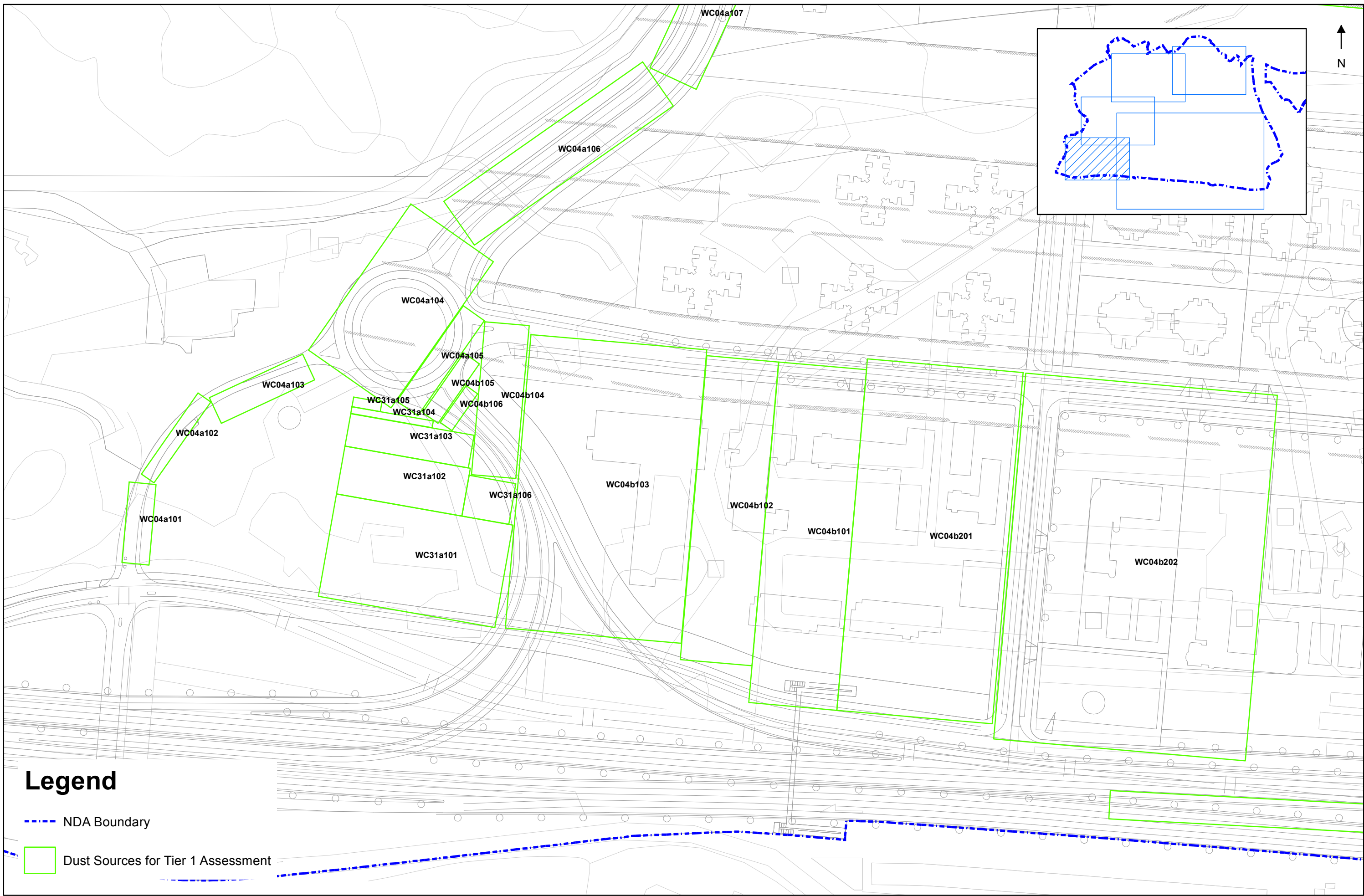


Appendix 3.3

Details of Dust Emission Sources and Calculations




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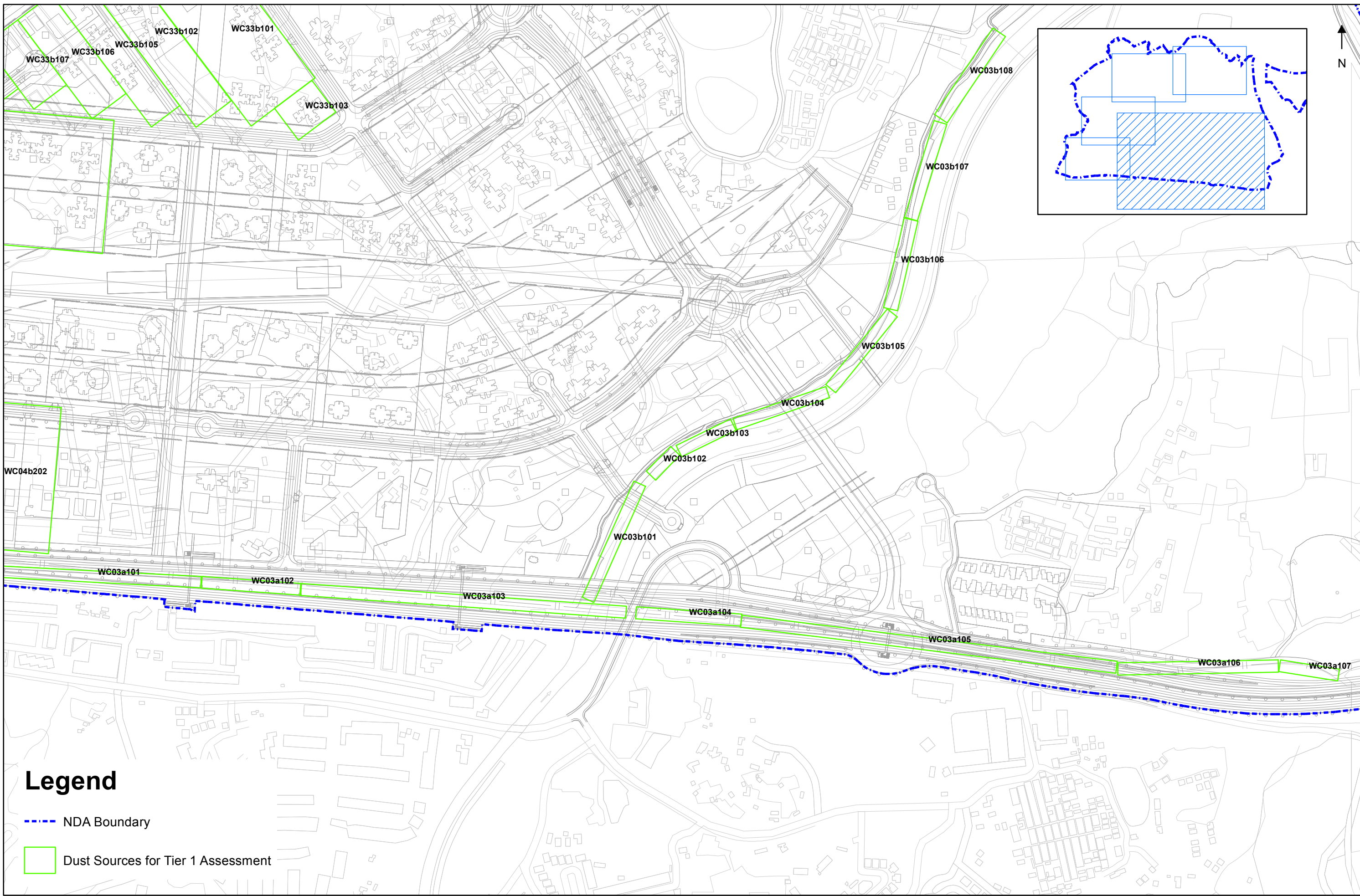


Legend

- - - NDA Boundary
- Dust Sources for Tier 1 Assessment




 <div>土木工程拓展署 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT</div>	 <div>規劃署 PLANNING DEPARTMENT</div>		Job Title Agreement No. CE 61/007 (CE) North East New Territories New Development Areas Planning and Engineering Study – Investigation	Drawing Title Location of Dust Emission Sources for Tier 1 & Annual Assessment for KTN NDA in Year 2018 (Sheet 1 of 5)				Drawn EC	Date 02/13	Drawing No Appendix 3.3-KTN-T1-2018-a
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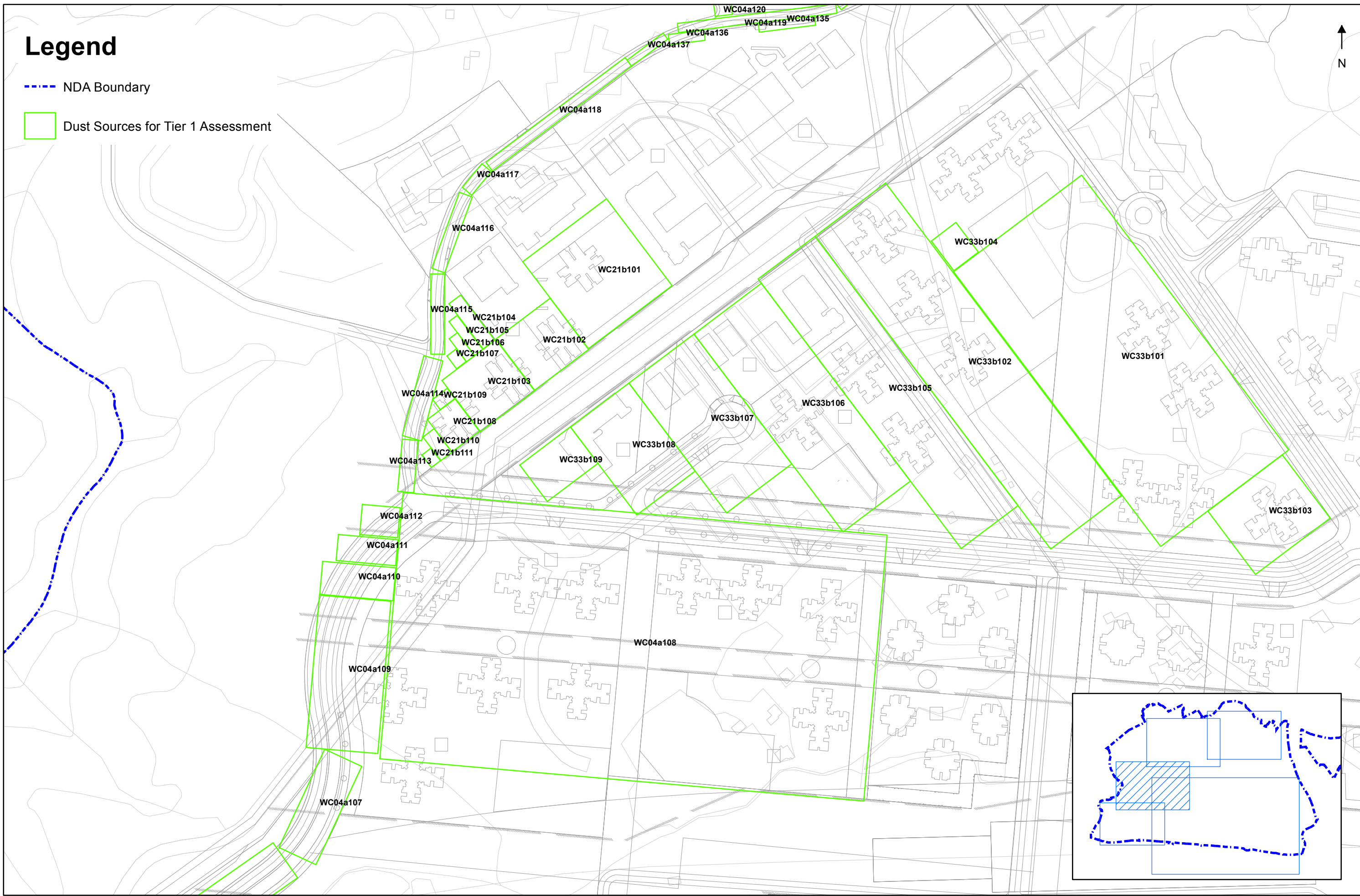
- NDA Boundary
- Dust Sources for Tier 1 Assessment

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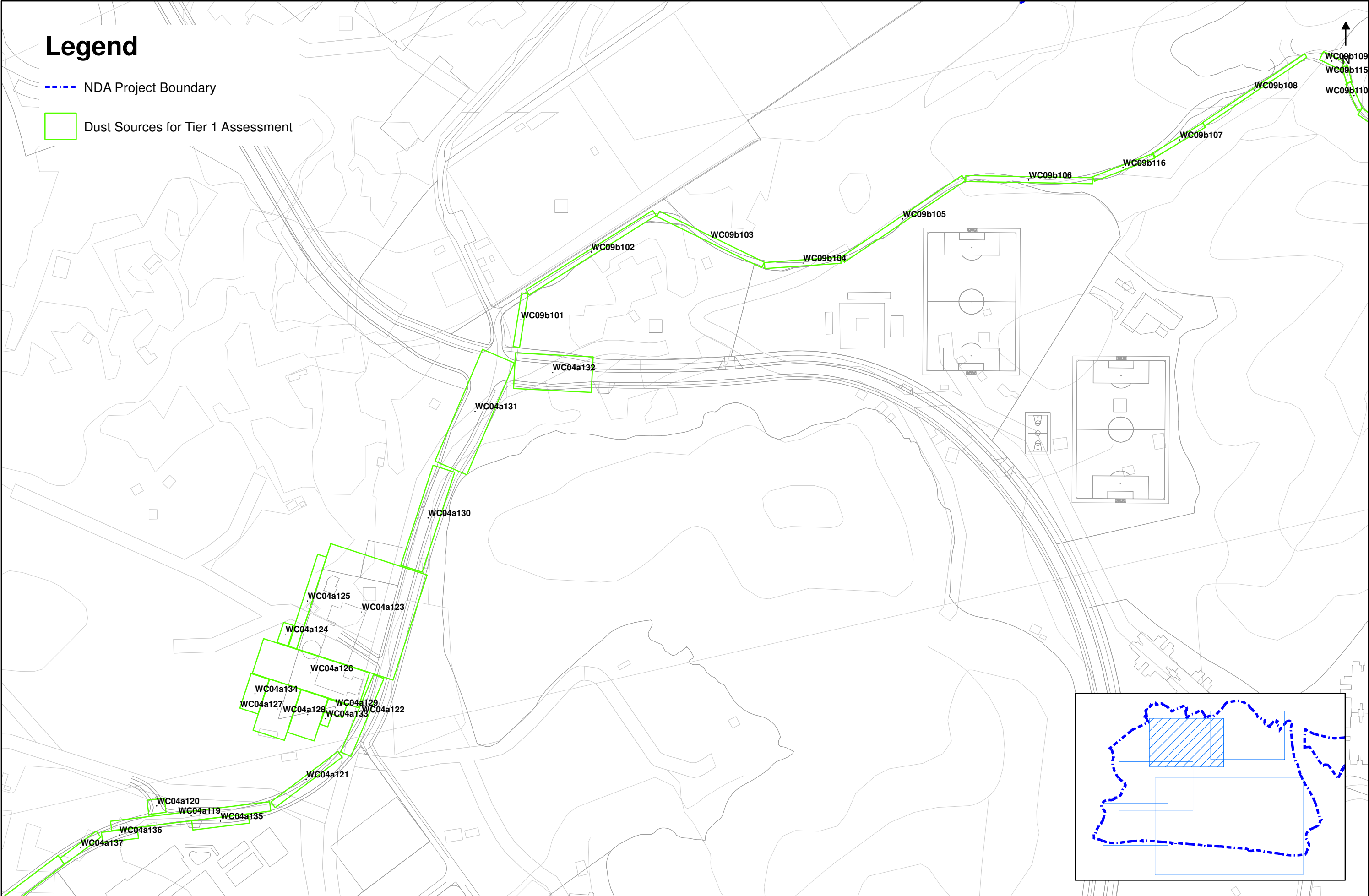
- NDA Boundary
- Dust Sources for Tier 1 Assessment






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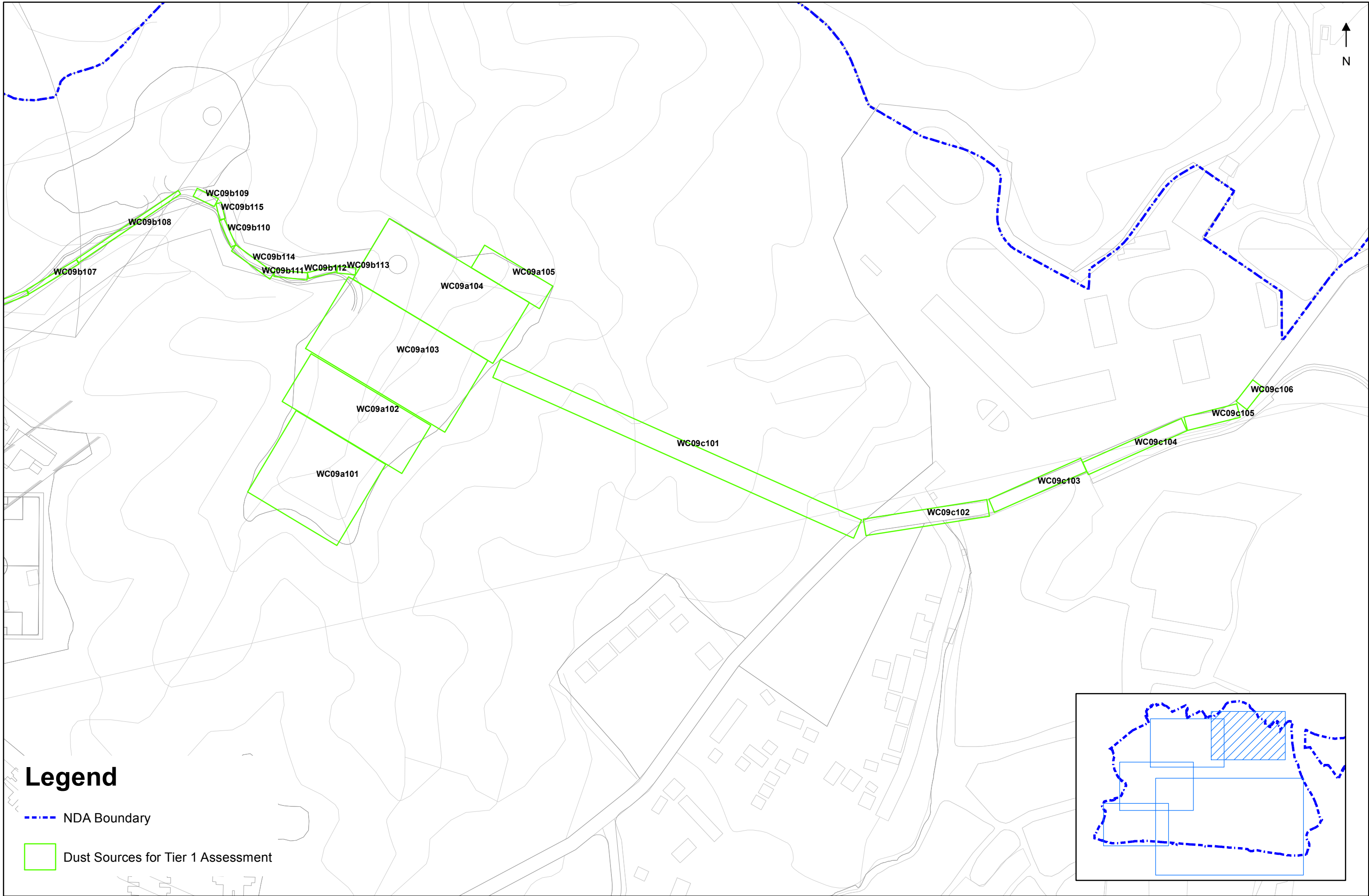
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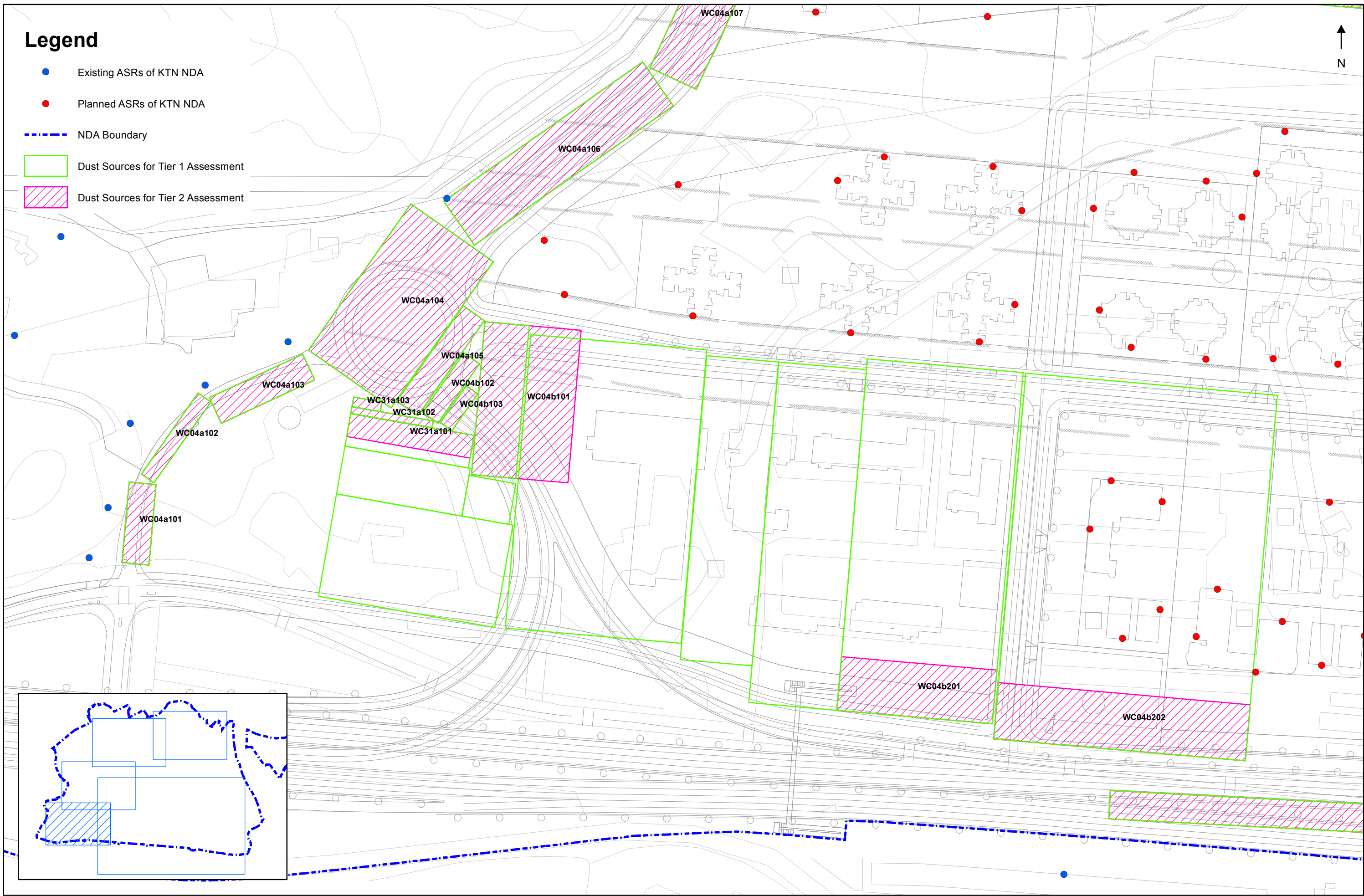
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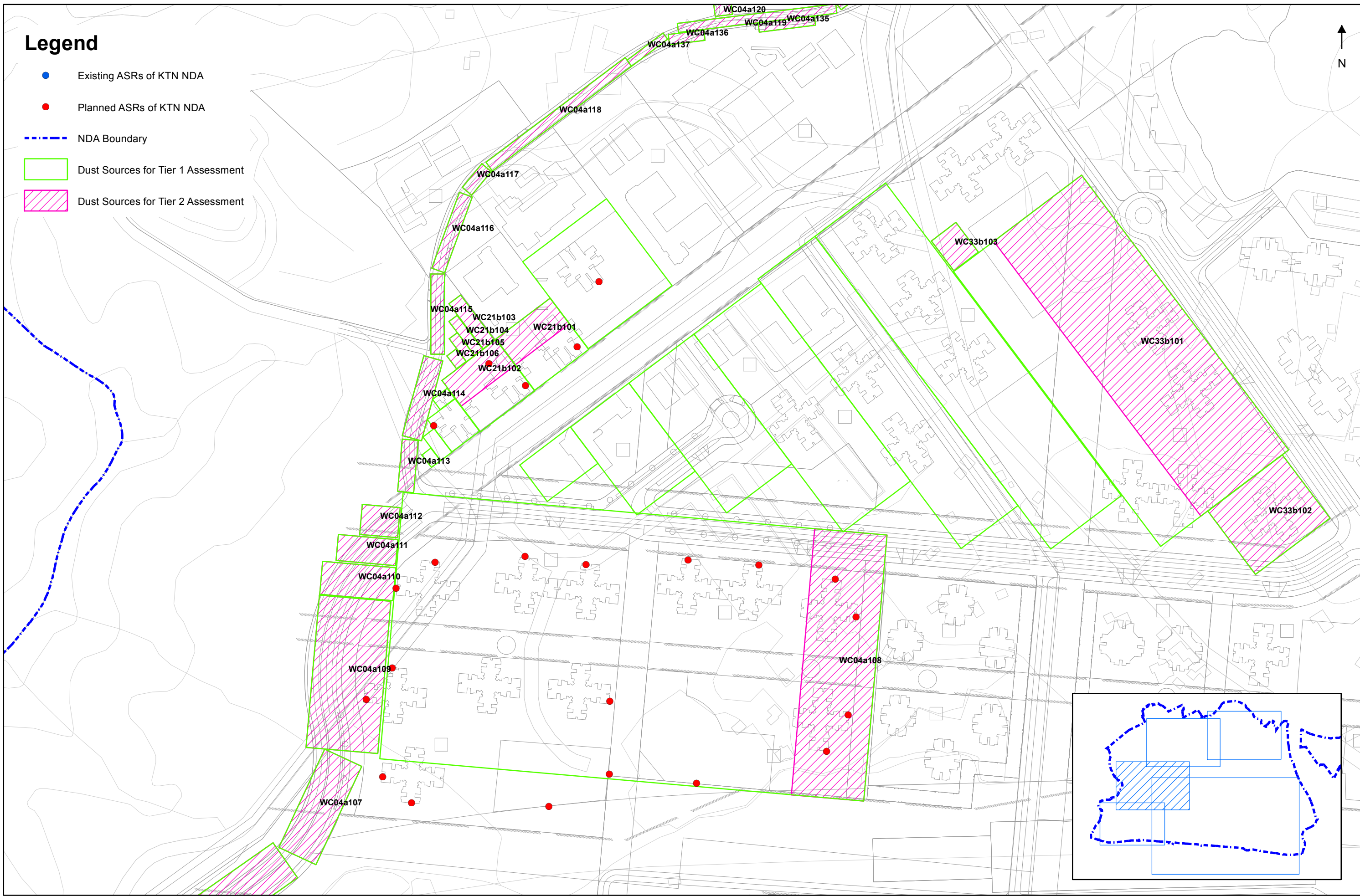
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Legend

- Existing ASRs of KTN NDA
- Planned ASRs of KTN NDA
- NDA Boundary
- Dust Sources for Tier 1 Assessment
- Dust Sources for Tier 2 Assessment

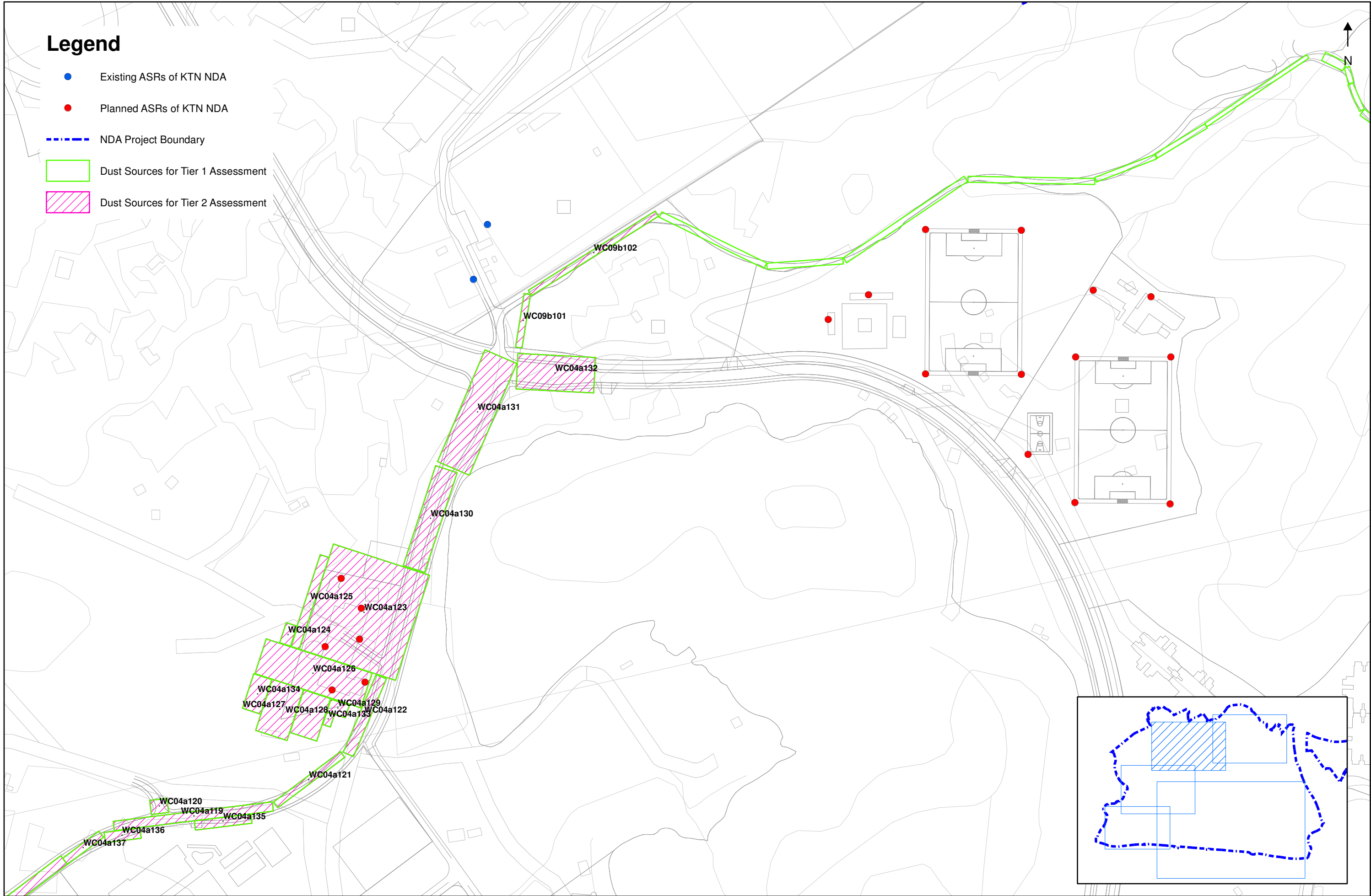


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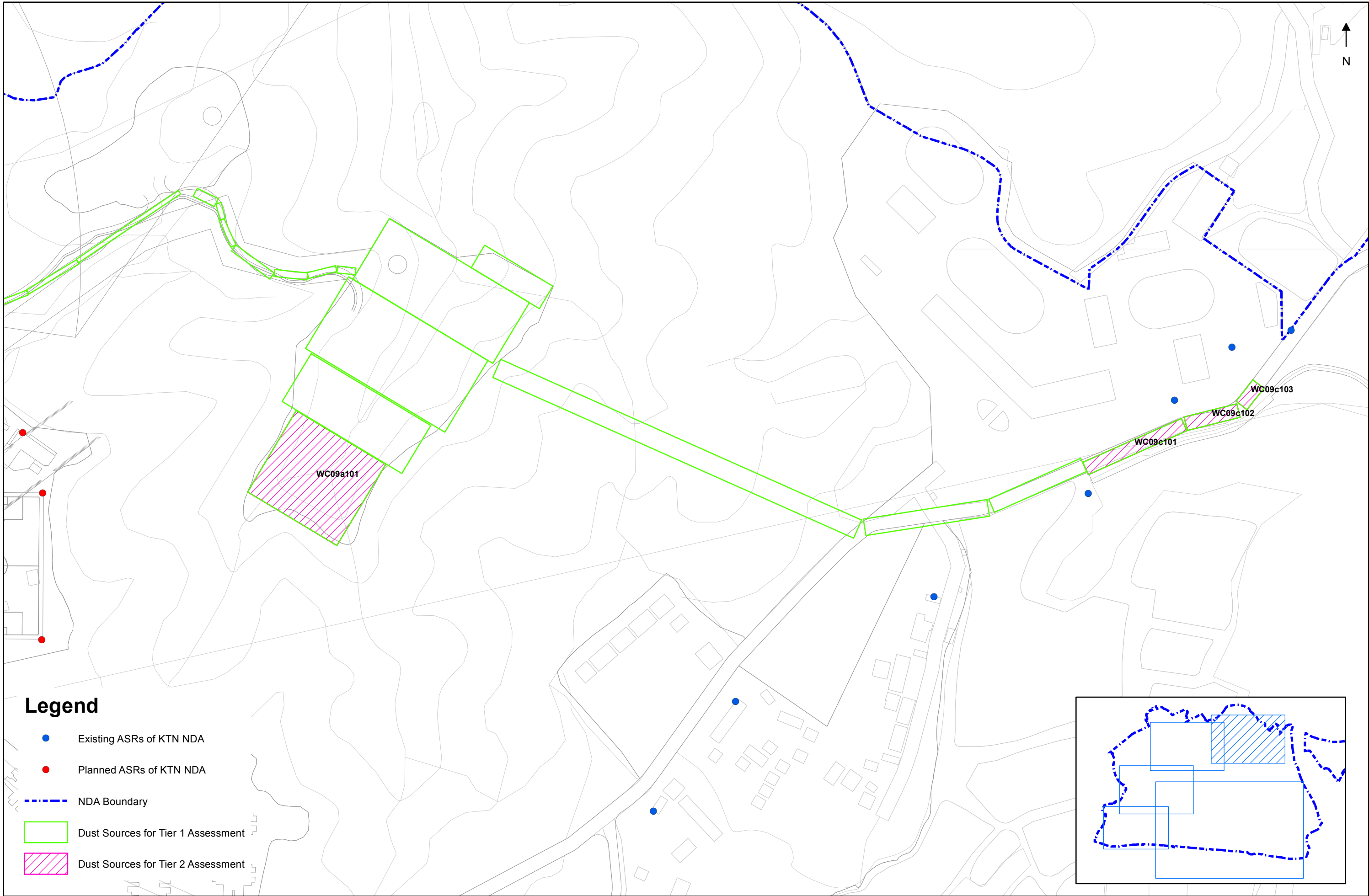
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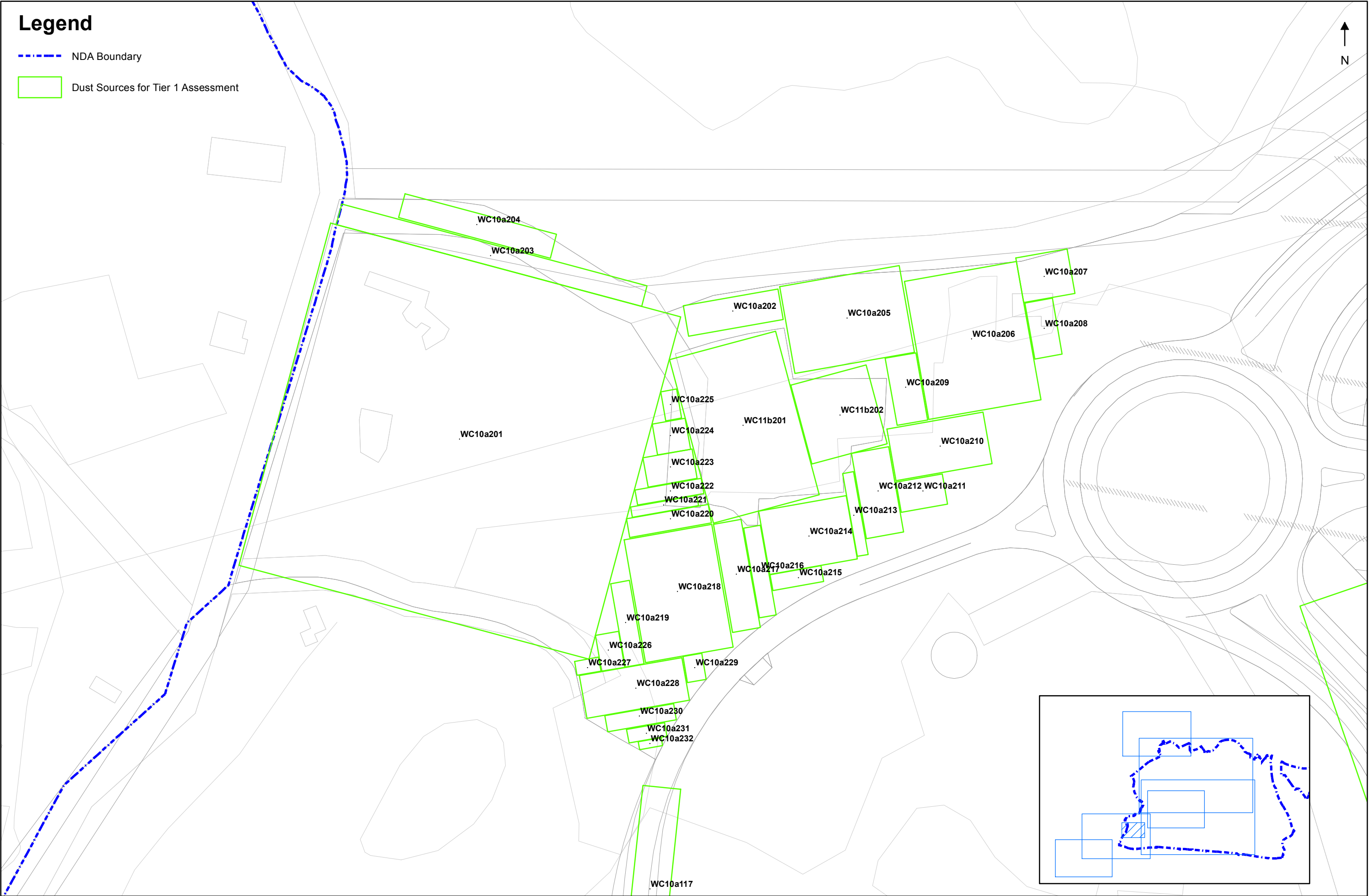
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Legend

