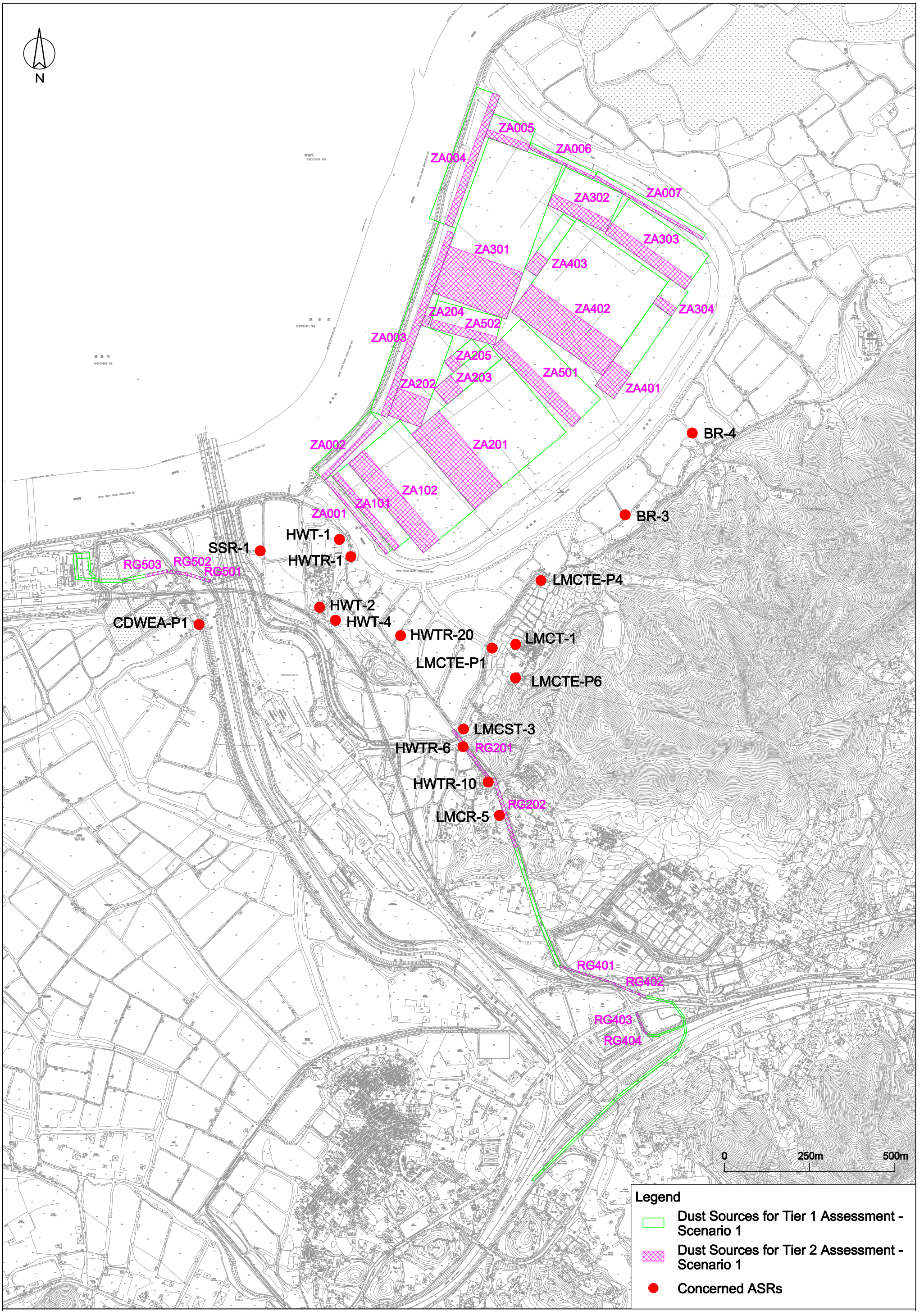
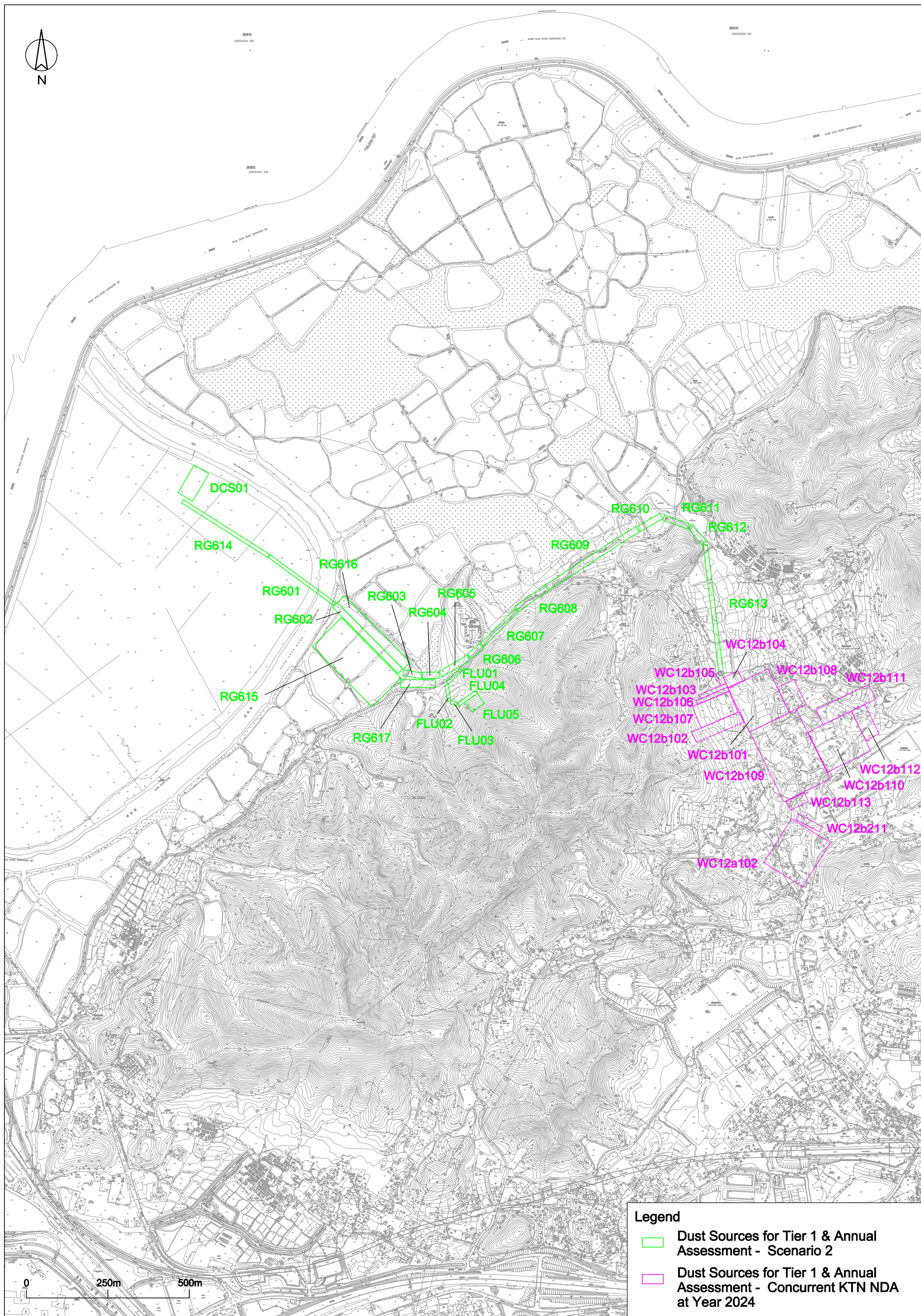


