitigated)	Rail Link (Appendix C)
	HR10A-C		5.70E-14	g/m/s (mitigated)	No. of truck per day: 1080, extracted from SP License of Express Rail Link (Appendix C)
	HR11		0.005.44		No. of truck per day: 720, extracted from SP License of Express
			3.80E-14	g/m/s (mitigated)	Rail Link (Appendix C)
	HR12A		1.90E-14	g/m/s (mitigated)	No. of truck per day: 360, extracted from SP License of Express Rail Link (Appendix C)
					Trail Link (Appendix O)
West Kowloon	Unloading of spoils		4.27E-03	g/s (mitigated)	Extract from SP License of Express Rail Link (Appendix C),
Cultural District Barging Point	to barge Source ID: BP4-7				assume 12 hours of operation
barging rount	Source ID. Bi 4-7				
West Kowloon Cultural District	Paved haul road outside concrete				All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C).
Terminus Concrete	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Batching Plant		Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
(Construction Site)	For Laden Vehicle	Average truck weight, W		tons tons	Full loading of Aggregate Tipper Truck Full loading of Cement Tanker
				tons	Full loading of Concrete Mixer
		No. of truck trips per day		veh/hr	Aggregate Tpper Truck
				veh/hr	Cement Tanker
		No. of converting become		veh/hr	Concrete Mixer
		No. of operation hour % of dust suppression	97.5	hr %	From 7:00-19:00
	Source ID:	Sum of Emission Rate	07.0	70	Sum of emission rate of aggregate tipper truck, cement tanker and
	EDIA				concrete mixer.
	EP11		1.63E-04	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively.
	EP12		1 425 04	a/m/a (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	ED10		1.4∠⊑-04	g/m/s (mitigated)	concrete mixer are 12, 0, and 6 veh/hr respectively.
	EP13		6.35E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 6 veh/hr respectively.
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Cultural District	outside concrete	Partialo sizo multiplior 1	0.00	a\/KT	License of Express Rail Link (Appendix C).
Terminus Concrete Batching Plant	batching plant -	Particle size multiplier, k Road surface silt loading, sL		g/VKT g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
(Construction Site)	For Laden Vehicle	Average truck weight, W	36	tons	Full loading of Aggregate Tipper Truck
				tons	Full loading of Cement Tanker
		TSP emission factor, E	30.8	tons	Full loading of Concrete Mixer E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		,		g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
		No. of operation hour		g/VKT hr	Concrete Mixer From 7:00-19:00
		% of dust suppression	99.0		
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
	EP14			andreada description to the	concrete mixer. No. of vehicle of aggregate tipper truck, cement tanker and
			8.36E-06	g/m/s (mitigated)	concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP15		4.00E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	EP16				concrete mixer are 12, 0, and 0 veh/hr respectively. No. of vehicle of aggregate tipper truck, cement tanker and
			1.70E-05	g/m/s (mitigated)	concrete mixer are 0, 0, and 6 veh/hr respectively.
	EP17		8.52E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
I	<u> </u>	I .		I	concrete mixer are 0, 0, and 3 veh/hr respectively.

Works Area	Sources	Parameter			Remarks
	Paved haul road		. arameter	T	All calculations and assumptions are extracted from SP
West Kowloon Cultural District	outside concrete				License of Express Rail Link (Appendix C).
Concrete Batching		Particle size multiplier, k	2 22	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Plant (Construction	batching plant -	' '			
Site)	For Unladon Vahiola	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
Site)	For Offiaueri Verlicie	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
				tons	Unladen weight of Cement Tanker
			12	tons	Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
			457	g/VKT	Aggregate Tpper Truck
			491	g/VKT	Cement Tanker
			391	g/VKT	Concrete Mixer
		No. of operation hour	12	hr	From 7:00-19:00
		% of dust suppression	97.5		1101117100 10100
	Source ID:	Sum of Emission Rate	97.5	/6	
	Source ID.	Sull of Emission Hate			Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	EP18		6 125 05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
			6.12E-03	g/m/s (mitigated)	concrete mixer are 12, 2, and 6 veh/hr respectively.
	EP19		E 44E 0E	a /aa /a /aaiti a ata d\	No. of vehicle of aggregate tipper truck, cement tanker and
			5.44E-05	g/m/s (mitigated)	concrete mixer are 12, 0, and 6 veh/hr respectively.
	EP20		0.01 F.0 F	a /aa /a /aaiti a ata d\	No. of vehicle of aggregate tipper truck, cement tanker and
			2.31E-05	g/m/s (mitigated)	concrete mixer are 0, 2, and 6 veh/hr respectively.
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Cultural District	within concrete				License of Express Rail Link (Appendix C).