- NDA Boundary
- Dust Sources for Tier 1 Assessment

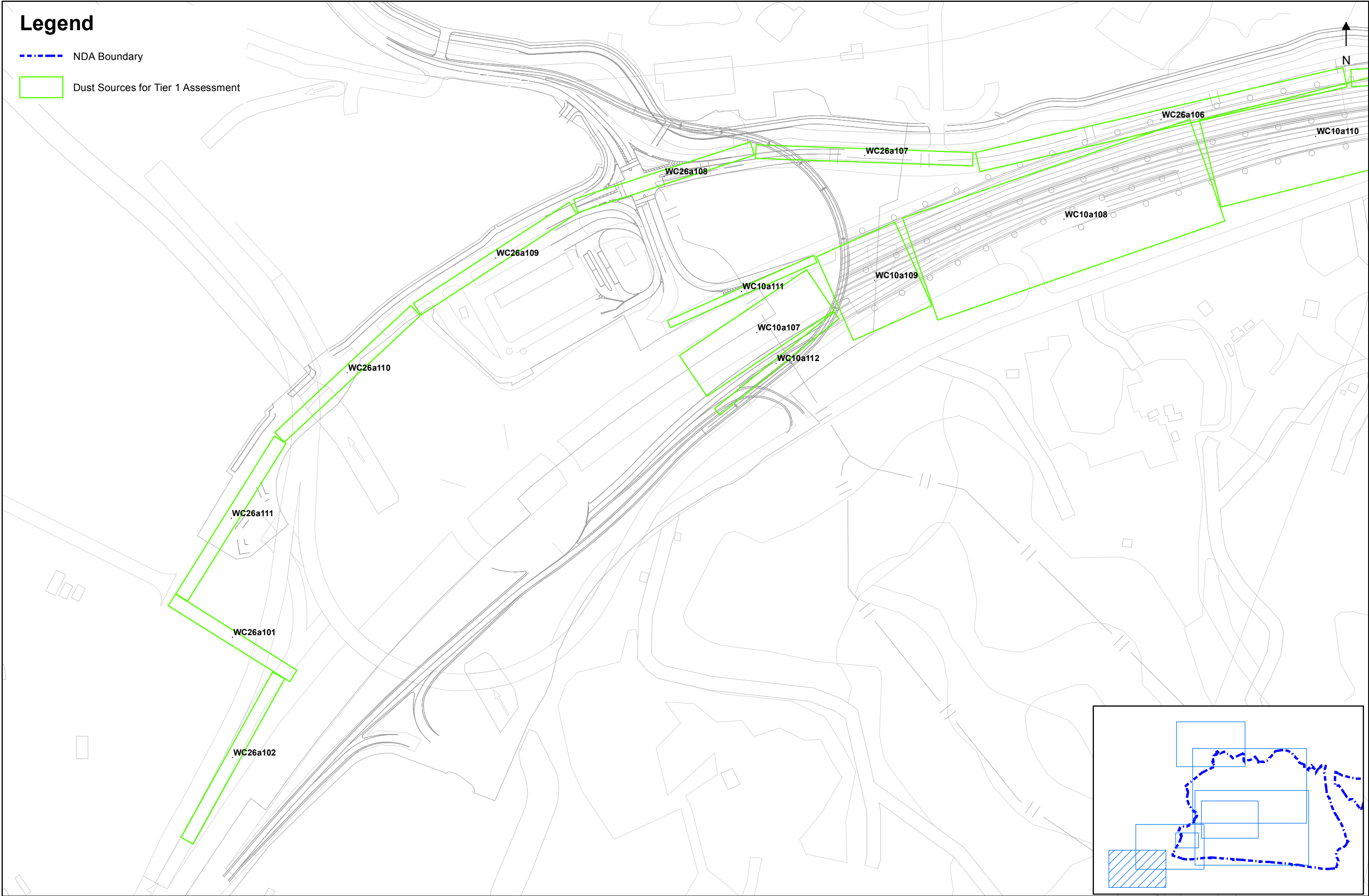


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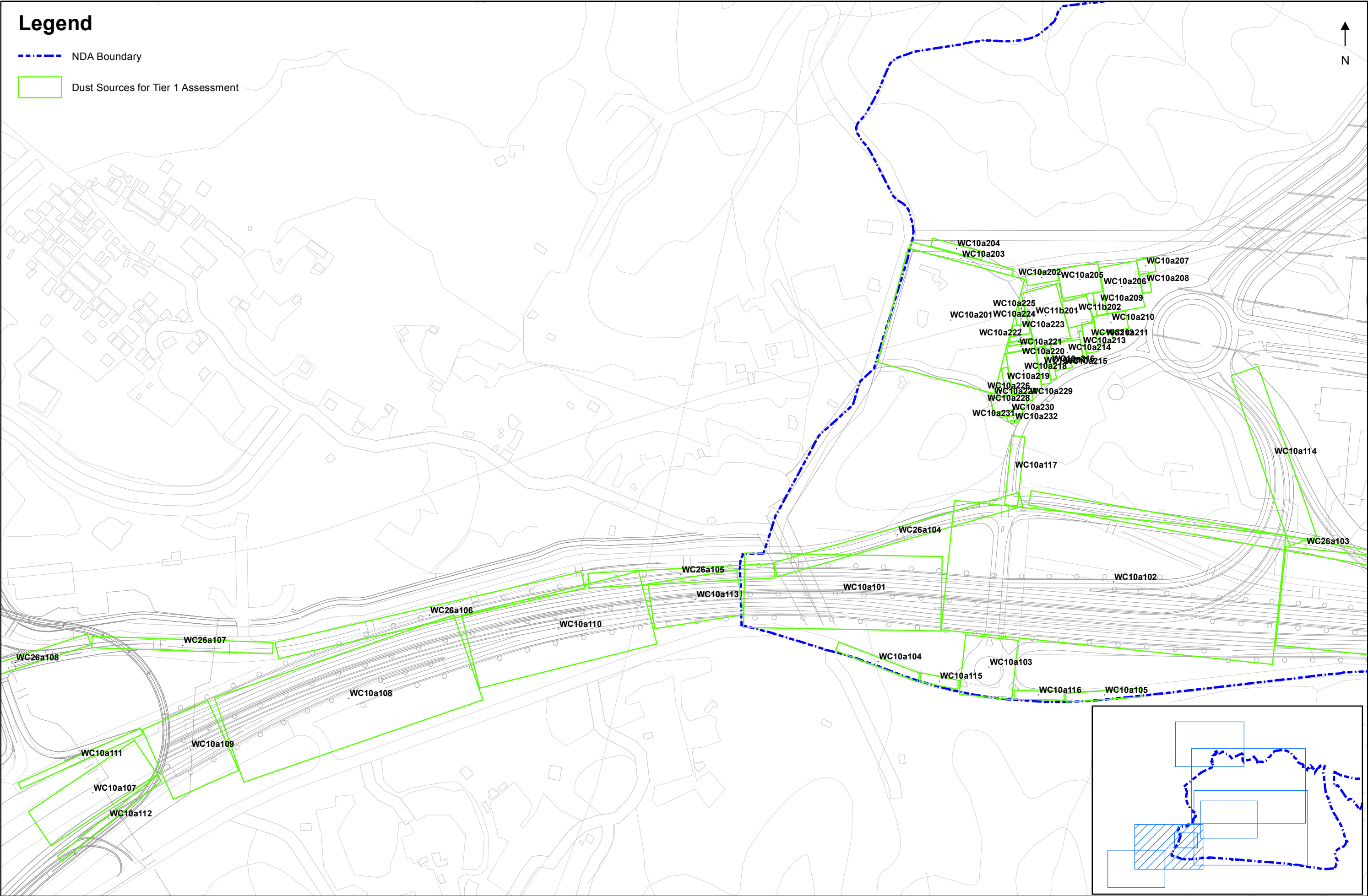
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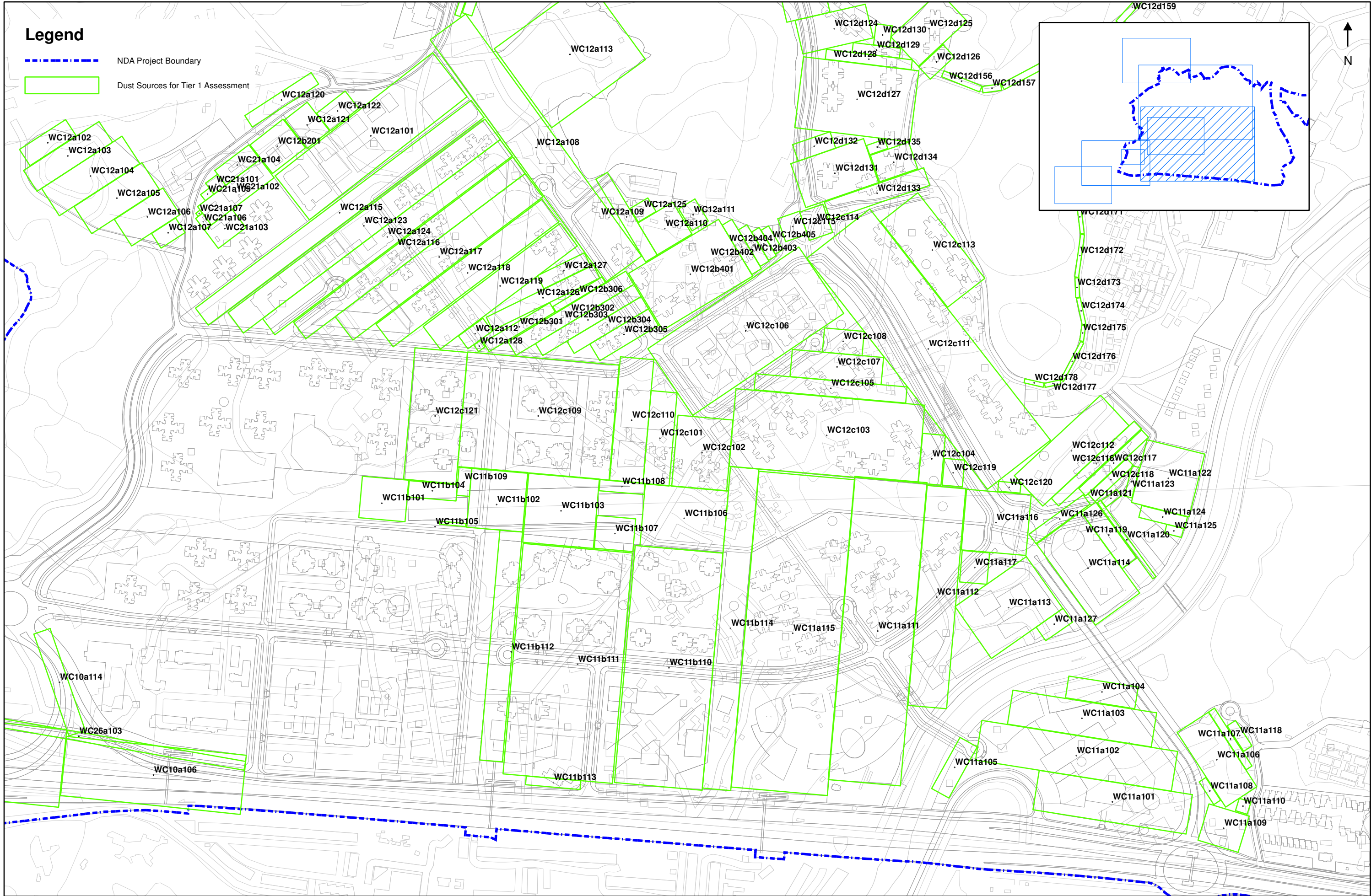
- NDA Boundary
- Dust Sources for Tier 1 Assessment






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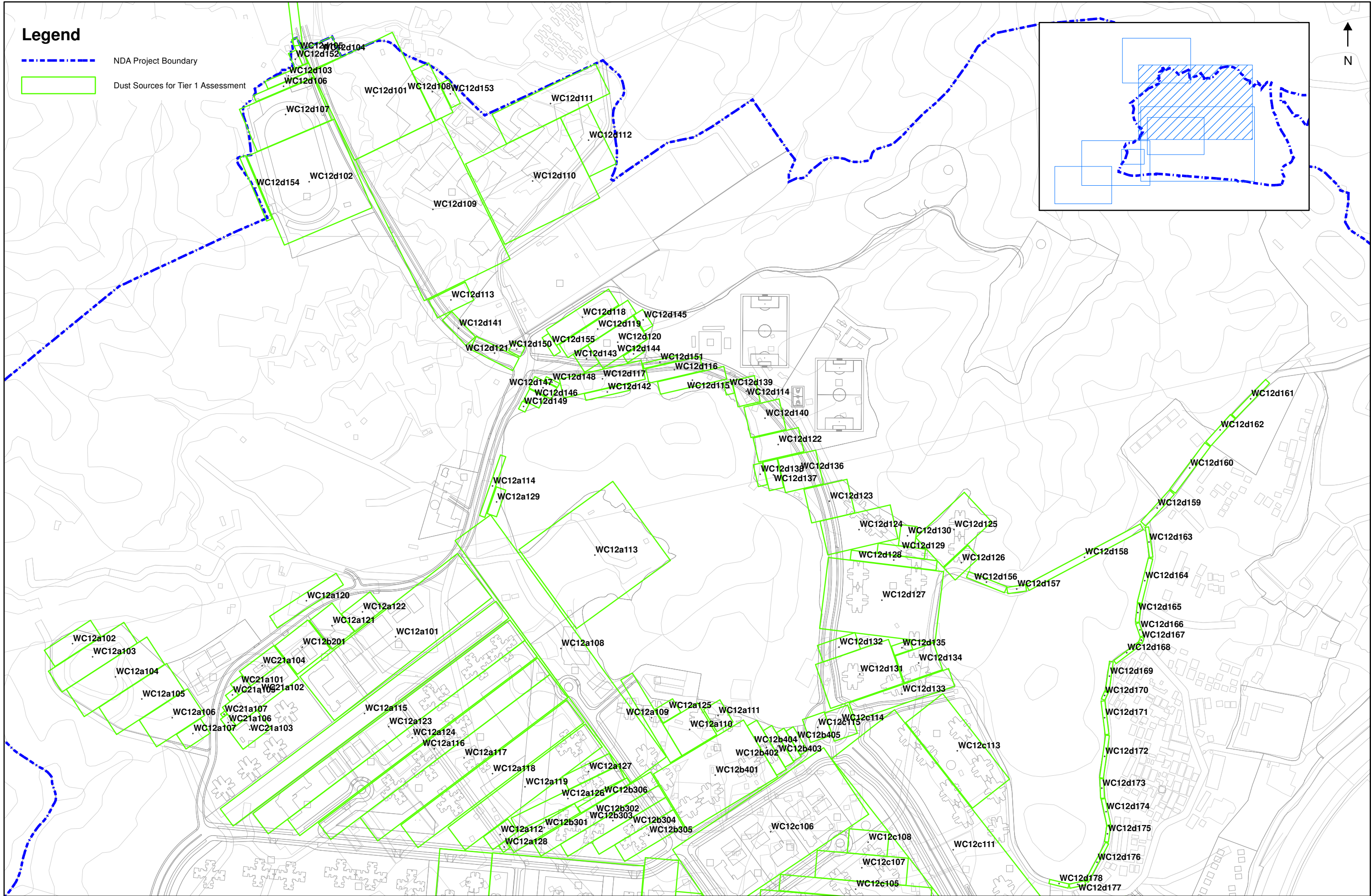


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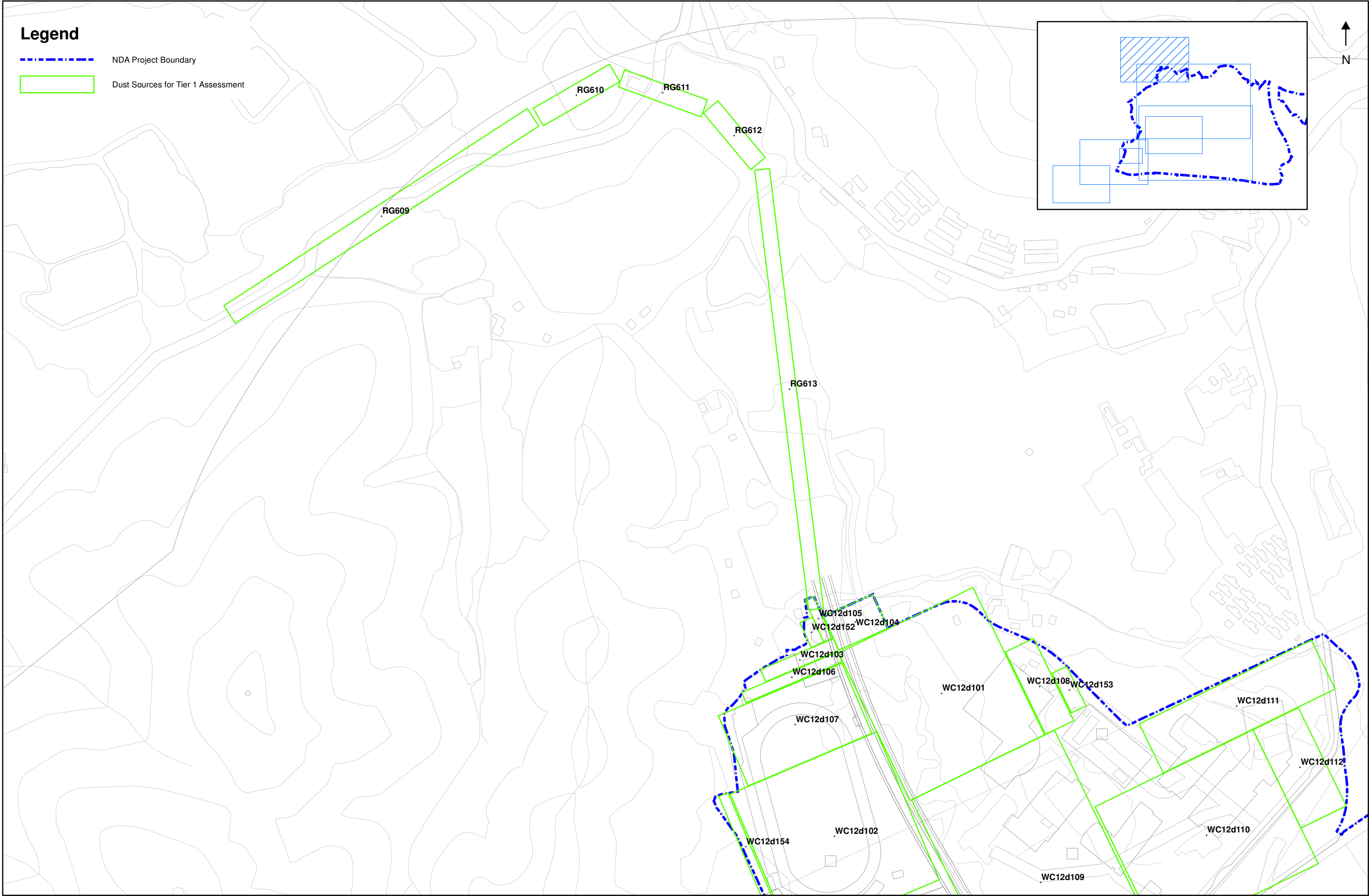
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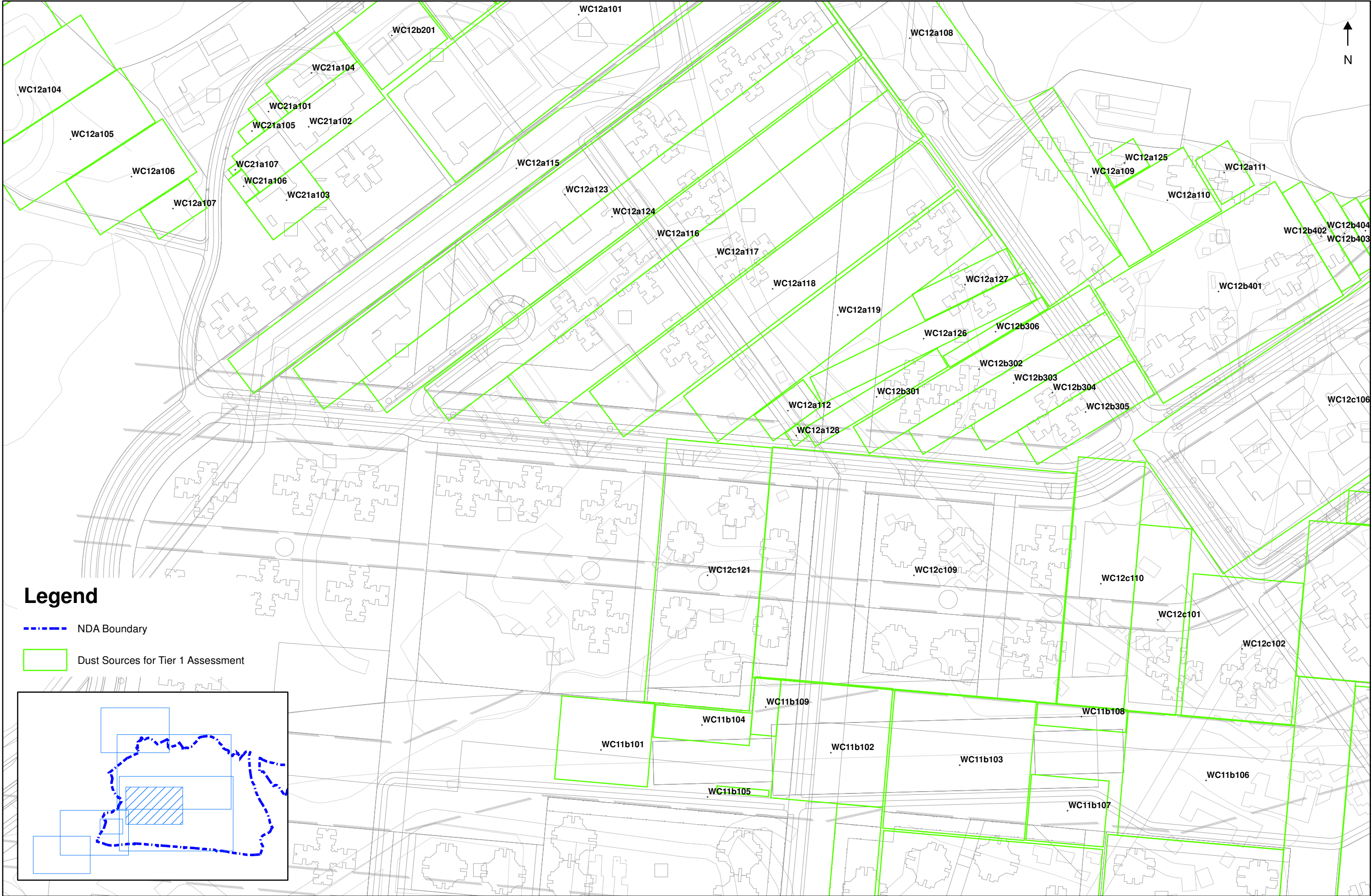
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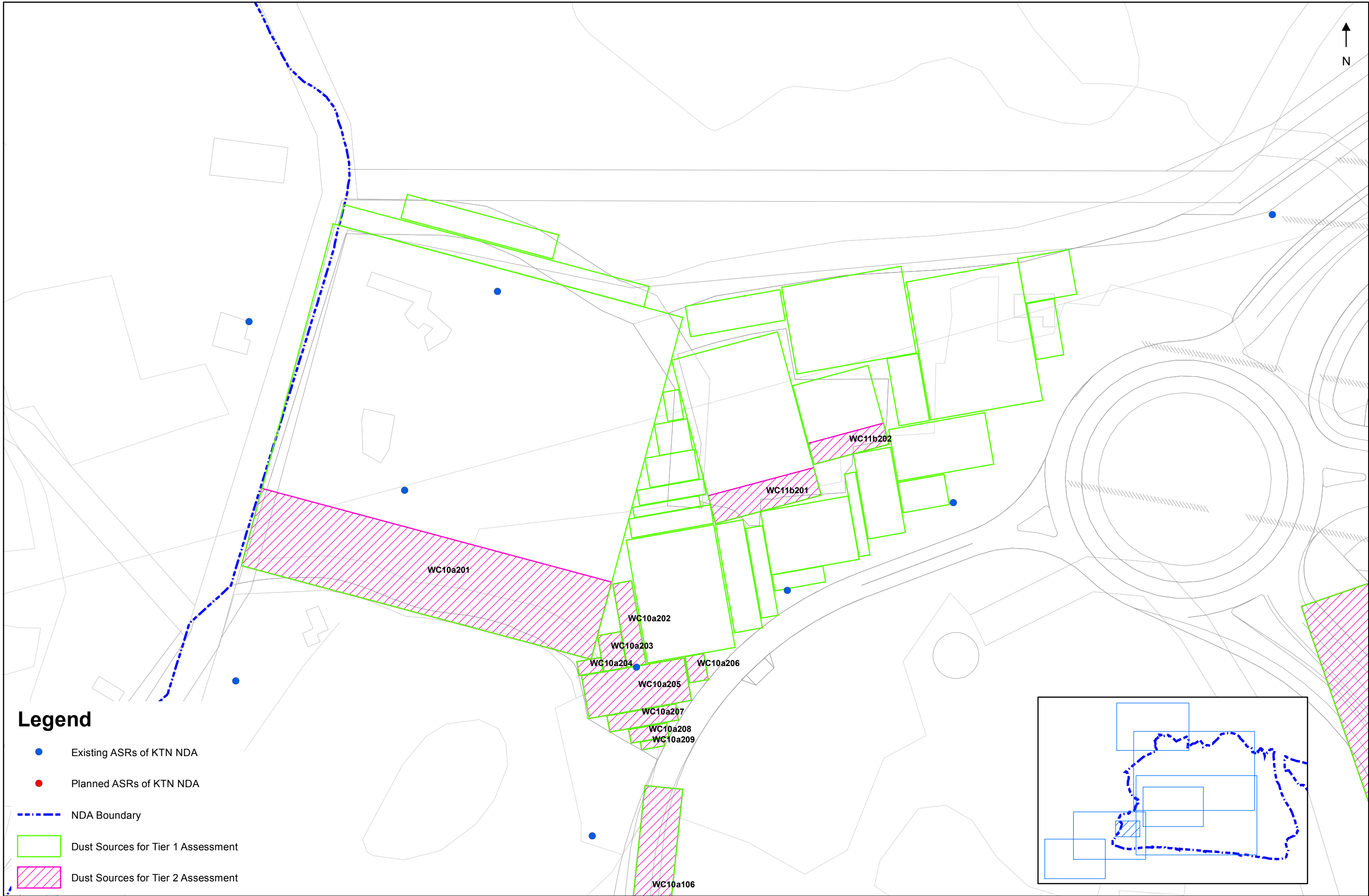
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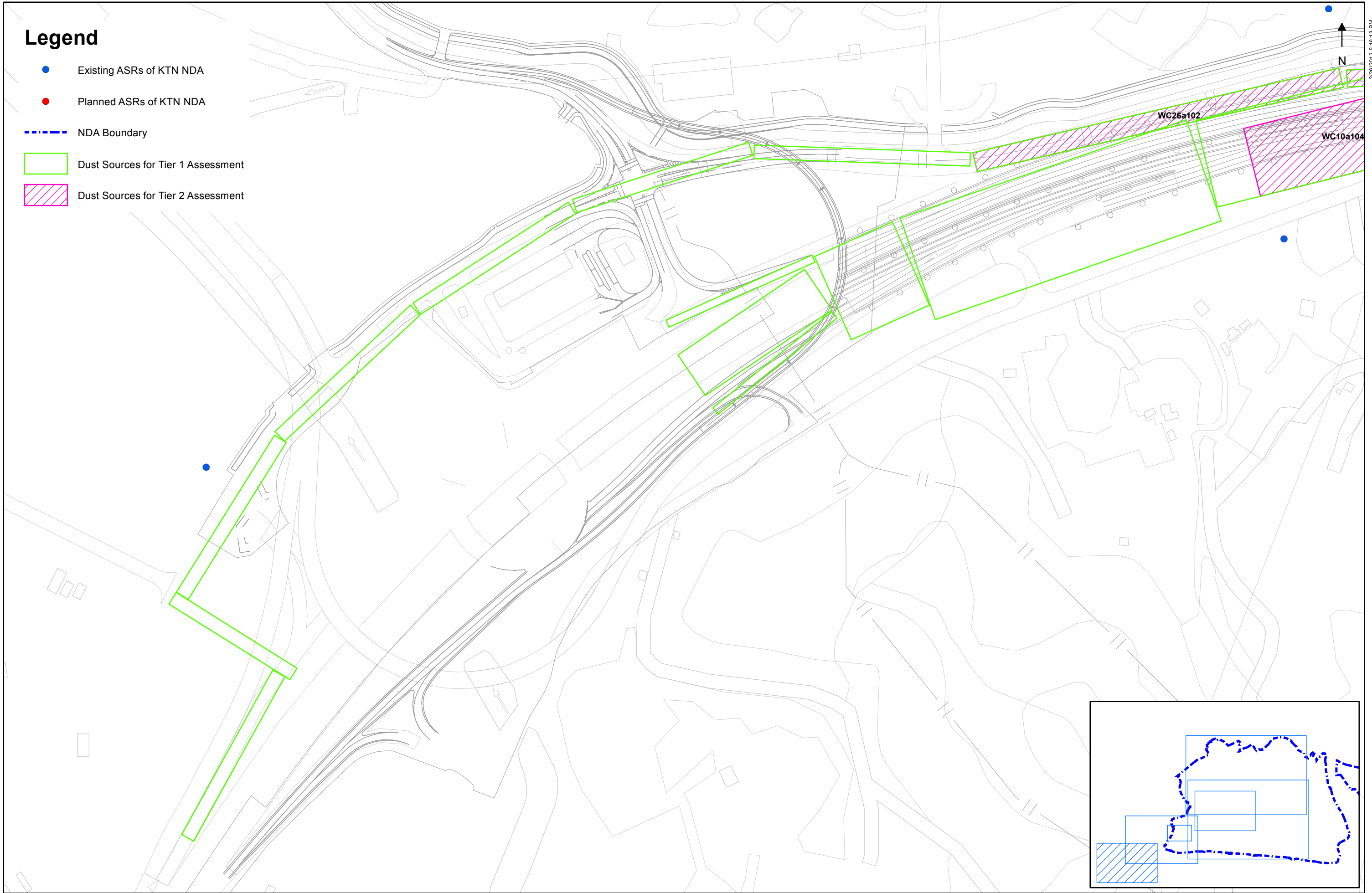
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Legend

- Existing ASRs of KTN NDA
- Planned ASRs of KTN NDA
- NDA Boundary
- Dust Sources for Tier 1 Assessment
- Dust Sources for Tier 2 Assessment



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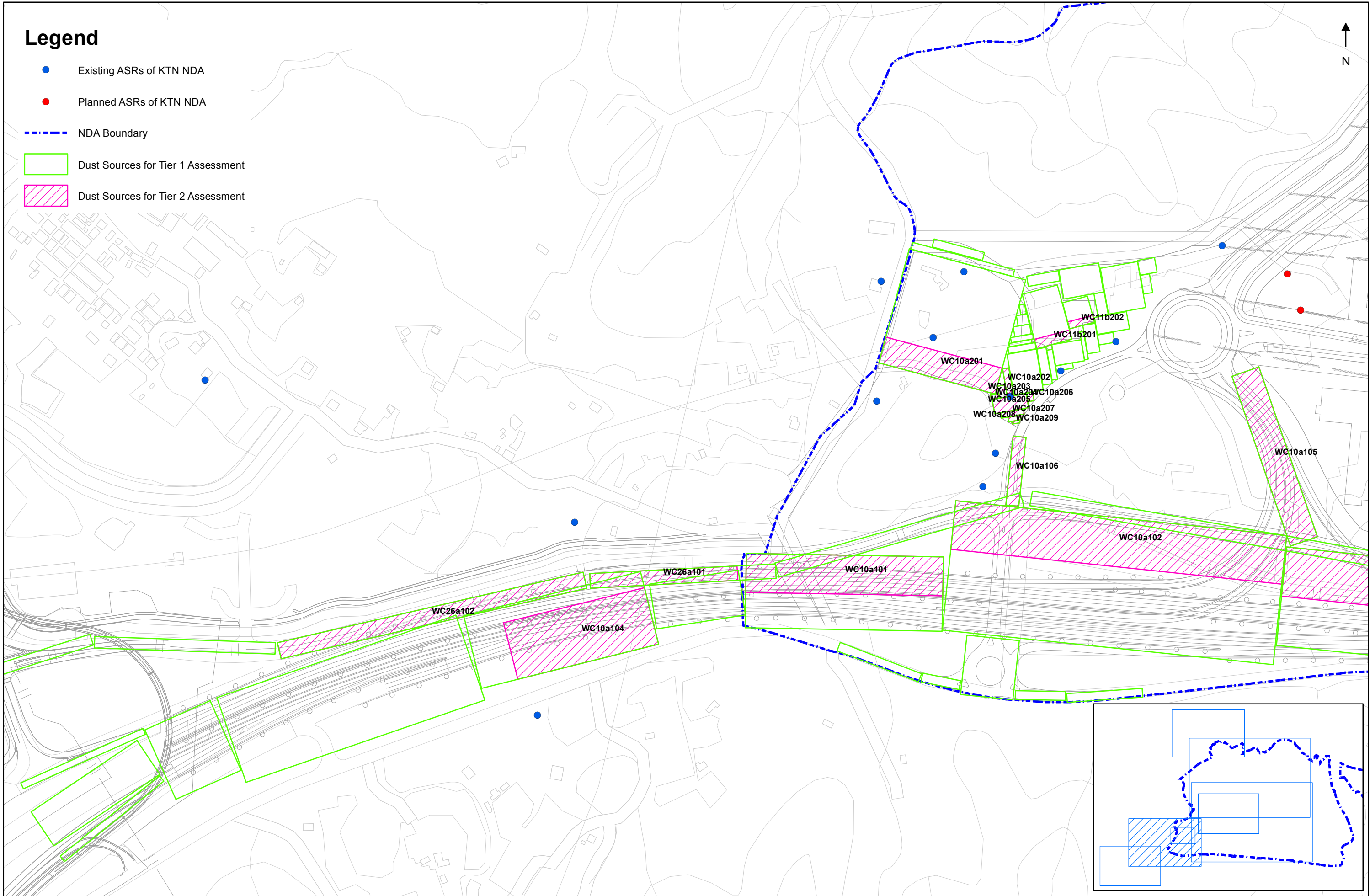
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Legend

- Existing ASRs of KTN NDA
- Planned ASRs of KTN NDA
- NDA Boundary
- Dust Sources for Tier 1 Assessment
- Dust Sources for Tier 2 Assessment

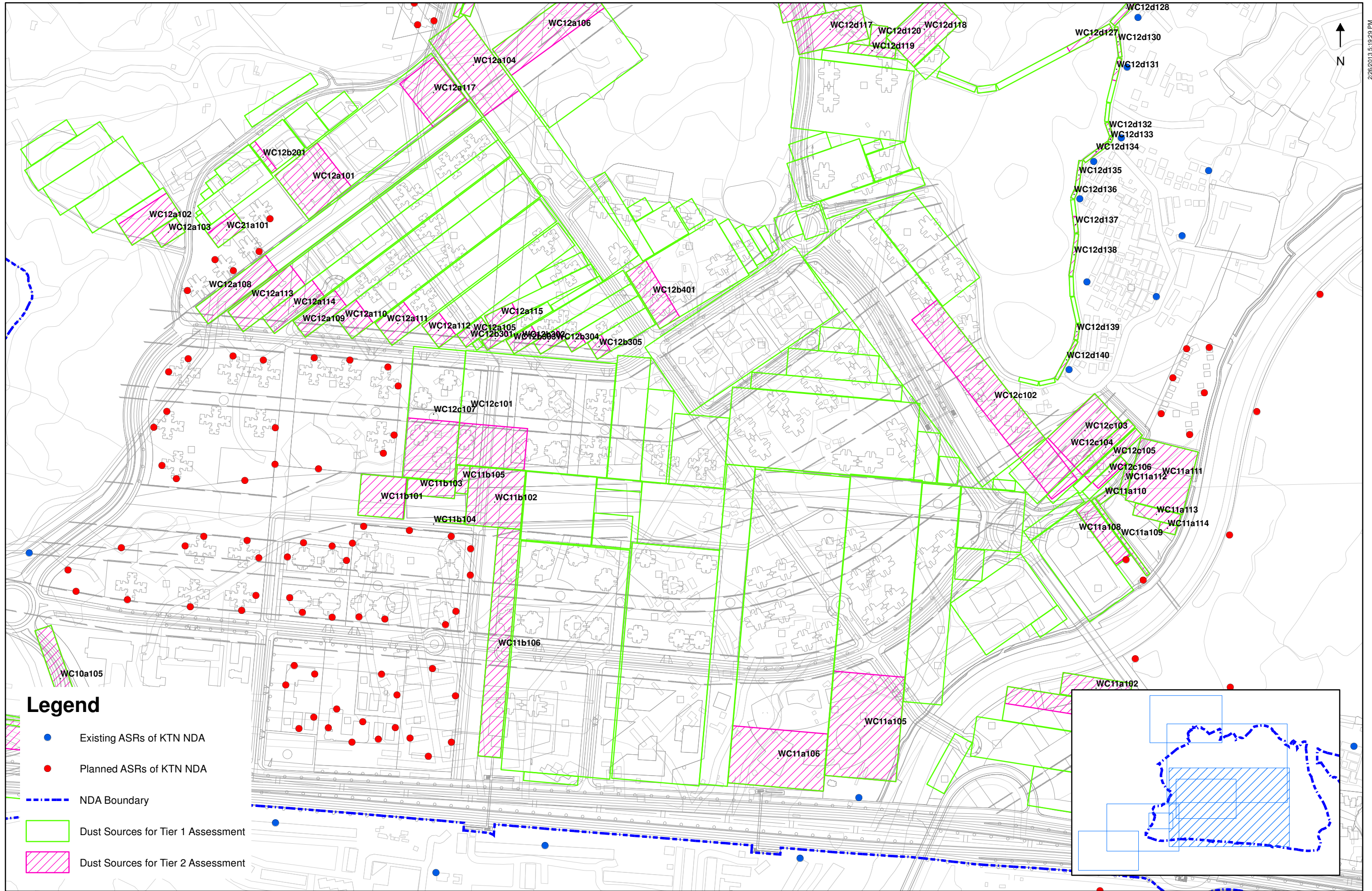


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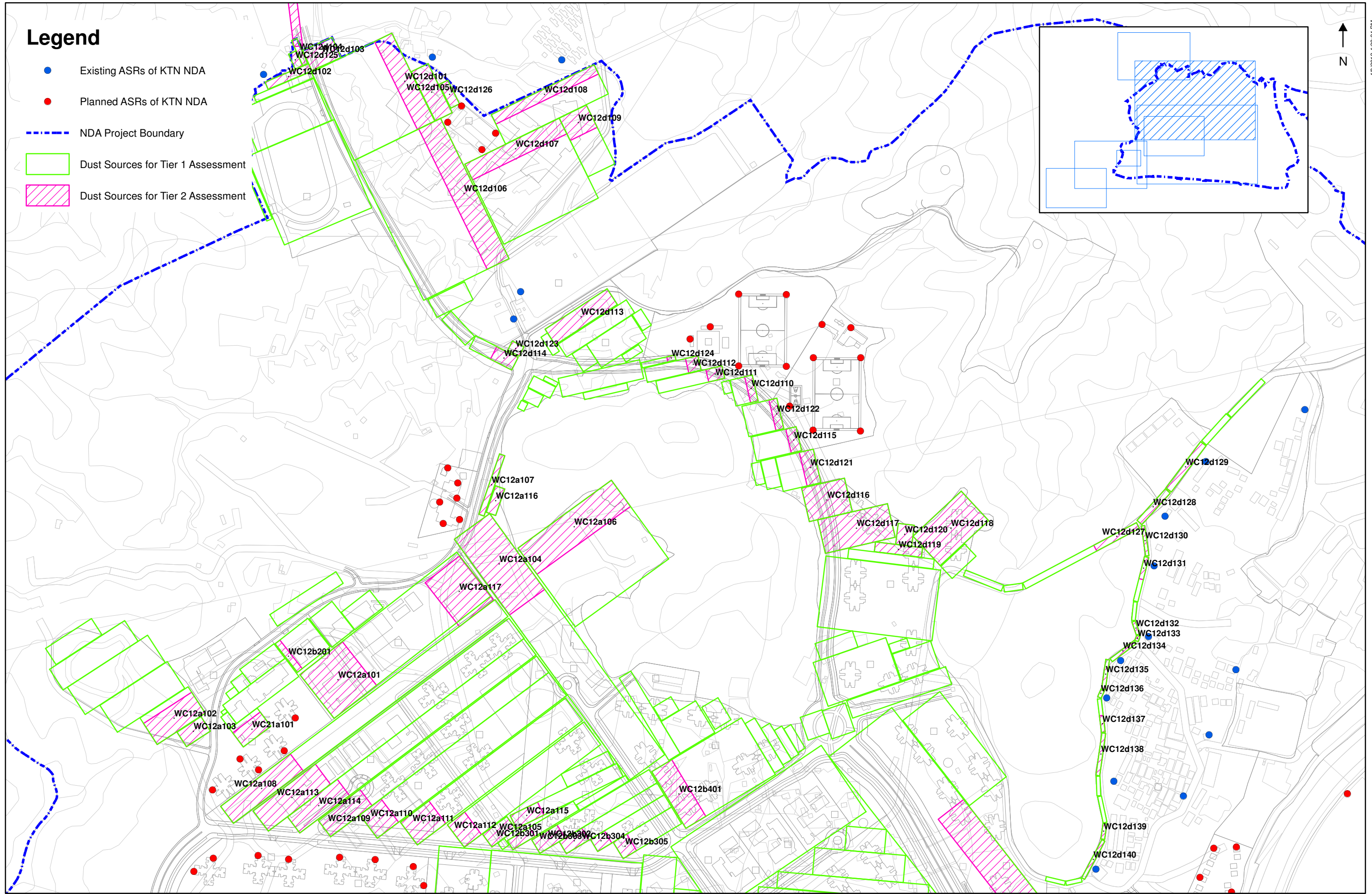
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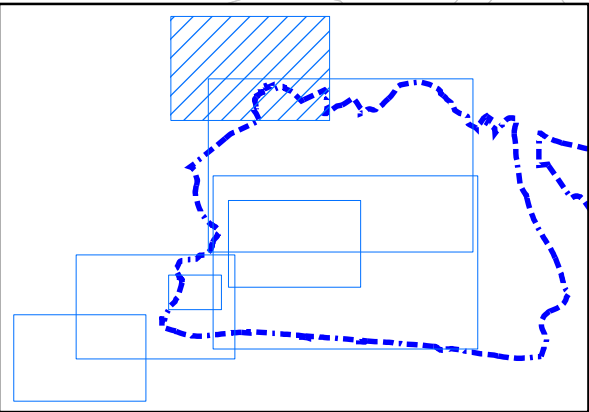
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- Planned ASRs of KTN NDA
- NDA Project Boundary
- Dust Sources for Tier 1 Assessment
- Dust Sources for Tier 2 Assessment