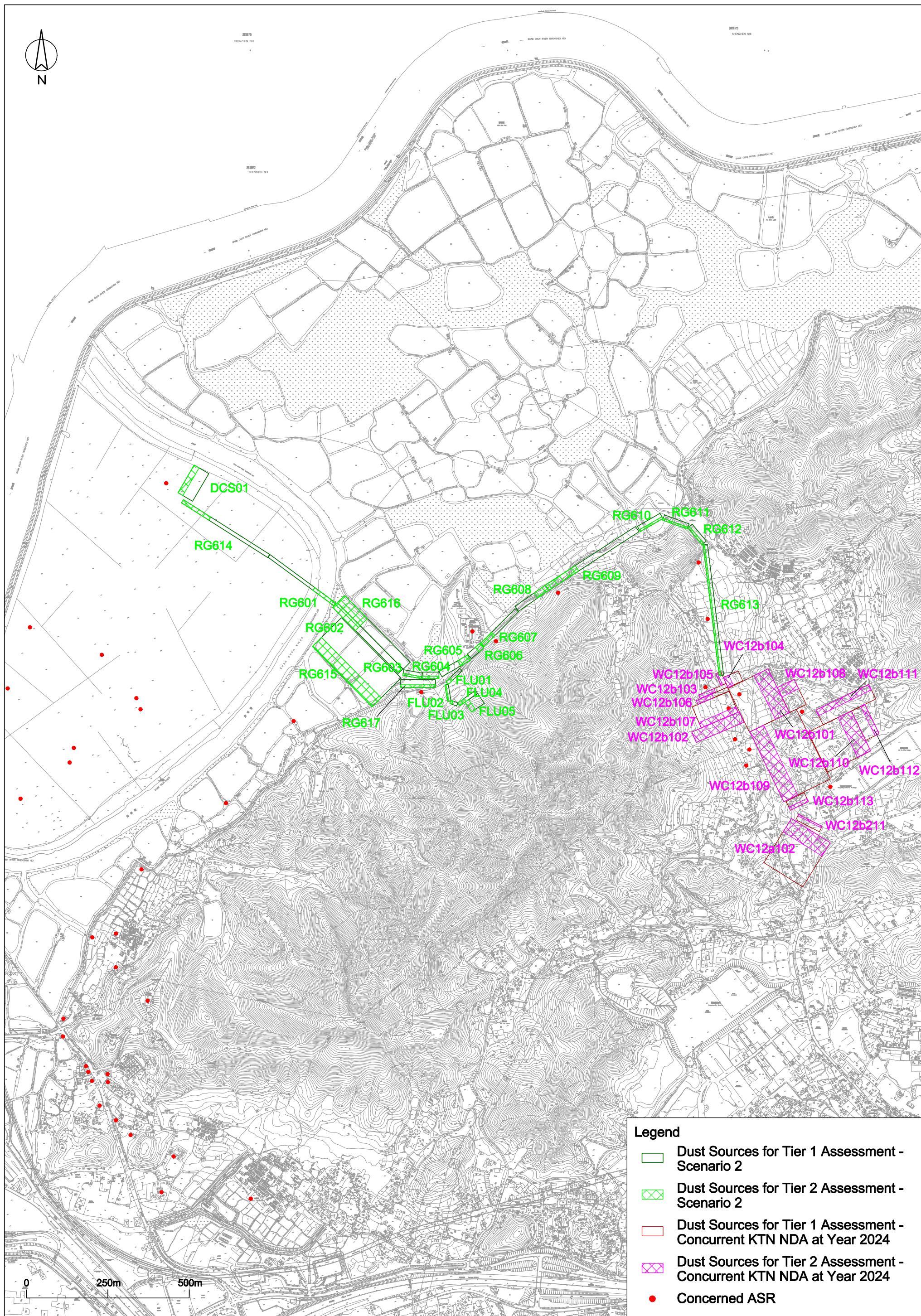
**Locations of Dust Emission Source (Lok Ma Chau Loop) –  
for Tier 1 & Annual Assessment – Scenario 1**



Locations of Dust Emission Source (Lok Ma Chau Loop) –  
for Tier 2 Assessment – Scenario 1



**Locations of Dust Emission Source (Lok Ma Chau Loop) –  
for Tier 1 & Annual Assessment – Scenario 2**



Locations of Dust Emission Source (Lok Ma Chau Loop) –  
for Tier 2 Assessment – Scenario 2

**Project: 209840-03 Planning and Engineering Study on Development of Lok Ma Chau Loop - Investigation**  
**Title: Calculation of Emission factor for Heavy Construction (Under Unmitigated Scenario)**

E = 1.2 tons/acre/month of activity (ref : AP-42 S13.2.3.3)  
 or = 2.69 Mg/hectare/month of activity

Where

E = Emission factor

Assume

For Annual Emission:

**Unmitigated (Day Time)**

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%):	0.00%	unmitigated scenario
Working days per month:	24	days
Working hours per day:	8	hours
E (g/sq.m/day):	0.6725	assume 24 working days per month
E (g/sq.m/s):	<b>0.00023351</b>	calculated, 8 working hours per day

For 1-hour an 24-hour Emission:

**Unmitigated (Day Time)**

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%):	0.00%	unmitigated scenario
Working days per month:	24	days
Working hours per day:	8	hours
E (g/sq.m/day):	11.2083	assume 24 working days per month
E (g/sq.m/s):	<b>0.000389178</b>	calculated, 8 working hours per day

**Project: 209840-03 Planning and Engineering Study on Development of Lok Ma Chau Loop - Investigation**  
**Title: Calculation of Emission factor for Heavy Construction (Under Unmitigated Scenario)**

E = 1.2 tons/acre/month of activity (ref : AP-42 S13.2.3.3)  
 or = 2.69 Mg/hectare/month of activity

Where

E = Emission factor

Assume

For Annual Emission:

**Unmitigated (Day Time)**

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%):	0.00%	unmitigated scenario
Working days per month:	24	days
Working hours per day:	12	hours
E (g/sq.m/day):	0.6725	assume 24 working days per month
E (g/sq.m/s):	<b>0.000015567</b>	calculated, 12 working hours per day

For 1-hour an 24-hour Emission:

**Unmitigated (Day Time)**

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%):	0.00%	unmitigated scenario
Working days per month:	24	days
Working hours per day:	12	hours
E (g/sq.m/day):	11.2083	assume 24 working days per month
E (g/sq.m/s):	<b>0.000259452</b>	calculated, 12 working hours per day

**Project: 209840-03 Planning and Engineering Study on Development of Lok Ma Chau Loop - Investigation**  
**Title: Calculation of Emission factor for Wind Erosion (Under Unmitigated Scenario)**

E = 0.85 Mg/hectare/yr (ref : AP-42 S11.9, Table 11.9.4)

Where

E = Emission factor

Assume

For Annual Emission:

**Unmitigated (Non-working Hours)**

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000001617</b>	calculated, 24-hour emission

**Unmitigated (Day Time)**

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%)	0.00%	unmitigated scenario
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000001617</b>	calculated, 24-hour emission

For 1-hour an 24-hour Emission:

**Unmitigated (Non-working Hours)**

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000026953</b>	calculated, 24-hour emission

**Unmitigated (Day Time)**

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%)	0.00%	unmitigated scenario
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000026953</b>	calculated, 24-hour emission

**Project: Concurrent North East New Territories New Development Areas Planning and Engineering Study – Investigation**  
**Title: Calculation of Emission factor for Heavy Construction (Under Unmitigated Scenario)**

E = 1.2 tons/acre/month of activity (ref : AP-42 S13.2.3.3)  
 or = 2.69 Mg/hectare/month of activity

Where

E = Emission factor

Assume

For Annual Emission:

**Unmitigated (Day Time)**

Active operating area (%):	6	adopted from EIA of NENT NDA
Mitigation efficiency (%):	0.00%	unmitigated scenario
Working days per month:	26	days
Working hours per day:	12	hours
E (g/sq.m/day):	0.6208	assume 26 working days per month
E (g/sq.m/s):	<b>0.000014370</b>	calculated, 12 working hours per day

For 1-hour an 24-hour Emission:

**Unmitigated (Day Time)**

Active operating area (%):	100	assumed all works area are in full operation for unmitigated assessment
Mitigation efficiency (%):	0.00%	unmitigated scenario
Working days per month:	26	days
Working hours per day:	12	hours
E (g/sq.m/day):	10.3462	assume 26 working days per month
E (g/sq.m/s):	<b>0.000239494</b>	calculated, 12 working hours per day