	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Plant (Construction	01	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
Site)	For Unladen Vehicle	Average truck weight, W	14	~	Unladen weight of Aggregate Tipper Truck
,		Average truck weight, vv		tons	Unladen weight of Cement Tanker
				tons	Unladen weight of Concrete Mixer
		TSP emission factor, E	12	toris	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		TSF emission factor, E	457	- A #/T	
				g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
			391	g/VKT	Concrete Mixer
		No. of operation hour	12	hr	From 7:00-19:00
		% of dust suppression	99.0	%	
	Source ID:	Sum of Emission Rate	00.0	\\^-	Sum of aminaian vata of annuanta tinnay twick, as most tankay and
	000.00 12.	Cam or Emission Hate			Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	EP21		2 72 5 06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
			2.73L-00	g/III/S (IIIItigated)	concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22		1 505 05	a/m/o (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
			1.52L-05	g/m/s (mitigated)	concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP23		2 265 06	a/m/o (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
			3.20E-00	g/m/s (mitigated)	concrete mixer are 0, 0, and 3 veh/hr respectively.
West Kowloon	Unloading aggregate	Consumption Rate	272000	kg/h	Estanted from OR Lineary of Estante Reil Link (Assessed in O)
Cultural District	Source ID: EP9-		272	Mg/h	Extracted from SP License of Express Rail Link (Appendix C).
Concrete Batching	EP10	Particle size multiplier, k	0.74	-	For TSP, AP-42, section 13.2.4, 11/06 ed.
Plant (Unloading of		Moisture content, M	0.74		Extracted from SP License of Express Rail Link (Appendix C).
raw materials)		Mean wind speed, U		m/s	PATH Year 2010 mean wind speed
		I will speed, o	5.5	11/5	·
		Emission Factor, E	0.002165163	kg/Mg	E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)
ĺ		·		" "	(AP-42, section 13.2.4, 11/06 ed.)
			0.588924442		
ĺ		Mitigation efficiency	99		Extracted from SP License of Express Rail Link (Appendix C).
		Emission Rate		g/s (mitigated)	
West Kowloon	Small Cementitious	TSP emission factor	30	mg/m3	All calculations and assumptions are extracted from SP
	Material Silos	Dust extraction flow rate for each	1200	m3/hr	License of Express Rail Link (Appendix C).
Concrete Batching	Source ID: EP5-EP8	mixer	1300	1110/111	License of Express nail Lilik (Appelluix C).
Plant (Cement / PFA		No. of operation hour	12	hr	From 7:00 to 19:00
Silos)	1	·			
·		No. of small cement silos	4		
ĺ		Emission height	21 or 22		EP5: 21m, EP6-EP8: 22m
ĺ		Emission Rate	1.08E-02	g/s (mitigated)	
ĺ	PFA weight Hopper	Production rate		m3/hr	All calculations and assumptions are extracted from SP
	Source ID: EP3-EP4		0.001989		License of Express Rail Link (Appendix C).
		Emission Factor	0.001303		Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1,
		LIIIISSIUII FACIUI	2.60E-03	kg/Mg	0 11
		Emission Data		" "	6/06 ed.
		Emission Rate		g/s (mitigated)	All selected as and assumption of the selection of the se
West Kowloon	Mixer Source ID:	TSP emission factor		mg/m3	All calculations and assumptions are extracted from SP
Cultural District	EP1-EP2	Dust extraction flow rate for each		m3/hr	License of Express Rail Link (Appendix C).
Concrete Batching		No. of operation hour	12		From 7:00 to 19:00
Plant (Mixing Tower)		No. of small cement silos	2		
ĺ		Emission height	13		
L		Emission Rate	1.6/E-02	g/s (mitigated)	<u>l</u>

Works Area	Sources		Parameter		Remarks	
West Kowloon	Heavy construction	Percentage active area, p	100		Assume 100% works area for heavy construction	
Cultural District	Source ID: H1-H45,	Mitigation efficiency	91.7		Water suppression 12 times a day	
	HB1-HB5	No. of working days per month, d	26	days		
		No. of working hours per day, h		hour		
		Emission Factor	2.69	Mg/hectare/month of activity	AP42, Section 13.2.3.3	
		Emission Rate		g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100	
			1.9878E-05	g/m²/s (mitigated)		
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Daniel de la companya	100	0/		
	Wind Erosion Source ID: H1-H45.	Percentage active area, p Emission Factor		% Mg/hectare/year	AP42. Table 11.9-4	
	HB1-HB5	Emission Rate	2.69533E-06		=0.85*1000000/(10000*365*24*60*60)*p/100	
	1101-1103	Linission rate	2.09333L-00	9/111-75	=0.03 1000000/(10000 303 24 00 00) β/100	
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP	
Cultural District	outside concrete				License of Express Rail Link (Appendix C).	
Concrete Batching	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.	
Plant (Construction		Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.	
Site)	For Laden Vehicle	Average truck weight, W	36	tons	Full loading of Aggregate Tipper Truck	
			45	tons	Full loading of Cement Tanker	
			30.8	tons	Full loading of Concrete Mixer	
		No. of truck trips per day	12	veh/hr	Aggregate Tpper Truck	
		1 ' ' '	2	veh/hr	Cement Tanker	
			6		Concrete Mixer	
		No. of operation hour	12		From 7:00-19:00	
		'			F10111 7.00-19.00	
	Cauras ID.	% of dust suppression	97.5	%	Com of aminaian vata of annuanta tinnay twolv annuant tanks and	
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and	
	CBH1-CBH4				concrete mixer.	