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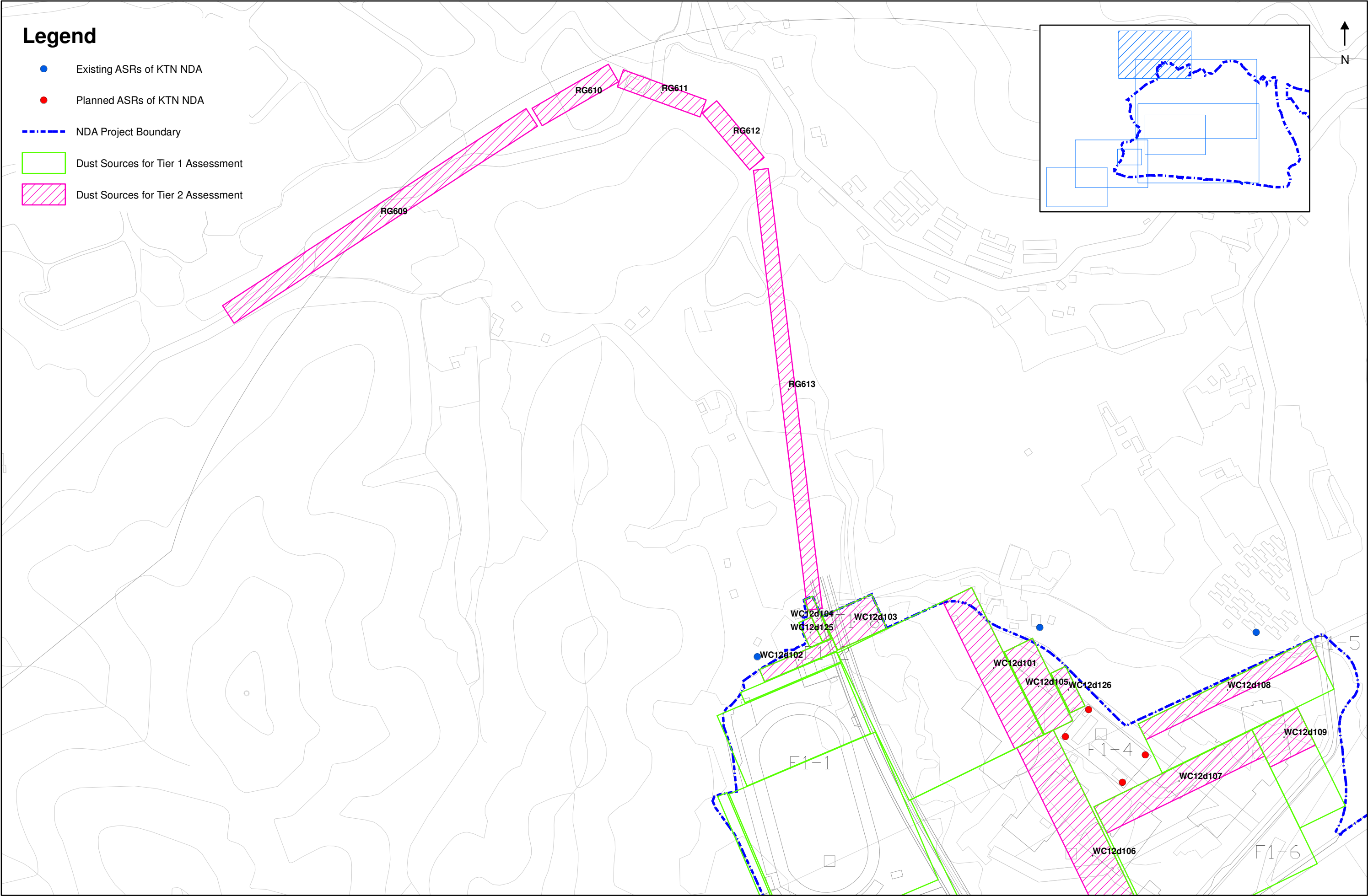
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- Existing ASRs of KTN NDA
- Planned ASRs of KTN NDA
- NDA Project Boundary
- Dust Sources for Tier 1 Assessment
- Dust Sources for Tier 2 Assessment



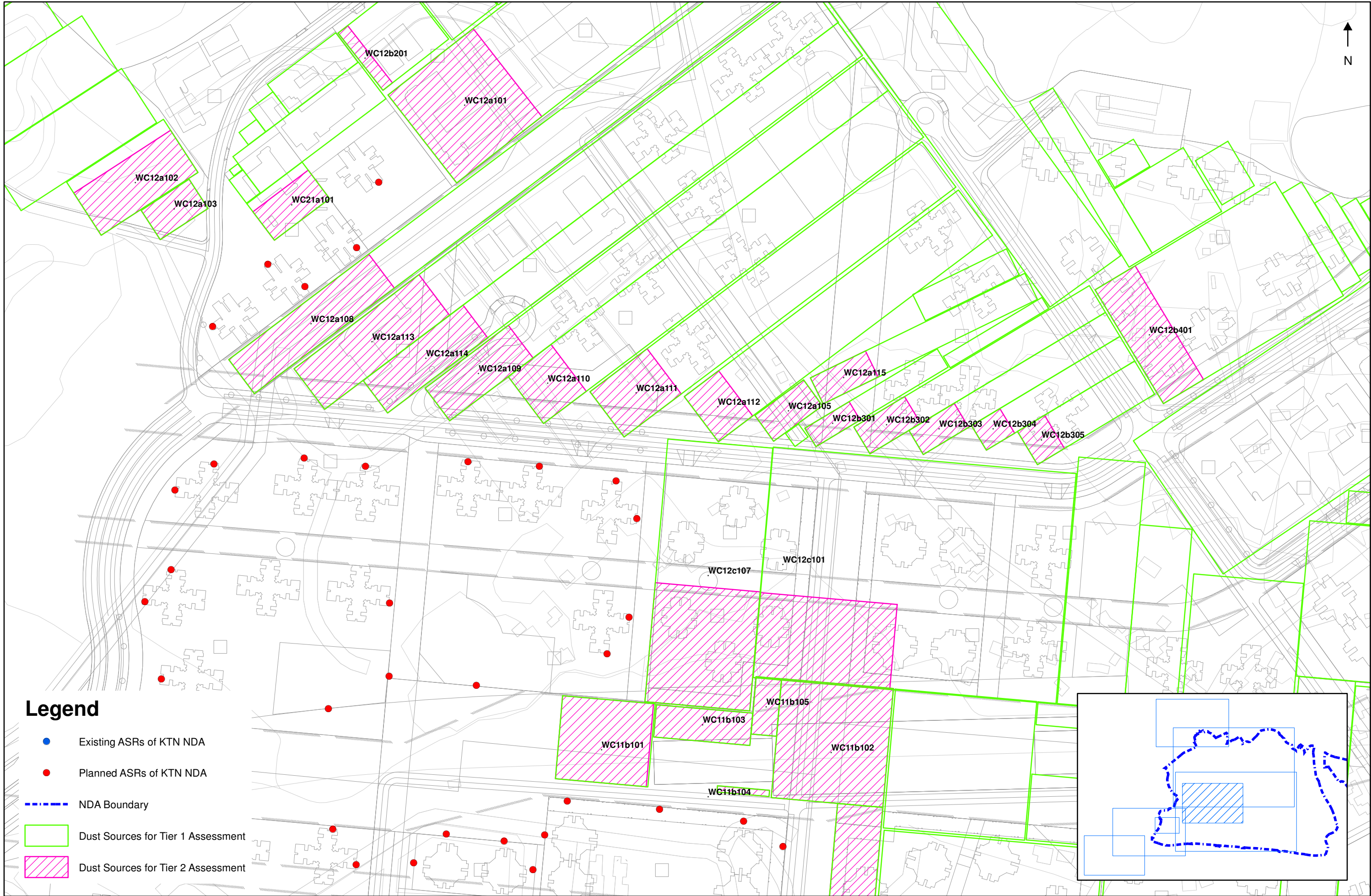
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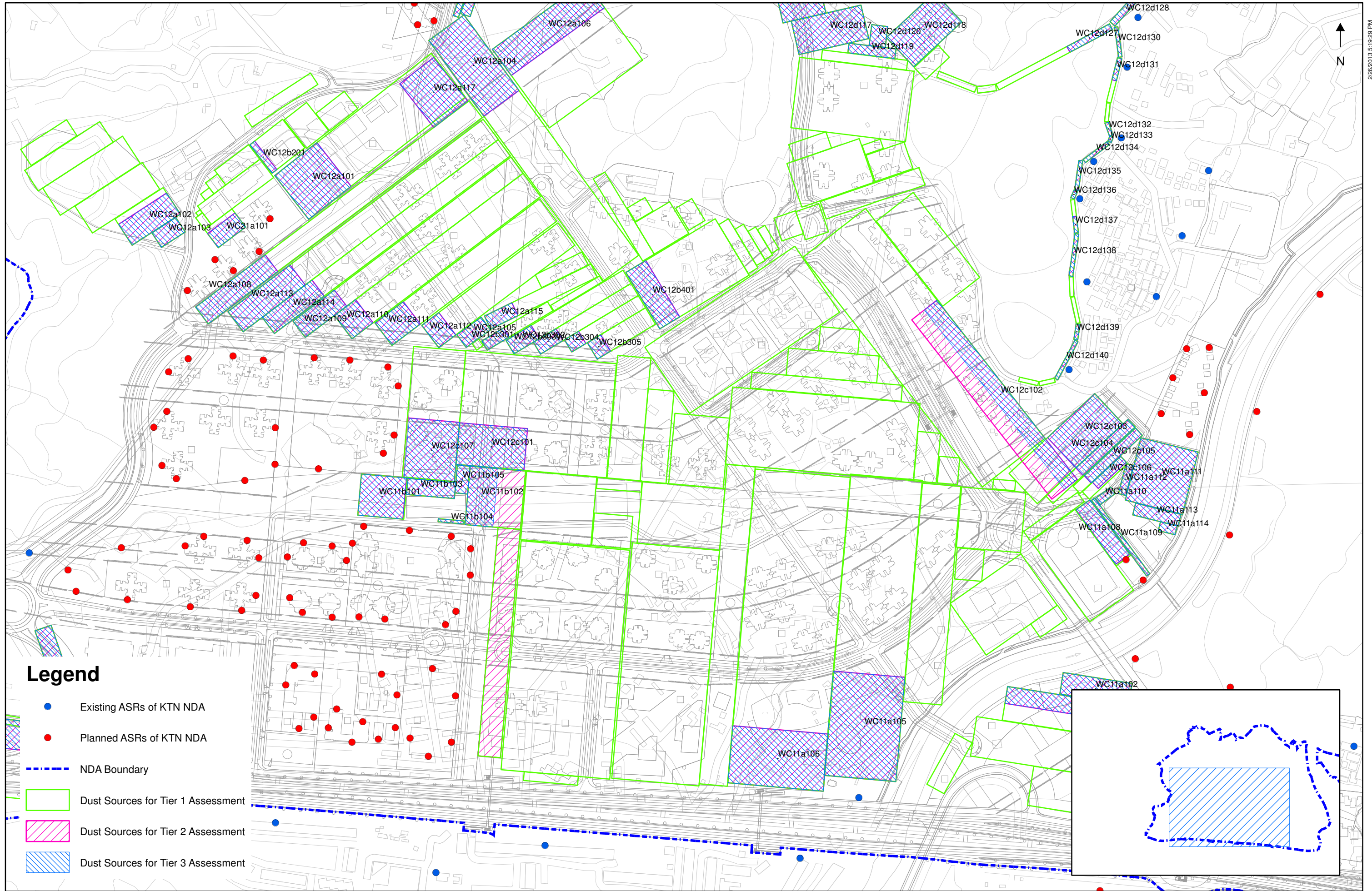
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Dust Sources for Tier 1 Assessment

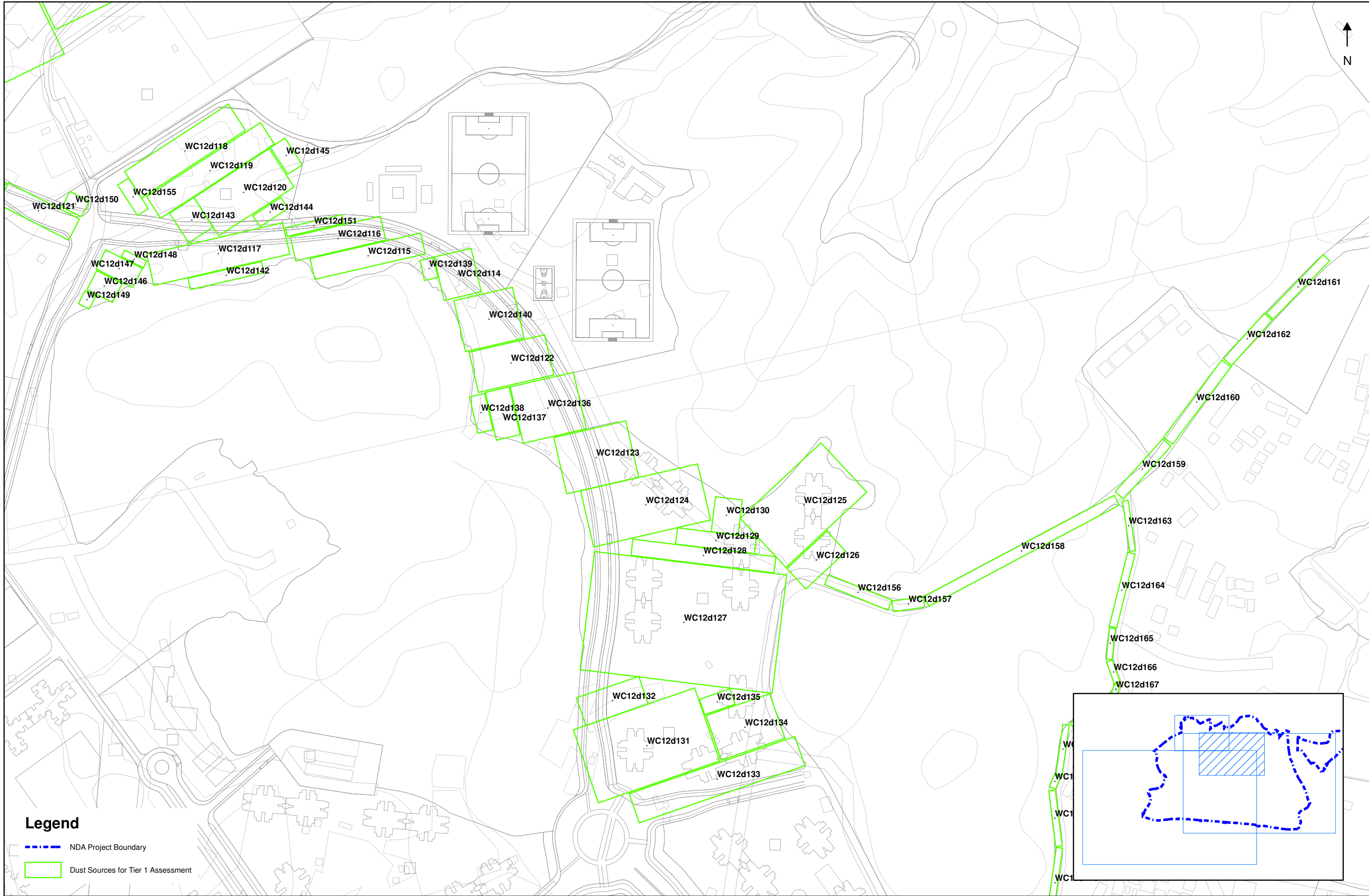


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Drawing Title
Location of Dust Emission Sources
for Tier 1 & Annual Assessment
for KTN NDA in Year 2028
(Sheet 1 of 4)

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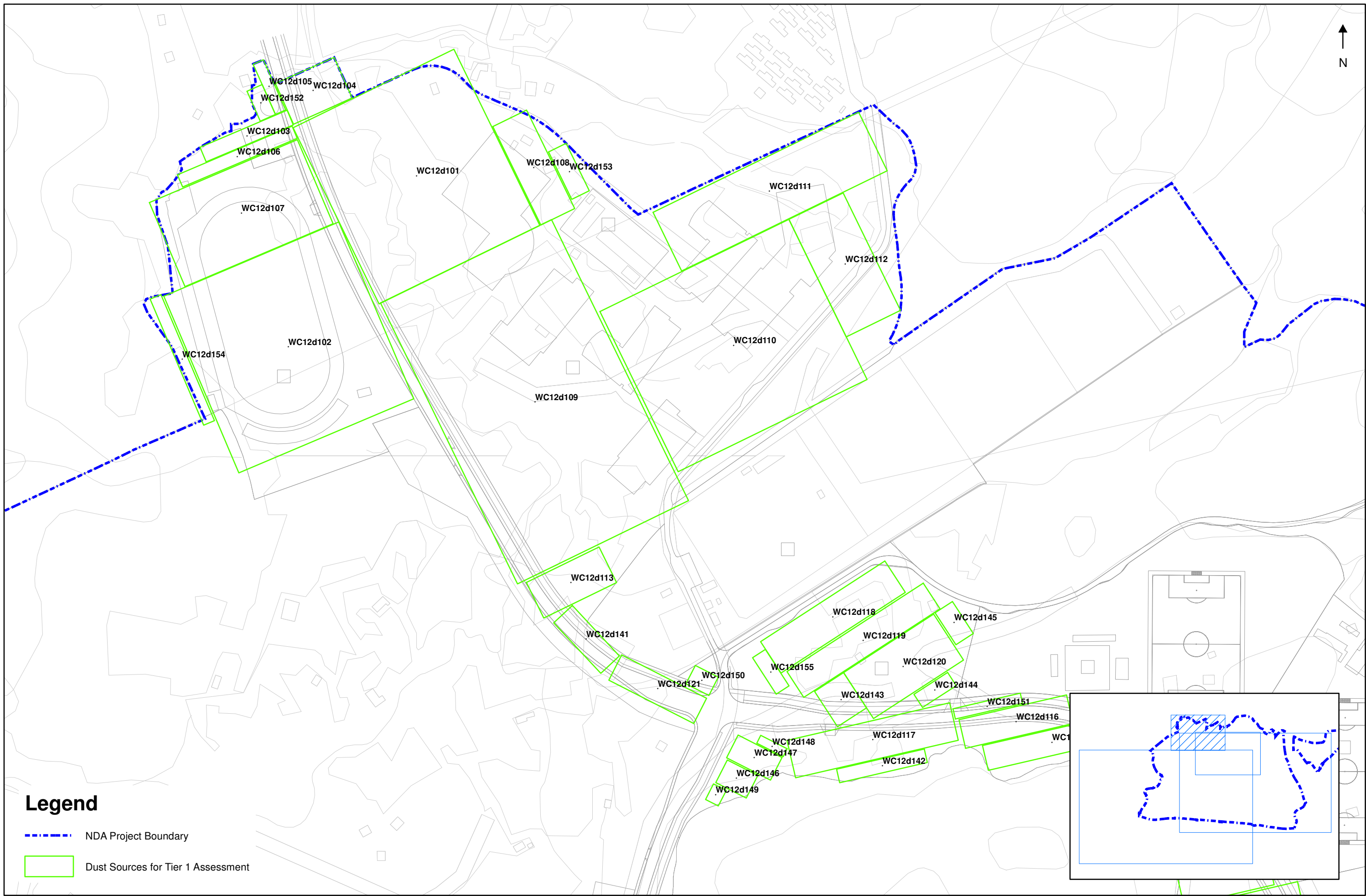





Job Title
Agreement No. CE 61/007 (CE)
North East New Territories New Development Areas
Planning and Engineering Study – Investigation

Drawing Title
Location of Dust Emission Sources
for Tier 1 & Annual Assessment
for KTN NDA in Year 2028
(Sheet 3 of 4)

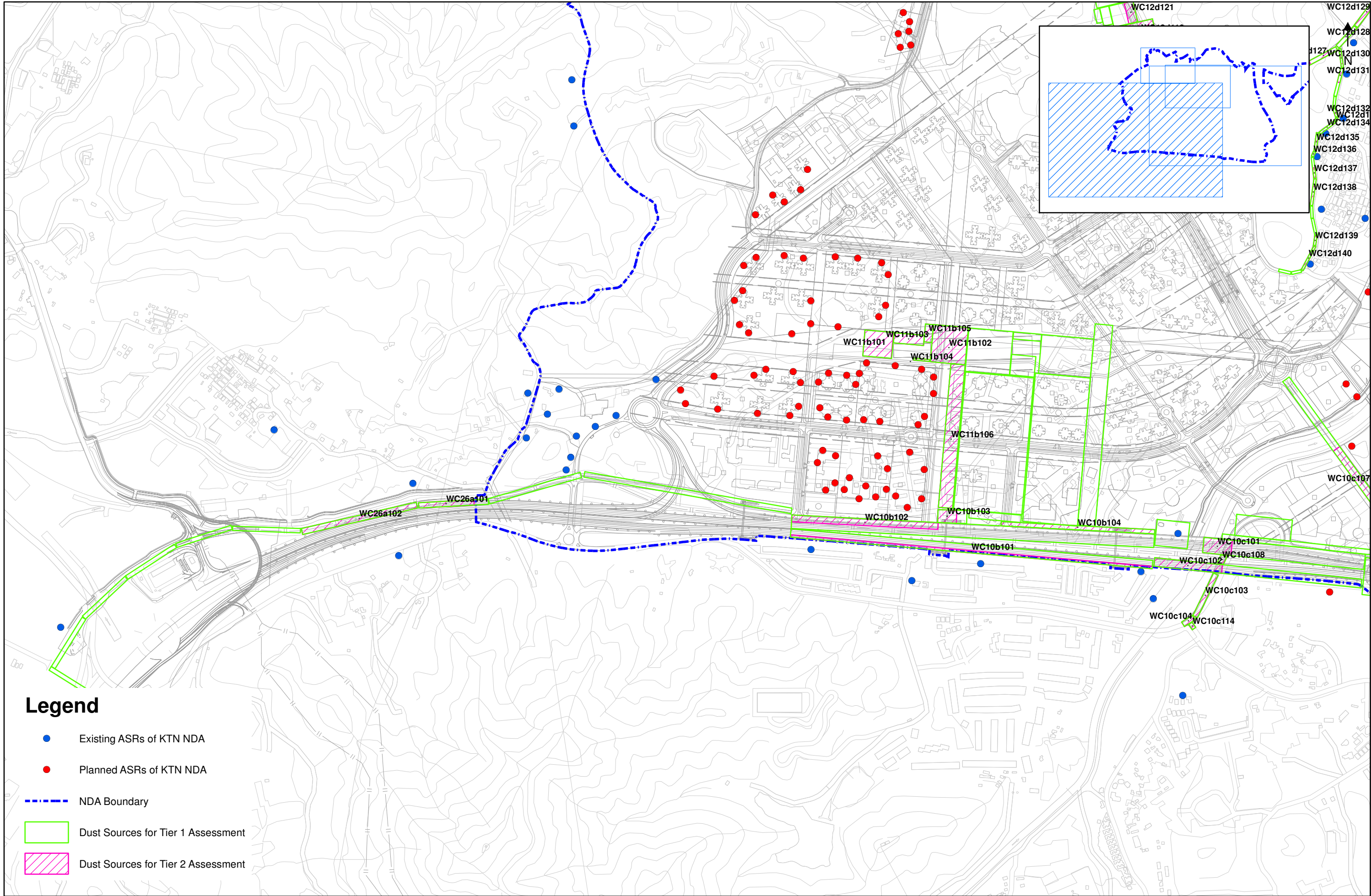
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 <div>土木工程拓展署 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT</div>	 <div>規劃署 PLANNING DEPARTMENT</div>		Job Title Agreement No. CE 61/007 (CE) North East New Territories New Development Areas Planning and Engineering Study – Investigation	Drawing Title Location of Dust Emission Sources for Tier 1 & Annual Assessment for KTN NDA in Year 2028 (Sheet 4 of 4)			Drawn EC	Date 02/13	Drawing No Appendix 3.3-KTN-T1-2028-d
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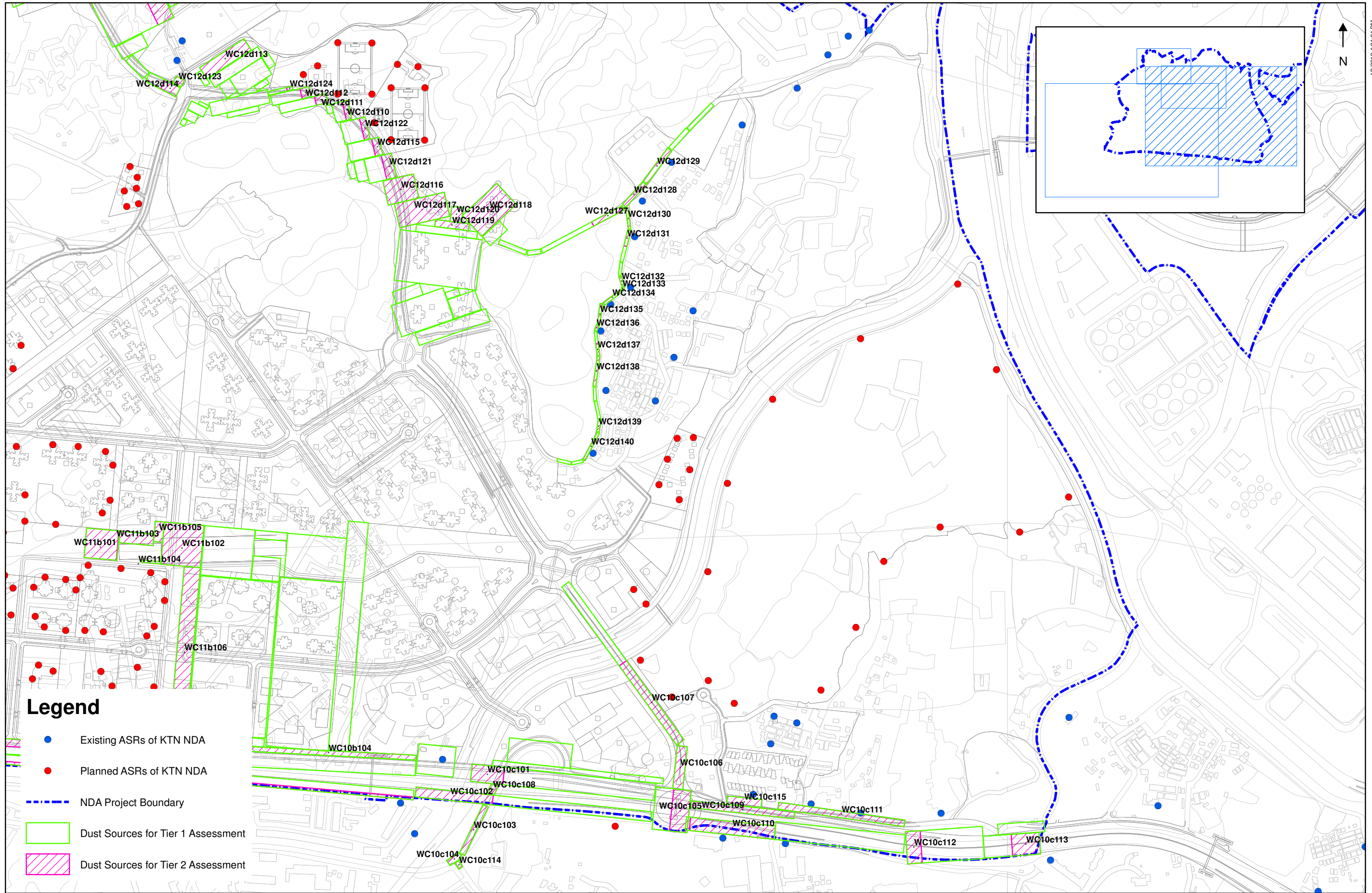
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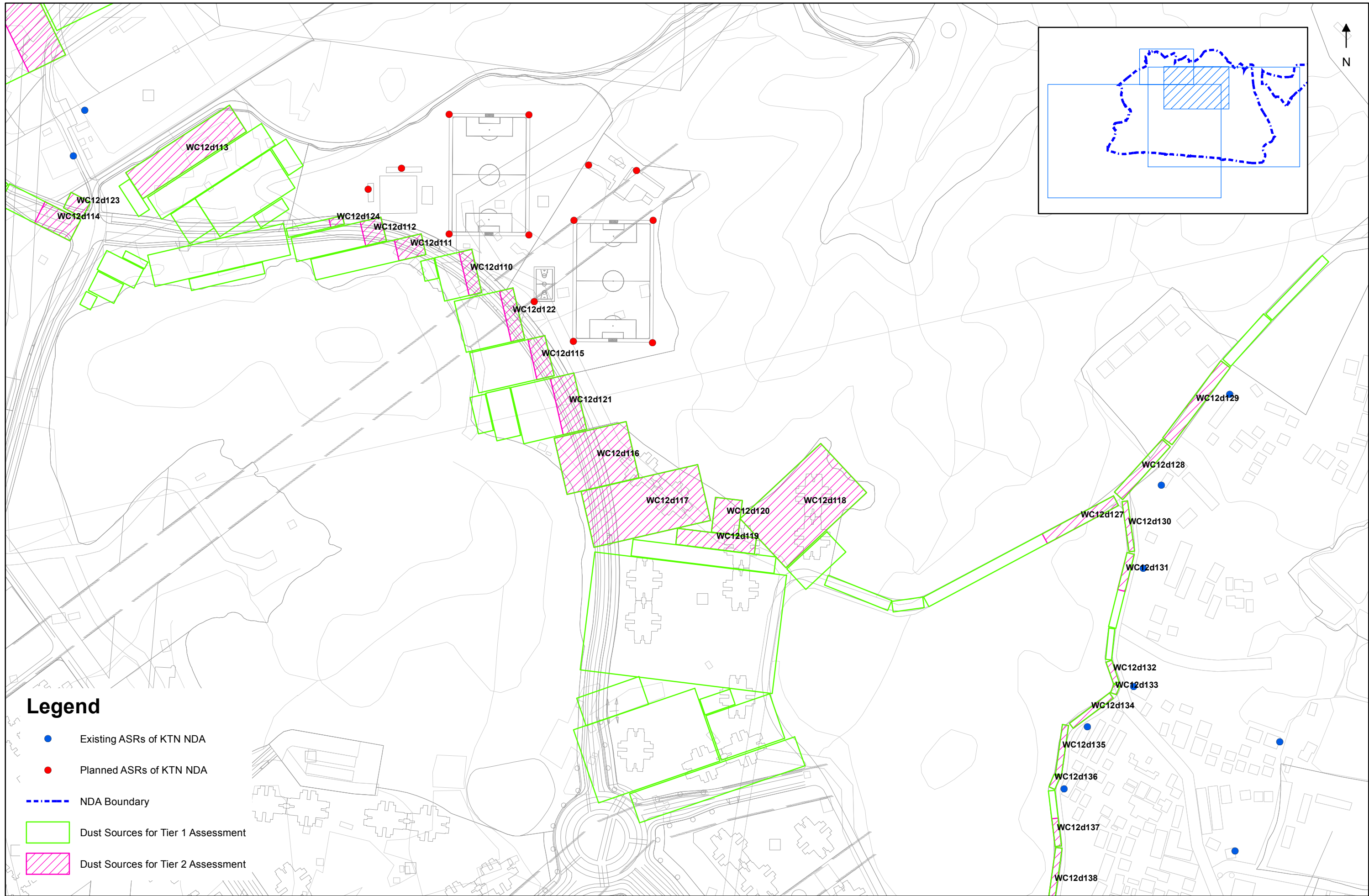
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- Existing ASRs of KTN NDA
- Planned ASRs of KTN NDA
- NDA Boundary
- Dust Sources for Tier 1 Assessment
- Dust Sources for Tier 2 Assessment