**Project: Concurrent North East New Territories New Development Areas Planning and Engineering Study – Investigation**  
**Title: Calculation of Emission factor for Wind Erosion (Under Unmitigated Scenario)**

E = 0.85 Mg/hectare/yr (ref : AP-42 S11.9, Table 11.9.4)

Where

E = Emission factor

Assume

For Annual Emission:

**Unmitigated (Non-working Hours)**

Active operating area (%):	6	adopted from EIA of NENT NDA
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000001617</b>	calculated, 24-hour emission

**Unmitigated (Day Time)**

Active operating area (%):	6	adopted from EIA of NENT NDA
Mitigation efficiency (%)	0.00%	unmitigated scenario
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000001617</b>	calculated, 24-hour emission

For 1-hour an 24-hour Emission:

**Unmitigated (Non-working Hours)**

Active operating area (%):	100	assumed all works area are in full operation for unmitigated assessment
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000026953</b>	calculated, 24-hour emission

**Unmitigated (Day Time)**

Active operating area (%):	100	assumed all works area are in full operation for unmitigated assessment
Mitigation efficiency (%)	0.00%	unmitigated scenario
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000026953</b>	calculated, 24-hour emission

**Project: 209840-03 Planning and Engineering Study on Development of Lok Ma Chau Loop - Investigation**  
**Title: Calculation of Emission factor for Heavy Construction (Under Mitigated Scenario)**

E = 1.2 tons/acre/month of activity (ref : AP-42 S13.2.3.3)  
 or = 2.69 Mg/hectare/month of activity

Where

E = Emission factor

Assume

For Annual Emission:

**Mitigated (Day Time)**

Active operating area (%): 6 refer to Appendix 3-1 for Justification  
 Mitigation efficiency (%): 92.10% watering once per hour  
 Working days per month: 24 days  
 Working hours per day: 8 hours  
 E (g/sq.m/day): 0.0531 assume 24 working days per month  
 E (g/sq.m/s): **0.00001845** calculated, 8 working hours per day

For 1-hour an 24-hour Emission:

**Mitigated (Day Time)**

Active operating area (%): 100 asumed all works area are in full operation for Tier 1 and Tier 2 assessment  
 Mitigation efficiency (%): 92.10% watering once per hour  
 Working days per month: 24 days  
 Working hours per day: 8 hours  
 E (g/sq.m/day): 0.8855 assume 24 working days per month  
 E (g/sq.m/s): **0.000030745** calculated, 8 working hours per day

**Project: 209840-03 Planning and Engineering Study on Development of Lok Ma Chau Loop - Investigation**  
**Title: Calculation of Emission factor for Heavy Construction (Under Mitigated Scenario)**

E = 1.2 tons/acre/month of activity (ref : AP-42 S13.2.3.3)  
 or = 2.69 Mg/hectare/month of activity

Where

E = Emission factor

Assume

For Annual Emission:

**Mitigated (Day Time)**

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%):	92.10%	watering once per hour
Working days per month:	24	days
Working hours per day:	12	hours
E (g/sq.m/day):	0.0531	assume 24 working days per month
E (g/sq.m/s):	<b>0.00001230</b>	calculated, 12 working hours per day

For 1-hour an 24-hour Emission:

**Mitigated (Day Time)**

Active operating area (%):	100	asumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%):	92.10%	watering once per hour
Working days per month:	24	days
Working hours per day:	12	hours
E (g/sq.m/day):	0.8855	assume 24 working days per month
E (g/sq.m/s):	<b>0.000020497</b>	calculated, 12 working hours per day

**Project: 209840-03 Planning and Engineering Study on Development of Lok Ma Chau Loop - Investigation**  
**Title: Calculation of Emission factor for Wind Erosion (Under Mitigated Scenario)**

E = 0.85 Mg/hectare/yr (ref : AP-42 S11.9, Table 11.9.4)

Where

E = Emission factor

Assume

For Annual Emission:

**Unmitigated (Non-working Hours)**

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000001617</b>	calculated, 24-hour emission

**Mitigated (Day Time)**

Active operating area (%):	6	refer to Appendix 3-1 for Justification
Mitigation efficiency (%)	92.10%	watering once per hour
E (g/sqm/day)	0.001103836	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000000128</b>	calculated, 24-hour emission

For 1-hour an 24-hour Emission:

**Unmitigated (Non-working Hours)**

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000026953</b>	calculated, 24-hour emission

**Mitigated (Day Time)**

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%)	92.10%	watering once per hour
E (g/sqm/day)	0.01839726	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000002129</b>	calculated, 24-hour emission

**Project: Concurrent North East New Territories New Development Areas Planning and Engineering Study – Investigation**  
**Title: Calculation of Emission factor for Heavy Construction (Under Mitigated Scenario)**

E = 1.2 tons/acre/month of activity (ref : AP-42 S13.2.3.3)  
 or = 2.69 Mg/hectare/month of activity

Where

E = Emission factor

Assume

For Annual Emission:

**Mitigated (Day Time)**

Active operating area (%):	6	adopted from EIA of NENT NDA
Mitigation efficiency (%):	92.10%	watering once per hour
Working days per month:	26	days
Working hours per day:	12	hours
E (g/sq.m/day):	0.0490	assume 26 working days per month
E (g/sq.m/s):	<b>0.00001135</b>	calculated, 12 working hours per day

For 1-hour an 24-hour Emission:

**Mitigated (Day Time)**

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%):	92.10%	watering once per hour
Working days per month:	26	days
Working hours per day:	12	hours
E (g/sq.m/day):	0.8173	assume 26 working days per month
E (g/sq.m/s):	<b>0.000018920</b>	calculated, 12 working hours per day

**Project: Concurrent North East New Territories New Development Areas Planning and Engineering Study – Investigation**  
**Title: Calculation of Emission factor for Wind Erosion (Under Mitigated Scenario)**

E = 0.85 Mg/hectare/yr (ref : AP-42 S11.9, Table 11.9.4)

Where

E = Emission factor

Assume

For Annual Emission:

**Unmitigated (Non-working Hours)**

Active operating area (%):	6	adopted from EIA of NENT NDA
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000001617</b>	calculated, 24-hour emission

**Mitigated (Day Time)**

Active operating area (%):	6	adopted from EIA of NENT NDA
Mitigation efficiency (%)	92.10%	watering once per hour
E (g/sqm/day)	0.001103836	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000000128</b>	calculated, 24-hour emission

For 1-hour an 24-hour Emission:

**Unmitigated (Non-working Hours)**

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%)	0.00%	no mitigation measure during non-working hours
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000026953</b>	calculated, 24-hour emission

**Mitigated (Day Time)**

Active operating area (%):	100	assumed all works area are in full operation for Tier 1 and Tier 2 assessment
Mitigation efficiency (%)	92.10%	watering once per hour
E (g/sqm/day)	0.01839726	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	<b>0.0000002129</b>	calculated, 24-hour emission

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop 1-hr & 24-hr (Tier 1) TSP concentration calculation - Scenario 1, Unmitigated