	CBH1-CBH4		1.63E-04	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively.	
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP	
Terminus Concrete	outside concrete				License of Express Rail Link (Appendix C).	
Batching Plant	batching plant -	Particle size multiplier, k	3 23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.	
Datoring Flant	batoning plant	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.	
	For Laden Vehicle	Average truck weight, W		tons	Full loading of Aggregate Tipper Truck	
	. or Eddon Vollidio	read track neight, 11		tons	Full loading of Cement Tanker	
				tons	Full loading of Concrete Mixer	
		TSP emission factor, E	00.0	10.10	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)	
		To dissoluti lactor, E	1199	g/VKT	Aggregate Tpper Truck	
				g/VKT	Cement Tanker	
				g/VKT	Concrete Mixer	
		No. of truck trips per day	0		Aggregate Tpper Truck	
			2		Cement Tanker	
			0	veh/hr	Concrete Mixer	
		No. of operation hour		hr	From 7:00-19:00	
		% of dust suppression	99.0	%		
		Emission Rate		g/m/s (mitigated)	Aggregate Tipper Truck	
				g/m/s (mitigated)	Cement Tanker	
			0.00E+00	g/m/s (mitigated)	Concrete Mixer	
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and	
					concrete mixer.	
	EP14		8 36E 06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and	
			0.502-06	g/ii/3 (iiiiigateu)	concrete mixer are 0, 2, and 0 veh/hr respectively.	
	EP15		4 OOE OE	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and	
			+.00∟-03	griiro (ilitigated)	concrete mixer are 12, 0, and 0 veh/hr respectively.	
	EP16		1 70F.05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and	
			1.702-03	g/ii/5 (iiiiigatea)	concrete mixer are 0, 0, and 6 veh/hr respectively.	
	EP17		8 52F-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and	
]	3.522 00	J J (ga.ca)	concrete mixer are 0, 0, and 3 veh/hr respectively.	

Works Area	Sources		Parameter		Remarks
	Paved haul road				All calculations and assumptions are extracted from SP
	outside concrete				License of Express Rail Link (Appendix C).
	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Plant (Construction Site)	For Unladen Vehicle	Road surface silt loading, sL Average truck weight, W		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
Onc)	or ornaderr vernole	Average truck weight, w		tons tons	Unladen weight of Aggregate Tipper Truck Unladen weight of Cement Tanker
				tons	Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
			457	g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of operation hour	12		From 7:00-19:00
l	0 10	% of dust suppression	97.5	%	
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
l	000/4 000/4				concrete mixer.
	CBX1-CBX4		6.12E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 2, and 6 veh/hr respectively.
West Kowloon F	Paved haul road				All calculations and assumptions are extracted from SP
	within concrete				License of Express Rail Link (Appendix C).
Batching Plant b	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
ļ.	Can Haladan Wabiata	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
				tons tons	Unladen weight of Cement Tanker Unladen weight of Concrete Mixer
		TSP emission factor, E	12	toris	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		TOT emission factor, E	457	g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
			001	9,	Extracted from Specified Processes License (checked on 13 Jan
		No. of truck trips per day			2012)
			0	veh/hr	Aggregate Tpper Truck
			2	veh/hr	Cement Tanker
			0	veh/hr	Concrete Mixer
		No. of operation hour	12	hr	From 7:00-19:00
		% of dust suppression	99.0	%	
		Emission Rate	0.00E+00	g/m/s (mitigated)	Aggregate Tipper Truck
			2.73E-06	g/m/s (mitigated)	Cement Tanker
			0.00E+00	g/m/s (mitigated)	Concrete Mixer
S	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP21		2.73E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22 EP23		1.52E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP23		3.26E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively.
	Unloading aggregate	Consumption Rate	272000	kg/h	Extracted from SP License of Express Rail Link (Appendix C).
	Source ID: EP9			Mg/h	Extracted from or Electrice of Express that Ellik (Appendix O).
Concrete Batching Plant (Unloading of		Particle size multiplier, k	0.74		For TSP, AP-42, section 13.2.4, 11/06 ed.
raw materials)		Moisture content, M		%,	Extracted from SP License of Express Rail Link (Appendix C).
/		Mean wind speed, U		m/s	PATH Year 2010 mean wind speed E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)
		Emission Factor, E	0.002165163	kg/Mg	(AP-42, section 13.2.4, 11/06 ed.)
			0.588924442	kg/hr	
		Mitigation efficiency	99	* *	Extracted from SP License of Express Rail Link (Appendix C).
		Emission Rate		g/s (mitigated)	
	Small Cementitious	TSP emission factor	30	mg/m3	All calculations and assumptions are extracted from SP
	Material Silos Source ID: EP5-EP8	Dust extraction flow rate for each mixer	1300	m3/hr	License of Express Rail Link (Appendix C).