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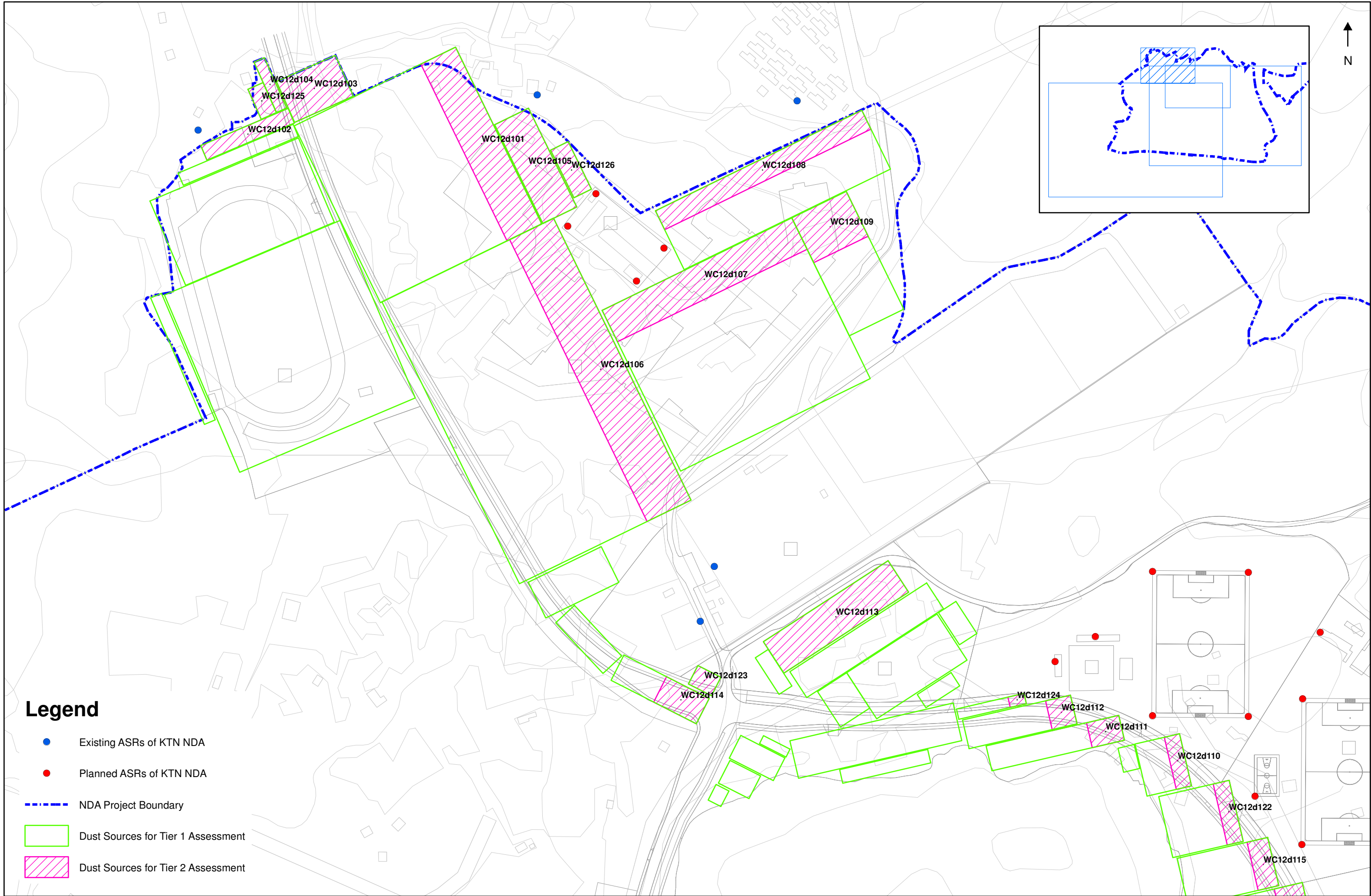
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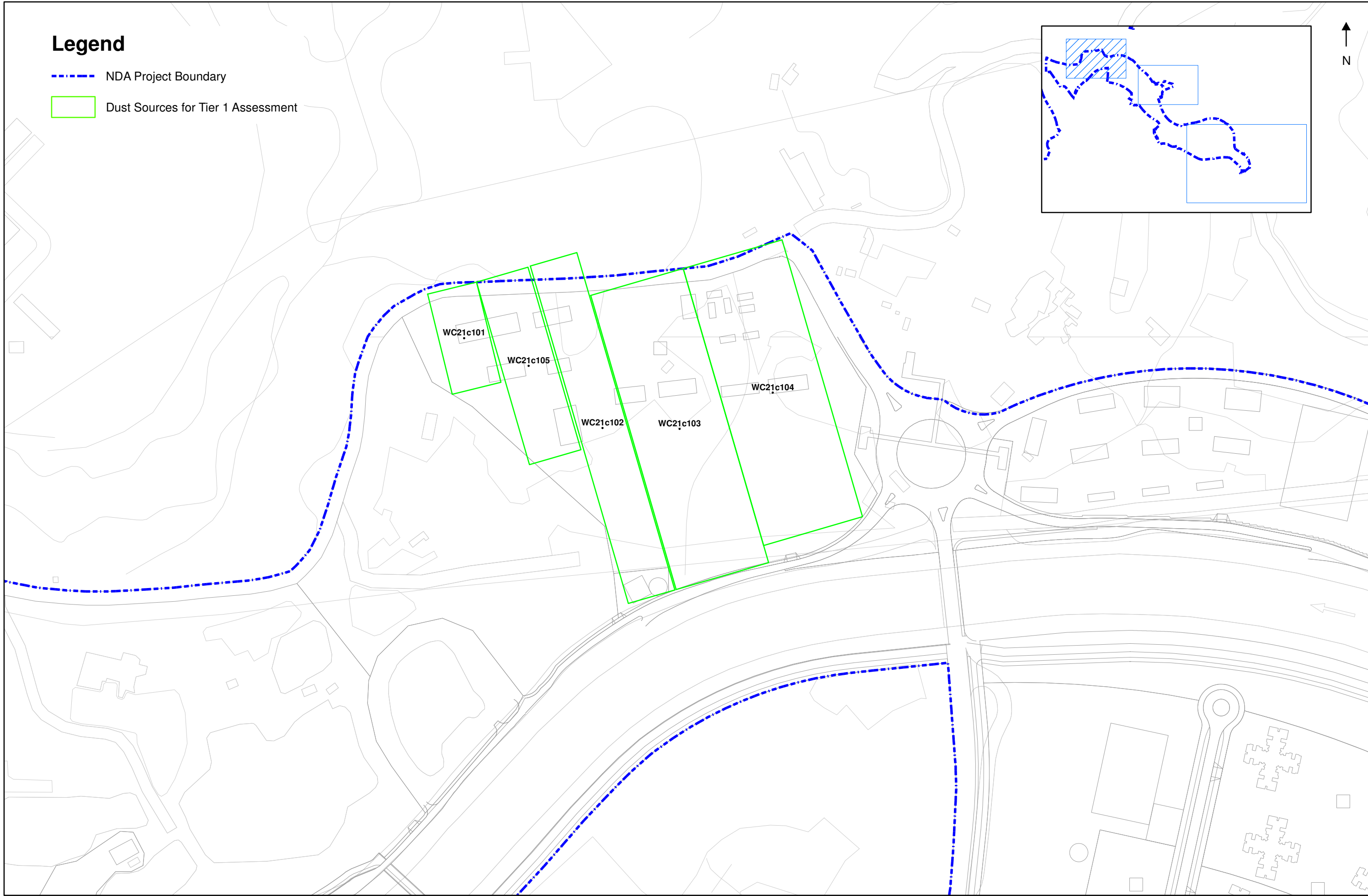
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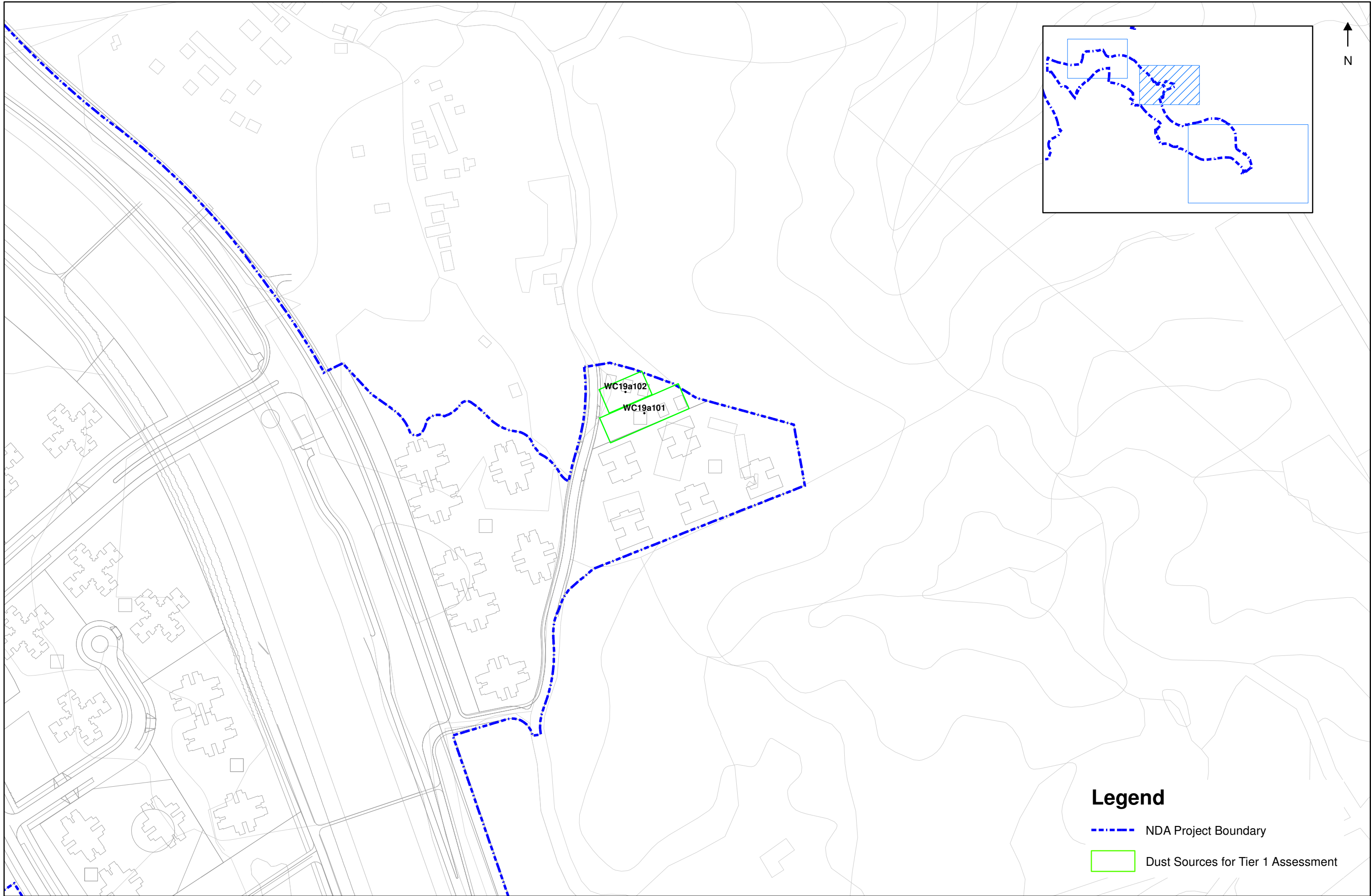
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- Dust Sources for Tier 1 Assessment



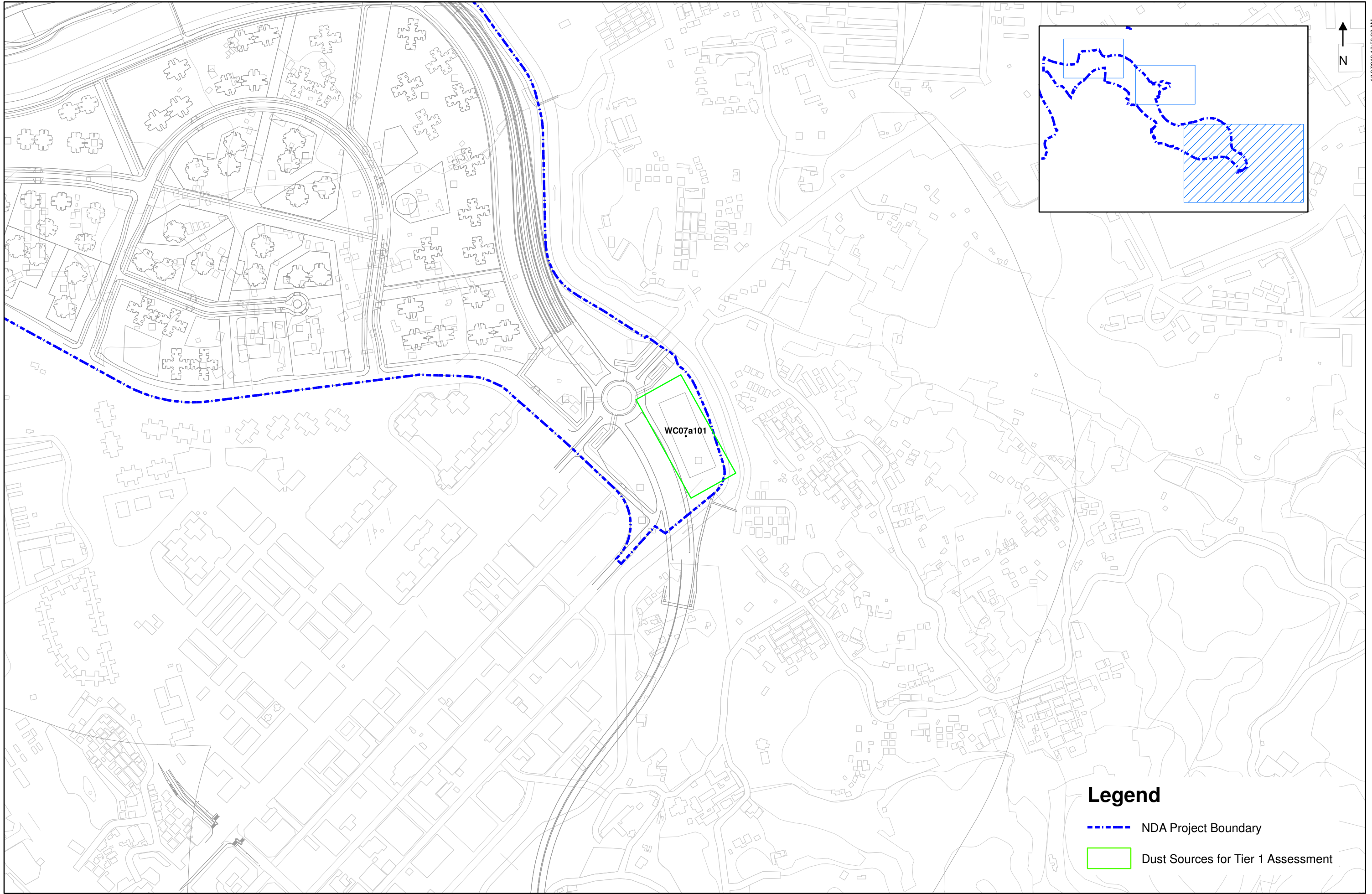
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Job Title
Agreement No. CE 61/007 (CE)
North East New Territories New Development Areas
Planning and Engineering Study – Investigation

Drawing Title
Location of Dust Emission Sources
for Tier 1 & Annual Assessment
for FLN NDA in Year 2018
(Sheet 2 of 3)




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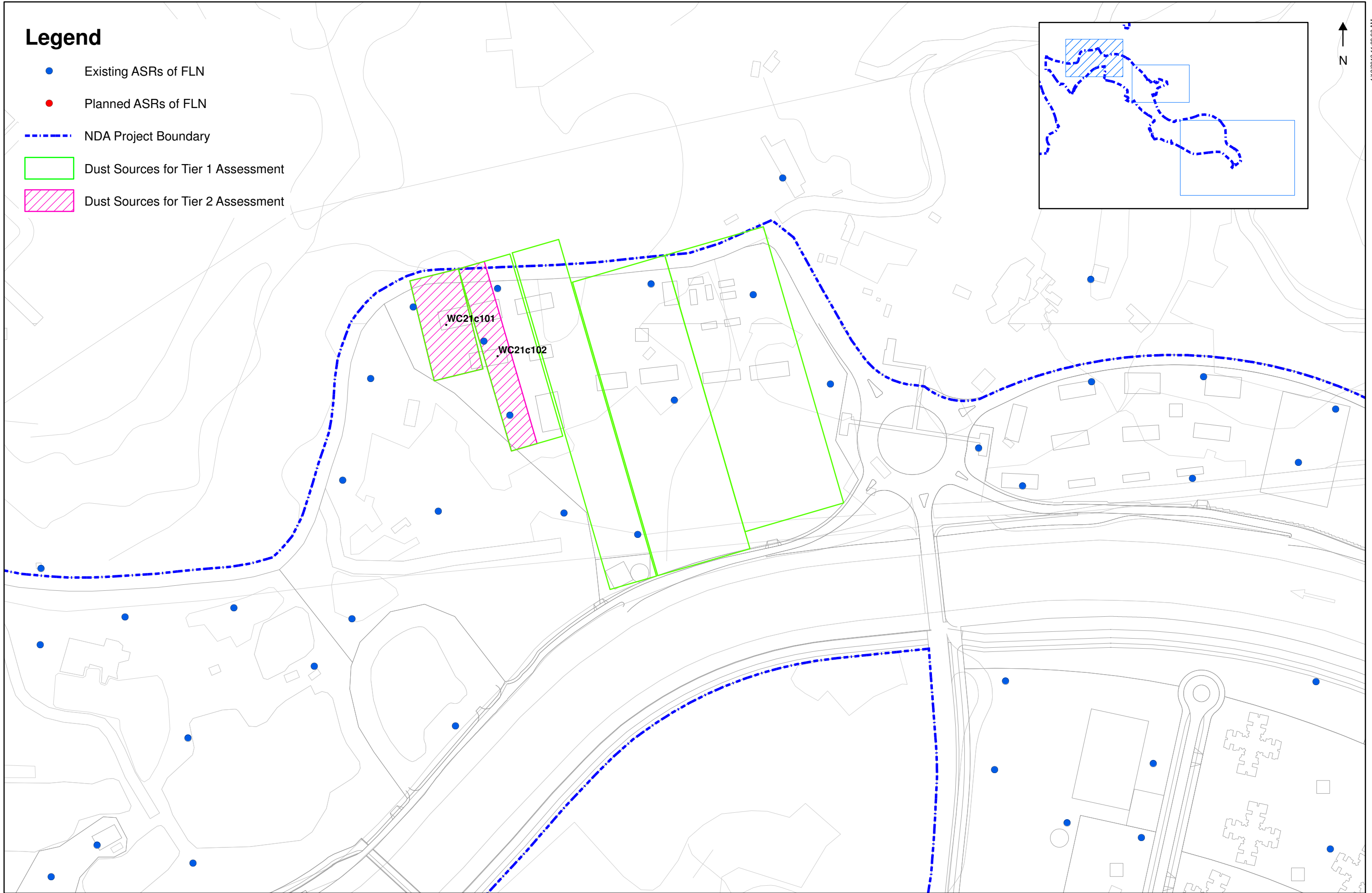
- NDA Project Boundary
- Dust Sources for Tier 1 Assessment

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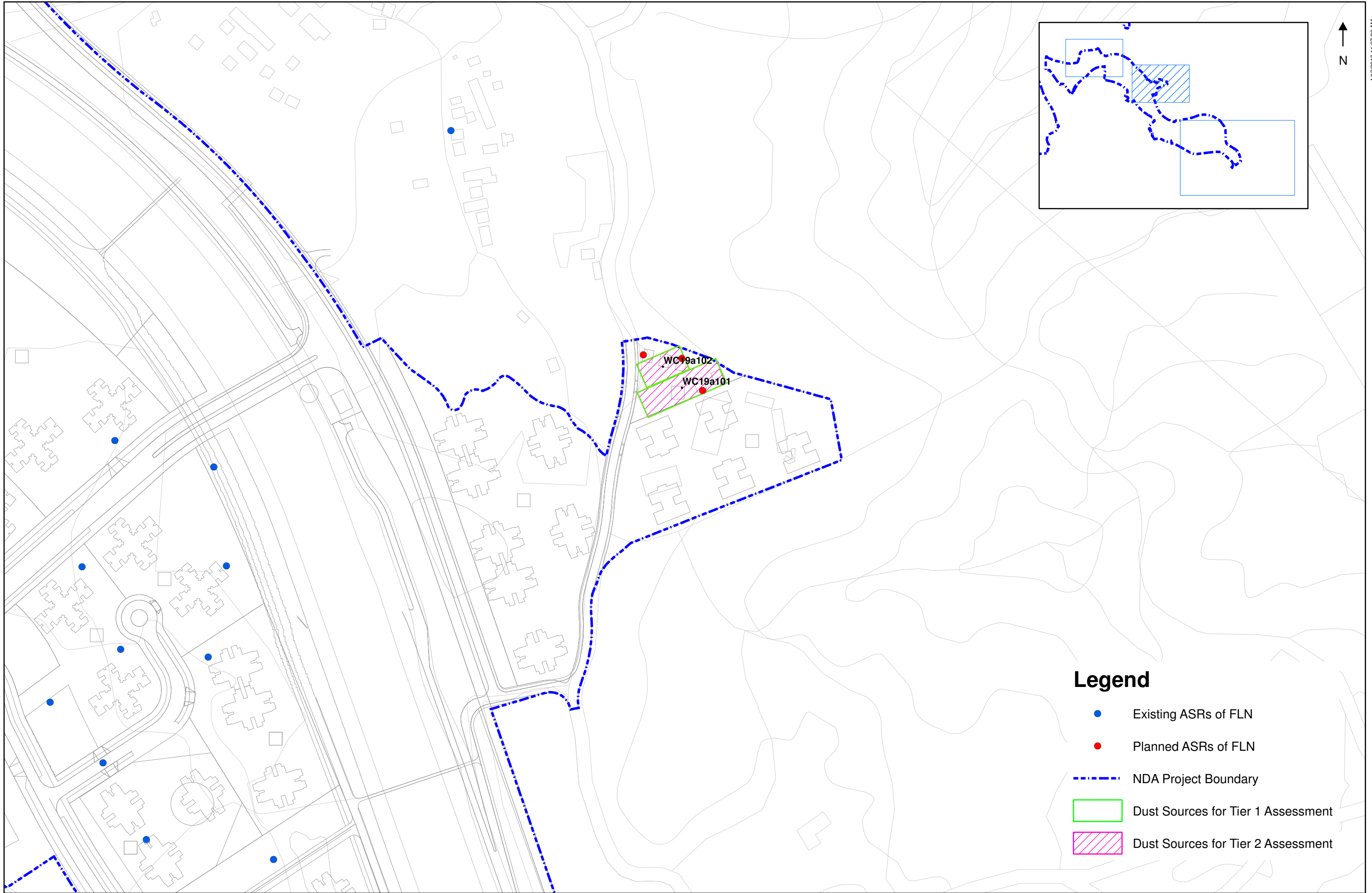
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Legend

- Existing ASRs of FLN
- Planned ASRs of FLN
- NDA Project Boundary
- Dust Sources for Tier 1 Assessment
- Dust Sources for Tier 2 Assessment






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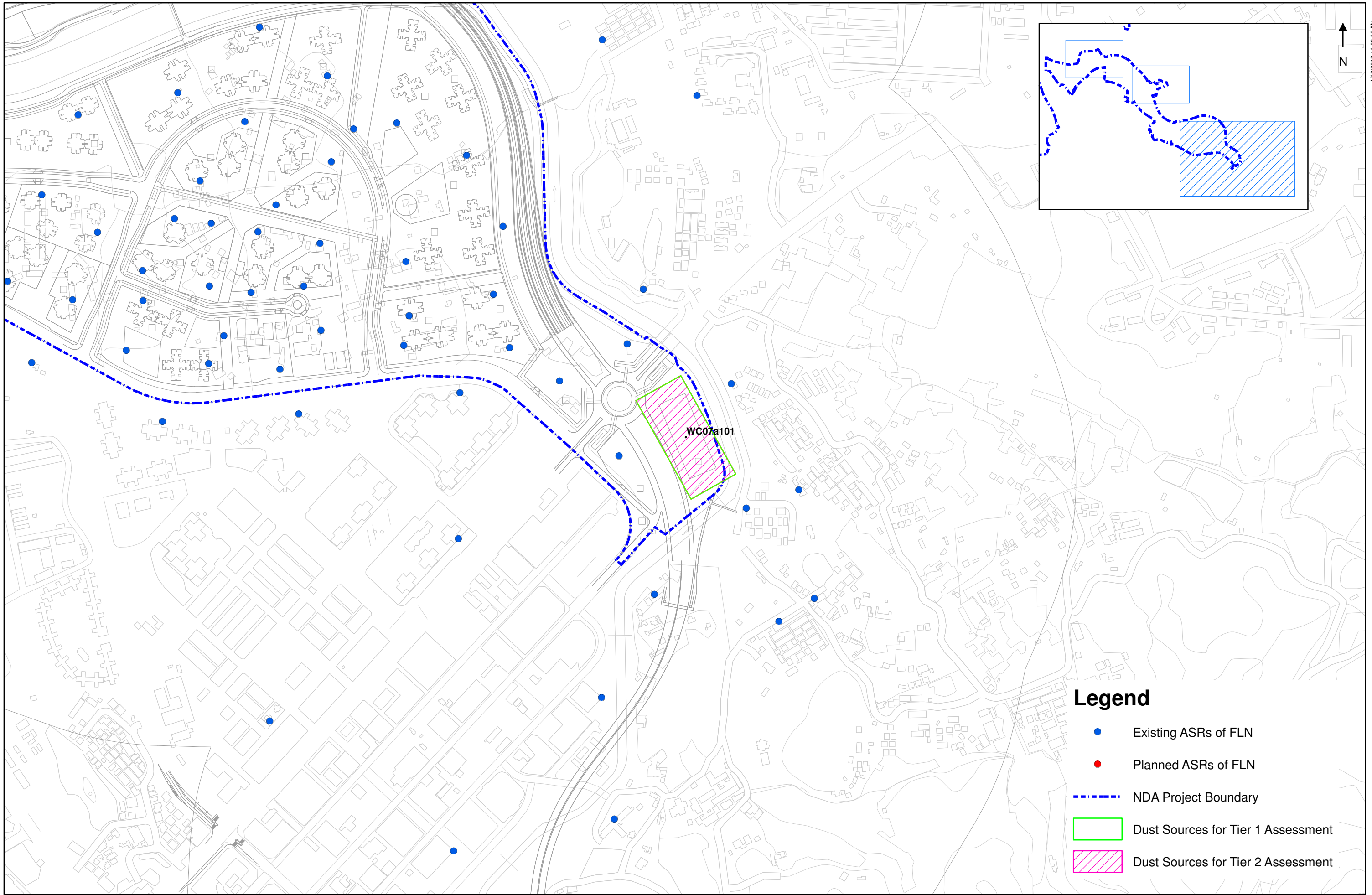


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- Existing ASRs of FLN
- Planned ASRs of FLN
- NDA Project Boundary
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- Dust Sources for Tier 2 Assessment

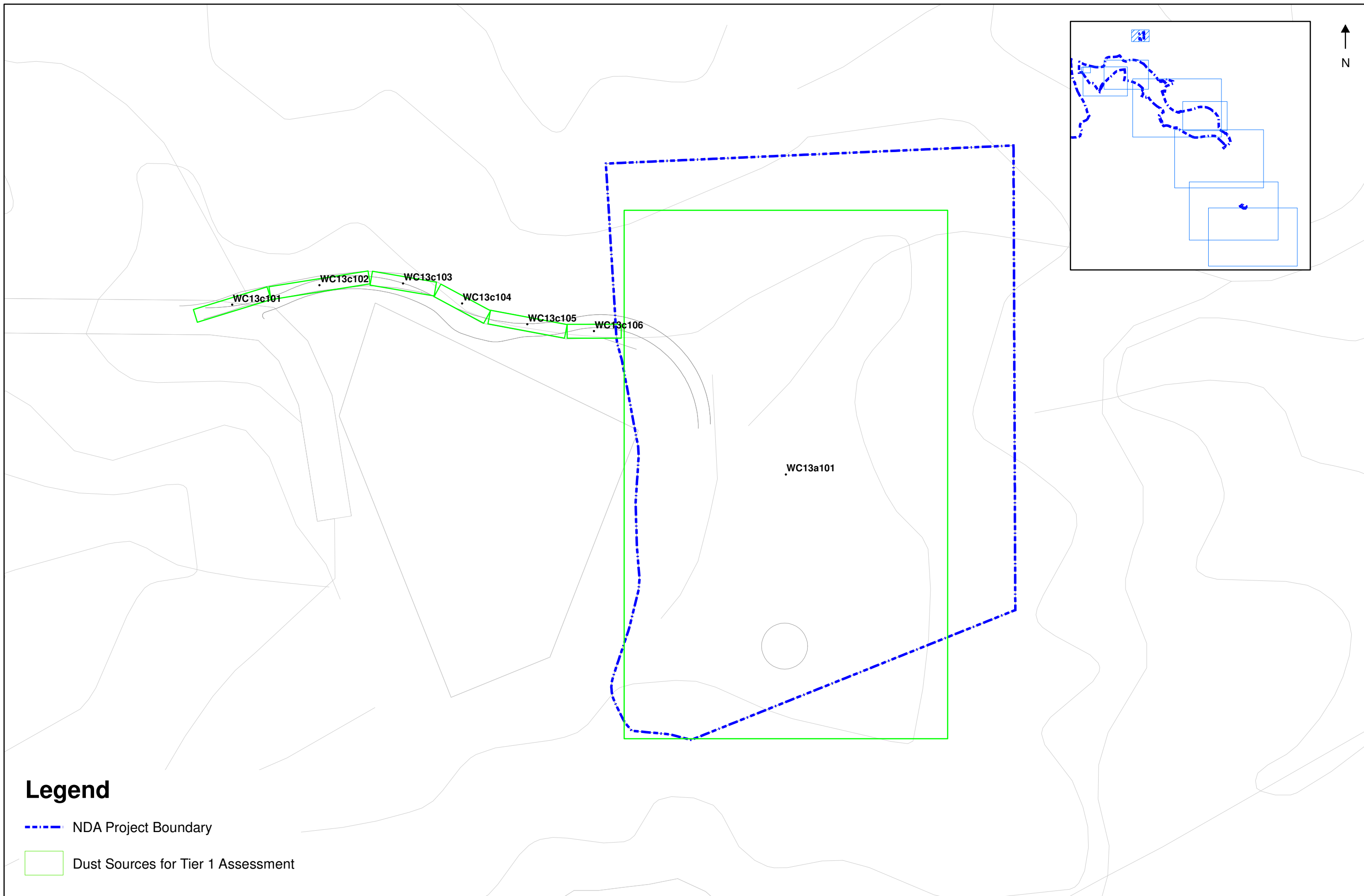
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Legend

- - - - - NDA Project Boundary
- Dust Sources for Tier 1 Assessment

 <div>土木工程拓展署 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT</div>	 <div>規劃署 PLANNING DEPARTMENT</div>		Job Title Agreement No. CE 61/007 (CE) North East New Territories New Development Areas Planning and Engineering Study – Investigation	Drawing Title Location of Dust Emission Sources for Tier 1 & Annual Assessment for FLN NDA in Year 2021 (Sheet 1 of 9)				Drawn	EC	Date	02/13	Drawing No Appendix 3.3-FLN-T1-2021-a
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-  NDA Boundary
-  Dust Sources for Tier 1 Assessment

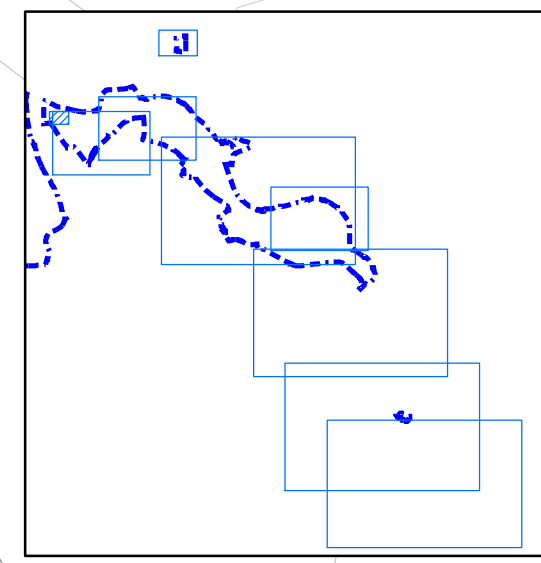


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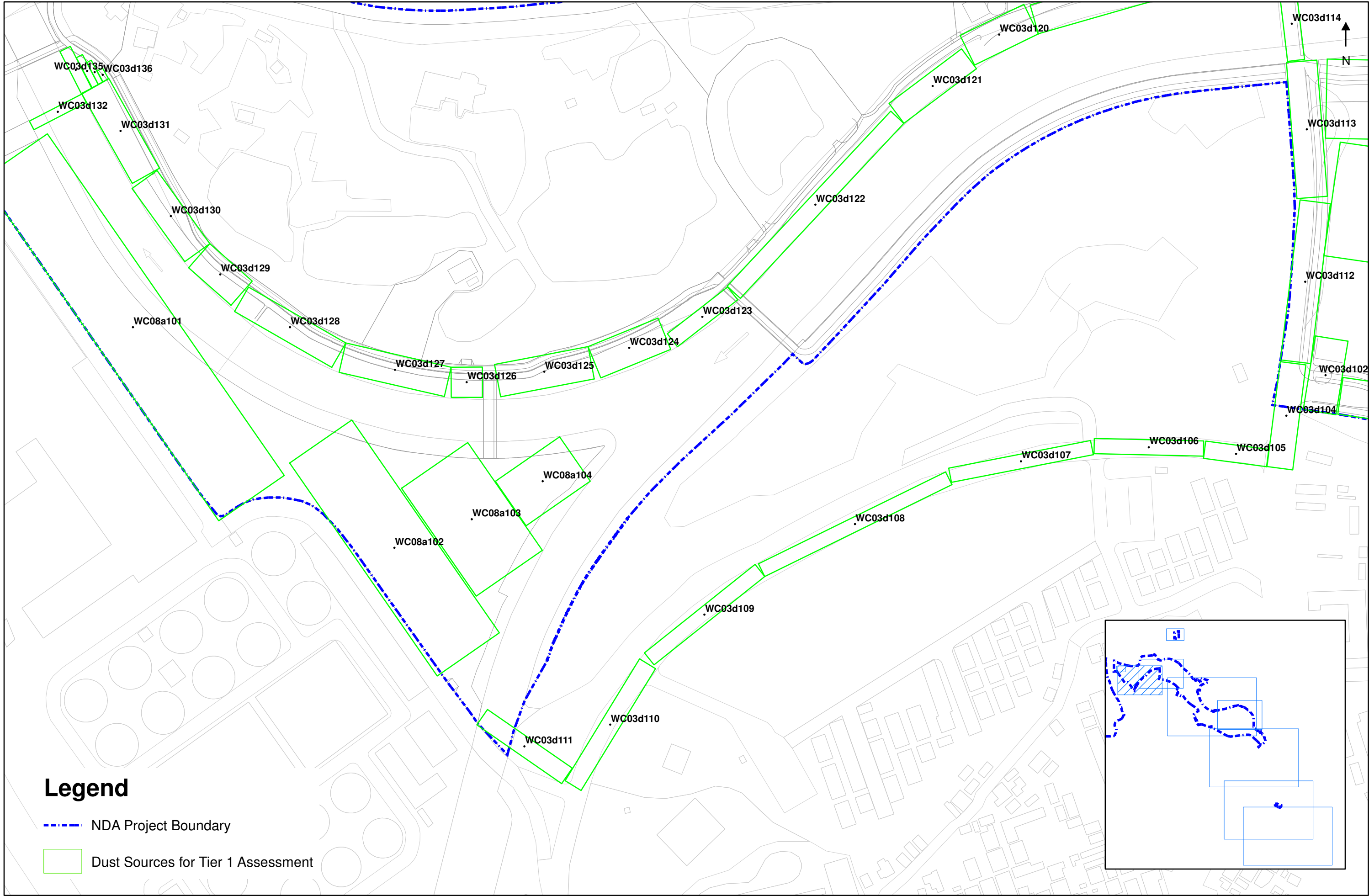
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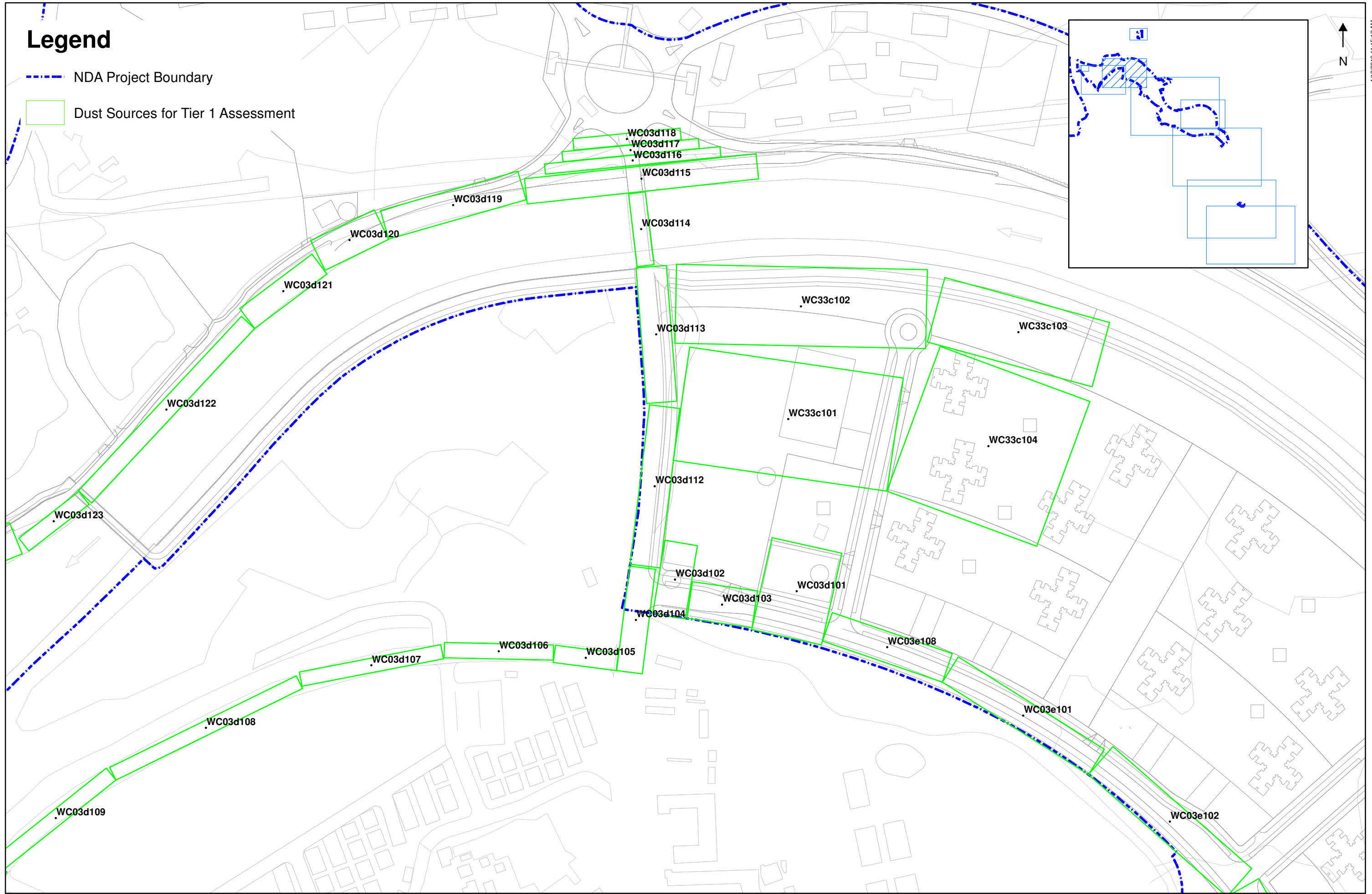
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- Dust Sources for Tier 1 Assessment

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- NDA Project Boundary
- Dust Sources for Tier 1 Assessment