Source ID	Source Type	Coordinates of centroid				Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)						Working Hour
		X1	Y1	X2	Y2	Heavy Construction				Stockpiling		Wind Erosion				
		(m)	(m)	(m)	(m)	Daytime	Non-working Hours			Daytime	Non-working Hours	Daytime	Non-working Hours			
RG201	Area	826105	841194	190.3	9.7	0	-54.0	0.00038918					0.00000270	0.00000270	0900-1700	
RG202	Area	826233	840927	425.2	9.7	0	-72.0	0.00038918					0.00000270	0.00000270	0900-1700	
RG203	Area	826328	840651	158.4	10.2	0	-67.0	0.00038918					0.00000270	0.00000270	0900-1700	
RG401	Area	826443	840552	171.1	4.4	0	-17.0	0.00025945					0.00000270	0.00000270	0700-1900	
RG402	Area	826569	840506	96.7	5.7	0	-23.0	0.00025945					0.00000270	0.00000270	0700-1900	
RG403	Area	826652	840479	77.7	5.7	0	-13.0	0.00025945					0.00000270	0.00000270	0700-1900	
RG404	Area	826709	840449	55.3	5.7	0	-53.0	0.00025945					0.00000270	0.00000270	0700-1900	
RG405	Area	826729	840404	42.3	5.7	0	-83.0	0.00025945					0.00000270	0.00000270	0700-1900	
RG406	Area	826721	840357	5.6	54.2	0	-23.0	0.00025945					0.00000270	0.00000270	0700-1900	
RG407	Area	826625	840265	215.1	6.5	0	37.0	0.00025945					0.00000270	0.00000270	0700-1900	
RG408	Area	826410	840074	357.4	6.5	0	44.0	0.00025945					0.00000270	0.00000270	0700-1900	
RG409	Area	826597	840417	55.3	5.7	0	-69.0	0.00025945					0.00000270	0.00000270	0700-1900	
RG410	Area	826613	840384	16.1	5.7	0	-47.0	0.00025945					0.00000270	0.00000270	0700-1900	
RG411	Area	826627	840375	16.1	5.7	0	-17.0	0.00025945					0.00000270	0.00000270	0700-1900	
RG412	Area	826645	840374	17.6	5.7	0	3.0	0.00025945					0.00000270	0.00000270	0700-1900	
RG413	Area	826690	840389	75.1	4.5	0	20.0	0.00025945					0.00000270	0.00000270	0700-1900	
RG501	Area	825303	841718	70.0	8.2	0	-18.0	0.00038918					0.00000270	0.00000270	0900-1700	
RG502	Area	825240	841733	58.5	8.2	0	-8.0	0.00038918					0.00000270	0.00000270	0900-1700	
RG503	Area	825145	841724	8.2	133.6	0	-78.0	0.00038918					0.00000270	0.00000270	0900-1700	
RG504	Area	825044	841709	70.7	10.0	0	0.0	0.00038918					0.00000270	0.00000270	0900-1700	
RG505	Area	824979	841713	57.5	6.7	0	-5.0	0.00038918					0.00000270	0.00000270	0900-1700	
RG506	Area	824942	841750	9.3	76.5	0	5.0	0.00038918					0.00000270	0.00000270	0900-1700	
RG507	Area	824963	841782	38.0	15.2	0	5.0	0.00038918					0.00000270	0.00000270	0900-1700	
RG508	Area	824981	841756	5.7	40.3	0	5.0	0.00038918					0.00000270	0.00000270	0900-1700	
RG509	Area	824990	841726	7.6	20.1	0	45.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA001	Area	825771	841903	281.5	24.5	0	-50.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA002	Area	825737	842105	48.6	237.7	0	-45.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA003	Area	825931	842475	54.1	590.9	0	-20.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA004	Area	826082	842953	71.6	410.0	0	-20.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA005	Area	826217	843024	131.1	70.3	0	-20.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA006	Area	826370	842942	210.8	19.3	0	-25.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA007	Area	826627	842811	365.6	21.3	0	-30.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA101	Area	825809	841926	282.9	61.3	0	-50.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA102	Area	825927	841986	342.8	196.6	0	-50.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA201	Area	826154	842142	287.0	352.0	0	-50.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA202	Area	825954	842310	100.2	281.6	0	-20.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA203	Area	826091	842316	59.5	206.2	0	-50.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA204	Area	825981	842504	19.8	100.7	0	-20.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA205	Area	826077	842370	41.7	104.6	0	-50.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA301	Area	826179	842743	230.3	482.8	0	-20.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA302	Area	826438	842828	187.2	123.2	0	-25.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA303	Area	826647	842697	287.2	122.2	0	-35.0	0.00038918					0.00000270	0.00000270	0900-1700	
ZA304	Area	826687	842541	65.4	87.1	0	-35.0	0.00038918					0.00000270	0.00000270	0900-1700	

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop Annual TSP concentration calculation - Scenario 1, Unmitigated

Source ID	Source Type	Coordinates of centroid				Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)						Working Hour
		X1	Y1	X2	Y2	Heavy Construction				Stockpiling		Wind Erosion				
		(m)	(m)	(m)	(m)	Daytime	Non-working Hours			Daytime	Non-working Hours	Daytime	Non-working Hours			
RG201	Area	826105	841194	190.3	9.7	0	-54.0	0.00002335					0.000000162	0.000000162	0900-1700	
RG202	Area	826233	840927	425.2	9.7	0	-72.0	0.00002335					0.000000162	0.000000162	0900-1700	
RG203	Area	826328	840651	158.4	10.2	0	-67.0	0.00002335					0.000000162	0.000000162	0900-1700	
RG401	Area	826443	840552	171.1	4.4	0	-17.0	0.00001557					0.000000162	0.000000162	0700-1900	
RG402	Area	826569	840506	96.7	5.7	0	-23.0	0.00001557					0.000000162	0.000000162	0700-1900	
RG403	Area	826652	840479	77.7	5.7	0	-13.0	0.00001557					0.000000162	0.000000162	0700-1900	
RG404	Area	826709	840449	55.3	5.7	0	-53.0	0.00001557					0.000000162	0.000000162	0700-1900	
RG405	Area	826729	840404	42.3	5.7	0	-83.0	0.00001557					0.000000162	0.000000162	0700-1900	
RG406	Area	826721	840357	5.6	54.2	0	-23.0	0.00001557					0.000000162	0.000000162	0700-1900	
RG407	Area	826625	840265	215.1	6.5	0	37.0	0.00001557					0.000000162	0.000000162	0700-1900	
RG408	Area	826410	840074	357.4	6.5	0	44.0	0.00001557					0.000000162	0.000000162	0700-1900	
RG409	Area	826597	840417	55.3	5.7	0	-69.0	0.00001557					0.000000162	0.000000162	0700-1900	
RG410	Area	826613	840384	16.1	5.7	0	-47.0	0.00001557					0.000000162	0.000000162	0700-1900	
RG411	Area	826627	840375	16.1	5.7	0	-17.0	0.00001557					0.000000162	0.000000162	0700-1900	
RG412	Area	826645	840374	17.6	5.7	0	3.0	0.00001557					0.000000162	0.000000162	0700-1900	
RG413	Area	826690	840389	75.1	4.5	0	20.0	0.00001557					0.000000162	0.000000162	0700-1900	
RG501	Area	825303	841718	70.0	8.2	0	-18.0	0.00002335					0.000000162	0.000000162	0900-1700	
RG502	Area	825240	841733	58.5	8.2	0	-8.0	0.00002335					0.000000162	0.000000162	0900-1700	
RG503	Area	825145	841724	8.2	133.6	0	-78.0	0.00002335					0.000000162	0.000000162	0900-1700	
RG504	Area	825044	841709	70.7	10.0	0	0.0	0.00002335					0.000000162	0.000000162	0900-1700	
RG505	Area	824979	841713	57.5	6.7	0	-5.0	0.00002335					0.000000162	0.000000162	0900-1700	
RG506	Area	824942	841750	9.3	76.5	0	5.0	0.00002335					0.000000162	0.000000162	0900-1700	
RG507	Area	824963	841782	38.0	15.2	0	5.0	0.00002335					0.000000162	0.000000162	0900-1700	
RG508	Area	824981	841756	5.7	40.3	0	5.0	0.00002335					0.000000162	0.000000162	0900-1700	
RG509	Area	824990	841726	7.6	20.1	0	45.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA001	Area	825771	841903	281.5	24.5	0	-50.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA002	Area	825737	842105	48.6	237.7	0	-45.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA003	Area	825931	842475	54.1	590.9	0	-20.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA004	Area	826082	842953	71.6	410.0	0	-20.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA005	Area	826217	843024	131.1	70.3	0	-20.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA006	Area	826370	842942	210.8	19.3	0	-25.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA007	Area	826627	842811	365.6	21.3	0	-30.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA101	Area	825809	841926	282.9	61.3	0	-50.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA102	Area	825927	841986	342.8	196.6	0	-50.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA201	Area	826154	842142	287.0	352.0	0	-50.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA202	Area	825954	842310	100.2	281.6	0	-20.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA203	Area	826091	842316	59.5	206.2	0	-50.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA204	Area	825981	842504	19.8	100.7	0	-20.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA205	Area	826077	842370	41.7	104.6	0	-50.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA301	Area	826179	842743	230.3	482.8	0	-20.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA302	Area	826438	842828	187.2	123.2	0	-25.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA303	Area	826647	842697	287.2	122.2	0	-35.0	0.00002335					0.000000162	0.000000162	0900-1700	
ZA304	Area	826687	842541	65.4	87.1	0	-35.0	0.00002335					0.000000162	0.000000162	0900-1700	



Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop 1-hr & 24-hr TSP concentration calculation - Scenario 2, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)						Working Hour
		X1	Y1	X2	Y2			Heavy Construction		Stockpiling		Wind Erosion		
		(m)	(m)	(m)	(m)			Daytime	Non-working Hours	Daytime	Non-working Hours	Daytime	Non-working Hours	
DCS01	Area	826458	842837	49.3	93.4	0	-30.0	0.00038918				0.0000270	0.0000270	0900-1700
FLU01	Area	827219	842273	10.4	56.5	0	-45.0	0.00038918				0.0000270	0.0000270	0900-1700
FLU02	Area	827201	842225	9.8	47.8	0	10.0	0.00038918				0.0000270	0.0000270	0900-1700
FLU03	Area	827218	842195	9.8	21.2	0	70.0	0.00038918				0.0000270	0.0000270	0900-1700
FLU04	Area	827259	842209	10.3	63.0	0	-55.0	0.00038918				0.0000270	0.0000270	0900-1700
FLU05	Area	827279	842196	34.9	44.8	0	-55.0	0.00038918				0.0000270	0.0000270	0900-1700
RG601	Area	826775	842554	238.7	9.6	0	-36.0	0.00038918				0.0000270	0.0000270	0900-1700
RG602	Area	826967	842385	271.6	19.5	0	-45.0	0.00038918				0.0000270	0.0000270	0900-1700
RG603	Area	827098	842279	54.9	16.5	0	-10.0	0.00038918				0.0000270	0.0000270	0900-1700
RG604	Area	827150	842276	18.7	48.4	0	-90.0	0.00038918				0.0000270	0.0000270	0900-1700
RG605	Area	827221	842303	17.6	95.8	0	-60.0	0.00038918				0.0000270	0.0000270	0900-1700
RG606	Area	827282	842347	17.6	47.6	0	-50.0	0.00038918				0.0000270	0.0000270	0900-1700
RG607	Area	827351	842415	13.5	144.6	0	-45.0	0.00038918				0.0000270	0.0000270	0900-1700
RG608	Area	827446	842501	18.3	107.1	0	-55.0	0.00038918				0.0000270	0.0000270	0900-1700
RG609	Area	827622	842617	18.2	313.9	0	-57.0	0.00038918				0.0000270	0.0000270	0900-1700
RG610	Area	827791	842722	17.5	76.3	0	-60.0	0.00038918				0.0000270	0.0000270	0900-1700
RG611	Area	827866	842724	76.3	15.8	0	-20.0	0.00038918				0.0000270	0.0000270	0900-1700
RG612	Area	827928	842687	16.5	64.1	0	40.0	0.00038918				0.0000270	0.0000270	0900-1700
RG613	Area	827976	842467	384.4	12.9	0	-83.0	0.00038918				0.0000270	0.0000270	0900-1700
RG614	Area	826552	842704	297.9	10.8	0	-32.0	0.00038918				0.0000270	0.0000270	0900-1700
RG615	Area	826935	842314	247.4	119.2	0	-45.0	0.00038918				0.0000270	0.0000270	0900-1700
RG616	Area	826985	842401	273.1	29.4	0	-45.0	0.00038918				0.0000270	0.0000270	0900-1700
RG617	Area	827114	842252	22.7	101.6	0	-90.0	0.00038918				0.0000270	0.0000270	0900-1700
WC12a102	Area	828220	841758	133.0	151.9	0	-32.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b101	Area	828108	842203	142.3	129.8	0	-64.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b102	Area	827989	842125	33.4	150.8	0	-67.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b103	Area	827975	842230	11.7	87.0	0	-67.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b104	Area	828033	842265	31.8	47.2	0	-66.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b105	Area	827997	842267	38.0	15.7	0	-66.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b106	Area	827974	842216	11.7	99.6	0	-67.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b107	Area	827981	842176	66.2	116.6	0	-67.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b108	Area	828205	842216	81.4	53.9	0	-64.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b109	Area	828199	842042	226.8	151.0	0	-64.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b110	Area	828343	842083	129.3	140.3	0	-64.0	0.00023949				0.0000270	0.0000270	0700-1900
WC12b111	Area	828362	842191	47.4	171.1	0	-64.0	0.00023949				0.0000270	0.0000270	0700-1900

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop Annual TSP concentration calculation - Scenario 2, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)						Working Hour
		X1	Y1	X2	Y2			Heavy Construction		Stockpiling		Wind Erosion		
		(m)	(m)	(m)	(m)			Daytime	Non-working Hours	Daytime	Non-working Hours	Daytime	Non-working Hours	
DCS01	Area	826458	842837	49.3	93.4	0	-30.0	0.00002335				0.00000162	0.00000162	0900-1700
FLU01	Area	827219	842273	10.4	56.5	0	-45.0	0.00002335				0.00000162	0.00000162	0900-1700
FLU02	Area	827201	842225	9.8	47.8	0	10.0	0.00002335				0.00000162	0.00000162	0900-1700
FLU03	Area	827218	842195	9.8	21.2	0	70.0	0.00002335				0.00000162	0.00000162	0900-1700
FLU04	Area	827259	842209	10.3	63.0	0	-55.0	0.00002335				0.00000162	0.00000162	0900-1700
FLU05	Area	827279	842196	34.9	44.8	0	-55.0	0.00002335				0.00000162	0.00000162	0900-1700
RG601	Area	826775	842554	238.7	9.6	0	-36.0	0.00002335				0.00000162	0.00000162	0900-1700
RG602	Area	826967	842385	271.6	19.5	0	-45.0	0.00002335				0.00000162	0.00000162	0900-1700
RG603	Area	827098	842279	54.9	16.5	0	-10.0	0.00002335				0.00000162	0.00000162	0900-1700
RG604	Area	827150	842276	18.7	48.4	0	-90.0	0.00002335				0.00000162	0.00000162	0900-1700
RG605	Area	827221	842303	17.6	95.8	0	-60.0	0.00002335				0.00000162	0.00000162	0900-1700
RG606	Area	827282	842347	17.6	47.6	0	-50.0	0.00002335				0.00000162	0.00000162	0900-1700
RG607	Area	827351	842415	13.5	144.6	0	-45.0	0.00002335				0.00000162	0.00000162	0900-1700
RG608	Area	827446	842501	18.3	107.1	0	-55.0	0.00002335				0.00000162	0.00000162	0900-1700
RG609	Area	827622	842617	18.2	313.9	0	-57.0	0.00002335				0.00000162	0.00000162	0900-1700
RG610	Area	827791	842722	17.5	76.3	0	-60.0	0.00002335				0.00000162	0.00000162	0900-1700
RG611	Area	827866	842724	76.3	15.8	0	-20.0	0.00002335				0.00000162	0.00000162	0900-1700
RG612	Area	827928	842687	16.5	64.1	0	40.0	0.00002335				0.00000162	0.00000162	0900-1700
RG613	Area	827976	842467	384.4	12.9	0	-83.0	0.00002335				0.00000162	0.00000162	0900-1700
RG614	Area	826552	842704	297.9	10.8	0	-32.0	0.00002335				0.00000162	0.00000162	0900-1700
RG615	Area	826935	842314	247.4	119.2	0	-45.0	0.00002335				0.00000162	0.00000162	0900-1700
RG616	Area	826985	842401	273.1	29.4	0	-45.0	0.00002335				0.00000162	0.00000162	0900-1700
RG617	Area	827114	842252	22.7	101.6	0	-90.0	0.00002335				0.00000162	0.00000162	0900-1700
WC12a102	Area	828220	841758	133.0	151.9	0	-32.0	0.00001437				0.00000162	0.00000162	0700-1900
WC12b101	Area	828108	842203	142.3	129.8	0	-64.0	0.00001437				0.00000162	0.00000162	0700-1900
WC12b102	Area	827989	842125	33.4	150.8	0	-67.0	0.00001437				0.00000162	0.00000162	0700-1900
WC12b103	Area	827975	842230	11.7	87.0	0	-67.0	0.00001437				0.00000162	0.00000162	0700-1900
WC12b104	Area	828033	842265	31.8	47.2	0	-66.0	0.00001437				0.00000162	0.00000162	0700-1900
WC12b105	Area	827997	842267	38.0	15.7	0	-66.0	0.00001437				0.00000162	0.00000162	0700-1900
WC12b106	Area	827974	842216	11.7	99.6	0	-67.0	0.00001437				0.00000162	0.00000162	0700-1900
WC12b107	Area	827981	842176	66.2	116.6	0	-67.0	0.00001437				0.00000162	0.00000162	0700-1900
WC12b108	Area	828205	842216	81.4	53.9	0	-64.0	0.00001437				0.00000162	0.00000162	0700-1900
WC12b109	Area	828199	842042	226.8	151.0	0	-64.0	0.00001437				0.00000162	0.00000162	0700-1900
WC12b110	Area	828343	842083	129.3	140.3	0	-64.0	0.00001437				0.00000162	0.00000162	0700-1900
WC12b111	Area	828362	842191	47.4	171.1	0	-64.0	0.00001437				0.00000162	0.00000162	0700-1900