Plant (Cement / PFA	oddioc ib. Li o Li o	No. of operation hour	12	hr	From 7:00 to 19:00
Silos)		No. of small cement silos	л		
			24 25		FDF: 01 FD0 FD0: 00:
		Emission height	21 or 22	g/s (mitigated)	EP5: 21m, EP6-EP8: 22m
-	PFA weight Hopper	Emission Rate Production rate		m3/hr	All calculations and assumptions are extracted from SP
		Density	0.001989	= -	License of Express Rail Link (Appendix C).
]		Emission Factor			Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1,
			2.60E-03	kg/Mg	6/06 ed.
		Emission Rate	2.30E-04	g/s (mitigated)	
West Kowloon N	Mixer Source ID:	TSP emission factor	40	mg/m3	All calculations and assumptions are extracted from SP
Cultural District E	EP1-EP2	Dust extraction flow rate for each		m3/hr	License of Express Rail Link (Appendix C).
Concrete Batching		No. of operation hour		hr	From 7:00 to 19:00
		No. of operation hour No. of small cement silos Emission height	12 2 13		From 7:00 to 19:00

Works Area	Sources		Parameter		Remarks
	Heavy construction	Percentage active area, p	100	%	Assume 100% works area for heavy construction
Cultural District	Source ID: I1-I29,	Mitigation efficiency	91.7		Water suppression 12 times a day
	IB3-IB5	No. of working days per month, d		days	
		No. of working hours per day, h		hour	
		Emission Factor		Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate		g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			1.9878E-05	g/m²/s (mitigated)	
	Wind Francism	Daysontono activo agas a	100	0/	
	Wind Erosion Source ID: I1-I29,	Percentage active area, p Emission Factor	100	% Mg/hectare/year	AP42. Table 11.9-4
	IB3-IB5	Emission Pactor	2.69533E-06		=0.85*1000000/(10000*365*24*60*60)*p/100
	100-100	Emission rate	2.09033E-00	g/111-75	=0.83 1000000/(10000 303 24 00 00) p/100
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Cultural District	outside concrete				License of Express Rail Link (Appendix C).
	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Plant (Construction		Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
Site)	For Laden Vehicle	Average truck weight, W		tons	Full loading of Aggregate Tipper Truck
				tons	Full loading of Cement Tanker
				tons	Full loading of Concrete Mixer
		No. of truck trips per day		veh/hr	Aggregate Tpper Truck
				veh/hr	Cement Tanker
			6	veh/hr	Concrete Mixer
		No. of operation hour	12	hr	From 7:00-19:00
		% of dust suppression	97.5	%	
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	CBH1-CBH4		1.63F-04	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
)A/	B 11 1 1			g,, c (gatea)	concrete mixer are 12, 2, and 6 veh/hr respectively.
	Paved haul road				All calculations and assumptions are extracted from SP
	outside concrete batching plant -	Particle size multiplier, k	2.00	g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Datolling Flatit	patering plant -	Road surface silt loading, sL		g/wil g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Laden Vehicle	Average truck weight, W		tons	Full loading of Aggregate Tipper Truck
				tons	Full loading of Cement Tanker
				tons	Full loading of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		·	1199	g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of truck trips per day		veh/hr	Aggregate Tpper Truck
				veh/hr	Cement Tanker
		No. of an and Paul Incom		veh/hr	Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
		% of dust suppression Emission Rate	99.0		Aggregate Tipper Truck
		Emission hate		g/m/s (mitigated) g/m/s (mitigated)	Aggregate Tipper Truck Cement Tanker
				g/m/s (mitigated)	Concrete Mixer
	Source ID:	Sum of Emission Rate	0.002100		Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	EP14		0.005.00	g/m/o (mitigatod)	No. of vehicle of aggregate tipper truck, cement tanker and
			8.36E-06	g/m/s (mitigated)	concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP15		4 00F-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
			4.00€ 00		concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP16		1.70E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	ED47				concrete mixer are 0, 0, and 6 veh/hr respectively.
	EP17		8.52E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
West Kowloon	Paved haul road				concrete mixer are 0, 0, and 3 veh/hr respectively. All calculations and assumptions are extracted from SP
Cultural District	outside concrete				License of Express Rail Link (Appendix C).
	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Plant (Construction		Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
Site)	For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
		ğ ,		tons	Unladen weight of Cement Tanker
				tons	Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
			457	g/VKT	Aggregate Tpper Truck
			491	g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
		% of dust suppression	97.5		
	Source ID:	Sum of Emission Rate	00		Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	CBX1-CBX4				No. of vehicle of aggregate tipper truck, cement tanker and
	ODV1-ODV4		6.12E-05	g/m/s (mitigated)	concrete mixer are 12, 2, and 6 veh/hr respectively.
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
	within concrete				License of Express Rail Link (Appendix C).
	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
		Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
		,		tons	Unladen weight of Cement Tanker
]		tons	Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
			457	g/VKT	Aggregate Tpper Truck
			491	g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No of two states are a			Extracted from Specified Processes License (checked on 13 Jan
		No. of truck trips per day			2012)
			0	veh/hr	Aggregate Tpper Truck
				veh/hr	Cement Tanker
				veh/hr	Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
		% of dust suppression	99.0		
		Emission Rate		g/m/s (mitigated)	Aggregate Tipper Truck
				g/m/s (mitigated)	Cement Tanker
]		g/m/s (mitigated)	Concrete Mixer
I	I	ı	0.00∟+00	19, 11, 0 (Illiagatou)	CONTOLOTO IVIIAGI

Works Area	Sources		Parameter		Remarks
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP21		2.73E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22		1.52E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP23		3.26E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively.