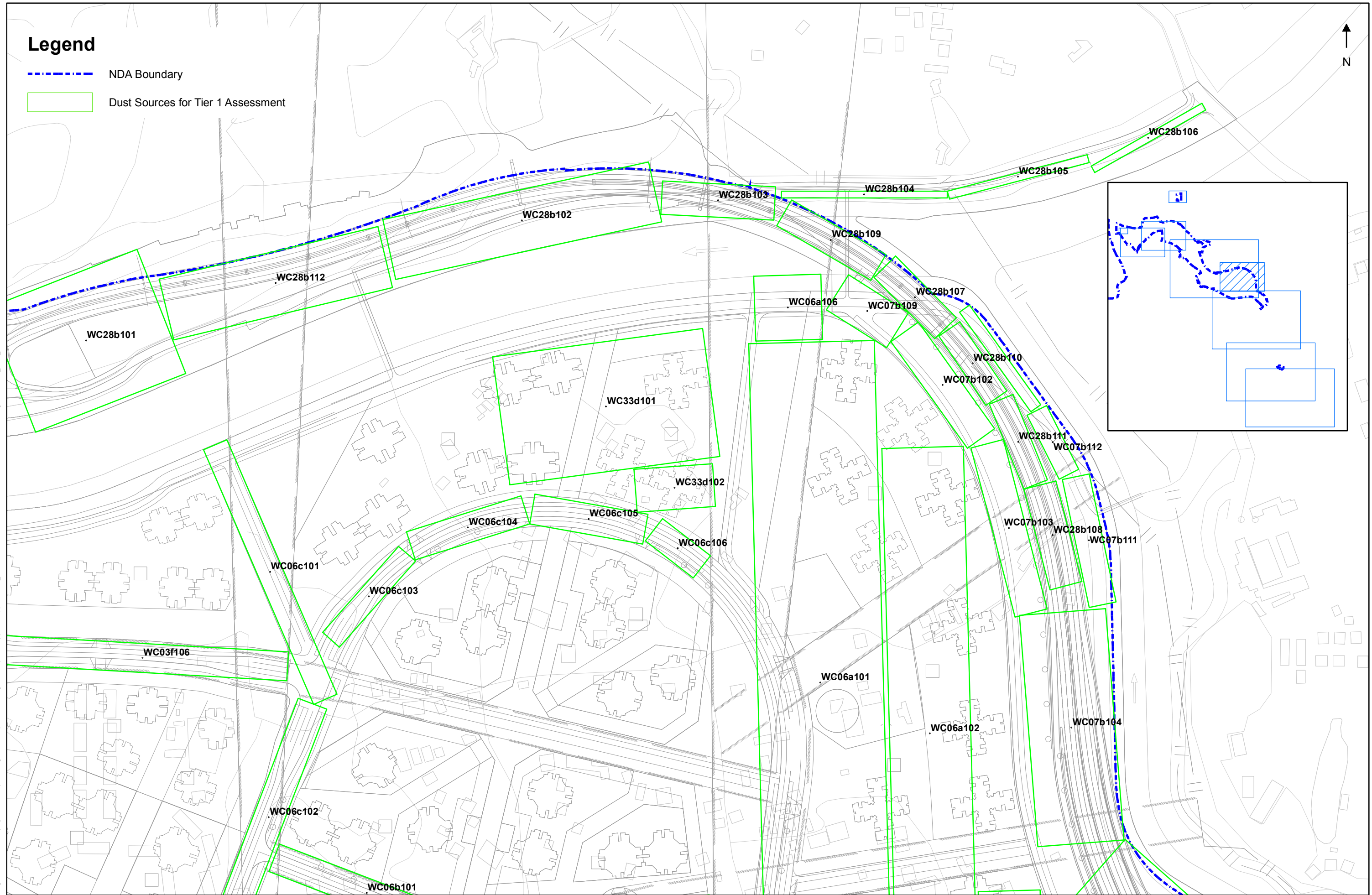
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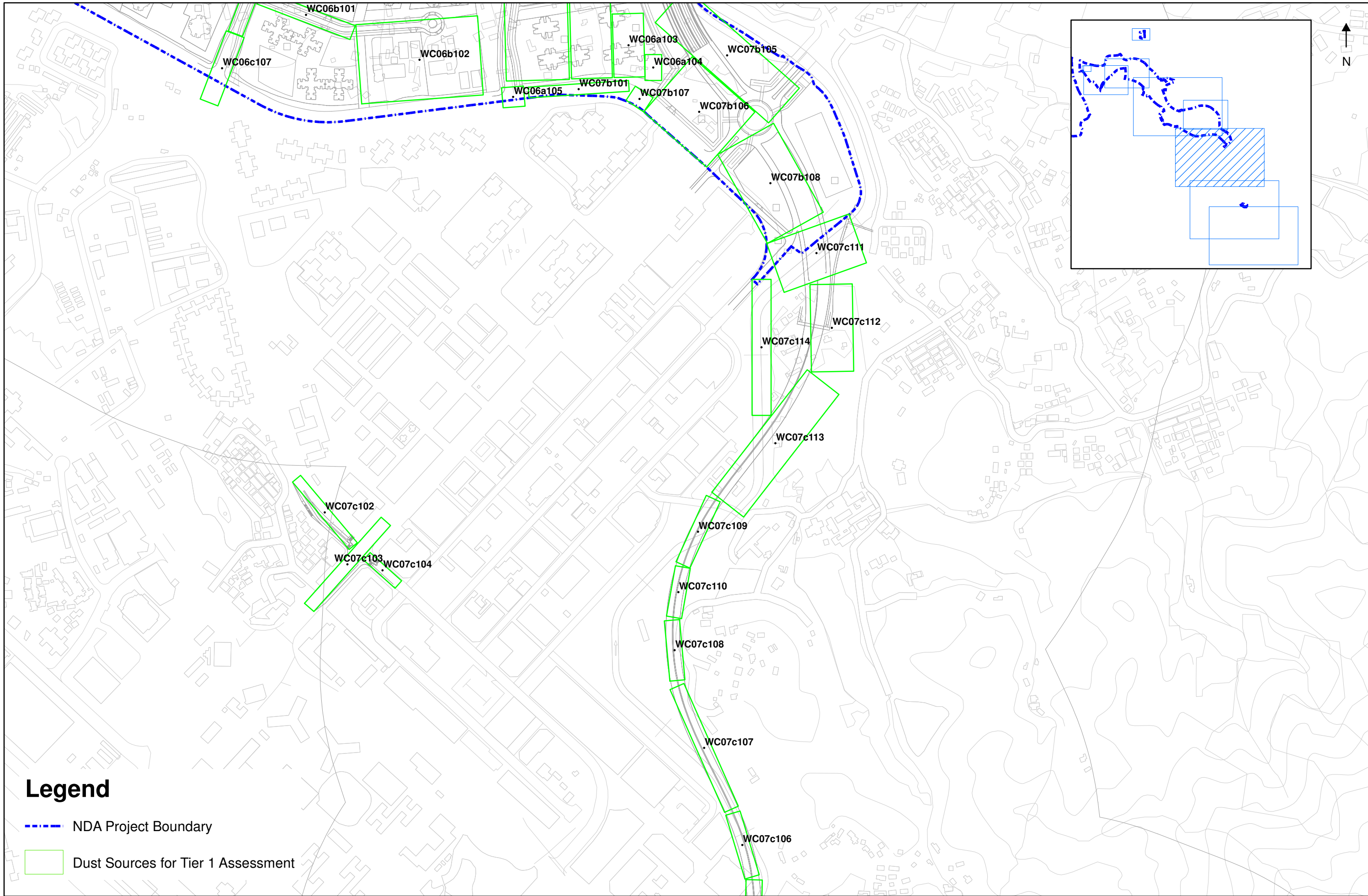
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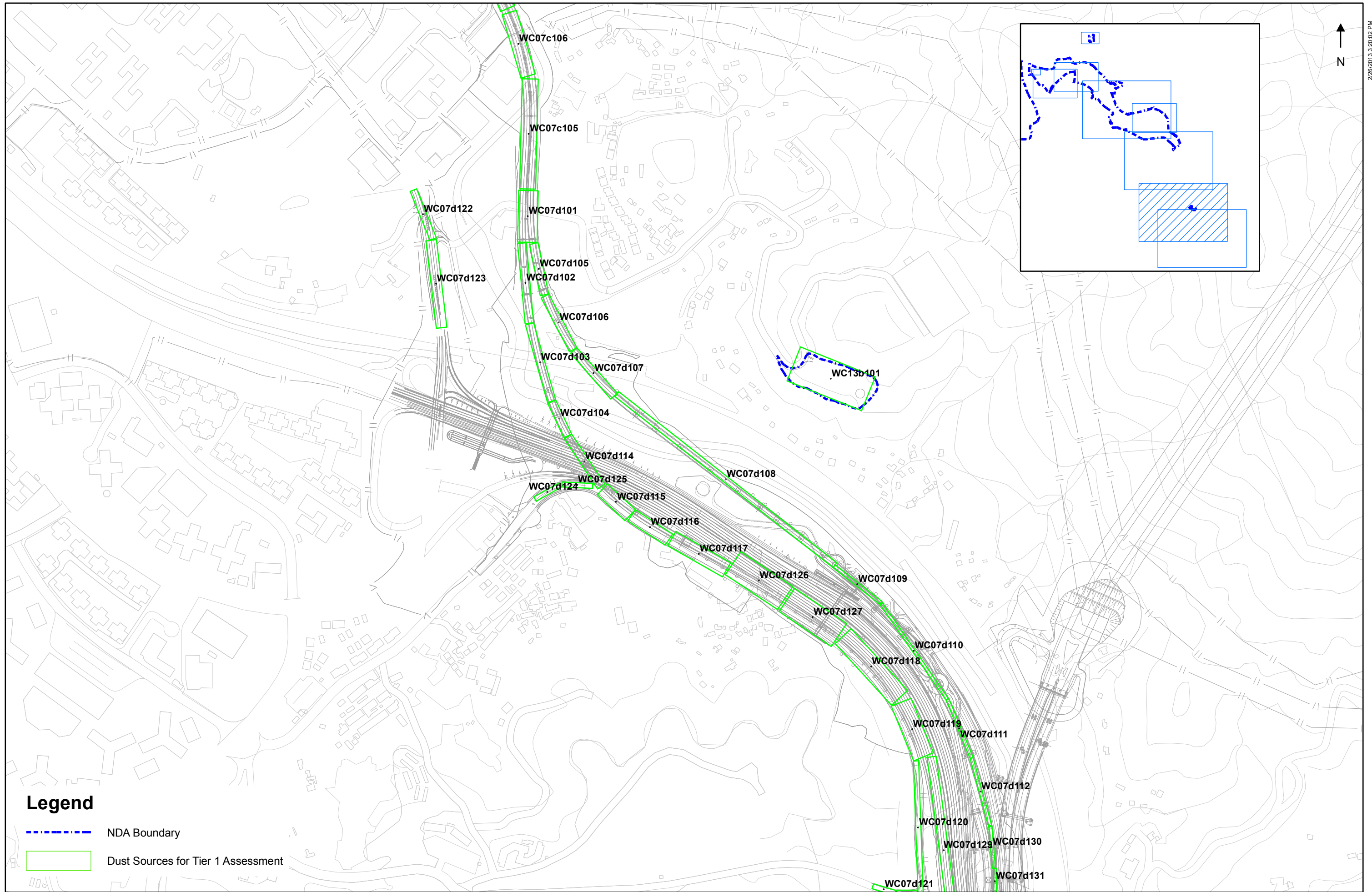
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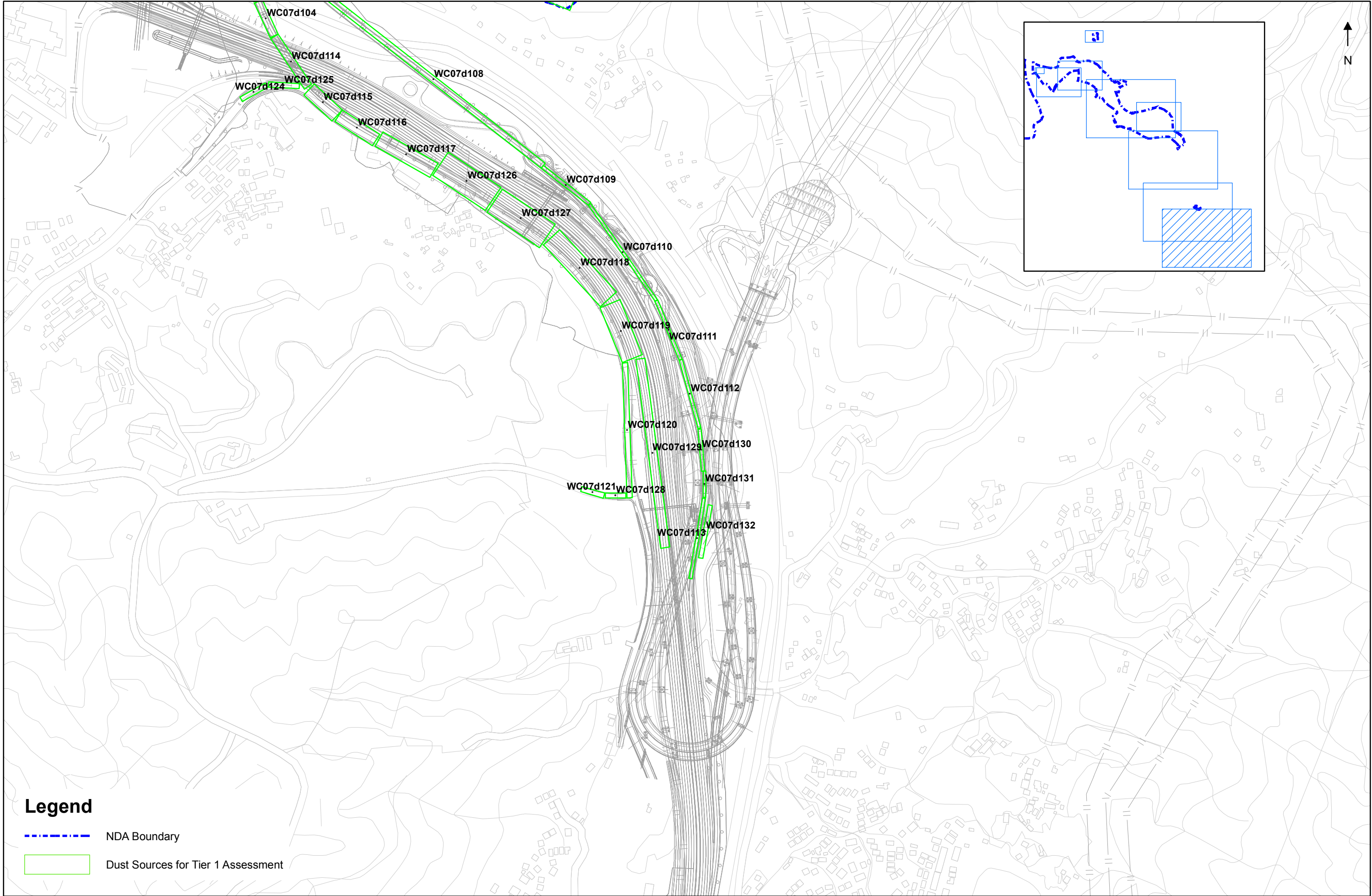
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- NDA Boundary
- Dust Sources for Tier 1 Assessment

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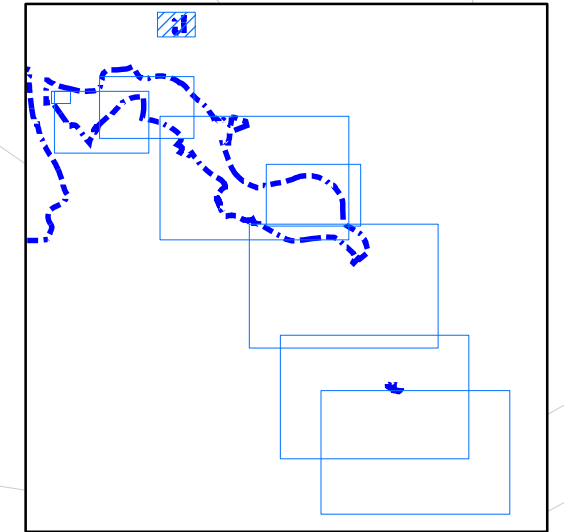
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- Dust Sources for Tier 1 Assessment

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Legend

- Existing ASRs of FLN
- Planned ASRs of FLN
- - - - - NDA Project Boundary
- Dust Sources for Tier 1 Assessment
- ▨ Dust Sources for Tier 2 Assessment



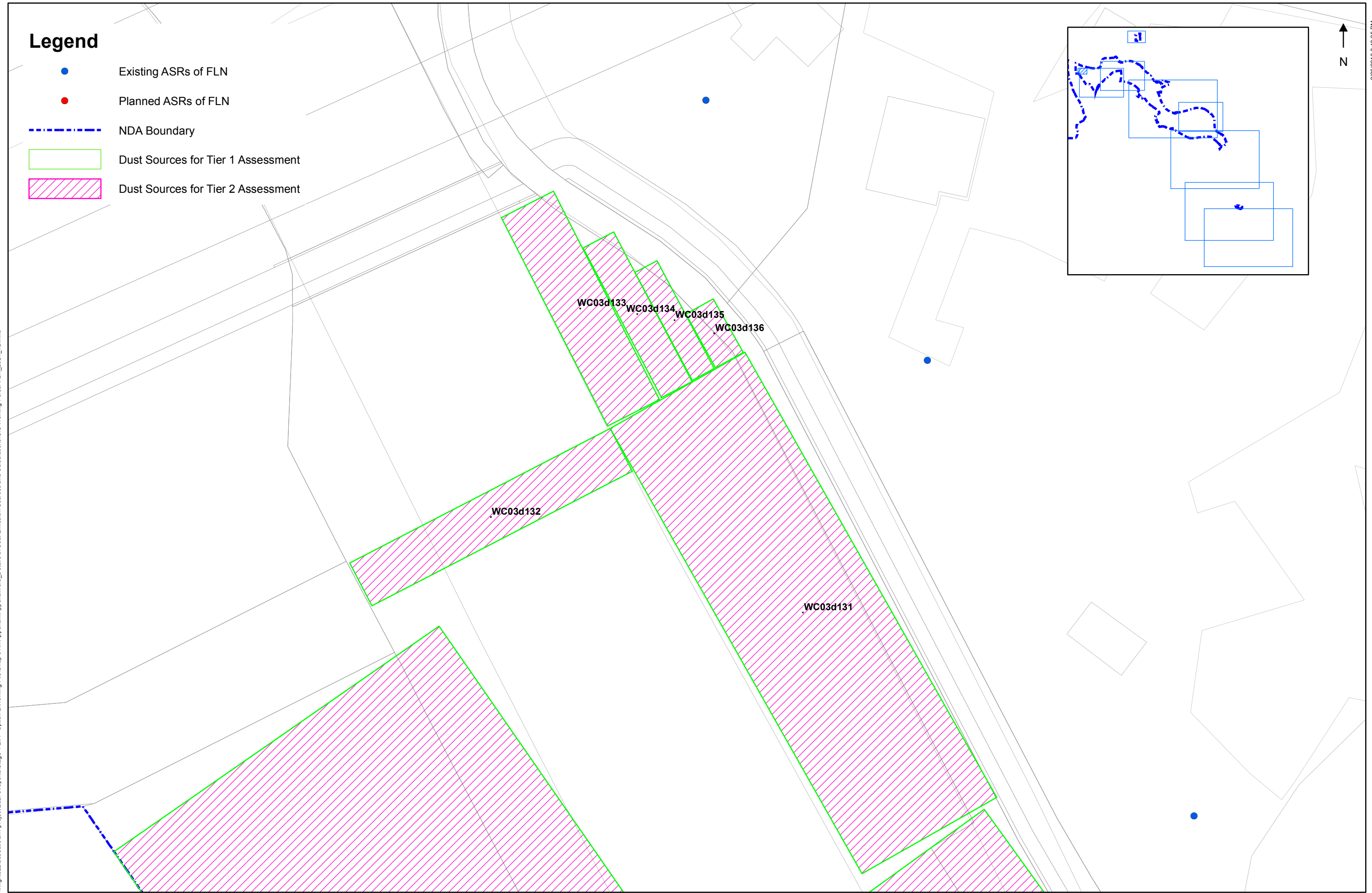
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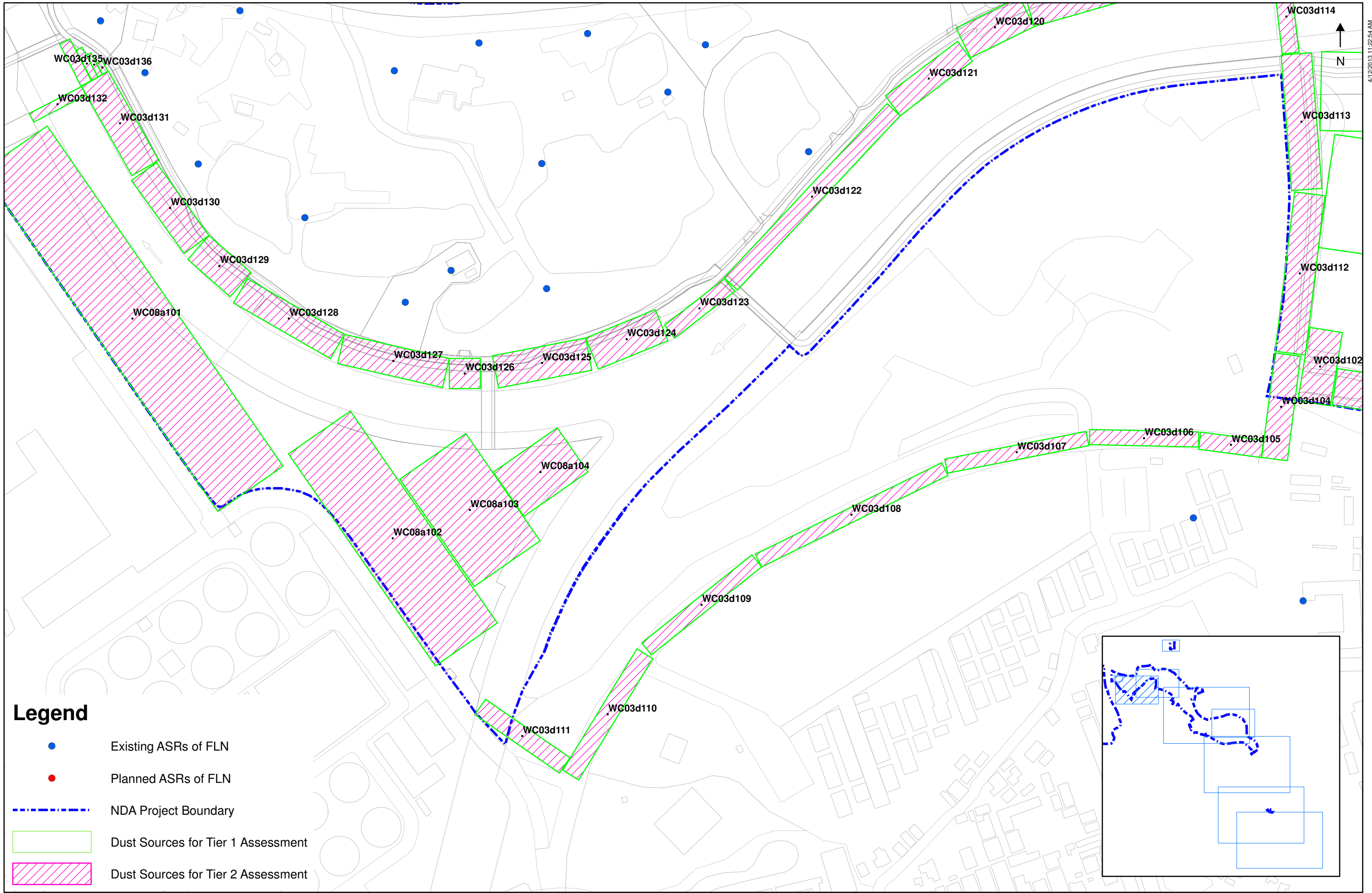
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- Existing ASRs of FLN
- Planned ASRs of FLN
- NDA Boundary
- Dust Sources for Tier 1 Assessment
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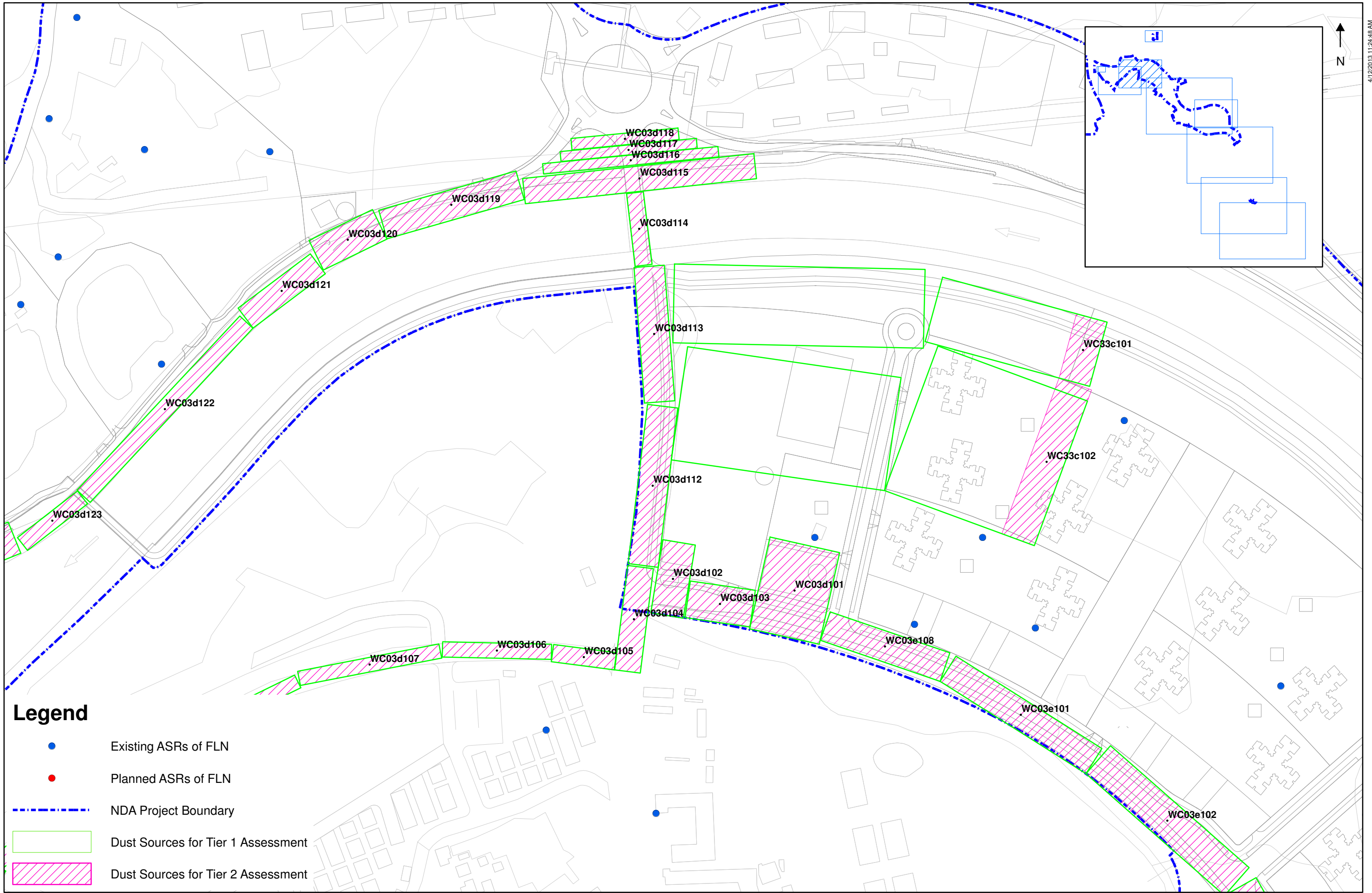
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- Existing ASRs of FLN
- Planned ASRs of FLN
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- Dust Sources for Tier 1 Assessment
- Dust Sources for Tier 2 Assessment

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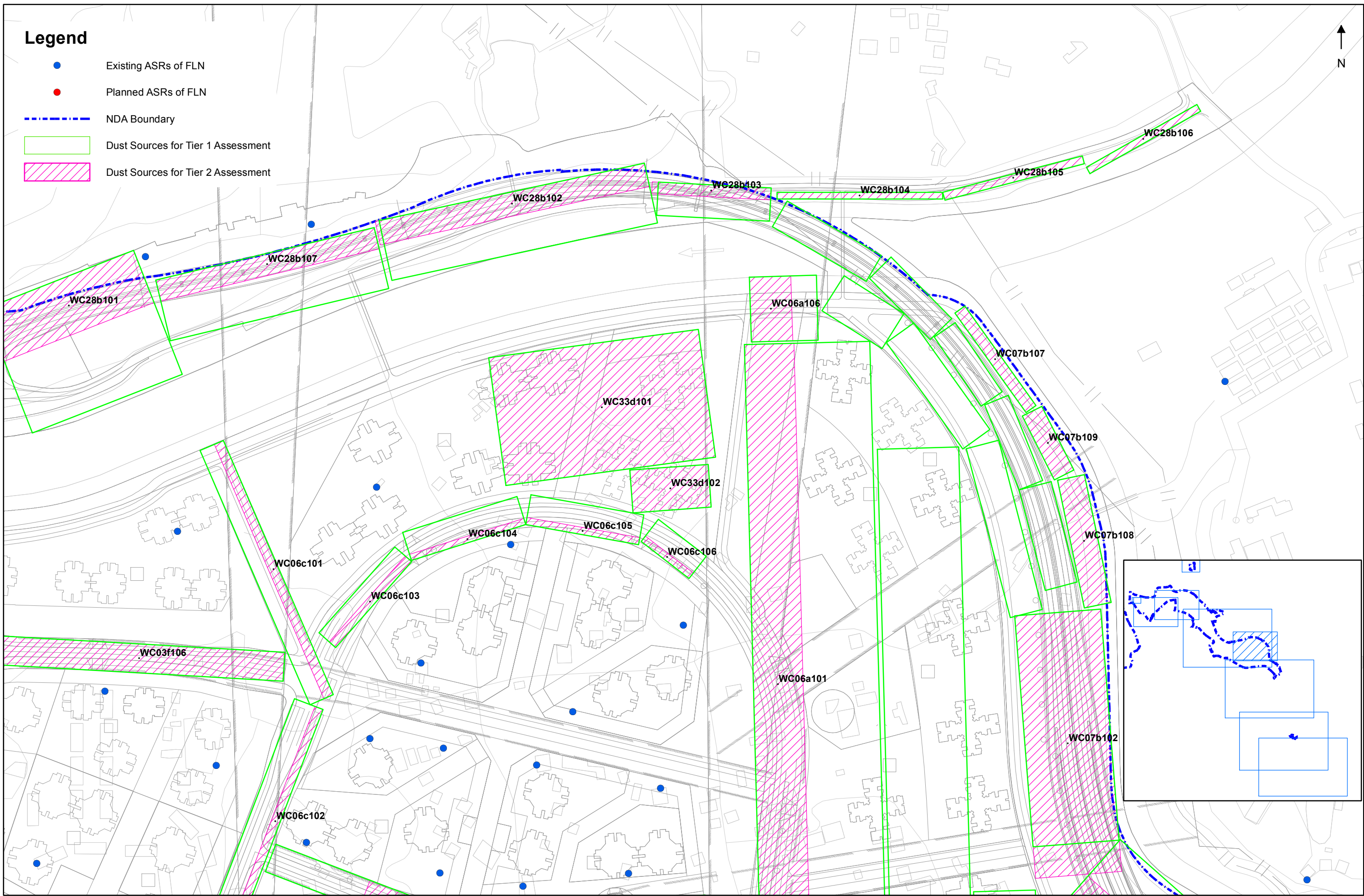