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop 1-hr & 24-hr (Tier 1) TSP concentration calculation - Scenario 1, Mitigated

Source ID	Source Type	Coordinates of centroid				Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)						Working Hour
		X1	Y1	X2	Y2	Heavy Construction				Stockpiling		Wind Erosion				
		(m)	(m)	(m)	(m)	Daytime	Non-working Hours			Daytime	Non-working Hours	Daytime	Non-working Hours			
RG201	Area	826105	841194	190.3	9.7	0	-54.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG202	Area	826233	840927	425.2	9.7	0	-72.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG203	Area	826328	840651	158.4	10.2	0	-67.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG401	Area	826443	840552	171.1	4.4	0	-17.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG402	Area	826569	840506	96.7	5.7	0	-23.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG403	Area	826652	840479	77.7	5.7	0	-13.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG404	Area	826709	840449	55.3	5.7	0	-53.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG405	Area	826729	840404	42.3	5.7	0	-83.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG406	Area	826721	840357	5.6	54.2	0	-23.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG407	Area	826625	840265	215.1	6.5	0	37.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG408	Area	826410	840074	357.4	6.5	0	44.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG409	Area	826597	840417	55.3	5.7	0	-69.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG410	Area	826613	840384	16.1	5.7	0	-47.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG411	Area	826627	840375	16.1	5.7	0	-17.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG412	Area	826645	840374	17.6	5.7	0	3.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG413	Area	826690	840389	75.1	4.5	0	20.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG501	Area	825303	841718	70.0	8.2	0	-18.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG502	Area	825240	841733	58.5	8.2	0	-8.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG503	Area	825145	841724	8.2	133.6	0	-78.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG504	Area	825044	841709	70.7	10.0	0	0.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG505	Area	824979	841713	57.5	6.7	0	-5.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG506	Area	824942	841750	9.3	76.5	0	5.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG507	Area	824963	841782	38.0	15.2	0	5.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG508	Area	824981	841756	5.7	40.3	0	5.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG509	Area	824990	841726	7.6	20.1	0	45.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA001	Area	825771	841903	281.5	24.5	0	-50.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA002	Area	825737	842105	48.6	237.7	0	-45.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA003	Area	825931	842475	54.1	590.9	0	-20.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA004	Area	826082	842953	71.6	410.0	0	-20.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA005	Area	826217	843024	131.1	70.3	0	-20.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA006	Area	826370	842942	210.8	19.3	0	-25.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA007	Area	826627	842811	365.6	21.3	0	-30.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA101	Area	825809	841926	282.9	61.3	0	-50.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA102	Area	825927	841986	342.8	196.6	0	-50.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA201	Area	826154	842142	287.0	352.0	0	-50.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA202	Area	825954	842310	100.2	281.6	0	-20.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA203	Area	826091	842316	59.5	206.2	0	-50.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA204	Area	825981	842504	19.8	100.7	0	-20.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA205	Area	826077	842370	41.7	104.6	0	-50.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA301	Area	826179	842743	230.3	482.8	0	-20.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA302	Area	826438	842828	187.2	123.2	0	-25.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA303	Area	826647	842697	287.2	122.2	0	-35.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA304	Area	826687	842541	65.4	87.1	0	-35.0	0.00003075					0.0000021	0.0000270	0900-1700	

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop 1-hr & 24-hr (Tier 2) TSP concentration calculation - Scenario 1, Mitigated

Source ID	Source Type	Coordinates of centroid				Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)						Working Hour
		X1	Y1	X2	Y2	Heavy Construction				Stockpiling		Wind Erosion				
		(m)	(m)	(m)	(m)	Daytime	Non-working Hours			Daytime	Non-working Hours	Daytime	Non-working Hours			
RG201	Area	826105	841194	190.3	9.7	0	-54.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG202	Area	826201	841028	212.6	9.7	0	-72.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG401	Area	826443	840552	171.1	4.4	0	-17.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG402	Area	826569	840506	96.7	5.7	0	-23.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG403	Area	826597	840417	55.3	5.7	0	-69.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG404	Area	826613	840384	16.1	5.7	0	-47.0	0.00002050					0.0000021	0.0000270	0700-1900	
RG501	Area	825303	841718	70.0	8.2	0	-18.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG502	Area	825240	841733	58.5	8.2	0	-8.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG503	Area	825177	841731	8.2	66.8	0	-78.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA001	Area	825765	841897	281.5	7.5	0	-50.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA002	Area	825749	842093	14.6	237.7	0	-45.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA003	Area	825944	842462	20.5	575.2	0	-20.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA004	Area	826106	842945	21.6	410.0	0	-20.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA005	Area	826208	843001	131.1	21.3	0	-20.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA006	Area	826367	842936	210.8	6.3	0	-25.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA007	Area	826623	842805	365.6	7.3	0	-30.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA101	Area	825793	841912	282.9	19.3	0	-50.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA102	Area	825874	841942	342.8	59.6	0	-50.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA201	Area	826059	842063	287.0	106.0	0	-50.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA202	Area	825920	842218	100.2	84.6	0	-20.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA203	Area	826036	842270	59.5	62.2	0	-50.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA204	Area	825969	842471	19.8	30.7	0	-20.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA205	Area	826049	842346	41.7	31.6	0	-50.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA301	Area	826121	842584	230.3	144.8	0	-20.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA302	Area	826419	842789	187.2	37.2	0	-25.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA303	Area	826623	842662	287.2	37.2	0	-35.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA304	Area	826670	842516	65.4	27.1	0	-35.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA401	Area	826519	842299	66.0	88.8	0	-35.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA402	Area	826382	842446	325.1	99.9	0	-35.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA403	Area	826294	842639	41.5	58.9	0	-35.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA501	Area	826295	842291	330.5	35.1	0	-45.0	0.00003075					0.0000021	0.0000270	0900-1700	
ZA502	Area	826079	842439	196.8	24.9	0	-15.0	0.00003075					0.0000021	0.0000270	0900-1700	

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop Annual TSP concentration calculation - Scenario 1, Mitigated