Cultural District	Unloading aggregate Source ID: EP9	Consumption Rate	272000 272	kg/h Mg/h	Extracted from SP License of Express Rail Link (Appendix C).
Concrete Batching Plant (Unloading of		Particle size multiplier, k	0.74		For TSP, AP-42, section 13.2.4, 11/06 ed.
raw materials)		Moisture content, M Mean wind speed, U		% m/s	Extracted from SP License of Express Rail Link (Appendix C). PATH Year 2010 mean wind speed
,		Emission Factor, E	0.002165163		E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4) (AP-42, section 13.2.4, 11/06 ed.)
			0.588924442	kg/hr	(,
		Mitigation efficiency	99		Extracted from SP License of Express Rail Link (Appendix C).
		Emission Rate		g/s (mitigated)	
Cultural District	Small Cementitious Material Silos Source ID: EP5-EP8	TSP emission factor Dust extraction flow rate for each		mg/m3 m3/hr	All calculations and assumptions are extracted from SP License of Express Rail Link (Appendix C).
Plant (Cement / PFA		No. of operation hour	12	hr	From 7:00 to 19:00
Silos)		No. of small cement silos	4		
		Emission height	21 or 22		EP5: 21m, EP6-EP8: 22m
		Emission Rate	1.08E-02	g/s (mitigated)	
	PFA weight Hopper	Production rate		m3/hr	All calculations and assumptions are extracted from SP
	Source ID: EP3-EP4		0.001989	mg/m3	License of Express Rail Link (Appendix C).
		Emission Factor	2.60E-03	kg/Mg	Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1, 6/06 ed.
		Emission Rate	2.30E-04	g/s (mitigated)	
	Mixer Source ID:	TSP emission factor		mg/m3	All calculations and assumptions are extracted from SP
		Dust extraction flow rate for each		m3/hr	License of Express Rail Link (Appendix C).
Concrete Batching		No. of operation hour	12	hr	From 7:00 to 19:00
Plant (Mixing Tower)		No. of small cement silos Emission height	2		
		Emission Rate	1 67F-02	g/s (mitigated)	

Works Area	Sources		Parameter		Remarks	
West Kowloon	Heavy construction	Percentage active area, p	100	%	Assume 100% works area for heavy construction	
Cultural District	Source ID: J1-J24,	Mitigation efficiency	91.7		Water suppression 12 times a day	
	JB3-JB5	No. of working days per month, d	26	days		
		No. of working hours per day, h		hour		
		Emission Factor		Mg/hectare/month of activity	AP42, Section 13.2.3.3	
		Emission Rate		g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100	
			1.9878E-05	g/m²/s (mitigated)		
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		400			
	Wind Erosion Source ID: J1-J24.	Percentage active area, p	100		AD40 T-bl- 44.0.4	
	JB3-JB5	Emission Factor Emission Rate		Mg/hectare/year	AP42, Table 11.9-4 =0.85*1000000/(10000*365*24*60*60)*p/100	
	JB3-JB3	Emission Rate	2.69533E-06	g/m²/s	=0.85 1000000/(10000 365 24 60 60) p/100	
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP	
Cultural District	outside concrete				License of Express Rail Link (Appendix C).	
Concrete Batching	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.	
Plant (Construction		Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.	
Site)	For Laden Vehicle	Average truck weight, W	36	tons	Full loading of Aggregate Tipper Truck	
			45	tons	Full loading of Cement Tanker	
			30.8	tons	Full loading of Concrete Mixer	
		No. of truck trips per day	12	veh/hr	Aggregate Tpper Truck	
		l a constant a proper const		veh/hr	Cement Tanker	
				veh/hr	Concrete Mixer	
		No. of operation hour	12		From 7:00-19:00	
		% of dust suppression	97.5		1101117.00-13.00	
	Source ID:	Sum of Emission Rate	97.5	/6	Sum of emission rate of aggregate tipper truck, cement tanker and	
	Source ID.	Sull of Ellission Rate			concrete mixer.	
	CBH1-CBH4				No. of vehicle of aggregate tipper truck, cement tanker and	
	OBITI-OBITA		1.63E-04	g/m/s (mitigated)	concrete mixer are 12, 2, and 6 veh/hr respectively.	
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP	
Terminus Concrete	outside concrete				License of Express Rail Link (Appendix C).	
Batching Plant	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.	
		Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.	