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- Dust Sources for Tier 1 Assessment
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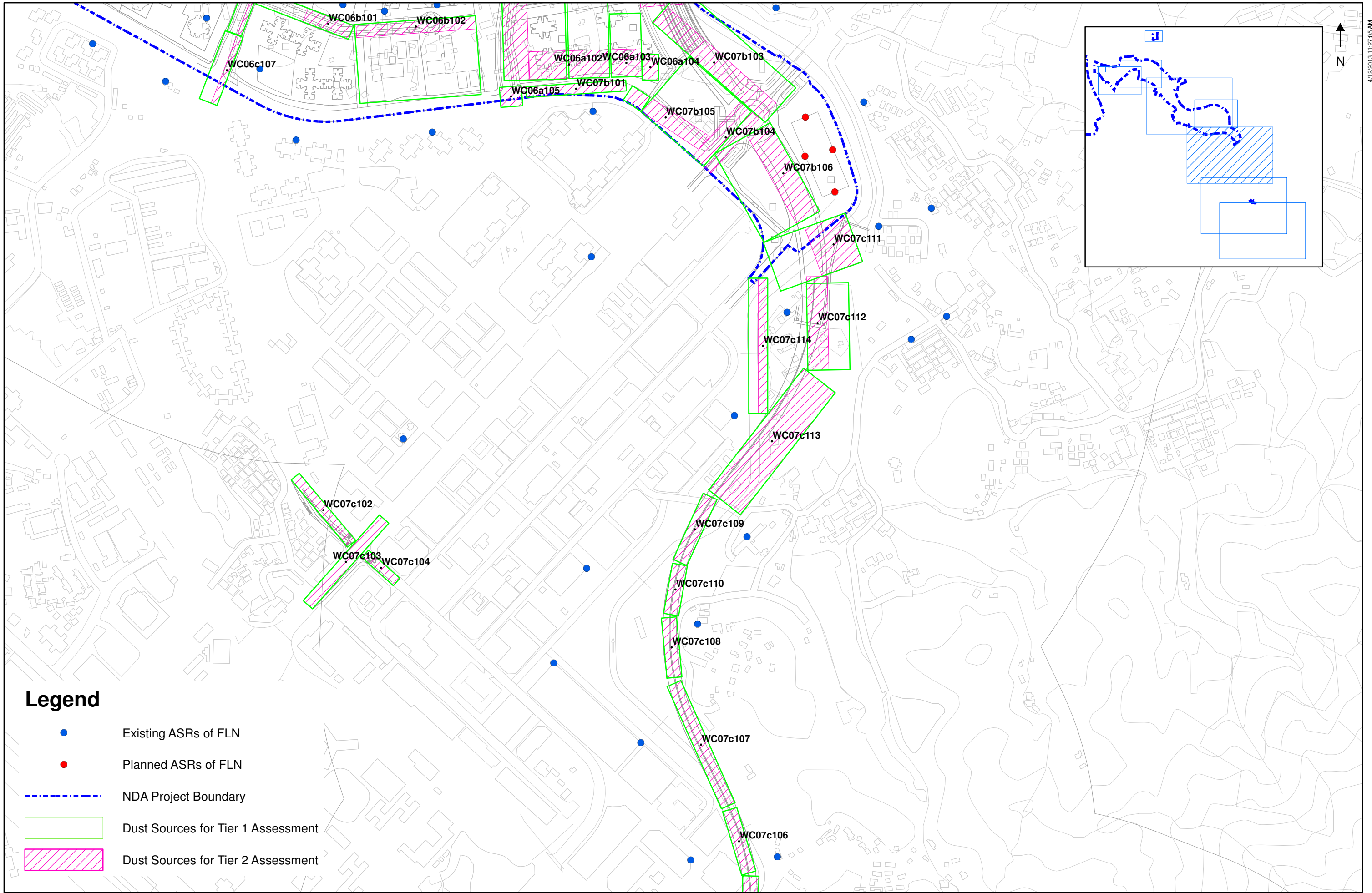
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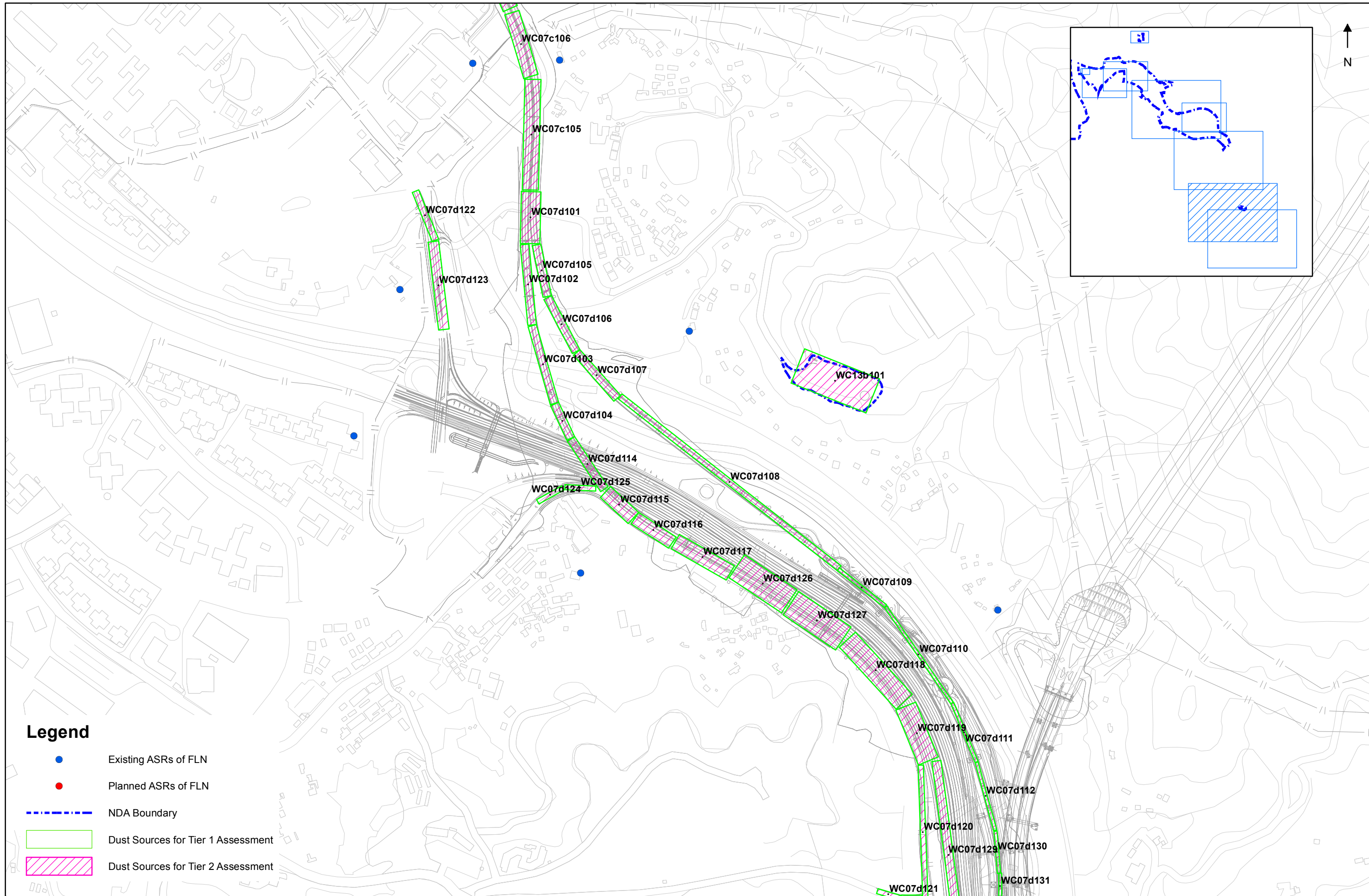
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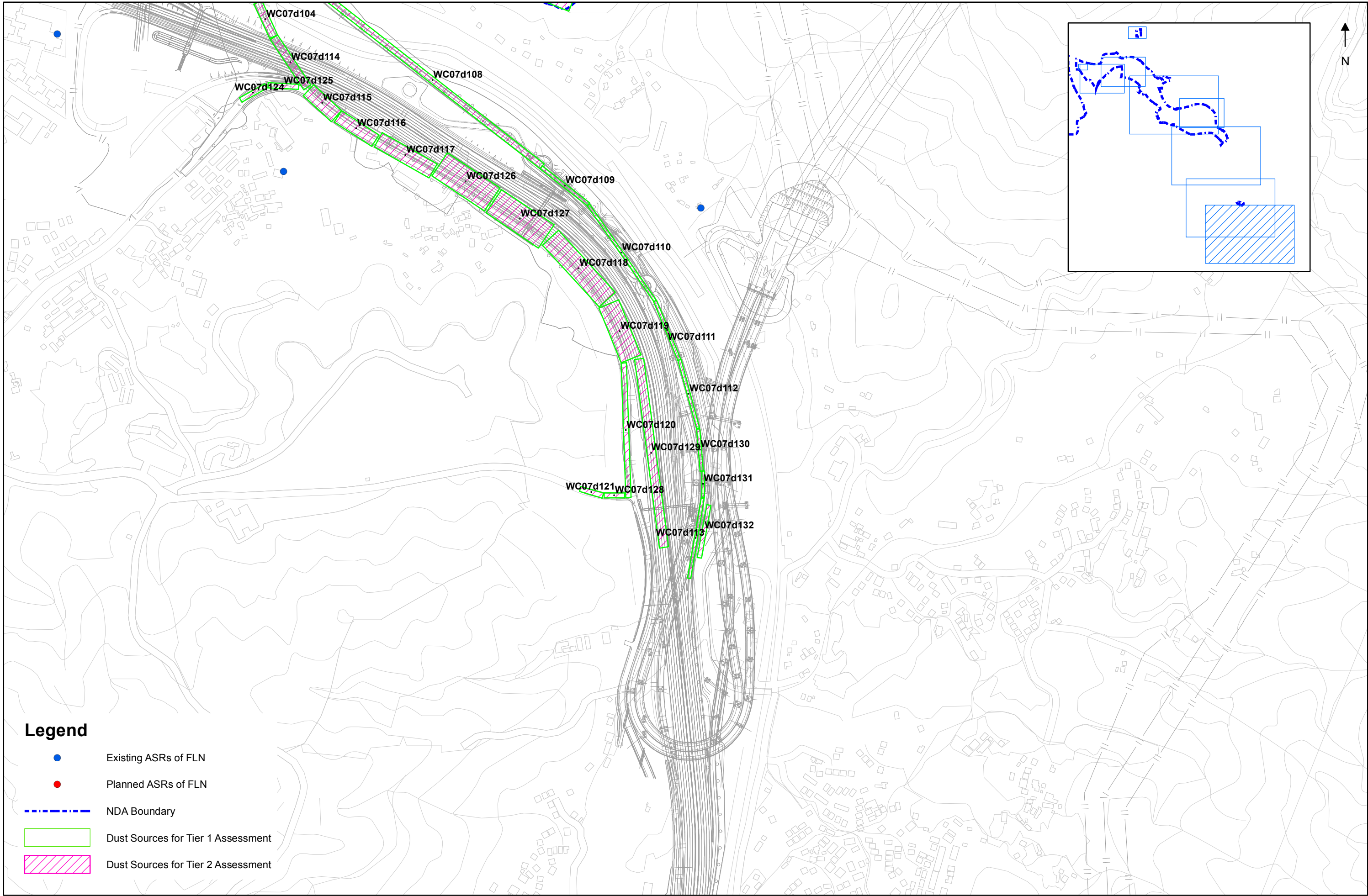
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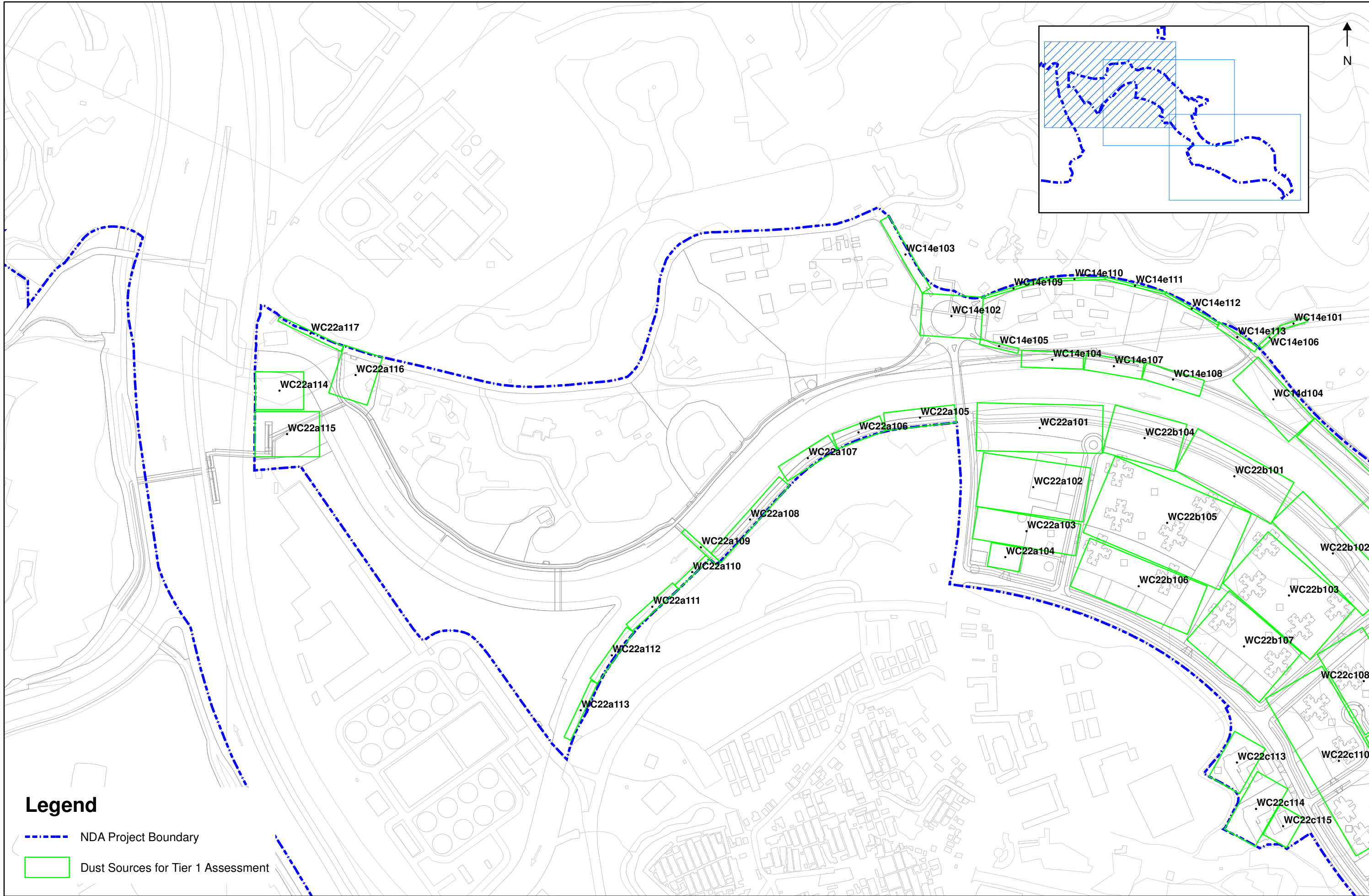
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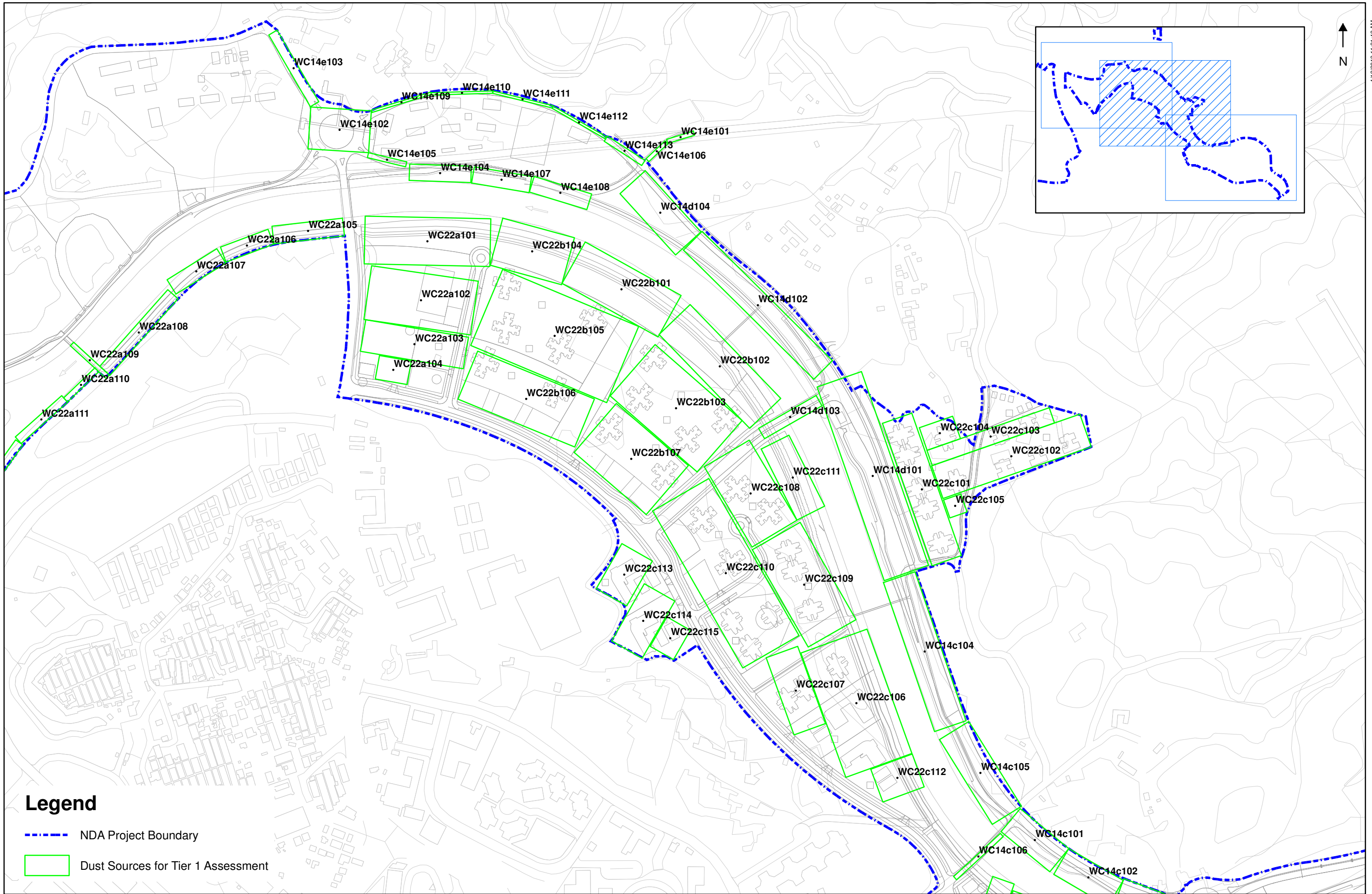
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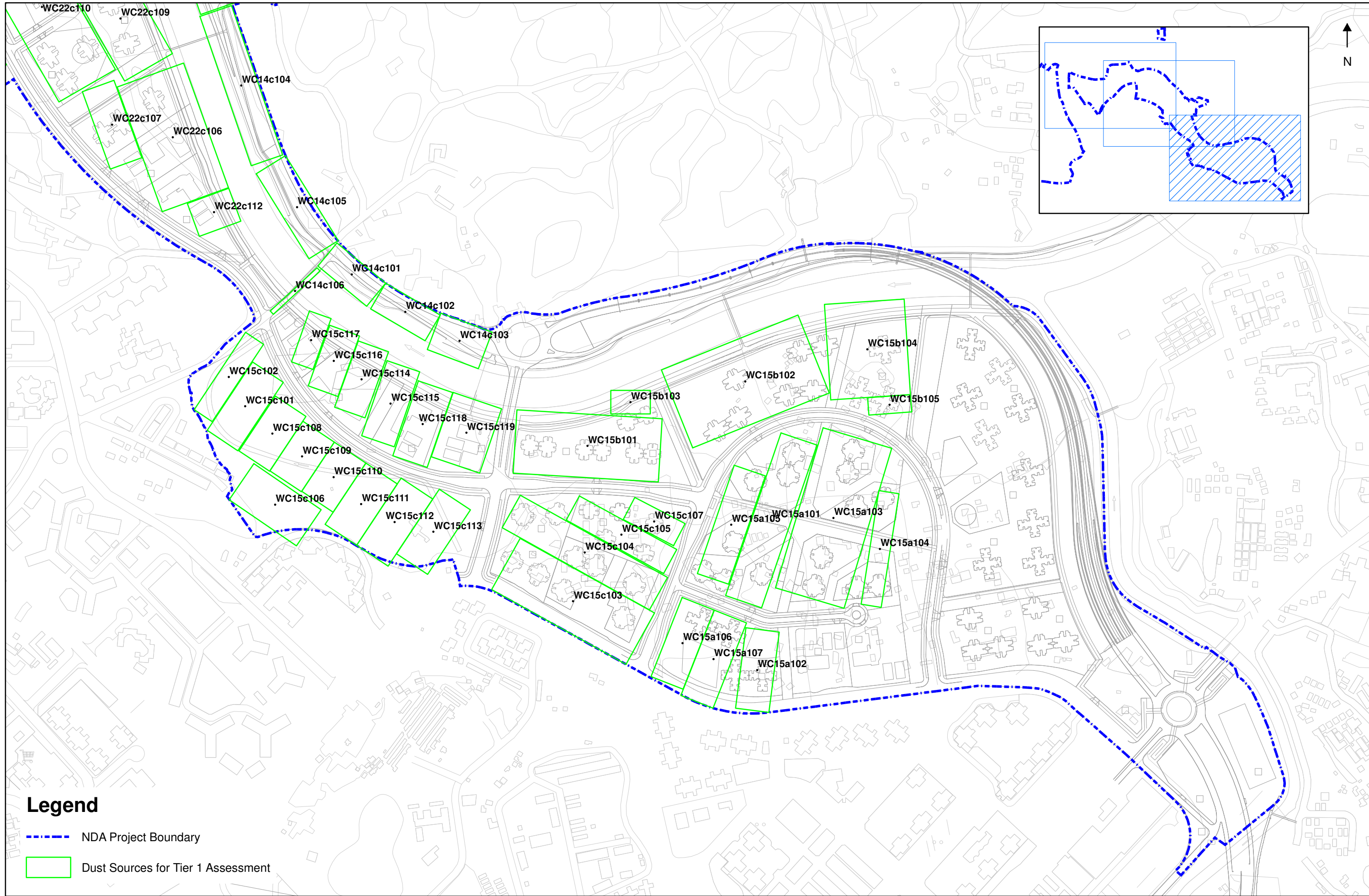
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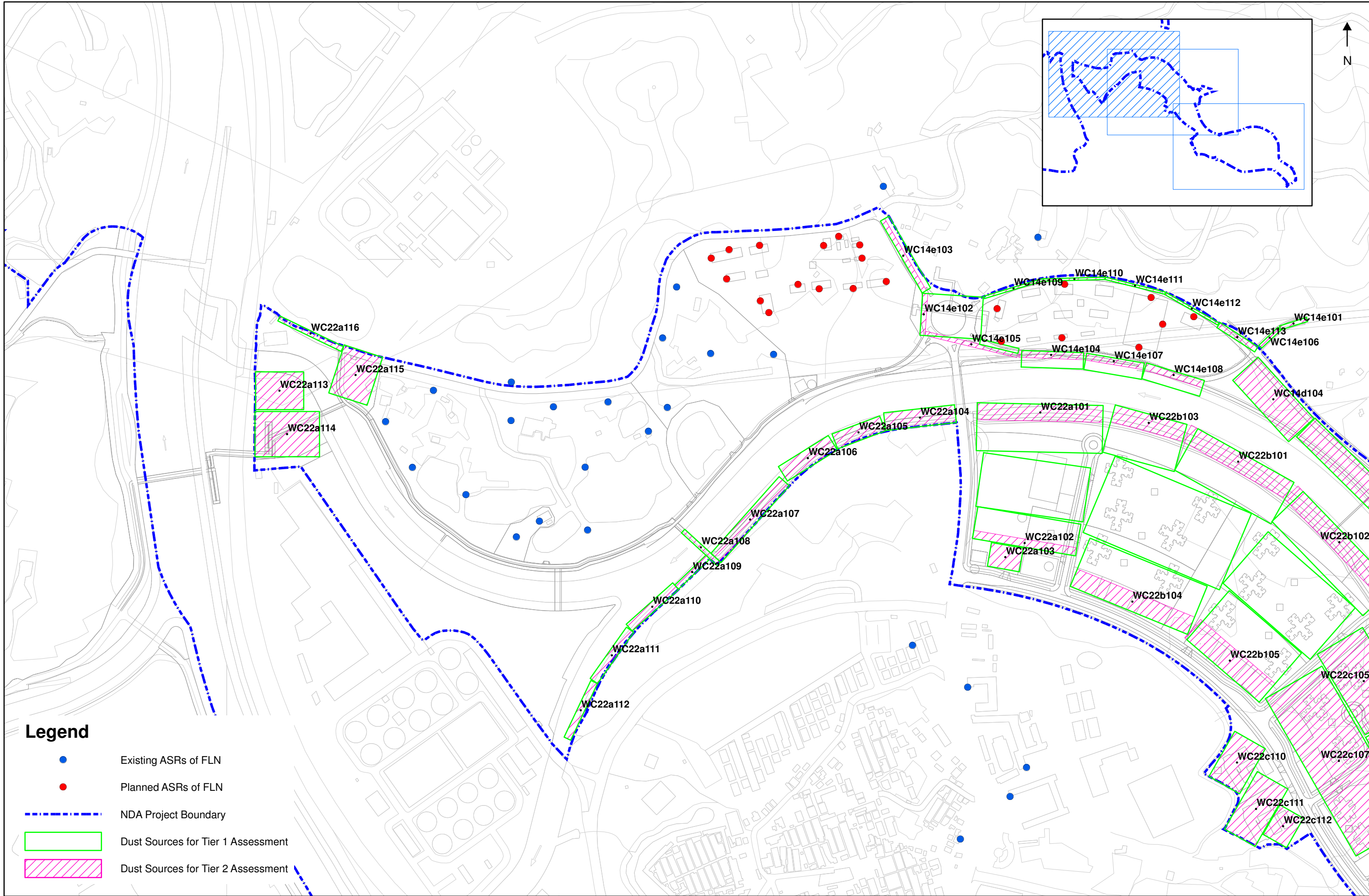


 <div>土木工程拓展署 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT</div>	 <div>規劃署 PLANNING DEPARTMENT</div>		Job Title Agreement No. CE 61/007 (CE) North East New Territories New Development Areas Planning and Engineering Study – Investigation	Drawing Title Location of Dust Emission Sources for Tier 1 & Annual Assessment for FLN NDA in Year 2025 (Sheet 2 of 3)			Drawn EC	Date 02/13	Drawing No Appendix 3.3-FLN-T1-2025-b
							Checked KL	Approved ST	
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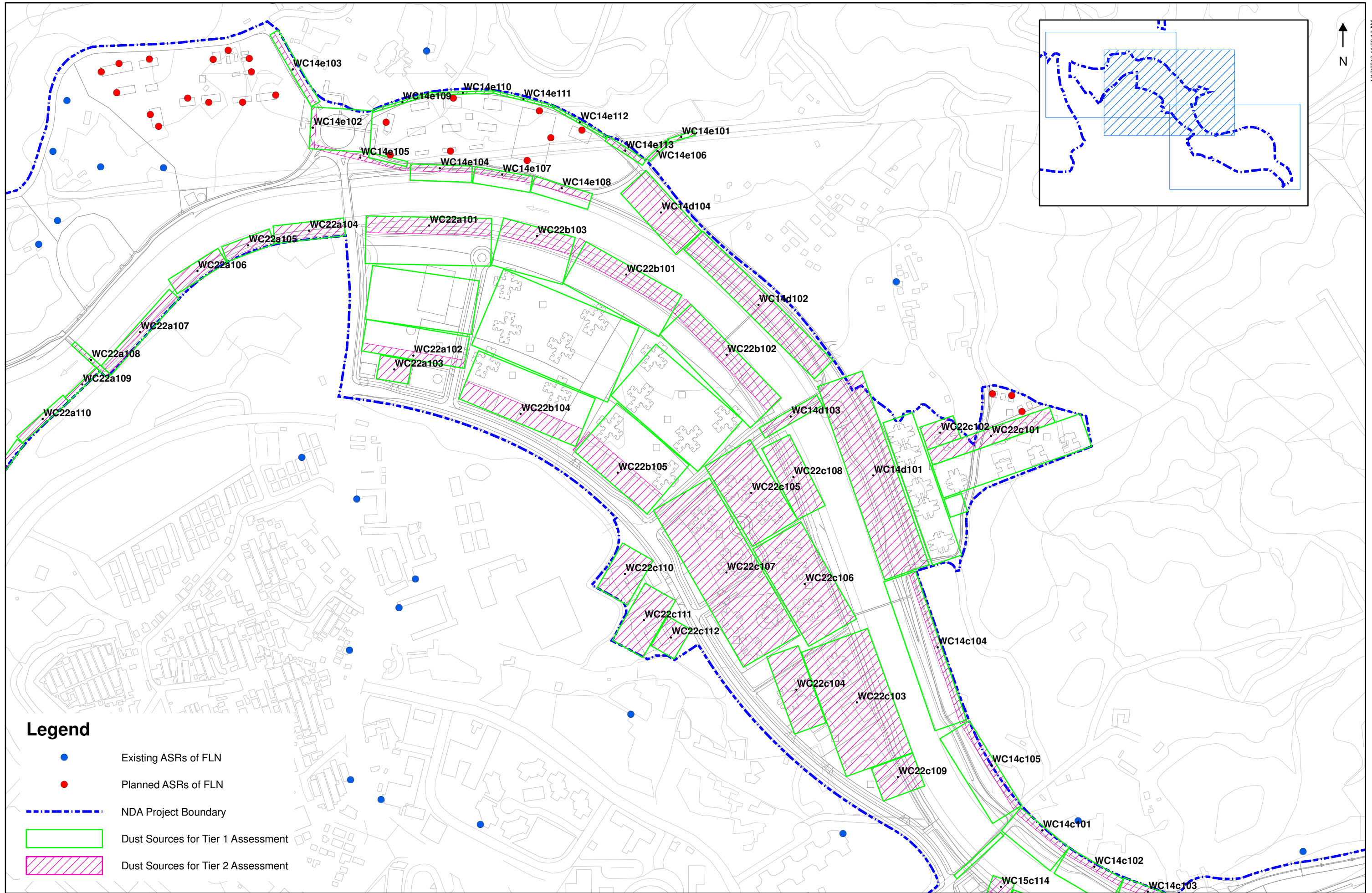
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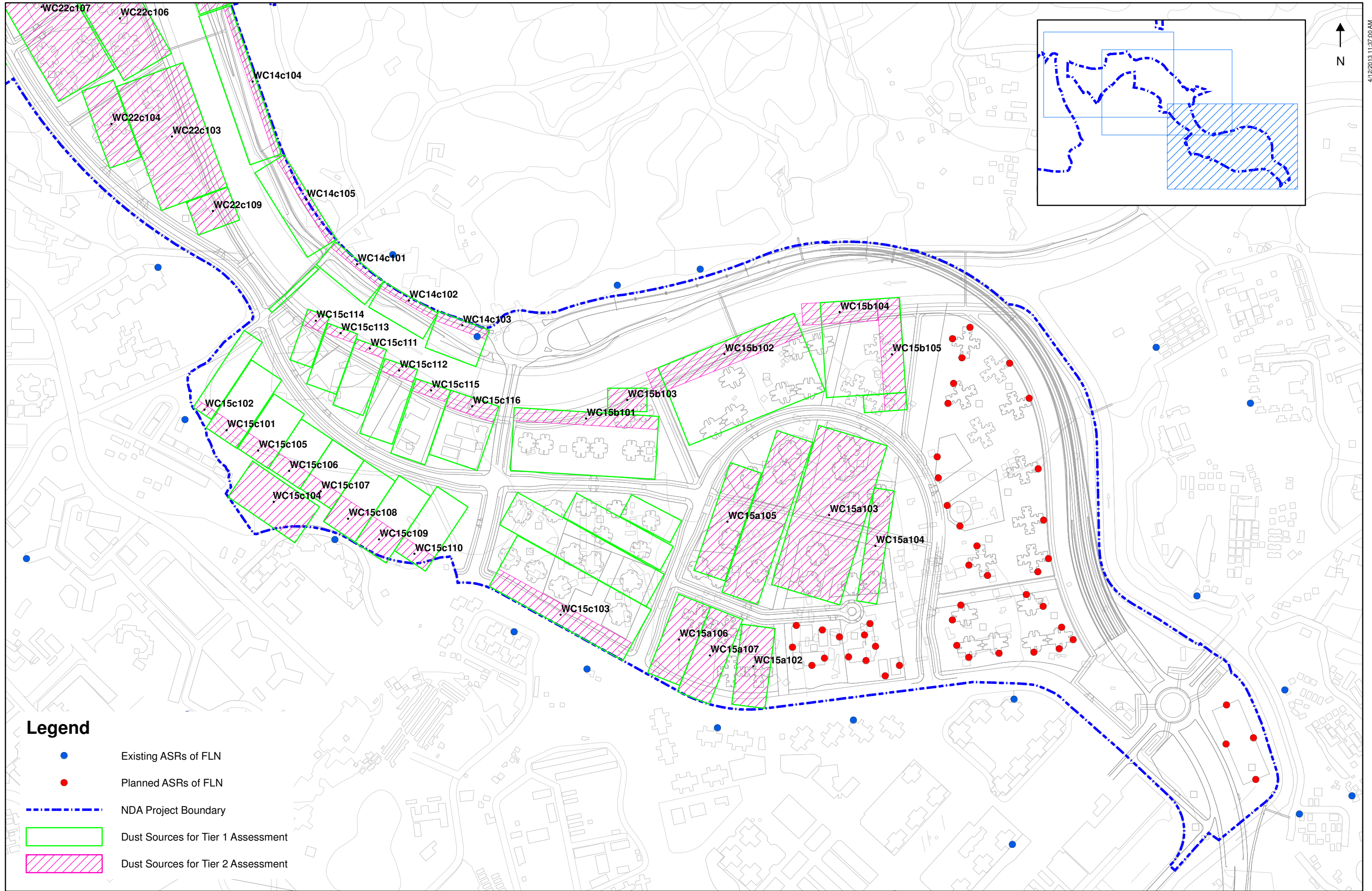
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 <div>土木工程拓展署 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT</div>	 <div>規劃署 PLANNING DEPARTMENT</div>		Job Title Agreement No. CE 61/007 (CE) North East New Territories New Development Areas Planning and Engineering Study – Investigation	Drawing Title Location of Dust Emission Sources for Tier 2 Assessment for FLN NDA in Year 2025 (Sheet 1 of 3)			Drawn EC	Date 02/13	Drawing No Appendix 3.3-FLN-T2-2025-a
							Checked KL	Approved ST	
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							Rev	Date	
Preliminary		Description		02/13		Date		Rev.	

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Project: 25278 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:

Mitigated (Day Time)

Active operating area (%):	6	refer to Appendix 3.2 for Justification
Mitigation efficiency (%):	0.00%	unmitigated
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):	0.000014370	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
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):	0.000239494	calculated, 12 working hours per day

Project: 25278 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	refer to Appendix 3.2 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)	0.0000001617	calculated, 24-hour emission

Unmitigated (Day Time)

Active operating area (%):	6	refer to Appendix 3.2 for Justification
Mitigation efficiency (%)	0.00%	unmitigated
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000001617	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)	0.0000026953	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
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000026953	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 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	estimated based on the construction schedule
Mitigation efficiency (%):	0.00%	unmitigated
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):	0.000023351	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
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):	0.000389178	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 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	estimated based on the construction schedule
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)	0.0000001617	calculated, 24-hour emission

Unmitigated (Day Time)

Active operating area (%):	6	estimated based on the construction schedule
Mitigation efficiency (%)	0.00%	unmitigated
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000001617	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)	0.0000026953	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
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000026953	calculated, 24-hour emission