Source ID	Source Type	Coordinates of centroid				Dimension (m)	Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)						Working Hour
		X1	Y1	X2	Y2				Heavy Construction		Stockpiling		Wind Erosion		
		(m)	(m)	(m)	(m)				Daytime	Non-working Hours	Daytime	Non-working Hours	Daytime	Non-working Hours	
RG201	Area	826105	841194	190.3	9.7	0	-54.0	0.00000184					0.00000013	0.000000162	0900-1700
RG202	Area	826233	840927	425.2	9.7	0	-72.0	0.00000184					0.00000013	0.000000162	0900-1700
RG203	Area	826328	840651	158.4	10.2	0	-67.0	0.00000184					0.00000013	0.000000162	0900-1700
RG401	Area	826443	840552	171.1	4.4	0	-17.0	0.00000123					0.00000013	0.000000162	0700-1900
RG402	Area	826569	840506	96.7	5.7	0	-23.0	0.00000123					0.00000013	0.000000162	0700-1900
RG403	Area	826652	840479	77.7	5.7	0	-13.0	0.00000123					0.00000013	0.000000162	0700-1900
RG404	Area	826709	840449	55.3	5.7	0	-53.0	0.00000123					0.00000013	0.000000162	0700-1900
RG405	Area	826729	840404	42.3	5.7	0	-83.0	0.00000123					0.00000013	0.000000162	0700-1900
RG406	Area	826721	840357	5.6	54.2	0	-23.0	0.00000123					0.00000013	0.000000162	0700-1900
RG407	Area	826625	840265	215.1	6.5	0	37.0	0.00000123					0.00000013	0.000000162	0700-1900
RG408	Area	826410	840074	357.4	6.5	0	44.0	0.00000123					0.00000013	0.000000162	0700-1900
RG409	Area	826597	840417	55.3	5.7	0	-69.0	0.00000123					0.00000013	0.000000162	0700-1900
RG410	Area	826613	840384	16.1	5.7	0	-47.0	0.00000123					0.00000013	0.000000162	0700-1900
RG411	Area	826627	840375	16.1	5.7	0	-17.0	0.00000123					0.00000013	0.000000162	0700-1900
RG412	Area	826645	840374	17.6	5.7	0	3.0	0.00000123					0.00000013	0.000000162	0700-1900
RG413	Area	826690	840389	75.1	4.5	0	20.0	0.00000123					0.00000013	0.000000162	0700-1900
RG501	Area	825303	841718	70.0	8.2	0	-18.0	0.00000184					0.00000013	0.000000162	0900-1700
RG502	Area	825240	841733	58.5	8.2	0	-8.0	0.00000184					0.00000013	0.000000162	0900-1700
RG503	Area	825145	841724	8.2	133.6	0	-78.0	0.00000184					0.00000013	0.000000162	0900-1700
RG504	Area	825044	841709	70.7	10.0	0	0.0	0.00000184					0.00000013	0.000000162	0900-1700
RG505	Area	824979	841713	57.5	6.7	0	-5.0	0.00000184					0.00000013	0.000000162	0900-1700
RG506	Area	824942	841750	9.3	76.5	0	5.0	0.00000184					0.00000013	0.000000162	0900-1700
RG507	Area	824963	841782	38.0	15.2	0	5.0	0.00000184					0.00000013	0.000000162	0900-1700
RG508	Area	824981	841756	5.7	40.3	0	5.0	0.00000184					0.00000013	0.000000162	0900-1700
RG509	Area	824990	841726	7.6	20.1	0	45.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA001	Area	825771	841903	281.5	24.5	0	-50.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA002	Area	825737	842105	48.6	237.7	0	-45.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA003	Area	825931	842475	54.1	590.9	0	-20.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA004	Area	826082	842953	71.6	410.0	0	-20.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA005	Area	826217	843024	131.1	70.3	0	-20.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA006	Area	826370	842942	210.8	19.3	0	-25.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA007	Area	826627	842811	365.6	21.3	0	-30.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA101	Area	825809	841926	282.9	61.3	0	-50.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA102	Area	825927	841986	342.8	196.6	0	-50.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA201	Area	826154	842142	287.0	352.0	0	-50.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA202	Area	825954	842310	100.2	281.6	0	-20.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA203	Area	826091	842316	59.5	206.2	0	-50.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA204	Area	825981	842504	19.8	100.7	0	-20.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA205	Area	826077	842370	41.7	104.6	0	-50.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA301	Area	826179	842743	230.3	482.8	0	-20.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA302	Area	826438	842828	187.2	123.2	0	-25.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA303	Area	826647	842697	287.2	122.2	0	-35.0	0.00000184					0.00000013	0.000000162	0900-1700
ZA304	Area	826687	842541	65.4	87.1	0	-35.0	0.00000184					0.00000013	0.000000162	0900-1700

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop 1-hr & 24-hr (Tier 1) TSP concentration calculation - Scenario 2, Mitigated

Source ID	Source Type	Coordinates of centroid				Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)						Working Hour
		X1	Y1	X2	Y2	Heavy Construction				Stockpiling		Wind Erosion				
		(m)	(m)	(m)	(m)	Daytime	Non-working Hours			Daytime	Non-working Hours	Daytime	Non-working Hours			
DCS01	Area	826458	842837	49.3	93.4	0	-30.0	0.00003075					0.0000021	0.0000270	0900-1700	
FLU01	Area	827219	842273	10.4	56.5	0	-45.0	0.00003075					0.0000021	0.0000270	0900-1700	
FLU02	Area	827201	842225	9.8	47.8	0	10.0	0.00003075					0.0000021	0.0000270	0900-1700	
FLU03	Area	827218	842195	9.8	21.2	0	70.0	0.00003075					0.0000021	0.0000270	0900-1700	
FLU04	Area	827259	842209	10.3	63.0	0	-55.0	0.00003075					0.0000021	0.0000270	0900-1700	
FLU05	Area	827279	842196	34.9	44.8	0	-55.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG601	Area	826775	842554	238.7	9.6	0	-36.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG602	Area	826967	842385	271.6	19.5	0	-45.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG603	Area	827098	842279	54.9	16.5	0	-10.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG604	Area	827150	842276	18.7	48.4	0	-90.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG605	Area	827221	842303	17.6	95.8	0	-60.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG606	Area	827282	842347	17.6	47.6	0	-50.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG607	Area	827351	842415	13.5	144.6	0	-45.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG608	Area	827446	842501	18.3	107.1	0	-55.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG609	Area	827622	842617	18.2	313.9	0	-57.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG610	Area	827791	842722	17.5	76.3	0	-60.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG611	Area	827866	842724	76.3	15.8	0	-20.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG612	Area	827928	842687	16.5	64.1	0	40.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG613	Area	827976	842467	384.4	12.9	0	-83.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG614	Area	826552	842704	297.9	10.8	0	-32.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG615	Area	826935	842314	247.4	119.2	0	-45.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG616	Area	826985	842401	273.1	29.4	0	-45.0	0.00003075					0.0000021	0.0000270	0900-1700	
RG617	Area	827114	842252	22.7	101.6	0	-90.0	0.00003075					0.0000021	0.0000270	0900-1700	
WC12a102	Area	828220	841758	133.0	151.9	0	-32.0	0.00001892					0.0000021	0.0000270	0700-1900	
WC12b101	Area	828108	842203	142.3	129.8	0	-64.0	0.00001892					0.0000021	0.0000270	0700-1900	
WC12b102	Area	827989	842125	33.4	150.8	0	-67.0	0.00001892					0.0000021	0.0000270	0700-1900	
WC12b103	Area	827975	842230	11.7	87.0	0	-67.0	0.00001892					0.0000021	0.0000270	0700-1900	
WC12b104	Area	828033	842265	31.8	47.2	0	-66.0	0.00001892					0.0000021	0.0000270	0700-1900	
WC12b105	Area	827997	842267	38.0	15.7	0	-66.0	0.00001892					0.0000021	0.0000270	0700-1900	
WC12b106	Area	827974	842216	11.7	99.6	0	-67.0	0.00001892					0.0000021	0.0000270	0700-1900	
WC12b107	Area	827981	842176	66.2	116.6	0	-67.0	0.00001892					0.0000021	0.0000270	0700-1900	
WC12b108	Area	828205	842216	81.4	53.9	0	-64.0	0.00001892					0.0000021	0.0000270	0700-1900	
WC12b109	Area	828199	842042	226.8	151.0	0	-64.0	0.00001892					0.0000021	0.0000270	0700-1900	
WC12b110	Area	828343	842083	129.3	140.3	0	-64.0	0.00001892					0.0000021	0.0000270	0700-1900	
WC12b111	Area	828362	842191	47.4	171.1	0	-64.0	0.00001892					0.0000021	0.0000270	0700-1900	