	For Laden Vehicle	Average truck weight, W		tons	Full loading of Aggregate Tipper Truck	
				tons	Full loading of Cement Tanker	
			30.8	tons	Full loading of Concrete Mixer	
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)	
				g/VKT	Aggregate Tpper Truck	
				g/VKT	Cement Tanker	
				g/VKT	Concrete Mixer	
		No. of truck trips per day		veh/hr	Aggregate Tpper Truck	
			2		Cement Tanker	
		No. of an avalian have	12	veh/hr hr	Concrete Mixer From 7:00-19:00	
		No. of operation hour	99.0		F10111 7:00-19:00	
		% of dust suppression Emission Rate			Aggregate Tipper Truck	
		Ellission hate	0.00E+00	g/m/s (mitigated) g/m/s (mitigated)	Cement Tanker	
				g/m/s (mitigated) g/m/s (mitigated)	Concrete Mixer	
	Source ID:	Sum of Emission Rate	0.00∟+00	g/11/3 (IIIIIgated)	Sum of emission rate of aggregate tipper truck, cement tanker and	
	Course ID.	Joan of Emission Hate			concrete mixer.	
	EP14				No. of vehicle of aggregate tipper truck, cement tanker and	
			8.36E-06	g/m/s (mitigated)	concrete mixer are 0, 2, and 0 veh/hr respectively.	
	EP15				No. of vehicle of aggregate tipper truck, cement tanker and	
			4.00E-05	g/m/s (mitigated)	concrete mixer are 12, 0, and 0 veh/hr respectively.	
	EP16		4 705		No. of vehicle of aggregate tipper truck, cement tanker and	
			1.70E-05	g/m/s (mitigated)	concrete mixer are 0, 0, and 6 veh/hr respectively.	
	EP17		0.505.00	(((14 10 1	No. of vehicle of aggregate tipper truck, cement tanker and	
			8.52E-06	g/m/s (mitigated)	concrete mixer are 0, 0, and 3 veh/hr respectively.	
-	•	•		•		

Works Area	Sources		Parameter		Remarks
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Cultural District	outside concrete				License of Express Rail Link (Appendix C).
Concrete Batching	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Plant (Construction	Faul Interded Walstell	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
Site)	For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
				tons tons	Unladen weight of Cement Tanker Unladen weight of Concrete Mixer
		TSP emission factor, E	12	toris	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		To composition addor, 2	457	g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
		% of dust suppression	97.5		
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	CBX1-CBX4		6 105 05	a/m/a (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
			6.12E-03	g/m/s (mitigated)	concrete mixer are 12, 2, and 6 veh/hr respectively.
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Terminus Concrete Batching Plant	within concrete batching plant -	Particle size multiplier, k	2 22	g/VKT	License of Express Rail Link (Appendix C). AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Datching Flant	batching plant -	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed. AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
		Two rage track weight, w		tons	Unladen weight of Cement Tanker
			12	tons	Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
			457	g/VKT	Aggregate Tpper Truck
			491	g/VKT	Cement Tanker
			391	g/VKT	Concrete Mixer
		No. of truck trips per day			Extracted from Specified Processes License (checked on 13 Jan
					2012)
				veh/hr	Aggregate Tpper Truck
				veh/hr	Cement Tanker
				veh/hr	Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
		% of dust suppression Emission Rate	99.0		Assurante Times Truels
		Emission Rate		g/m/s (mitigated)	Aggregate Tipper Truck Cement Tanker
				g/m/s (mitigated) g/m/s (mitigated)	Concrete Mixer
	Source ID:	Sum of Emission Rate	0.00L+00	g/III/s (IIIIIgated)	
	Codice ib.	our or Emission rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP21				No. of vehicle of aggregate tipper truck, cement tanker and
			2.73E-06	g/m/s (mitigated)	concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22		1 505 05	a /aa /a / aaisi a as a d\	No. of vehicle of aggregate tipper truck, cement tanker and
			1.52E-05	g/m/s (mitigated)	concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP23		3.26E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
Mast Kawlasa	I la la a dina a a aucanata	O			concrete mixer are 0, 0, and 3 veh/hr respectively.
West Kowloon Cultural District	Unloading aggregate Source ID: EP9	Consumption Hate	272000		Extracted from SP License of Express Rail Link (Appendix C).
Concrete Batching	000.00 12 . 2. 0	Particle size multiplier, k	0.74	Mg/h	For TSP, AP-42, section 13.2.4, 11/06 ed.
Plant (Unloading of		Moisture content. M		%	Extracted from SP License of Express Rail Link (Appendix C).
raw materials)		Mean wind speed, U		m/s	PATH Year 2010 mean wind speed
		' '			E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)
		Emission Factor, E	0.002165163	кд/мд	(AP-42, section 13.2.4, 11/06 ed.)
			0.588924442	•	
		Mitigation efficiency		%	Extracted from SP License of Express Rail Link (Appendix C).
W+KI	0	Emission Rate		g/s (mitigated)	
West Kowloon Cultural District	Small Cementitious Material Silos	TSP emission factor Dust extraction flow rate for each	30	mg/m3	All calculations and assumptions are extracted from SP
Concrete Batching	Source ID: EP5-EP8	mixer	1300	m3/hr	License of Express Rail Link (Appendix C).