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr TSP concentration calculation - 2018, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC03a101	Area	828180	840454	300.9	16.5	0	-3.0	0.00023949				0.00000270	0.00000270
WC03a102	Area	828403	840441	144.5	16.9	0	-4.0	0.00023949				0.00000270	0.00000270
WC03a103	Area	828710	840419	474.3	17.7	0	-4.0	0.00023949				0.00000270	0.00000270
WC03a104	Area	829038	840396	153.1	17.7	0	-4.0	0.00023949				0.00000270	0.00000270
WC03a105	Area	829386	840356	548.9	17.7	0	-7.0	0.00023949				0.00000270	0.00000270
WC03a106	Area	829777	840322	17.7	233.1	0	-89.0	0.00023949				0.00000270	0.00000270
WC03a107	Area	829938	840318	86.6	17.5	0	-9.0	0.00023949				0.00000270	0.00000270
WC03b101	Area	828929	840505	18.5	184.4	0	-24.0	0.00023949				0.00000270	0.00000270
WC03b102	Area	829001	840619	18.6	50.1	0	-44.0	0.00023949				0.00000270	0.00000270
WC03b103	Area	829063	840656	18.6	87.6	0	-64.0	0.00023949				0.00000270	0.00000270
WC03b104	Area	829172	840699	17.2	142.6	0	-71.0	0.00023949				0.00000270	0.00000270
WC03b105	Area	829289	840782	18.6	141.6	0	-39.0	0.00023949				0.00000270	0.00000270
WC03b106	Area	829346	840908	20.8	133.2	0	-13.0	0.00023949				0.00000270	0.00000270
WC03b107	Area	829382	841043	146.7	19.4	0	73.0	0.00023949				0.00000270	0.00000270
WC03b108	Area	829446	841182	151.3	21.9	0	56.0	0.00023949				0.00000270	0.00000270
WC04a101	Area	827466	840625	15.8	46.9	0	-5.0	0.00023949				0.00000270	0.00000270
WC04a102	Area	827487	840675	9.0	57.4	0	-35.0	0.00023949				0.00000270	0.00000270
WC04a103	Area	827537	840703	16.3	59.8	0	-65.0	0.00023949				0.00000270	0.00000270
WC04a104	Area	827618	840752	58.5	103.6	0	-35.0	0.00023949				0.00000270	0.00000270
WC04a105	Area	827641	840720	14.9	67.5	0	-35.0	0.00023949				0.00000270	0.00000270
WC04a106	Area	827709	840840	31.1	141.0	0	-55.0	0.00023949				0.00000270	0.00000270
WC04a107	Area	827792	840919	29.7	78.6	0	-25.0	0.00023949				0.00000270	0.00000270
WC04a108	Area	828020	841035	352.6	194.0	0	-5.0	0.00023949				0.00000270	0.00000270
WC04a109	Area	827813	841016	52.1	110.8	0	-5.0	0.00023949				0.00000270	0.00000270
WC04a110	Area	827820	841083	53.2	24.1	0	-5.0	0.00023949				0.00000270	0.00000270
WC04a111	Area	827826	841106	43.3	19.0	0	-5.0	0.00023949				0.00000270	0.00000270
WC04a112	Area	827836	841127	27.7	22.0	0	-5.0	0.00023949				0.00000270	0.00000270
WC04a113	Area	827856	841167	11.7	38.1	0	-5.0	0.00023949				0.00000270	0.00000270
WC04a114	Area	827867	841216	14.3	60.1	0	-15.0	0.00023949				0.00000270	0.00000270
WC04a115	Area	827878	841277	9.9	58.3	0	0.0	0.00023949				0.00000270	0.00000270
WC04a116	Area	827888	841336	9.9	58.8	0	-20.0	0.00023949				0.00000270	0.00000270
WC04a117	Area	827906	841375	8.9	22.3	0	-40.0	0.00023949				0.00000270	0.00000270
WC04a118	Area	827966	841422	7.9	126.5	0	-53.0	0.00023949				0.00000270	0.00000270
WC04a119	Area	828110	841492	6.8	115.9	0	-83.0	0.00023949				0.00000270	0.00000270
WC04a120	Area	828085	841499	10.3	12.5	0	-83.0	0.00023949				0.00000270	0.00000270
WC04a121	Area	828193	841518	5.2	60.6	0	-53.0	0.00023949				0.00000270	0.00000270
WC04a122	Area	828233	841565	8.1	61.0	0	-23.0	0.00023949				0.00000270	0.00000270
WC04a123	Area	828233	841639	73.1	79.8	0	-18.0	0.00023949				0.00000270	0.00000270
WC04a124	Area	828178	841623	8.7	15.2	0	-18.0	0.00023949				0.00000270	0.00000270
WC04a125	Area	828194	841647	6.7	69.6	0	-18.0	0.00023949				0.00000270	0.00000270
WC04a126	Area	828196	841595	80.4	26.4	0	-18.0	0.00023949				0.00000270	0.00000270
WC04a127	Area	828172	841569	23.8	38.8	0	-18.0	0.00023949				0.00000270	0.00000270
WC04a128	Area	828194	841565	20.3	32.3	0	-18.0	0.00023949				0.00000270	0.00000270
WC04a129	Area	828214	841570	14.1	9.6	0	-18.0	0.00023949				0.00000270	0.00000270
WC04a130	Area	828281	841707	16.3	75.8	0	-18.0	0.00023949				0.00000270	0.00000270
WC04a131	Area	828315	841784	25.0	87.8	0	-23.0	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr TSP concentration calculation - 2018, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC04a132	Area	828371	841812	56.2	25.7	0	-3.0	0.00023949				0.00000270	0.00000270
WC04a133	Area	828207	841562	5.9	9.6	0	-18.0	0.00023949				0.00000270	0.00000270
WC04a134	Area	828156	841580	13.8	26.2	0	-18.0	0.00023949				0.00000270	0.00000270
WC04a135	Area	828131	841488	6.8	41.2	0	-83.0	0.00023949				0.00000270	0.00000270
WC04a136	Area	828058	841478	7.4	26.1	0	-83.0	0.00023949				0.00000270	0.00000270
WC04a137	Area	828030	841469	5.6	32.6	0	-53.0	0.00023949				0.00000270	0.00000270
WC04b101	Area	827854	840618	51.3	198.5	0	-5.0	0.00023949				0.00000270	0.00000270
WC04b102	Area	827809	840633	41.9	177.1	0	-5.0	0.00023949				0.00000270	0.00000270
WC04b103	Area	827737	840645	102.6	171.0	0	-5.0	0.00023949				0.00000270	0.00000270
WC04b104	Area	827676	840697	25.8	89.0	0	-5.0	0.00023949				0.00000270	0.00000270
WC04b105	Area	827647	840704	11.0	42.1	0	-35.0	0.00023949				0.00000270	0.00000270
WC04b106	Area	827652	840692	8.2	26.1	0	-35.0	0.00023949				0.00000270	0.00000270
WC04b201	Area	827925	840615	90.7	204.8	0	-5.0	0.00023949				0.00000270	0.00000270
WC04b202	Area	828044	840600	146.8	213.1	0	-5.0	0.00023949				0.00000270	0.00000270
WC09a101	Area	829014	841834	75.5	68.6	0	-31.0	0.00023949				0.00000270	0.00000270
WC09a102	Area	829043	841881	101.1	40.5	0	-31.0	0.00023949				0.00000270	0.00000270
WC09a103	Area	829072	841924	117.5	60.5	0	-31.0	0.00023949				0.00000270	0.00000270
WC09a104	Area	829104	841970	118.2	51.2	0	-31.0	0.00023949				0.00000270	0.00000270
WC09a105	Area	829156	841980	57.6	19.0	0	-31.0	0.00023949				0.00000270	0.00000270
WC09b101	Area	828348	841850	39.2	4.7	0	81.0	0.00023949				0.00000270	0.00000270
WC09b102	Area	828399	841899	108.2	4.4	0	32.0	0.00023949				0.00000270	0.00000270
WC09b103	Area	828485	841908	84.3	4.4	0	-26.0	0.00023949				0.00000270	0.00000270
WC09b104	Area	828552	841891	55.2	4.4	0	4.0	0.00023949				0.00000270	0.00000270
WC09b105	Area	828624	841923	105.4	4.4	0	34.0	0.00023949				0.00000270	0.00000270
WC09b106	Area	828715	841951	91.7	4.3	0	-1.0	0.00023949				0.00000270	0.00000270
WC09b107	Area	828824	841980	42.0	3.6	0	31.0	0.00023949				0.00000270	0.00000270
WC09b108	Area	828878	842016	88.9	2.9	0	34.0	0.00023949				0.00000270	0.00000270
WC09b109	Area	828934	842037	17.0	6.5	0	-26.0	0.00023949				0.00000270	0.00000270
WC09b110	Area	828950	842012	20.8	3.9	0	-66.0	0.00023949				0.00000270	0.00000270
WC09b111	Area	828996	841981	23.9	5.2	0	-6.0	0.00023949				0.00000270	0.00000270
WC09b112	Area	829018	841983	4.4	21.0	0	-76.0	0.00023949				0.00000270	0.00000270
WC09b113	Area	829036	841985	13.2	5.1	0	-6.0	0.00023949				0.00000270	0.00000270
WC09b114	Area	828968	841991	34.3	5.5	0	-36.0	0.00023949				0.00000270	0.00000270
WC09b115	Area	828945	842027	11.9	3.9	0	-76.0	0.00023949				0.00000270	0.00000270
WC09b116	Area	828783	841960	46.4	3.6	0	21.0	0.00023949				0.00000270	0.00000270
WC09c101	Area	829275	841856	285.8	14.2	0	-24.0	0.00023949				0.00000270	0.00000270
WC09c102	Area	829456	841806	12.1	90.4	0	-81.0	0.00023949				0.00000270	0.00000270
WC09c103	Area	829536	841829	10.4	72.9	0	-66.0	0.00023949				0.00000270	0.00000270
WC09c104	Area	829606	841857	9.7	78.1	0	-66.0	0.00023949				0.00000270	0.00000270
WC09c105	Area	829662	841878	10.0	39.2	0	-76.0	0.00023949				0.00000270	0.00000270
WC09c106	Area	829690	841895	10.0	19.7	0	-38.0	0.00023949				0.00000270	0.00000270
WC21b101	Area	827994	841306	79.0	76.0	0	-53.0	0.00023949				0.00000270	0.00000270
WC21b102	Area	827954	841255	46.5	49.2	0	-53.0	0.00023949				0.00000270	0.00000270
WC21b103	Area	827914	841225	46.5	49.2	0	-53.0	0.00023949				0.00000270	0.00000270
WC21b104	Area	827903	841271	41.1	10.7	0	-53.0	0.00023949				0.00000270	0.00000270
WC21b105	Area	827898	841262	31.0	7.4	0	-53.0	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr TSP concentration calculation - 2018, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC21b106	Area	827895	841253	20.9	7.4	0	-53.0	0.00023949				0.00000270	0.00000270
WC21b107	Area	827891	841245	11.7	8.7	0	-53.0	0.00023949				0.00000270	0.00000270
WC21b108	Area	827889	841196	29.5	25.1	0	-53.0	0.00023949				0.00000270	0.00000270
WC21b109	Area	827882	841215	9.1	13.3	0	-53.0	0.00023949				0.00000270	0.00000270
WC21b110	Area	827877	841182	21.3	10.2	0	-53.0	0.00023949				0.00000270	0.00000270
WC21b111	Area	827873	841173	11.3	8.2	0	-53.0	0.00023949				0.00000270	0.00000270
WC31a101	Area	827626	840604	104.1	60.3	0	-10.0	0.00023949				0.00000270	0.00000270
WC31a102	Area	827619	840650	73.9	28.2	0	-10.0	0.00023949				0.00000270	0.00000270
WC31a103	Area	827623	840673	72.8	19.1	0	-10.0	0.00023949				0.00000270	0.00000270
WC31a104	Area	827613	840687	48.1	4.0	0	-10.0	0.00023949				0.00000270	0.00000270
WC31a105	Area	827598	840694	16.8	5.6	0	-10.0	0.00023949				0.00000270	0.00000270
WC31a106	Area	827669	840639	27.7	24.0	0	-10.0	0.00023949				0.00000270	0.00000270
WC33b101	Area	828374	841243	249.9	116.4	0	-53.0	0.00023949				0.00000270	0.00000270
WC33b102	Area	828263	841239	284.2	64.1	0	-53.0	0.00023949				0.00000270	0.00000270
WC33b103	Area	828481	841131	57.6	67.7	0	-53.0	0.00023949				0.00000270	0.00000270
WC33b104	Area	828253	841326	27.1	22.4	0	-53.0	0.00023949				0.00000270	0.00000270
WC33b105	Area	828205	841220	244.9	51.6	0	-53.0	0.00023949				0.00000270	0.00000270
WC33b106	Area	828142	841209	179.8	61.2	0	-53.0	0.00023949				0.00000270	0.00000270
WC33b107	Area	828076	841198	117.9	59.2	0	-53.0	0.00023949				0.00000270	0.00000270
WC33b108	Area	828019	841179	80.0	53.0	0	-53.0	0.00023949				0.00000270	0.00000270
WC33b109	Area	827966	841168	33.2	45.9	0	-53.0	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2018, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height		Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC03a101	Area	828180	840454	300.9	16.5	0		-3.0	0.00001437				0.000000162	0.000000162
WC03a102	Area	828403	840441	144.5	16.9	0		-4.0	0.00001437				0.000000162	0.000000162
WC03a103	Area	828710	840419	474.3	17.7	0		-4.0	0.00001437				0.000000162	0.000000162
WC03a104	Area	829038	840396	153.1	17.7	0		-4.0	0.00001437				0.000000162	0.000000162
WC03a105	Area	829386	840356	548.9	17.7	0		-7.0	0.00001437				0.000000162	0.000000162
WC03a106	Area	829777	840322	17.7	233.1	0		-89.0	0.00001437				0.000000162	0.000000162
WC03a107	Area	829938	840318	86.6	17.5	0		-9.0	0.00001437				0.000000162	0.000000162
WC03b101	Area	828929	840505	18.5	184.4	0		-24.0	0.00001437				0.000000162	0.000000162
WC03b102	Area	829001	840619	18.6	50.1	0		-44.0	0.00001437				0.000000162	0.000000162
WC03b103	Area	829063	840656	18.6	87.6	0		-64.0	0.00001437				0.000000162	0.000000162
WC03b104	Area	829172	840699	17.2	142.6	0		-71.0	0.00001437				0.000000162	0.000000162
WC03b105	Area	829289	840782	18.6	141.6	0		-39.0	0.00001437				0.000000162	0.000000162
WC03b106	Area	829346	840908	20.8	133.2	0		-13.0	0.00001437				0.000000162	0.000000162
WC03b107	Area	829382	841043	146.7	19.4	0		73.0	0.00001437				0.000000162	0.000000162
WC03b108	Area	829446	841182	151.3	21.9	0		56.0	0.00001437				0.000000162	0.000000162
WC04a101	Area	827466	840625	15.8	46.9	0		-5.0	0.00001437				0.000000162	0.000000162
WC04a102	Area	827487	840675	9.0	57.4	0		-35.0	0.00001437				0.000000162	0.000000162
WC04a103	Area	827537	840703	16.3	59.8	0		-65.0	0.00001437				0.000000162	0.000000162
WC04a104	Area	827618	840752	58.5	103.6	0		-35.0	0.00001437				0.000000162	0.000000162
WC04a105	Area	827641	840720	14.9	67.5	0		-35.0	0.00001437				0.000000162	0.000000162
WC04a106	Area	827709	840840	31.1	141.0	0		-55.0	0.00001437				0.000000162	0.000000162
WC04a107	Area	827792	840919	29.7	78.6	0		-25.0	0.00001437				0.000000162	0.000000162
WC04a108	Area	828020	841035	352.6	194.0	0		-5.0	0.00001437				0.000000162	0.000000162
WC04a109	Area	827813	841016	52.1	110.8	0		-5.0	0.00001437				0.000000162	0.000000162
WC04a110	Area	827820	841083	53.2	24.1	0		-5.0	0.00001437				0.000000162	0.000000162
WC04a111	Area	827826	841106	43.3	19.0	0		-5.0	0.00001437				0.000000162	0.000000162
WC04a112	Area	827836	841127	27.7	22.0	0		-5.0	0.00001437				0.000000162	0.000000162
WC04a113	Area	827856	841167	11.7	38.1	0		-5.0	0.00001437				0.000000162	0.000000162
WC04a114	Area	827867	841216	14.3	60.1	0		-15.0	0.00001437				0.000000162	0.000000162
WC04a115	Area	827878	841277	9.9	58.3	0		0.0	0.00001437				0.000000162	0.000000162
WC04a116	Area	827888	841336	9.9	58.8	0		-20.0	0.00001437				0.000000162	0.000000162
WC04a117	Area	827906	841375	8.9	22.3	0		-40.0	0.00001437				0.000000162	0.000000162
WC04a118	Area	827966	841422	7.9	126.5	0		-53.0	0.00001437				0.000000162	0.000000162
WC04a119	Area	828110	841492	6.8	115.9	0		-83.0	0.00001437				0.000000162	0.000000162
WC04a120	Area	828085	841499	10.3	12.5	0		-83.0	0.00001437				0.000000162	0.000000162
WC04a121	Area	828193	841518	5.2	60.6	0		-53.0	0.00001437				0.000000162	0.000000162
WC04a122	Area	828233	841565	8.1	61.0	0		-23.0	0.00001437				0.000000162	0.000000162
WC04a123	Area	828233	841639	73.1	79.8	0		-18.0	0.00001437				0.000000162	0.000000162
WC04a124	Area	828178	841623	8.7	15.2	0		-18.0	0.00001437				0.000000162	0.000000162
WC04a125	Area	828194	841647	6.7	69.6	0		-18.0	0.00001437				0.000000162	0.000000162
WC04a126	Area	828196	841595	80.4	26.4	0		-18.0	0.00001437				0.000000162	0.000000162
WC04a127	Area	828172	841569	23.8	38.8	0		-18.0	0.00001437				0.000000162	0.000000162
WC04a128	Area	828194	841565	20.3	32.3	0		-18.0	0.00001437				0.000000162	0.000000162
WC04a129	Area	828214	841570	14.1	9.6	0		-18.0	0.00001437				0.000000162	0.000000162
WC04a130	Area	828281	841707	16.3	75.8	0		-18.0	0.00001437				0.000000162	0.000000162
WC04a131	Area	828315	841784	25.0	87.8	0		-23.0	0.00001437				0.000000162	0.000000162
WC04a132	Area	828371	841812	56.2	25.7	0		-3.0	0.00001437				0.000000162	0.000000162
WC04a133	Area	828207	841562	5.9	9.6	0		-18.0	0.00001437				0.000000162	0.000000162
WC04a134	Area	828156	841580	13.8	26.2	0		-18.0	0.00001437				0.000000162	0.000000162
WC04a135	Area	828131	841488	6.8	41.2	0		-83.0	0.00001437				0.000000162	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2018, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height		Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC04a136	Area	828058	841478	7.4	26.1	0		-83.0	0.00001437				0.000000162	0.000000162
WC04a137	Area	828030	841469	5.6	32.6	0		-53.0	0.00001437				0.000000162	0.000000162
WC04b101	Area	827854	840618	51.3	198.5	0		-5.0	0.00001437				0.000000162	0.000000162
WC04b102	Area	827809	840633	41.9	177.1	0		-5.0	0.00001437				0.000000162	0.000000162
WC04b103	Area	827737	840645	102.6	171.0	0		-5.0	0.00001437				0.000000162	0.000000162
WC04b104	Area	827676	840697	25.8	89.0	0		-5.0	0.00001437				0.000000162	0.000000162
WC04b105	Area	827647	840704	11.0	42.1	0		-35.0	0.00001437				0.000000162	0.000000162
WC04b106	Area	827652	840692	8.2	26.1	0		-35.0	0.00001437				0.000000162	0.000000162
WC04b201	Area	827925	840615	90.7	204.8	0		-5.0	0.00001437				0.000000162	0.000000162
WC04b202	Area	828044	840600	146.8	213.1	0		-5.0	0.00001437				0.000000162	0.000000162
WC09a101	Area	829014	841834	75.5	68.6	0		-31.0	0.00001437				0.000000162	0.000000162
WC09a102	Area	829043	841881	101.1	40.5	0		-31.0	0.00001437				0.000000162	0.000000162
WC09a103	Area	829072	841924	117.5	60.5	0		-31.0	0.00001437				0.000000162	0.000000162
WC09a104	Area	829104	841970	118.2	51.2	0		-31.0	0.00001437				0.000000162	0.000000162
WC09a105	Area	829156	841980	57.6	19.0	0		-31.0	0.00001437				0.000000162	0.000000162
WC09b101	Area	828348	841850	39.2	4.7	0		81.0	0.00001437				0.000000162	0.000000162
WC09b102	Area	828399	841899	108.2	4.4	0		32.0	0.00001437				0.000000162	0.000000162
WC09b103	Area	828485	841908	84.3	4.4	0		-26.0	0.00001437				0.000000162	0.000000162
WC09b104	Area	828552	841891	55.2	4.4	0		4.0	0.00001437				0.000000162	0.000000162
WC09b105	Area	828624	841923	105.4	4.4	0		34.0	0.00001437				0.000000162	0.000000162
WC09b106	Area	828715	841951	91.7	4.3	0		-1.0	0.00001437				0.000000162	0.000000162
WC09b107	Area	828824	841980	42.0	3.6	0		31.0	0.00001437				0.000000162	0.000000162
WC09b108	Area	828878	842016	88.9	2.9	0		34.0	0.00001437				0.000000162	0.000000162
WC09b109	Area	828934	842037	17.0	6.5	0		-26.0	0.00001437				0.000000162	0.000000162
WC09b110	Area	828950	842012	20.8	3.9	0		-66.0	0.00001437				0.000000162	0.000000162
WC09b111	Area	828996	841981	23.9	5.2	0		-6.0	0.00001437				0.000000162	0.000000162
WC09b112	Area	829018	841983	4.4	21.0	0		-76.0	0.00001437				0.000000162	0.000000162
WC09b113	Area	829036	841985	13.2	5.1	0		-6.0	0.00001437				0.000000162	0.000000162
WC09b114	Area	828968	841991	34.3	5.5	0		-36.0	0.00001437				0.000000162	0.000000162
WC09b115	Area	828945	842027	11.9	3.9	0		-76.0	0.00001437				0.000000162	0.000000162
WC09b116	Area	828783	841960	46.4	3.6	0		21.0	0.00001437				0.000000162	0.000000162
WC09c101	Area	829275	841856	285.8	14.2	0		-24.0	0.00001437				0.000000162	0.000000162
WC09c102	Area	829456	841806	12.1	90.4	0		-81.0	0.00001437				0.000000162	0.000000162
WC09c103	Area	829536	841829	10.4	72.9	0		-66.0	0.00001437				0.000000162	0.000000162
WC09c104	Area	829606	841857	9.7	78.1	0		-66.0	0.00001437				0.000000162	0.000000162
WC09c105	Area	829662	841878	10.0	39.2	0		-76.0	0.00001437				0.000000162	0.000000162
WC09c106	Area	829690	841895	10.0	19.7	0		-38.0	0.00001437				0.000000162	0.000000162
WC21b101	Area	827994	841306	79.0	76.0	0		-53.0	0.00001437				0.000000162	0.000000162
WC21b102	Area	827954	841255	46.5	49.2	0		-53.0	0.00001437				0.000000162	0.000000162
WC21b103	Area	827914	841225	46.5	49.2	0		-53.0	0.00001437				0.000000162	0.000000162
WC21b104	Area	827903	841271	41.1	10.7	0		-53.0	0.00001437				0.000000162	0.000000162
WC21b105	Area	827898	841262	31.0	7.4	0		-53.0	0.00001437				0.000000162	0.000000162
WC21b106	Area	827895	841253	20.9	7.4	0		-53.0	0.00001437				0.000000162	0.000000162
WC21b107	Area	827891	841245	11.7	8.7	0		-53.0	0.00001437				0.000000162	0.000000162
WC21b108	Area	827889	841196	29.5	25.1	0		-53.0	0.00001437				0.000000162	0.000000162
WC21b109	Area	827882	841215	9.1	13.3	0		-53.0	0.00001437				0.000000162	0.000000162
WC21b110	Area	827877	841182	21.3	10.2	0		-53.0	0.00001437				0.000000162	0.000000162
WC21b111	Area	827873	841173	11.3	8.2	0		-53.0	0.00001437				0.000000162	0.000000162
WC31a101	Area	827626	840604	104.1	60.3	0		-10.0	0.00001437				0.000000162	0.000000162
WC31a102	Area	827619	840650	73.9	28.2	0		-10.0	0.00001437				0.000000162	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2018, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height		Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC31a103	Area	827623	840673	72.8	19.1	0		-10.0	0.00001437				0.000000162	0.000000162
WC31a104	Area	827613	840687	48.1	4.0	0		-10.0	0.00001437				0.000000162	0.000000162
WC31a105	Area	827598	840694	16.8	5.6	0		-10.0	0.00001437				0.000000162	0.000000162
WC31a106	Area	827669	840639	27.7	24.0	0		-10.0	0.00001437				0.000000162	0.000000162
WC33b101	Area	828374	841243	249.9	116.4	0		-53.0	0.00001437				0.000000162	0.000000162
WC33b102	Area	828263	841239	284.2	64.1	0		-53.0	0.00001437				0.000000162	0.000000162
WC33b103	Area	828481	841131	57.6	67.7	0		-53.0	0.00001437				0.000000162	0.000000162
WC33b104	Area	828253	841326	27.1	22.4	0		-53.0	0.00001437				0.000000162	0.000000162
WC33b105	Area	828205	841220	244.9	51.6	0		-53.0	0.00001437				0.000000162	0.000000162
WC33b106	Area	828142	841209	179.8	61.2	0		-53.0	0.00001437				0.000000162	0.000000162
WC33b107	Area	828076	841198	117.9	59.2	0		-53.0	0.00001437				0.000000162	0.000000162
WC33b108	Area	828019	841179	80.0	53.0	0		-53.0	0.00001437				0.000000162	0.000000162
WC33b109	Area	827966	841168	33.2	45.9	0		-53.0	0.00001437				0.000000162	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC10a101	Area	827316	840513	171.1	64.4	0	-1.0	0.00023949				0.00000270	0.00000270
WC10a102	Area	827551	840522	288.9	112.8	0	-6.0	0.00023949				0.00000270	0.00000270
WC10a103	Area	827443	840448	45.7	51.7	0	-6.0	0.00023949				0.00000270	0.00000270
WC10a104	Area	827347	840453	75.7	7.7	0	-21.0	0.00023949				0.00000270	0.00000270
WC10a105	Area	827543	840424	7.7	65.7	0	-86.0	0.00023949				0.00000270	0.00000270
WC10a106	Area	827826	840497	261.1	85.9	0	-6.0	0.00023949				0.00000270	0.00000270
WC10a107	Area	826666	840339	35.6	110.9	0	-56.0	0.00023949				0.00000270	0.00000270
WC10a108	Area	826888	840421	77.8	219.4	0	-71.0	0.00023949				0.00000270	0.00000270
WC10a109	Area	826751	840377	66.0	62.0	0	-66.0	0.00023949				0.00000270	0.00000270
WC10a110	Area	827070	840481	64.8	158.3	0	-76.0	0.00023949				0.00000270	0.00000270
WC10a111	Area	826655	840369	5.6	116.1	0	-66.0	0.00023949				0.00000270	0.00000270
WC10a112	Area	826680	840317	5.9	110.9	0	-51.0	0.00023949				0.00000270	0.00000270
WC10a113	Area	827189	840507	39.5	78.1	0	-81.0	0.00023949				0.00000270	0.00000270
WC10a114	Area	827690	840631	155.9	24.8	0	-71.0	0.00023949				0.00000270	0.00000270
WC10a115	Area	827400	840436	33.7	7.7	0	-11.0	0.00023949				0.00000270	0.00000270
WC10a116	Area	827486	840424	43.4	7.7	0	-1.0	0.00023949				0.00000270	0.00000270
WC10a117	Area	827465	840619	11.1	60.2	0	-6.0	0.00023949				0.00000270	0.00000270
WC10a201	Area	827410	840749	104.8	102.4	0	-15.0	0.00023949				0.00000270	0.00000270
WC10a202	Area	827489	840786	9.0	27.8	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a203	Area	827419	840802	91.4	6.1	0	-15.0	0.00023949				0.00000270	0.00000270
WC10a204	Area	827415	840811	45.3	7.1	0	-15.0	0.00023949				0.00000270	0.00000270
WC10a205	Area	827522	840784	25.4	35.1	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a206	Area	827558	840778	40.5	32.9	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a207	Area	827579	840796	13.0	15.0	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a208	Area	827579	840781	16.4	8.0	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a209	Area	827539	840764	19.7	9.0	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a210	Area	827549	840747	15.1	28.2	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a211	Area	827544	840734	8.8	13.6	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a212	Area	827531	840734	25.0	11.0	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a213	Area	827524	840727	24.3	3.1	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a214	Area	827511	840721	18.5	25.7	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a215	Area	827508	840709	4.6	14.9	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a216	Area	827497	840711	26.3	4.9	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a217	Area	827490	840710	31.7	8.1	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a218	Area	827473	840705	36.0	25.7	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a219	Area	827458	840696	24.5	5.5	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a220	Area	827471	840726	5.4	24.0	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a221	Area	827469	840730	3.0	19.4	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a222	Area	827471	840734	4.4	19.4	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a223	Area	827471	840741	8.6	14.4	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a224	Area	827471	840750	9.1	9.7	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a225	Area	827471	840759	8.5	4.7	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a226	Area	827453	840688	10.5	6.8	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a227	Area	827447	840683	4.1	7.0	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a228	Area	827461	840677	12.5	30.1	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a229	Area	827478	840683	7.6	5.5	0	-80.0	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC10a230	Area	827462	840669	4.7	20.2	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a231	Area	827464	840664	4.0	11.1	0	-80.0	0.00023949				0.00000270	0.00000270
WC10a232	Area	827465	840661	2.3	6.8	0	-80.0	0.00023949				0.00000270	0.00000270
WC11a101	Area	829212	840458	224.2	57.7	0	-9.0	0.00023949				0.00000270	0.00000270
WC11a102	Area	829160	840525	286.5	58.1	0	-9.0	0.00023949				0.00000270	0.00000270
WC11a103	Area	829168	840579	210.4	49.9	0	-9.0	0.00023949				0.00000270	0.00000270
WC11a104	Area	829197	840617	101.5	31.7	0	-9.0	0.00023949				0.00000270	0.00000270
WC11a105	Area	828984	840508	28.3	84.5	0	-29.0	0.00023949				0.00000270	0.00000270
WC11a106	Area	829363	840519	128.7	53.9	0	-57.0	0.00023949				0.00000270	0.00000270
WC11a107	Area	829383	840549	99.6	10.0	0	-57.0	0.00023949				0.00000270	0.00000270
WC11a108	Area	829353	840474	39.1	11.5	0	-57.0	0.00023949				0.00000270	0.00000270
WC11a109	Area	829373	840420	60.7	54.7	0	-17.0	0.00023949				0.00000270	0.00000270
WC11a110	Area	829401	840452	17.6	18.7	0	-17.0	0.00023949				0.00000270	0.00000270
WC11a111	Area	828873	840705	104.6	440.1	0	-5.0	0.00023949				0.00000270	0.00000270
WC11a112	Area	828958	840754	56.0	319.2	0	-5.0	0.00023949				0.00000270	0.00000270
WC11a113	Area	829062	840739	91.6	125.9	0	-55.0	0.00023949				0.00000270	0.00000270
WC11a114	Area	829177	840796	145.0	78.9	0	-54.0	0.00023949				0.00000270	0.00000270
WC11a115	Area	828750	840702	139.4	458.3	0	-5.0	0.00023949				0.00000270	0.00000270
WC11a116	Area	829044	840862	93.6	88.0	0	-5.0	0.00023949				0.00000270	0.00000270
WC11a117	Area	829013	840797	39.7	45.6	0	-5.0	0.00023949				0.00000270	0.00000270
WC11a118	Area	829396	840554	43.8	14.4	0	-57.0	0.00023949				0.00000270	0.00000270
WC11a119	Area	829207	840844	100.4	25.5	0	-54.0	0.00023949				0.00000270	0.00000270
WC11a120	Area	829233	840837	136.3	5.7	0	-54.0	0.00023949				0.00000270	0.00000270
WC11a121	Area	829210	840897	11.6	27.6	0	-54.0	0.00023949				0.00000270	0.00000270
WC11a122	Area	829293	840926	86.0	93.5	0	-14.0	0.00023949				0.00000270	0.00000270
WC11a123	Area	829240	840921	11.1	45.2	0	-14.0	0.00023949				0.00000270	0.00000270
WC11a124	Area	829285	840870	68.1	17.6	0	-14.0	0.00023949				0.00000270	0.00000270
WC11a125	Area	829301	840850	25.1	13.3	0	-14.0	0.00023949				0.00000270	0.00000270
WC11a126	Area	829136	840867	16.9	96.9	0	-54.0	0.00023949				0.00000270	0.00000270
WC11a127	Area	829128	840715	24.1	47.6	0	-55.0	0.00023949				0.00000270	0.00000270
WC11b101	Area	828159	840896	67.1	60.3	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b102	Area	828323	840895	81.0	86.3	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b103	Area	828415	840879	102.5	100.7	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b104	Area	828229	840908	69.8	23.4	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b105	Area	828258	840860	37.8	4.5	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b106	Area	828593	840868	120.5	90.4	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b107	Area	828493	840846	56.1	47.7	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b108	Area	828503	840914	65.1	16.5	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b109	Area	828275	840921	18.5	41.6	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b110	Area	828571	840652	127.4	344.1	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b111	Area	828425	840667	158.6	317.8	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b112	Area	828328	840684	32.9	333.7	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b113	Area	828429	840497	120.7	16.9	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b114	Area	828660	840709	41.0	466.8	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b201	Area	827492	840753	48.9	31.7	0	-75.0	0.00023949				0.00000270	0.00000270
WC11b202	Area	827520	840756	23.6	22.5	0	-75.0	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12a101	Area	828140	841421	80.7	289.1	0	-52.0	0.00023949				0.00000270	0.00000270
WC12a102	Area	827673	841411	28.0	79.5	0	-57.0	0.00023949				0.00000270	0.00000270
WC12a103	Area	827702	841392	35.9	130.1	0	-57.0	0.00023949				0.00000270	0.00000270
WC12a104	Area	827735	841363	47.2	138.8	0	-57.0	0.00023949				0.00000270	0.00000270
WC12a105	Area	827773	841331	46.6	116.8	0	-57.0	0.00023949				0.00000270	0.00000270
WC12a106	Area	827817	841304	45.8	83.4	0	-57.0	0.00023949				0.00000270	0.00000270
WC12a107	Area	827847	841281	25.3	41.3	0	-57.0	0.00023949				0.00000270	0.00000270
WC12a108	Area	828379	841404	432.5	63.3	0	-54.0	0.00023949				0.00000270	0.00000270
WC12a109	Area	828510	841304	139.6	19.5	0	-59.0	0.00023949				0.00000270	0.00000270
WC12a110	Area	828565	841287	53.9	58.6	0	-59.0	0.00023949				0.00000270	0.00000270
WC12a111	Area	828606	841307	37.3	27.3	0	-59.0	0.00023949				0.00000270	0.00000270
WC12a112	Area	828291	841135	23.1	43.6	0	-54.0	0.00023949				0.00000270	0.00000270
WC12a113	Area	828428	841539	141.3	167.7	0	-54.0	0.00023949				0.00000270	0.00000270
WC12a114	Area	828280	841639	8.1	92.6	0	-19.0	0.00023949				0.00000270	0.00000270
WC12a115	Area	828095	841310	30.8	499.0	0	-53.0	0.00023949				0.00000270	0.00000270
WC12a116	Area	828196	841259	29.6	397.0	0	-53.0	0.00023949				0.00000270	0.00000270
WC12a117	Area	828239	841246	42.4	344.0	0	-53.0	0.00023949				0.00000270	0.00000270
WC12a118	Area	828280	841223	41.0	300.2	0	-53.0	0.00023949				0.00000270	0.00000270
WC12a119	Area	828327	841204	41.0	248.1	0	-53.0	0.00023949				0.00000270	0.00000270
WC12a120	Area	828011	841473	19.7	114.3	0	-57.0	0.00023949				0.00000270	0.00000270
WC12a121	Area	828048	841437	52.6	41.3	0	-52.0	0.00023949				0.00000270	0.00000270
WC12a122	Area	828092	841457	32.1	52.2	0	-52.0	0.00023949				0.00000270	0.00000270
WC12a123	Area	828130	841291	36.8	465.0	0	-53.0	0.00023949				0.00000270	0.00000270
WC12a124	Area	828164	841275	29.5	429.8	0	-53.0	0.00023949				0.00000270	0.00000270
WC12a125	Area	828534	841314	23.0	29.7	0	-59.0	0.00023949				0.00000270	0.00000270
WC12a126	Area	828389	841187	21.0	172.4	0	-64.0	0.00023949				0.00000270	0.00000270
WC12a127	Area	828419	841226	21.0	75.4	0	-64.0	0.00023949				0.00000270	0.00000270
WC12a128	Area	828297	841117	11.6	11.6	0	-54.0	0.00023949				0.00000270	0.00000270
WC12a129	Area	828286	841616	14.4	40.8	0	-19.0	0.00023949				0.00000270	0.00000270
WC12b201	Area	828005	841406	52.6	60.3	0	-52.0	0.00023949				0.00000270	0.00000270
WC12b301	Area	828355	841145	15.5	111.6	0	-59.0	0.00023949				0.00000270	0.00000270
WC12b302	Area	828429	841165	22.6	198.6	0	-59.0	0.00023949				0.00000270	0.00000270
WC12b303	Area	828454	841155	20.3	165.8	0	-59.0	0.00023949				0.00000270	0.00000270
WC12b304	Area	828482	841148	20.8	125.2	0	-59.0	0.00023949				0.00000270	0.00000270
WC12b305	Area	828506	841134	28.0	98.9	0	-59.0	0.00023949				0.00000270	0.00000270
WC12b306	Area	828441	841192	9.4	83.0	0	-59.0	0.00023949				0.00000270	0.00000270
WC12b401	Area	828602	841221	95.9	151.7	0	-59.0	0.00023949				0.00000270	0.00000270
WC12b402	Area	828676	841261	83.3	16.3	0	-59.0	0.00023949				0.00000270	0.00000270
WC12b403	Area	828693	841263	61.6	14.5	0	-59.0	0.00023949				0.00000270	0.00000270
WC12b404	Area	828708	841265	47.8	12.7	0	-59.0	0.00023949				0.00000270	0.00000270
WC12b405	Area	828720	841271	40.0	12.2	0	-59.0	0.00023949				0.00000270	0.00000270
WC12c101	Area	828558	840984	37.8	135.1	0	-5.0	0.00023949				0.00000270	0.00000270
WC12c102	Area	828619	840963	79.7	103.0	0	-5.0	0.00023949				0.00000270	0.00000270
WC12c103	Area	828799	840988	274.0	112.7	0	-5.0	0.00023949				0.00000270	0.00000270
WC12c104	Area	828951	840954	33.0	72.2	0	-5.0	0.00023949				0.00000270	0.00000270
WC12c105	Area	828805	841056	219.8	23.3	0	-5.0	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12c106	Area	828682	841139	116.1	263.4	0	-56.0	0.00023949				0.00000270	0.00000270
WC12c107	Area	828814	841087	132.3	39.4	0	-5.0	0.00023949				0.00000270	0.00000270
WC12c108	Area	828823	841124	57.6	35.1	0	-5.0	0.00023949				0.00000270	0.00000270
WC12c109	Area	828382	841016	219.8	167.2	0	-5.0	0.00023949				0.00000270	0.00000270
WC12c110	Area	828517	841010	48.4	179.4	0	-5.0	0.00023949				0.00000270	0.00000270
WC12c111	Area	828946	841113	424.4	115.5	0	-52.0	0.00023949				0.00000270	0.00000270
WC12c112	Area	829153	840966	60.3	170.3	0	-47.0	0.00023949				0.00000270	0.00000270
WC12c113	Area	828952	841256	156.9	68.0	0	-52.0	0.00023949				0.00000270	0.00000270
WC12c114	Area	828784	841296	43.2	35.3	0	-71.0	0.00023949				0.00000270	0.00000270
WC12c115	Area	828750	841290	35.2	33.2	0	-71.0	0.00023949				0.00000270	0.00000270
WC12c116	Area	829189	840947	15.1	163.5	0	-47.0	0.00023949				0.00000270	0.00000270
WC12c117	Area	829214	840948	14.6	124.3	0	-47.0	0.00023949				0.00000270	0.00000270
WC12c118	Area	829210	840924	14.6	76.0	0	-47.0	0.00023949				0.00000270	0.00000270
WC12c119	Area	828982	840934	29.2	38.9	0	-5.0	0.00023949				0.00000270	0.00000270
WC12c120	Area	829063	840913	32.2	14.3	0	-5.0	0.00023949				0.00000270	0.00000270
WC12c121	Area	828233	841016	76.1	190.7	0	-5.0	0.00023949				0.00000270	0.00000270
WC12d101	Area	828108	842203	142.3	129.8	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d102	Area	828015	842079	139.3	137.8	0	-67.0	0.00023949				0.00000270	0.00000270
WC12d103	Area	827985	842232	11.5	68.6	0	-67.0	0.00023949				0.00000270	0.00000270
WC12d104	Area	828033	842265	32.3	46.6	0	-66.0	0.00023949				0.00000270	0.00000270
WC12d105	Area	828001	842268	39.8	8.1	0	-66.0	0.00023949				0.00000270	0.00000270
WC12d106	Area	827978	842217	9.6	90.3	0	-67.0	0.00023949				0.00000270	0.00000270
WC12d107	Area	827981	842176	66.2	116.6	0	-67.0	0.00023949				0.00000270	0.00000270
WC12d108	Area	828193	842209	79.5	27.2	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d109	Area	828194	842039	226.8	138.0	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d110	Area	828338	842080	129.3	152.5	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d111	Area	828364	842192	47.4	165.9	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d112	Area	828419	842139	94.9	43.8	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d113	Area	828220	841908	28.8	58.7	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d114	Area	828647	841776	38.6	33.0	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d115	Area	828569	841792	18.5	98.4	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d116	Area	828543	841807	80.1	21.3	0	13.0	0.00023949				0.00000270	0.00000270
WC12d117	Area	828439	841794	27.9	121.1	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d118	Area	828410	841883	27.2	107.5	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d119	Area	828432	841866	22.3	117.8	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d120	Area	828461	841847	39.7	77.9	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d121	Area	828283	841831	69.2	20.6	0	-27.0	0.00023949				0.00000270	0.00000270
WC12d122	Area	828693	841699	35.8	67.2	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d123	Area	828767	841617	50.1	64.0	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d124	Area	828810	841576	50.0	104.1	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d125	Area	828947	841576	58.3	95.9	0	-47.0	0.00023949				0.00000270	0.00000270
WC12d126	Area	828958	841528	24.1	47.5	0	-47.0	0.00023949				0.00000270	0.00000270
WC12d127	Area	828843	841474	168.0	103.4	0	-7.0	0.00023949				0.00000270	0.00000270
WC12d128	Area	828860	841532	125.0	14.2	0	-7.0	0.00023949				0.00000270	0.00000270
WC12d129	Area	828871	841545	69.0	14.2	0	-7.0	0.00023949				0.00000270	0.00000270
WC12d130	Area	828880	841567	23.5	30.6	0	-7.0	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d131	Area	828811	841367	67.1	111.4	0	-71.0	0.00023949				0.00000270	0.00000270
WC12d132	Area	828781	841406	25.4	57.3	0	-71.0	0.00023949				0.00000270	0.00000270
WC12d133	Area	828872	841338	26.7	152.0	0	-71.0	0.00023949				0.00000270	0.00000270
WC12d134	Area	828896	841383	40.8	58.5	0	-71.0	0.00023949				0.00000270	0.00000270
WC12d135	Area	828872	841405	14.1	27.8	0	-71.0	0.00023949				0.00000270	0.00000270
WC12d136	Area	828725	841660	50.1	56.2	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d137	Area	828686	841655	42.4	21.2	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d138	Area	828667	841656	32.4	13.5	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d139	Area	828622	841781	17.9	11.9	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d140	Area	828674	841737	45.3	52.2	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d141	Area	828231	841867	50.1	18.5	0	-47.0	0.00023949				0.00000270	0.00000270
WC12d142	Area	828446	841775	10.0	65.3	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d143	Area	828416	841823	30.5	25.1	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d144	Area	828484	841830	11.4	29.1	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d145	Area	828498	841879	27.7	15.0	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d146	Area	828340	841766	24.8	18.4	0	-27.0	0.00023949				0.00000270	0.00000270
WC12d147	Area	828353	841781	35.8	18.4	0	-27.0	0.00023949				0.00000270	0.00000270
WC12d148	Area	828366	841789	21.5	6.5	0	-27.0	0.00023949				0.00000270	0.00000270
WC12d149	Area	828325	841754	10.4	12.6	0	-27.0	0.00023949				0.00000270	0.00000270
WC12d150	Area	828315	841837	18.7	15.0	0	-27.0	0.00023949				0.00000270	0.00000270
WC12d151	Area	828522	841818	50.0	7.7	0	13.0	0.00023949				0.00000270	0.00000270
WC12d152	Area	827995	842256	23.7	12.0	0	-66.0	0.00023949				0.00000270	0.00000270
WC12d153	Area	828219	842206	38.3	14.1	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d154	Area	827938	842070	99.4	8.5	0	-67.0	0.00023949				0.00000270	0.00000270