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop 1-hr & 24-hr (Tier 2) TSP concentration calculation - Scenario 2, Mitigated

Source ID	Source Type	Coordinates of centroid				Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)						Working Hour		
		X1		Y1				Dimension (m)		Heavy Construction		Stockpiling			Wind Erosion	
		(m)	(m)	(m)	(m)			Daytime	Non-working Hours	Daytime	Non-working Hours	Daytime	Non-working Hours			
DCS01	Area	826444	842845	16.3	93.4	0	-30.0	0.00003075				0.00000021	0.00000270	0900-1700		
FLU01	Area	827205	842259	10.4	17.7	0	-45.0	0.00003075				0.00000021	0.00000270	0900-1700		
FLU02	Area	827198	842225	3.6	47.8	0	10.0	0.00003075				0.00000021	0.00000270	0900-1700		
FLU03	Area	827211	842197	9.8	6.9	0	70.0	0.00003075				0.00000021	0.00000270	0900-1700		
FLU04	Area	827242	842198	10.3	23.1	0	-55.0	0.00003075				0.00000021	0.00000270	0900-1700		
FLU05	Area	827266	842187	34.9	13.3	0	-55.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG601	Area	826841	842506	76.1	9.6	0	-36.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG602	Area	826905	842448	94.5	19.5	0	-45.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG603	Area	827097	842274	54.9	5.8	0	-10.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG604	Area	827150	842270	6.9	48.4	0	-90.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG605	Area	827248	842319	17.6	32.6	0	-60.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG606	Area	827293	842357	17.6	17.2	0	-50.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG607	Area	827317	842380	13.5	47.5	0	-45.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG608	Area	827473	842520	18.3	40.0	0	-55.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG609	Area	827534	842560	18.2	104.3	0	-57.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG610	Area	827794	842717	6.1	76.3	0	-60.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG611	Area	827864	842719	76.3	5.3	0	-20.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG612	Area	827924	842684	5.8	64.1	0	40.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG613	Area	827971	842466	384.4	4.3	0	-83.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG614	Area	826466	842759	94.4	10.8	0	-32.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG615	Area	826906	842286	247.4	37.6	0	-45.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG616	Area	826922	842465	94.5	29.4	0	-45.0	0.00003075				0.00000021	0.00000270	0900-1700		
RG617	Area	827114	842245	7.4	101.6	0	-90.0	0.00003075				0.00000021	0.00000270	0900-1700		
WC12a102	Area	827841	841357	15.3	258.9	0	-57.0	0.00001892				0.00000021	0.00000270	0700-1900		
WC12b101	Area	828146	842221	142.3	45.2	0	-64.0	0.00001892				0.00000021	0.00000270	0700-1900		
WC12b102	Area	827989	842125	33.4	150.8	0	-67.0	0.00001892				0.00000021	0.00000270	0700-1900		
WC12b103	Area	827957	842223	10.4	48.3	0	-67.0	0.00001892				0.00000021	0.00000270	0700-1900		
WC12b104	Area	828019	842259	32.2	16.9	0	-66.0	0.00001892				0.00000021	0.00000270	0700-1900		
WC12b105	Area	827992	842265	38.0	5.0	0	-66.0	0.00001892				0.00000021	0.00000270	0700-1900		
WC12b106	Area	827951	842207	11.7	49.8	0	-67.0	0.00001892				0.00000021	0.00000270	0700-1900		
WC12b107	Area	827990	842153	16.8	116.6	0	-67.0	0.00001892				0.00000021	0.00000270	0700-1900		
WC12b108	Area	828193	842239	30.8	53.9	0	-64.0	0.00001892				0.00000021	0.00000270	0700-1900		
WC12b109	Area	828152	842019	226.8	45.0	0	-64.0	0.00001892				0.00000021	0.00000270	0700-1900		
WC12b110	Area	828387	842104	129.0	42.8	0	-64.0	0.00001892				0.00000021	0.00000270	0700-1900		
WC12b111	Area	828356	842204	18.1	171.6	0	-64.0	0.00001892				0.00000021	0.00000270	0700-1900		

Location and Details of Worksites for Fugitive Dust Assessment

LMC Loop Annual TSP concentration calculation - Scenario 2, Mitigated

Source ID	Source Type	Coordinates of centroid				Dimension (m)	Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)						Working Hour
		X1	Y1	X2	Y2				Heavy Construction		Stockpiling		Wind Erosion		
		(m)	(m)	(m)	(m)				Daytime	Non-working Hours	Daytime	Non-working Hours	Daytime	Non-working Hours	
DCS01	Area	826458	842837	49.3	93.4	0	-30.0	0.00000184				0.00000013	0.00000162	0900-1700	
FLU01	Area	827219	842273	10.4	56.5	0	-45.0	0.00000184				0.00000013	0.00000162	0900-1700	
FLU02	Area	827201	842225	9.8	47.8	0	10.0	0.00000184				0.00000013	0.00000162	0900-1700	
FLU03	Area	827218	842195	9.8	21.2	0	70.0	0.00000184				0.00000013	0.00000162	0900-1700	
FLU04	Area	827259	842209	10.3	63.0	0	-55.0	0.00000184				0.00000013	0.00000162	0900-1700	
FLU05	Area	827279	842196	34.9	44.8	0	-55.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG601	Area	826775	842554	238.7	9.6	0	-36.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG602	Area	826967	842385	271.6	19.5	0	-45.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG603	Area	827098	842279	54.9	16.5	0	-10.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG604	Area	827150	842276	18.7	48.4	0	-90.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG605	Area	827221	842303	17.6	95.8	0	-60.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG606	Area	827282	842347	17.6	47.6	0	-50.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG607	Area	827351	842415	13.5	144.6	0	-45.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG608	Area	827446	842501	18.3	107.1	0	-55.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG609	Area	827622	842617	18.2	313.9	0	-57.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG610	Area	827791	842722	17.5	76.3	0	-60.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG611	Area	827866	842724	76.3	15.8	0	-20.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG612	Area	827928	842687	16.5	64.1	0	40.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG613	Area	827976	842467	384.4	12.9	0	-83.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG614	Area	826552	842704	297.9	10.8	0	-32.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG615	Area	826935	842314	247.4	119.2	0	-45.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG616	Area	826985	842401	273.1	29.4	0	-45.0	0.00000184				0.00000013	0.00000162	0900-1700	
RG617	Area	827114	842252	22.7	101.6	0	-90.0	0.00000184				0.00000013	0.00000162	0900-1700	
WC12a102	Area	828220	841758	133.0	151.9	0	-32.0	0.00000114				0.00000013	0.00000162	0700-1900	
WC12b101	Area	828108	842203	142.3	129.8	0	-64.0	0.00000114				0.00000013	0.00000162	0700-1900	
WC12b102	Area	827989	842125	33.4	150.8	0	-67.0	0.00000114				0.00000013	0.00000162	0700-1900	
WC12b103	Area	827975	842230	11.7	87.0	0	-67.0	0.00000114				0.00000013	0.00000162	0700-1900	
WC12b104	Area	828033	842265	31.8	47.2	0	-66.0	0.00000114				0.00000013	0.00000162	0700-1900	
WC12b105	Area	827997	842267	38.0	15.7	0	-66.0	0.00000114				0.00000013	0.00000162	0700-1900	
WC12b106	Area	827974	842216	11.7	99.6	0	-67.0	0.00000114				0.00000013	0.00000162	0700-1900	
WC12b107	Area	827981	842176	66.2	116.6	0	-67.0	0.00000114				0.00000013	0.00000162	0700-1900	
WC12b108	Area	828205	842216	81.4	53.9	0	-64.0	0.00000114				0.00000013	0.00000162	0700-1900	
WC12b109	Area	828199	842042	226.8	151.0	0	-64.0	0.00000114				0.00000013	0.00000162	0700-1900	
WC12b110	Area	828343	842083	129.3	140.3	0	-64.0	0.00000114				0.00000013	0.00000162	0700-1900	
WC12b111	Area	828362	842191	47.4	171.1	0	-64.0	0.00000114				0.00000013	0.00000162	0700-1900	

