Plant (Cement / PFA		No. of operation hour	12	hr	From 7:00 to 19:00
Silos)		No. of small cement silos	4		
ĺ			04 00		EDE: 01m EDC ED0: 00m
ĺ		Emission Rate	21 or 22	g/s (mitigated)	EP5: 21m, EP6-EP8: 22m
ĺ	PFA weight Hopper	Emission Rate Production rate		m3/hr	All calculations and assumptions are extracted from SP
ĺ	Source ID: EP3-EP4	Density	0.001989		License of Express Rail Link (Appendix C).
ĺ	1	Emission Factor		_	Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1,
ĺ			2.60E-03	kg/Mg	6/06 ed.
1		Emission Rate	2.30E-04	g/s (mitigated)	
		Litilogion riate			
West Kowloon	Mixer Source ID:	TSP emission factor		mg/m3	All calculations and assumptions are extracted from SP
Cultural District	Mixer Source ID: EP1-EP2	TSP emission factor Dust extraction flow rate for each	1500	m3/hr	License of Express Rail Link (Appendix C).
Cultural District Concrete Batching	EP1-EP2	TSP emission factor Dust extraction flow rate for each No. of operation hour	1500 12	m3/hr hr	· ·
Cultural District	EP1-EP2	TSP emission factor Dust extraction flow rate for each	1500	m3/hr hr	License of Express Rail Link (Appendix C).

Works Area	Sources		Parameter		Remarks
West Kowloon	Heavy construction	Percentage active area, p	100		Assume 100% works area for heavy construction
Cultural District	Source ID: K1-K12,	Mitigation efficiency	91.7		Water suppression 12 times a day
	KB3-KB5	No. of working days per month, d		days	
		No. of working hours per day, h		hour	
		Emission Factor		Mg/hectare/month of activity	AP42, Section 13.2.3.3
		Emission Rate		g/m²/s (unmitigated)	=2.69*1000000/(10000*d*h*60*60)*p/100
			1.9878E-05	g/m²/s (mitigated)	
	Wind Erosion	Percentage active area, p	100	o/_	
	Source ID: K1-K12.	Emission Factor		Mg/hectare/year	AP42. Table 11.9-4
	KB3-KB5	Emission Rate	2.69533E-06		=0.85*1000000/(10000*365*24*60*60)*p/100
	1.50 1.50	Z.III.OSIOII I IAIO	2.000002 00	9,,6	= 0.00 T000000,(T0000 000 2 T 00 00) p/ 100
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Cultural District	outside concrete				License of Express Rail Link (Appendix C).
Concrete Batching	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Plant (Construction		Road surface silt loading, sL	12	g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
Site)	For Laden Vehicle	Average truck weight, W	36	tons	Full loading of Aggregate Tipper Truck
				tons	Full loading of Cement Tanker
			30.8	tons	Full loading of Concrete Mixer
		No. of truck trips per day	12	veh/hr	Aggregate Tpper Truck
			2	veh/hr	Cement Tanker
			6	veh/hr	Concrete Mixer
		No. of operation hour	12	hr	From 7:00-19:00
		% of dust suppression	97.5		1107.00 10.00
	Source ID:	Sum of Emission Rate	57.5	⁷⁰	Sum of emission rate of aggregate tipper truck, cement tanker and
	Course ID.	Cam or Emission ridge			concrete mixer.
	CBH1-CBH4				No. of vehicle of aggregate tipper truck, cement tanker and
	05		1.63E-04	g/m/s (mitigated)	concrete mixer are 12, 2, and 6 veh/hr respectively.
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Terminus Concrete	outside concrete				License of Express Rail Link (Appendix C).
Batching Plant	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Ů		Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	For Laden Vehicle	Average truck weight, W	36	tons	Full loading of Aggregate Tipper Truck
			45	tons	Full loading of Cement Tanker
			30.8	tons	Full loading of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
			1199	g/VKT	Aggregate Tpper Truck
			1505	g/VKT	Cement Tanker
			1022	g/VKT	Concrete Mixer
		No. of truck trips per day	0		Aggregate Tpper Truck
			2		Cement Tanker
				veh/hr	Concrete Mixer
		No. of operation hour		hr	From 7:00-19:00
		% of dust suppression	99.0		
		Emission Rate		g/m/s (mitigated)	Aggregate Tipper Truck
				g/m/s (mitigated)	Cement Tanker
			0.00E+00	g/m/s (mitigated)	Concrete Mixer
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	EP14		8.36E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	EDIS			j , , , ,	concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP15		4.00E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	ED4C			ļ , , , ,	concrete mixer are 12, 0, and 0 veh/hr respectively.
	EP16		1.70E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	EP17			, , ,	concrete mixer are 0, 0, and 6 veh/hr respectively.
	E71/		8.52E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
	L		l		concrete mixer are 0, 0, and 3 veh/hr respectively.

Works Area	Sources	Parameter			Remarks
West Kowloon	Paved haul road		rarameter		All calculations and assumptions are extracted from SP
Cultural District	outside concrete				License of Express Rail Link (Appendix C).
Concrete Batching	batching plant -	Particle size multiplier, k	3.23	g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
Plant (Construction	01	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
Site)	For Unladen Vehicle	Average truck weight, W		tons	Unladen weight of Aggregate Tipper Truck
			15	tons	Unladen weight of Cement Tanker
			12	tons	Unladen weight of Concrete Mixer
		TSP emission factor, E			E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
				g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
		No. of operation hour	12	hr	From 7:00-19:00
		% of dust suppression	97.5	%	
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and
					concrete mixer.
	CBX1-CBX4		6 125 05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and
			0.12L-03	g/III/S (IIIItigated)	concrete mixer are 12, 2, and 6 veh/hr respectively.
West Kowloon	Paved haul road				All calculations and assumptions are extracted from SP
Terminus Concrete	within concrete	Destinte dina sociatedina la	0.00	- 0.07	License of Express Rail Link (Appendix C).
Batching Plant	batching plant -	Particle size multiplier, k		g/VKT	AP-42, Section 13.2.1, Table 13.2.1-1, 01/11 ed.
	For Unladen Vehicle	Road surface silt loading, sL		g/m2	AP-42, Section 13.2.1, Table 13.2.1-3, 01/11 ed.
	or ornaderr verilde	Average truck weight, W		tons tons	Unladen weight of Aggregate Tipper Truck
				tons	Unladen weight of Cement Tanker Unladen weight of Concrete Mixer
		TSP emission factor, E	12	ions	E=k x (sL)^0.91x (W)^1.02 (AP-42, section 13.2.1, 01/11 ed.)
		Tor emission factor, E	457	g/VKT	Aggregate Tpper Truck
				g/VKT	Cement Tanker
				g/VKT	Concrete Mixer
			391	9/ • • • • • • • • • • • • • • • • • • •	Extracted from Specified Processes License (checked on 13 Jan
		No. of truck trips per day			2012)
			0	veh/hr	Aggregate Tpper Truck
				veh/hr	Cement Tanker
				veh/hr	Concrete Mixer
		No. of aparation hour			
		No. of operation hour		hr o/	From 7:00-19:00
		% of dust suppression	99.0		Accusate Times Twisk
		Emission Rate		g/m/s (mitigated)	Aggregate Tipper Truck
				g/m/s (mitigated)	Cement Tanker
	0 ID:	Owner of Frederica Bota	0.00E+00	g/m/s (mitigated)	Concrete Mixer
	Source ID:	Sum of Emission Rate			Sum of emission rate of aggregate tipper truck, cement tanker and concrete mixer.
	EP21		2.73E-06	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 2, and 0 veh/hr respectively.
	EP22		1.52E-05	g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 12, 0, and 0 veh/hr respectively.
W	EP23			g/m/s (mitigated)	No. of vehicle of aggregate tipper truck, cement tanker and concrete mixer are 0, 0, and 3 veh/hr respectively.
West Kowloon Cultural District	Unloading aggregate Source ID: EP9	Consumption Rate	272000 272	kg/h Mg/h	Extracted from SP License of Express Rail Link (Appendix C).
Concrete Batching		Particle size multiplier, k	0.74	•	For TSP, AP-42, section 13.2.4, 11/06 ed.
Plant (Unloading of		Moisture content, M	2	%	Extracted from SP License of Express Rail Link (Appendix C).
raw materials)		Mean wind speed, U	3.5	m/s	PATH Year 2010 mean wind speed
		Emission Easter E	0.000105100	Iva /h Am	E=k x (0.0016) x ((U/2.2)^1.3/(M/2)^1.4)
		Emission Factor, E	0.002165163	kg/Mg	(AP-42, section 13.2.4, 11/06 ed.)
			0.588924442		
		Mitigation efficiency		%	Extracted from SP License of Express Rail Link (Appendix C).
		Emission Rate		g/s (mitigated)	
West Kowloon	Small Cementitious	TSP emission factor Dust extraction flow rate for each	30	mg/m3	All calculations and assumptions are extracted from SP
Cultural District Concrete Batching	Material Silos Source ID: EP5-EP8	mixer	1300	m3/hr	License of Express Rail Link (Appendix C).
Plant (Cement / PFA	Source ID. Er S-Er o	No. of operation hour	12	hr	From 7:00 to 19:00
Silos)		No. of small cement silos	4		
		Emission height	21 or 22		EP5: 21m, EP6-EP8: 22m
		Emission Rate		g/s (mitigated)	
	PFA weight Hopper	Production rate		m3/hr	All calculations and assumptions are extracted from SP
		Density	0.001989		License of Express Rail Link (Appendix C).
		Emission Factor		,	Weight hopper loading, AP-42, section 11.12-4, Table 11.12-1,
			2.60E-03	kg/Mg	6/06 ed.
		Emission Rate	2.30E-04	g/s (mitigated)	
West Kowloon	Mixer Source ID:	TSP emission factor	40	mg/m3	All calculations and assumptions are extracted from SP
Cultural District	EP1-EP2	Dust extraction flow rate for each	1500	m3/hr	License of Express Rail Link (Appendix C).
Concrete Batching		No. of operation hour		hr	From 7:00 to 19:00
Plant (Mixing Tower)		No. of small cement silos	2		
		Emission height Emission Rate	13 1 67F-02	g/s (mitigated)	
1	ı	J01011 1 IQIG	1.07 L-02	igra (mingatou)	