WC12d155	Area	828365	841843	31.5	11.2	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d156	Area	828994	841500	59.3	9.3	0	-22.0	0.00023949				0.00000270	0.00000270
WC12d157	Area	829038	841490	9.3	27.4	0	-82.0	0.00023949				0.00000270	0.00000270
WC12d158	Area	829136	841536	9.5	187.0	0	-62.0	0.00023949				0.00000270	0.00000270
WC12d159	Area	829241	841607	9.5	61.7	0	-42.0	0.00023949				0.00000270	0.00000270
WC12d160	Area	829288	841665	10.0	83.9	0	-37.0	0.00023949				0.00000270	0.00000270
WC12d161	Area	829376	841765	7.8	70.5	0	-44.0	0.00023949				0.00000270	0.00000270
WC12d162	Area	829332	841720	9.2	52.8	0	-42.0	0.00023949				0.00000270	0.00000270
WC12d163	Area	829229	841558	44.1	4.9	0	-82.0	0.00023949				0.00000270	0.00000270
WC12d164	Area	829223	841502	6.7	66.1	0	-14.0	0.00023949				0.00000270	0.00000270
WC12d165	Area	829213	841456	5.2	27.1	0	-6.0	0.00023949				0.00000270	0.00000270
WC12d166	Area	829216	841431	19.8	5.2	0	-71.0	0.00023949				0.00000270	0.00000270
WC12d167	Area	829218	841416	5.2	7.8	0	-21.0	0.00023949				0.00000270	0.00000270
WC12d168	Area	829197	841398	5.5	43.6	0	-53.0	0.00023949				0.00000270	0.00000270
WC12d169	Area	829172	841364	5.5	43.6	0	-8.0	0.00023949				0.00000270	0.00000270
WC12d170	Area	829165	841336	5.6	11.6	0	-23.0	0.00023949				0.00000270	0.00000270
WC12d171	Area	829165	841304	48.6	5.6	0	-83.0	0.00023949				0.00000270	0.00000270
WC12d172	Area	829165	841248	5.6	62.3	0	-8.0	0.00023949				0.00000270	0.00000270
WC12d173	Area	829161	841202	28.4	5.6	0	-88.0	0.00023949				0.00000270	0.00000270
WC12d174	Area	829167	841168	38.9	5.6	0	-78.0	0.00023949				0.00000270	0.00000270
WC12d175	Area	829169	841136	5.6	23.0	0	-8.0	0.00023949				0.00000270	0.00000270
WC12d176	Area	829154	841095	5.0	62.8	0	-28.0	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d177	Area	829126	841063	6.1	23.1	0	-78.0	0.00023949				0.00000270	0.00000270
WC12d178	Area	829099	841064	28.5	6.1	0	-13.0	0.00023949				0.00000270	0.00000270
WC21a101	Area	827916	841351	20.0	21.5	0	-53.0	0.00023949				0.00000270	0.00000270
WC21a102	Area	827945	841340	33.1	113.5	0	-53.0	0.00023949				0.00000270	0.00000270
WC21a103	Area	827929	841287	33.1	50.0	0	-53.0	0.00023949				0.00000270	0.00000270
WC21a104	Area	827947	841379	26.7	62.0	0	-53.0	0.00023949				0.00000270	0.00000270
WC21a105	Area	827904	841337	11.1	15.6	0	-53.0	0.00023949				0.00000270	0.00000270
WC21a106	Area	827898	841297	20.7	12.4	0	-53.0	0.00023949				0.00000270	0.00000270
WC21a107	Area	827892	841309	5.4	7.6	0	-53.0	0.00023949				0.00000270	0.00000270
WC26a101	Area	826287	840119	103.5	9.9	0	-32.0	0.00023949				0.00000270	0.00000270
WC26a102	Area	826287	840032	9.9	136.5	0	-29.0	0.00023949				0.00000270	0.00000270
WC26a103	Area	827718	840553	486.5	12.9	0	-10.0	0.00023949				0.00000270	0.00000270
WC26a104	Area	827364	840563	12.5	221.5	0	-74.0	0.00023949				0.00000270	0.00000270
WC26a105	Area	827176	840528	12.5	161.4	0	-87.0	0.00023949				0.00000270	0.00000270
WC26a106	Area	826958	840493	14.2	272.5	0	-77.0	0.00023949				0.00000270	0.00000270
WC26a107	Area	826744	840467	156.9	9.9	0	-2.0	0.00023949				0.00000270	0.00000270
WC26a108	Area	826599	840452	9.9	134.2	0	-72.0	0.00023949				0.00000270	0.00000270
WC26a109	Area	826477	840393	9.9	134.2	0	-57.0	0.00023949				0.00000270	0.00000270
WC26a110	Area	826370	840310	9.9	134.2	0	-47.0	0.00023949				0.00000270	0.00000270
WC26a111	Area	826286	840205	9.9	134.4	0	-32.0	0.00023949				0.00000270	0.00000270
RG609	Area	827622	842617	18.2	313.9	0	-57.0	0.00038918				0.00000270	0.00000270
RG610	Area	827791	842722	17.5	76.3	0	-60.0	0.00038918				0.00000270	0.00000270
RG611	Area	827866	842724	76.3	15.8	0	-20.0	0.00038918				0.00000270	0.00000270
RG612	Area	827928	842687	16.5	64.1	0	40.0	0.00038918				0.00000270	0.00000270
RG613	Area	827976	842467	384.4	12.9	0	-83.0	0.00038918				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height		Angle / Width	Emission Rate (g/s/sq.m)					
		X1	Y1	X2	Y2				Heavy Construction		Stockpiling		Wind Erosion	
		(m)	(m)	(m)	(m)	(m)			Daytime	Non-working Hours	Daytime	Non-working Hours	Daytime	Non-working Hours
WC10a101	Area	827316	840513	171.1	64.4	0		-1.0	0.00001437				0.000000162	0.000000162
WC10a102	Area	827551	840522	288.9	112.8	0		-6.0	0.00001437				0.000000162	0.000000162
WC10a103	Area	827443	840448	45.7	51.7	0		-6.0	0.00001437				0.000000162	0.000000162
WC10a104	Area	827347	840453	75.7	7.7	0		-21.0	0.00001437				0.000000162	0.000000162
WC10a105	Area	827543	840424	7.7	65.7	0		-86.0	0.00001437				0.000000162	0.000000162
WC10a106	Area	827826	840497	261.1	85.9	0		-6.0	0.00001437				0.000000162	0.000000162
WC10a107	Area	826666	840339	35.6	110.9	0		-56.0	0.00001437				0.000000162	0.000000162
WC10a108	Area	826888	840421	77.8	219.4	0		-71.0	0.00001437				0.000000162	0.000000162
WC10a109	Area	826751	840377	66.0	62.0	0		-66.0	0.00001437				0.000000162	0.000000162
WC10a110	Area	827070	840481	64.8	158.3	0		-76.0	0.00001437				0.000000162	0.000000162
WC10a111	Area	826655	840369	5.6	116.1	0		-66.0	0.00001437				0.000000162	0.000000162
WC10a112	Area	826680	840317	5.9	110.9	0		-51.0	0.00001437				0.000000162	0.000000162
WC10a113	Area	827189	840507	39.5	78.1	0		-81.0	0.00001437				0.000000162	0.000000162
WC10a114	Area	827690	840631	155.9	24.8	0		-71.0	0.00001437				0.000000162	0.000000162
WC10a115	Area	827400	840436	33.7	7.7	0		-11.0	0.00001437				0.000000162	0.000000162
WC10a116	Area	827486	840424	43.4	7.7	0		-1.0	0.00001437				0.000000162	0.000000162
WC10a117	Area	827465	840619	11.1	60.2	0		-6.0	0.00001437				0.000000162	0.000000162
WC10a201	Area	827410	840749	104.8	102.4	0		-15.0	0.00001437				0.000000162	0.000000162
WC10a202	Area	827489	840786	9.0	27.8	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a203	Area	827419	840802	91.4	6.1	0		-15.0	0.00001437				0.000000162	0.000000162
WC10a204	Area	827415	840811	45.3	7.1	0		-15.0	0.00001437				0.000000162	0.000000162
WC10a205	Area	827522	840784	25.4	35.1	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a206	Area	827558	840778	40.5	32.9	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a207	Area	827579	840796	13.0	15.0	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a208	Area	827579	840781	16.4	8.0	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a209	Area	827539	840764	19.7	9.0	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a210	Area	827549	840747	15.1	28.2	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a211	Area	827544	840734	8.8	13.6	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a212	Area	827531	840734	25.0	11.0	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a213	Area	827524	840727	24.3	3.1	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a214	Area	827511	840721	18.5	25.7	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a215	Area	827508	840709	4.6	14.9	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a216	Area	827497	840711	26.3	4.9	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a217	Area	827490	840710	31.7	8.1	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a218	Area	827473	840705	36.0	25.7	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a219	Area	827458	840696	24.5	5.5	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a220	Area	827471	840726	5.4	24.0	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a221	Area	827469	840730	3.0	19.4	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a222	Area	827471	840734	4.4	19.4	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a223	Area	827471	840741	8.6	14.4	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a224	Area	827471	840750	9.1	9.7	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a225	Area	827471	840759	8.5	4.7	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a226	Area	827453	840688	10.5	6.8	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a227	Area	827447	840683	4.1	7.0	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a228	Area	827461	840677	12.5	30.1	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a229	Area	827478	840683	7.6	5.5	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a230	Area	827462	840669	4.7	20.2	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a231	Area	827464	840664	4.0	11.1	0		-80.0	0.00001437				0.000000162	0.000000162
WC10a232	Area	827465	840661	2.3	6.8	0		-80.0	0.00001437				0.000000162	0.000000162
WC11a101	Area	829212	840458	224.2	57.7	0		-9.0	0.00001437				0.000000162	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height		Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC11a102	Area	829160	840525	286.5	58.1	0		-9.0	0.00001437				0.000000162	0.000000162
WC11a103	Area	829168	840579	210.4	49.9	0		-9.0	0.00001437				0.000000162	0.000000162
WC11a104	Area	829197	840617	101.5	31.7	0		-9.0	0.00001437				0.000000162	0.000000162
WC11a105	Area	828984	840508	28.3	84.5	0		-29.0	0.00001437				0.000000162	0.000000162
WC11a106	Area	829363	840519	128.7	53.9	0		-57.0	0.00001437				0.000000162	0.000000162
WC11a107	Area	829383	840549	99.6	10.0	0		-57.0	0.00001437				0.000000162	0.000000162
WC11a108	Area	829353	840474	39.1	11.5	0		-57.0	0.00001437				0.000000162	0.000000162
WC11a109	Area	829373	840420	60.7	54.7	0		-17.0	0.00001437				0.000000162	0.000000162
WC11a110	Area	829401	840452	17.6	18.7	0		-17.0	0.00001437				0.000000162	0.000000162
WC11a111	Area	828873	840705	104.6	440.1	0		-5.0	0.00001437				0.000000162	0.000000162
WC11a112	Area	828958	840754	56.0	319.2	0		-5.0	0.00001437				0.000000162	0.000000162
WC11a113	Area	829062	840739	91.6	125.9	0		-55.0	0.00001437				0.000000162	0.000000162
WC11a114	Area	829177	840796	145.0	78.9	0		-54.0	0.00001437				0.000000162	0.000000162
WC11a115	Area	828750	840702	139.4	458.3	0		-5.0	0.00001437				0.000000162	0.000000162
WC11a116	Area	829044	840862	93.6	88.0	0		-5.0	0.00001437				0.000000162	0.000000162
WC11a117	Area	829013	840797	39.7	45.6	0		-5.0	0.00001437				0.000000162	0.000000162
WC11a118	Area	829396	840554	43.8	14.4	0		-57.0	0.00001437				0.000000162	0.000000162
WC11a119	Area	829207	840844	100.4	25.5	0		-54.0	0.00001437				0.000000162	0.000000162
WC11a120	Area	829233	840837	136.3	5.7	0		-54.0	0.00001437				0.000000162	0.000000162
WC11a121	Area	829210	840897	11.6	27.6	0		-54.0	0.00001437				0.000000162	0.000000162
WC11a122	Area	829293	840926	86.0	93.5	0		-14.0	0.00001437				0.000000162	0.000000162
WC11a123	Area	829240	840921	11.1	45.2	0		-14.0	0.00001437				0.000000162	0.000000162
WC11a124	Area	829285	840870	68.1	17.6	0		-14.0	0.00001437				0.000000162	0.000000162
WC11a125	Area	829301	840850	25.1	13.3	0		-14.0	0.00001437				0.000000162	0.000000162
WC11a126	Area	829136	840867	16.9	96.9	0		-54.0	0.00001437				0.000000162	0.000000162
WC11a127	Area	829128	840715	24.1	47.6	0		-55.0	0.00001437				0.000000162	0.000000162
WC11b101	Area	828159	840896	67.1	60.3	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b102	Area	828323	840895	81.0	86.3	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b103	Area	828415	840879	102.5	100.7	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b104	Area	828229	840908	69.8	23.4	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b105	Area	828258	840860	37.8	4.5	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b106	Area	828593	840868	120.5	90.4	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b107	Area	828493	840846	56.1	47.7	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b108	Area	828503	840914	65.1	16.5	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b109	Area	828275	840921	18.5	41.6	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b110	Area	828571	840652	127.4	344.1	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b111	Area	828425	840667	158.6	317.8	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b112	Area	828328	840684	32.9	333.7	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b113	Area	828429	840497	120.7	16.9	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b114	Area	828660	840709	41.0	466.8	0		-5.0	0.00001437				0.000000162	0.000000162
WC11b201	Area	827492	840753	48.9	31.7	0		-75.0	0.00001437				0.000000162	0.000000162
WC11b202	Area	827520	840756	23.6	22.5	0		-75.0	0.00001437				0.000000162	0.000000162
WC12a101	Area	828140	841421	80.7	289.1	0		-52.0	0.00001437				0.000000162	0.000000162
WC12a102	Area	827673	841411	28.0	79.5	0		-57.0	0.00001437				0.000000162	0.000000162
WC12a103	Area	827702	841392	35.9	130.1	0		-57.0	0.00001437				0.000000162	0.000000162
WC12a104	Area	827735	841363	47.2	138.8	0		-57.0	0.00001437				0.000000162	0.000000162
WC12a105	Area	827773	841331	46.6	116.8	0		-57.0	0.00001437				0.000000162	0.000000162
WC12a106	Area	827817	841304	45.8	83.4	0		-57.0	0.00001437				0.000000162	0.000000162
WC12a107	Area	827847	841281	25.3	41.3	0		-57.0	0.00001437				0.000000162	0.000000162
WC12a108	Area	828379	841404	432.5	63.3	0		-54.0	0.00001437				0.000000162	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height		Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12a109	Area	828510	841304	139.6	19.5	0		-59.0	0.00001437				0.000000162	0.000000162
WC12a110	Area	828565	841287	53.9	58.6	0		-59.0	0.00001437				0.000000162	0.000000162
WC12a111	Area	828606	841307	37.3	27.3	0		-59.0	0.00001437				0.000000162	0.000000162
WC12a112	Area	828291	841135	23.1	43.6	0		-54.0	0.00001437				0.000000162	0.000000162
WC12a113	Area	828428	841539	141.3	167.7	0		-54.0	0.00001437				0.000000162	0.000000162
WC12a114	Area	828280	841639	8.1	92.6	0		-19.0	0.00001437				0.000000162	0.000000162
WC12a115	Area	828095	841310	30.8	499.0	0		-53.0	0.00001437				0.000000162	0.000000162
WC12a116	Area	828196	841259	29.6	397.0	0		-53.0	0.00001437				0.000000162	0.000000162
WC12a117	Area	828239	841246	42.4	344.0	0		-53.0	0.00001437				0.000000162	0.000000162
WC12a118	Area	828280	841223	41.0	300.2	0		-53.0	0.00001437				0.000000162	0.000000162
WC12a119	Area	828327	841204	41.0	248.1	0		-53.0	0.00001437				0.000000162	0.000000162
WC12a120	Area	828011	841473	19.7	114.3	0		-57.0	0.00001437				0.000000162	0.000000162
WC12a121	Area	828048	841437	52.6	41.3	0		-52.0	0.00001437				0.000000162	0.000000162
WC12a122	Area	828092	841457	32.1	52.2	0		-52.0	0.00001437				0.000000162	0.000000162
WC12a123	Area	828130	841291	36.8	465.0	0		-53.0	0.00001437				0.000000162	0.000000162
WC12a124	Area	828164	841275	29.5	429.8	0		-53.0	0.00001437				0.000000162	0.000000162
WC12a125	Area	828534	841314	23.0	29.7	0		-59.0	0.00001437				0.000000162	0.000000162
WC12a126	Area	828389	841187	21.0	172.4	0		-64.0	0.00001437				0.000000162	0.000000162
WC12a127	Area	828419	841226	21.0	75.4	0		-64.0	0.00001437				0.000000162	0.000000162
WC12a128	Area	828297	841117	11.6	11.6	0		-54.0	0.00001437				0.000000162	0.000000162
WC12a129	Area	828286	841616	14.4	40.8	0		-19.0	0.00001437				0.000000162	0.000000162
WC12b201	Area	828005	841406	52.6	60.3	0		-52.0	0.00001437				0.000000162	0.000000162
WC12b301	Area	828355	841145	15.5	111.6	0		-59.0	0.00001437				0.000000162	0.000000162
WC12b302	Area	828429	841165	22.6	198.6	0		-59.0	0.00001437				0.000000162	0.000000162
WC12b303	Area	828454	841155	20.3	165.8	0		-59.0	0.00001437				0.000000162	0.000000162
WC12b304	Area	828482	841148	20.8	125.2	0		-59.0	0.00001437				0.000000162	0.000000162
WC12b305	Area	828506	841134	28.0	98.9	0		-59.0	0.00001437				0.000000162	0.000000162
WC12b306	Area	828441	841192	9.4	83.0	0		-59.0	0.00001437				0.000000162	0.000000162
WC12b401	Area	828602	841221	95.9	151.7	0		-59.0	0.00001437				0.000000162	0.000000162
WC12b402	Area	828676	841261	83.3	16.3	0		-59.0	0.00001437				0.000000162	0.000000162
WC12b403	Area	828693	841263	61.6	14.5	0		-59.0	0.00001437				0.000000162	0.000000162
WC12b404	Area	828708	841265	47.8	12.7	0		-59.0	0.00001437				0.000000162	0.000000162
WC12b405	Area	828720	841271	40.0	12.2	0		-59.0	0.00001437				0.000000162	0.000000162
WC12c101	Area	828558	840984	37.8	135.1	0		-5.0	0.00001437				0.000000162	0.000000162
WC12c102	Area	828619	840963	79.7	103.0	0		-5.0	0.00001437				0.000000162	0.000000162
WC12c103	Area	828799	840988	274.0	112.7	0		-5.0	0.00001437				0.000000162	0.000000162
WC12c104	Area	828951	840954	33.0	72.2	0		-5.0	0.00001437				0.000000162	0.000000162
WC12c105	Area	828805	841056	219.8	23.3	0		-5.0	0.00001437				0.000000162	0.000000162
WC12c106	Area	828682	841139	116.1	263.4	0		-56.0	0.00001437				0.000000162	0.000000162
WC12c107	Area	828814	841087	132.3	39.4	0		-5.0	0.00001437				0.000000162	0.000000162
WC12c108	Area	828823	841124	57.6	35.1	0		-5.0	0.00001437				0.000000162	0.000000162
WC12c109	Area	828382	841016	219.8	167.2	0		-5.0	0.00001437				0.000000162	0.000000162
WC12c110	Area	828517	841010	48.4	179.4	0		-5.0	0.00001437				0.000000162	0.000000162
WC12c111	Area	828946	841113	424.4	115.5	0		-52.0	0.00001437				0.000000162	0.000000162
WC12c112	Area	829153	840966	60.3	170.3	0		-47.0	0.00001437				0.000000162	0.000000162
WC12c113	Area	828952	841256	156.9	68.0	0		-52.0	0.00001437				0.000000162	0.000000162
WC12c114	Area	828784	841296	43.2	35.3	0		-71.0	0.00001437				0.000000162	0.000000162
WC12c115	Area	828750	841290	35.2	33.2	0		-71.0	0.00001437				0.000000162	0.000000162
WC12c116	Area	829189	840947	15.1	163.5	0		-47.0	0.00001437				0.000000162	0.000000162
WC12c117	Area	829214	840948	14.6	124.3	0		-47.0	0.00001437				0.000000162	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height		Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12c118	Area	829210	840924	14.6	76.0	0		-47.0	0.00001437				0.000000162	0.000000162
WC12c119	Area	828982	840934	29.2	38.9	0		-5.0	0.00001437				0.000000162	0.000000162
WC12c120	Area	829063	840913	32.2	14.3	0		-5.0	0.00001437				0.000000162	0.000000162
WC12c121	Area	828233	841016	76.1	190.7	0		-5.0	0.00001437				0.000000162	0.000000162
WC12d101	Area	828108	842203	142.3	129.8	0		-64.0	0.00001437				0.000000162	0.000000162
WC12d102	Area	828015	842079	139.3	137.8	0		-67.0	0.00001437				0.000000162	0.000000162
WC12d103	Area	827985	842232	11.5	68.6	0		-67.0	0.00001437				0.000000162	0.000000162
WC12d104	Area	828033	842265	32.3	46.6	0		-66.0	0.00001437				0.000000162	0.000000162
WC12d105	Area	828001	842268	39.8	8.1	0		-66.0	0.00001437				0.000000162	0.000000162
WC12d106	Area	827978	842217	9.6	90.3	0		-67.0	0.00001437				0.000000162	0.000000162
WC12d107	Area	827981	842176	66.2	116.6	0		-67.0	0.00001437				0.000000162	0.000000162
WC12d108	Area	828193	842209	79.5	27.2	0		-64.0	0.00001437				0.000000162	0.000000162
WC12d109	Area	828194	842039	226.8	138.0	0		-64.0	0.00001437				0.000000162	0.000000162
WC12d110	Area	828338	842080	129.3	152.5	0		-64.0	0.00001437				0.000000162	0.000000162
WC12d111	Area	828364	842192	47.4	165.9	0		-64.0	0.00001437				0.000000162	0.000000162
WC12d112	Area	828419	842139	94.9	43.8	0		-64.0	0.00001437				0.000000162	0.000000162
WC12d113	Area	828220	841908	28.8	58.7	0		-64.0	0.00001437				0.000000162	0.000000162
WC12d114	Area	828647	841776	38.6	33.0	0		-77.0	0.00001437				0.000000162	0.000000162
WC12d115	Area	828569	841792	18.5	98.4	0		-77.0	0.00001437				0.000000162	0.000000162
WC12d116	Area	828543	841807	80.1	21.3	0		13.0	0.00001437				0.000000162	0.000000162
WC12d117	Area	828439	841794	27.9	121.1	0		-77.0	0.00001437				0.000000162	0.000000162
WC12d118	Area	828410	841883	27.2	107.5	0		-57.0	0.00001437				0.000000162	0.000000162
WC12d119	Area	828432	841866	22.3	117.8	0		-57.0	0.00001437				0.000000162	0.000000162
WC12d120	Area	828461	841847	39.7	77.9	0		-57.0	0.00001437				0.000000162	0.000000162
WC12d121	Area	828283	841831	69.2	20.6	0		-27.0	0.00001437				0.000000162	0.000000162
WC12d122	Area	828693	841699	35.8	67.2	0		-77.0	0.00001437				0.000000162	0.000000162
WC12d123	Area	828767	841617	50.1	64.0	0		-77.0	0.00001437				0.000000162	0.000000162
WC12d124	Area	828810	841576	50.0	104.1	0		-77.0	0.00001437				0.000000162	0.000000162
WC12d125	Area	828947	841576	58.3	95.9	0		-47.0	0.00001437				0.000000162	0.000000162
WC12d126	Area	828958	841528	24.1	47.5	0		-47.0	0.00001437				0.000000162	0.000000162
WC12d127	Area	828843	841474	168.0	103.4	0		-7.0	0.00001437				0.000000162	0.000000162
WC12d128	Area	828860	841532	125.0	14.2	0		-7.0	0.00001437				0.000000162	0.000000162
WC12d129	Area	828871	841545	69.0	14.2	0		-7.0	0.00001437				0.000000162	0.000000162
WC12d130	Area	828880	841567	23.5	30.6	0		-7.0	0.00001437				0.000000162	0.000000162
WC12d131	Area	828811	841367	67.1	111.4	0		-71.0	0.00001437				0.000000162	0.000000162
WC12d132	Area	828781	841406	25.4	57.3	0		-71.0	0.00001437				0.000000162	0.000000162
WC12d133	Area	828872	841338	26.7	152.0	0		-71.0	0.00001437				0.000000162	0.000000162
WC12d134	Area	828896	841383	40.8	58.5	0		-71.0	0.00001437				0.000000162	0.000000162
WC12d135	Area	828872	841405	14.1	27.8	0		-71.0	0.00001437				0.000000162	0.000000162
WC12d136	Area	828725	841660	50.1	56.2	0		-77.0	0.00001437				0.000000162	0.000000162
WC12d137	Area	828686	841655	42.4	21.2	0		-77.0	0.00001437				0.000000162	0.000000162
WC12d138	Area	828667	841656	32.4	13.5	0		-77.0	0.00001437				0.000000162	0.000000162
WC12d139	Area	828622	841781	17.9	11.9	0		-77.0	0.00001437				0.000000162	0.000000162
WC12d140	Area	828674	841737	45.3	52.2	0		-77.0	0.00001437				0.000000162	0.000000162
WC12d141	Area	828231	841867	50.1	18.5	0		-47.0	0.00001437				0.000000162	0.000000162
WC12d142	Area	828446	841775	10.0	65.3	0		-77.0	0.00001437				0.000000162	0.000000162
WC12d143	Area	828416	841823	30.5	25.1	0		-57.0	0.00001437				0.000000162	0.000000162
WC12d144	Area	828484	841830	11.4	29.1	0		-57.0	0.00001437				0.000000162	0.000000162
WC12d145	Area	828498	841879	27.7	15.0	0		-57.0	0.00001437				0.000000162	0.000000162
WC12d146	Area	828340	841766	24.8	18.4	0		-27.0	0.00001437				0.000000162	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height		Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d147	Area	828353	841781	35.8	18.4	0		-27.0	0.00001437				0.000000162	0.000000162
WC12d148	Area	828366	841789	21.5	6.5	0		-27.0	0.00001437				0.000000162	0.000000162
WC12d149	Area	828325	841754	10.4	12.6	0		-27.0	0.00001437				0.000000162	0.000000162
WC12d150	Area	828315	841837	18.7	15.0	0		-27.0	0.00001437				0.000000162	0.000000162
WC12d151	Area	828522	841818	50.0	7.7	0		13.0	0.00001437				0.000000162	0.000000162
WC12d152	Area	827995	842256	23.7	12.0	0		-66.0	0.00001437				0.000000162	0.000000162
WC12d153	Area	828219	842206	38.3	14.1	0		-64.0	0.00001437				0.000000162	0.000000162
WC12d154	Area	827938	842070	99.4	8.5	0		-67.0	0.00001437				0.000000162	0.000000162
WC12d155	Area	828365	841843	31.5	11.2	0		-57.0	0.00001437				0.000000162	0.000000162
WC12d156	Area	828994	841500	59.3	9.3	0		-22.0	0.00001437				0.000000162	0.000000162
WC12d157	Area	829038	841490	9.3	27.4	0		-82.0	0.00001437				0.000000162	0.000000162
WC12d158	Area	829136	841536	9.5	187.0	0		-62.0	0.00001437				0.000000162	0.000000162
WC12d159	Area	829241	841607	9.5	61.7	0		-42.0	0.00001437				0.000000162	0.000000162
WC12d160	Area	829288	841665	10.0	83.9	0		-37.0	0.00001437				0.000000162	0.000000162
WC12d161	Area	829376	841765	7.8	70.5	0		-44.0	0.00001437				0.000000162	0.000000162
WC12d162	Area	829332	841720	9.2	52.8	0		-42.0	0.00001437				0.000000162	0.000000162
WC12d163	Area	829229	841558	44.1	4.9	0		-82.0	0.00001437				0.000000162	0.000000162
WC12d164	Area	829223	841502	6.7	66.1	0		-14.0	0.00001437				0.000000162	0.000000162
WC12d165	Area	829213	841456	5.2	27.1	0		-6.0	0.00001437				0.000000162	0.000000162
WC12d166	Area	829216	841431	19.8	5.2	0		-71.0	0.00001437				0.000000162	0.000000162
WC12d167	Area	829218	841416	5.2	7.8	0		-21.0	0.00001437				0.000000162	0.000000162
WC12d168	Area	829197	841398	5.5	43.6	0		-53.0	0.00001437				0.000000162	0.000000162
WC12d169	Area	829172	841364	5.5	43.6	0		-8.0	0.00001437				0.000000162	0.000000162
WC12d170	Area	829165	841336	5.6	11.6	0		-23.0	0.00001437				0.000000162	0.000000162
WC12d171	Area	829165	841304	48.6	5.6	0		-83.0	0.00001437				0.000000162	0.000000162
WC12d172	Area	829165	841248	5.6	62.3	0		-8.0	0.00001437				0.000000162	0.000000162
WC12d173	Area	829161	841202	28.4	5.6	0		-88.0	0.00001437				0.000000162	0.000000162
WC12d174	Area	829167	841168	38.9	5.6	0		-78.0	0.00001437				0.000000162	0.000000162
WC12d175	Area	829169	841136	5.6	23.0	0		-8.0	0.00001437				0.000000162	0.000000162
WC12d176	Area	829154	841095	5.0	62.8	0		-28.0	0.00001437				0.000000162	0.000000162
WC12d177	Area	829126	841063	6.1	23.1	0		-78.0	0.00001437				0.000000162	0.000000162
WC12d178	Area	829099	841064	28.5	6.1	0		-13.0	0.00001437				0.000000162	0.000000162
WC21a101	Area	827916	841351	20.0	21.5	0		-53.0	0.00001437				0.000000162	0.000000162
WC21a102	Area	827945	841340	33.1	113.5	0		-53.0	0.00001437				0.000000162	0.000000162
WC21a103	Area	827929	841287	33.1	50.0	0		-53.0	0.00001437				0.000000162	0.000000162
WC21a104	Area	827947	841379	26.7	62.0	0		-53.0	0.00001437				0.000000162	0.000000162
WC21a105	Area	827904	841337	11.1	15.6	0		-53.0	0.00001437				0.000000162	0.000000162
WC21a106	Area	827898	841297	20.7	12.4	0		-53.0	0.00001437				0.000000162	0.000000162
WC21a107	Area	827892	841309	5.4	7.6	0		-53.0	0.00001437				0.000000162	0.000000162
WC26a101	Area	826287	840119	103.5	9.9	0		-32.0	0.00001437				0.000000162	0.000000162
WC26a102	Area	826287	840032	9.9	136.5	0		-29.0	0.00001437				0.000000162	0.000000162
WC26a103	Area	827718	840553	486.5	12.9	0		-10.0	0.00001437				0.000000162	0.000000162
WC26a104	Area	827364	840563	12.5	221.5	0		-74.0	0.00001437				0.000000162	0.000000162
WC26a105	Area	827176	840528	12.5	161.4	0		-87.0	0.00001437				0.000000162	0.000000162
WC26a106	Area	826958	840493	14.2	272.5	0		-77.0	0.00001437				0.000000162	0.000000162
WC26a107	Area	826744	840467	156.9	9.9	0		-2.0	0.00001437				0.000000162	0.000000162
WC26a108	Area	826599	840452	9.9	134.2	0		-72.0	0.00001437				0.000000162	0.000000162
WC26a109	Area	826477	840393	9.9	134.2	0		-57.0	0.00001437				0.000000162	0.000000162
WC26a110	Area	826370	840310	9.9	134.2	0		-47.0	0.00001437				0.000000162	0.000000162
WC26a111	Area	826286	840205	9.9	134.4	0		-32.0	0.00001437				0.000000162	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height		Angle / Width	Emission Rate (g/s/sq.m)					
		X1	Y1	X2	Y2				Heavy Construction		Stockpiling		Wind Erosion	
		(m)	(m)	(m)	(m)	(m)		(deg / m)	Daytime	Non-working Hours	Daytime	Non-working Hours	Daytime	Non-working Hours
RG609	Area	827622	842617	18.2	313.9	0		-57.0	0.00002335				0.000000162	0.000000162
RG610	Area	827791	842722	17.5	76.3	0		-60.0	0.00002335				0.000000162	0.000000162
RG611	Area	827866	842724	76.3	15.8	0		-20.0	0.00002335				0.000000162	0.000000162
RG612	Area	827928	842687	16.5	64.1	0		40.0	0.00002335				0.000000162	0.000000162
RG613	Area	827976	842467	384.4	12.9	0		-83.0	0.00002335				0.000000162	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr TSP concentration calculation - 2028, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC10b101	Area	828374	840423	840.1	19.5	0	-5.0	0.00023949				0.00000270	0.00000270
WC10b102	Area	828377	840463	839.8	31.5	0	-3.0	0.00023949				0.00000270	0.00000270
WC10b103	Area	828330	840497	67.0	29.8	0	-2.0	0.00023949				0.00000270	0.00000270
WC10b104	Area	828620	840472	355.6	10.0	0	-3.0	0.00023949				0.00000270	0.00000270
WC10c101	Area	829097	840412	375.2	35.3	0	-6.0	0.00023949				0.00000270	0.00000270
WC10c102	Area	829036	840367	481.5	20.0	0	-6.0	0.00023949				0.00000270	0.00000270
WC10c103	Area	829050	840472	129.4	49.1	0	-6.0	0.00023949				0.00000270	0.00000270
WC10c104	Area	829127	840433	348.3	11.8	0	-6.0	0.00023949				0.00000270	0.00000270
WC10c105	Area	828915	840315	11.8	109.5	0	-26.0	0.00023949				0.00000270	0.00000270
WC10c106	Area	828876	840256	29.5	12.4	0	33.0	0.00023949				0.00000270	0.00000270
WC10c107	Area	829317	840356	71.5	86.1	0	-6.0	0.00023949				0.00000270	0.00000270
WC10c108	Area	829335	840442	20.6	87.7	0	-6.0	0.00023949				0.00000270	0.00000270
WC10c109	Area	829218	840654	397.5	18.2	0	-54.0	0.00023949				0.00000270	0.00000270
WC10c110	Area	828954	840398	14.5	19.3	0	-26.0	0.00023949				0.00000270	0.00000270
WC10c111	Area	829462	840356	210.9	14.2	0	-6.0	0.00023949				0.00000270	0.00000270
WC10c112	Area	829437	840319	181.9	27.2	0	-6.0	0.00023949				0.00000270	0.00000270
WC10c113	Area	829659	840300	264.0	36.5	0	-6.0	0.00023949				0.00000270	0.00000270
WC10c114	Area	829663	840347	259.1	13.5	0	-8.0	0.00023949				0.00000270	0.00000270
WC10c115	Area	829873	840284	65.7	156.4	0	-86.0	0.00023949				0.00000270	0.00000270
WC10c116	Area	830009	840284	44.1	114.1	0	-86.0	0.00023949				0.00000270	0.00000270
WC10c117	Area	830028	840319	22.0	94.7	0	-86.0	0.00023949				0.00000270	0.00000270
WC10c118	Area	828838	840457	75.7	60.3	0	-6.0	0.00023949				0.00000270	0.00000270
WC10c119	Area	828885	840244	9.7	14.5	0	35.0	0.00023949				0.00000270	0.00000270
WC10c120	Area	829465	840372	70.9	16.7	0	-6.0	0.00023949				0.00000270	0.00000270
WC11b101	Area	828159	840896	67.1	60.3	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b102	Area	828323	840895	81.0	86.3	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b103	Area	828415	840879	102.5	100.7	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b104	Area	828229	840908	69.8	23.4	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b105	Area	828258	840860	37.8	4.5	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b106	Area	828593	840868	120.5	90.4	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b107	Area	828493	840846	56.1	47.7	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b108	Area	828503	840914	65.1	16.5	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b109	Area	828275	840921	18.5	41.6	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b110	Area	828571	840652	127.4	344.1	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b111	Area	828425	840667	158.6	317.8	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b112	Area	828328	840684	32.9	333.7	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b113	Area	828429	840497	120.7	16.9	0	-5.0	0.00023949				0.00000270	0.00000270
WC11b114	Area	828660	840709	41.0	466.8	0	-5.0	0.00023949				0.00000270	0.00000270
WC12d101	Area	828108	842203	142.3	129.8	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d102	Area	828015	842079	139.3	137.8	0	-67.0	0.00023949				0.00000270	0.00000270
WC12d103	Area	827985	842232	11.5	68.6	0	-67.0	0.00023949				0.00000270	0.00000270
WC12d104	Area	828033	842265	32.3	46.6	0	-66.0	0.00023949				0.00000270	0.00000270
WC12d105	Area	828001	842268	39.8	8.1	0	-66.0	0.00023949				0.00000270	0.00000270
WC12d106	Area	827978	842217	9.6	90.3	0	-67.0	0.00023949				0.00000270	0.00000270
WC12d107	Area	827981	842176	66.2	116.6	0	-67.0	0.00023949				0.00000270	0.00000270
WC12d108	Area	828193	842209	79.5	27.2	0	-64.0	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr TSP concentration calculation - 2028, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d109	Area	828194	842039	226.8	138.0	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d110	Area	828338	842080	129.3	152.5	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d111	Area	828364	842192	47.4	165.9	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d112	Area	828419	842139	94.9	43.8	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d113	Area	828220	841908	28.8	58.7	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d114	Area	828647	841776	38.6	33.0	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d115	Area	828569	841792	18.5	98.4	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d116	Area	828543	841807	80.1	21.3	0	13.0	0.00023949				0.00000270	0.00000270
WC12d117	Area	828439	841794	27.9	121.1	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d118	Area	828410	841883	27.2	107.5	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d119	Area	828432	841866	22.3	117.8	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d120	Area	828461	841847	39.7	77.9	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d121	Area	828283	841831	69.2	20.6	0	-27.0	0.00023949				0.00000270	0.00000270
WC12d122	Area	828693	841699	35.8	67.2	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d123	Area	828767	841617	50.1	64.0	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d124	Area	828810	841576	50.0	104.1	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d125	Area	828947	841576	58.3	95.9	0	-47.0	0.00023949				0.00000270	0.00000270
WC12d126	Area	828958	841528	24.1	47.5	0	-47.0	0.00023949				0.00000270	0.00000270
WC12d127	Area	828843	841474	168.0	103.4	0	-7.0	0.00023949				0.00000270	0.00000270
WC12d128	Area	828860	841532	125.0	14.2	0	-7.0	0.00023949				0.00000270	0.00000270
WC12d129	Area	828871	841545	69.0	14.2	0	-7.0	0.00023949				0.00000270	0.00000270
WC12d130	Area	828880	841567	23.5	30.6	0	-7.0	0.00023949				0.00000270	0.00000270
WC12d131	Area	828811	841367	67.1	111.4	0	-71.0	0.00023949				0.00000270	0.00000270
WC12d132	Area	828781	841406	25.4	57.3	0	-71.0	0.00023949				0.00000270	0.00000270
WC12d133	Area	828872	841338	26.7	152.0	0	-71.0	0.00023949				0.00000270	0.00000270
WC12d134	Area	828896	841383	40.8	58.5	0	-71.0	0.00023949				0.00000270	0.00000270
WC12d135	Area	828872	841405	14.1	27.8	0	-71.0	0.00023949				0.00000270	0.00000270
WC12d136	Area	828725	841660	50.1	56.2	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d137	Area	828686	841655	42.4	21.2	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d138	Area	828667	841656	32.4	13.5	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d139	Area	828622	841781	17.9	11.9	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d140	Area	828674	841737	45.3	52.2	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d141	Area	828231	841867	50.1	18.5	0	-47.0	0.00023949				0.00000270	0.00000270
WC12d142	Area	828446	841775	10.0	65.3	0	-77.0	0.00023949				0.00000270	0.00000270
WC12d143	Area	828416	841823	30.5	25.1	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d144	Area	828484	841830	11.4	29.1	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d145	Area	828498	841879	27.7	15.0	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d146	Area	828340	841766	24.8	18.4	0	-27.0	0.00023949				0.00000270	0.00000270
WC12d147	Area	828353	841781	35.8	18.4	0	-27.0	0.00023949				0.00000270	0.00000270
WC12d148	Area	828366	841789	21.5	6.5	0	-27.0	0.00023949				0.00000270	0.00000270
WC12d149	Area	828325	841754	10.4	12.6	0	-27.0	0.00023949				0.00000270	0.00000270
WC12d150	Area	828315	841837	18.7	15.0	0	-27.0	0.00023949				0.00000270	0.00000270
WC12d151	Area	828522	841818	50.0	7.7	0	13.0	0.00023949				0.00000270	0.00000270
WC12d152	Area	827995	842256	23.7	12.0	0	-66.0	0.00023949				0.00000270	0.00000270
WC12d153	Area	828219	842206	38.3	14.1	0	-64.0	0.00023949				0.00000270	0.00000270
WC12d154	Area	827938	842070	99.4	8.5	0	-67.0	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr TSP concentration calculation - 2028, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d155	Area	828365	841843	31.5	11.2	0	-57.0	0.00023949				0.00000270	0.00000270
WC12d156	Area	828994	841500	59.3	9.3	0	-22.0	0.00023949				0.00000270	0.00000270
WC12d157	Area	829038	841490	9.3	27.4	0	-82.0	0.00023949				0.00000270	0.00000270
WC12d158	Area	829136	841536	9.5	187.0	0	-62.0	0.00023949				0.00000270	0.00000270
WC12d159	Area	829241	841607	9.5	61.7	0	-42.0	0.00023949				0.00000270	0.00000270
WC12d160	Area	829288	841665	10.0	83.9	0	-37.0	0.00023949				0.00000270	0.00000270
WC12d161	Area	829376	841765	7.8	70.5	0	-44.0	0.00023949				0.00000270	0.00000270
WC12d162	Area	829332	841720	9.2	52.8	0	-42.0	0.00023949				0.00000270	0.00000270
WC12d163	Area	829229	841558	44.1	4.9	0	-82.0	0.00023949				0.00000270	0.00000270
WC12d164	Area	829223	841502	6.7	66.1	0	-14.0	0.00023949				0.00000270	0.00000270
WC12d165	Area	829213	841456	5.2	27.1	0	-6.0	0.00023949				0.00000270	0.00000270
WC12d166	Area	829216	841431	19.8	5.2	0	-71.0	0.00023949				0.00000270	0.00000270
WC12d167	Area	829218	841416	5.2	7.8	0	-21.0	0.00023949				0.00000270	0.00000270
WC12d168	Area	829197	841398	5.5	43.6	0	-53.0	0.00023949				0.00000270	0.00000270
WC12d169	Area	829172	841364	5.5	43.6	0	-8.0	0.00023949				0.00000270	0.00000270
WC12d170	Area	829165	841336	5.6	11.6	0	-23.0	0.00023949				0.00000270	0.00000270
WC12d171	Area	829165	841304	48.6	5.6	0	-83.0	0.00023949				0.00000270	0.00000270
WC12d172	Area	829165	841248	5.6	62.3	0	-8.0	0.00023949				0.00000270	0.00000270
WC12d173	Area	829161	841202	28.4	5.6	0	-88.0	0.00023949				0.00000270	0.00000270
WC12d174	Area	829167	841168	38.9	5.6	0	-78.0	0.00023949				0.00000270	0.00000270
WC12d175	Area	829169	841136	5.6	23.0	0	-8.0	0.00023949				0.00000270	0.00000270
WC12d176	Area	829154	841095	5.0	62.8	0	-28.0	0.00023949				0.00000270	0.00000270
WC12d177	Area	829126	841063	6.1	23.1	0	-78.0	0.00023949				0.00000270	0.00000270
WC12d178	Area	829099	841064	28.5	6.1	0	-13.0	0.00023949				0.00000270	0.00000270
WC26a101	Area	826287	840119	103.5	9.9	0	-32.0	0.00023949				0.00000270	0.00000270
WC26a102	Area	826287	840032	9.9	136.5	0	-29.0	0.00023949				0.00000270	0.00000270
WC26a103	Area	827718	840553	486.5	12.9	0	-10.0	0.00023949				0.00000270	0.00000270
WC26a104	Area	827364	840563	12.5	221.5	0	-74.0	0.00023949				0.00000270	0.00000270
WC26a105	Area	827176	840528	12.5	161.4	0	-87.0	0.00023949				0.00000270	0.00000270
WC26a106	Area	826958	840493	14.2	272.5	0	-77.0	0.00023949				0.00000270	0.00000270
WC26a107	Area	826744	840467	156.9	9.9	0	-2.0	0.00023949				0.00000270	0.00000270
WC26a108	Area	826599	840452	9.9	134.2	0	-72.0	0.00023949				0.00000270	0.00000270
WC26a109	Area	826477	840393	9.9	134.2	0	-57.0	0.00023949				0.00000270	0.00000270
WC26a110	Area	826370	840310	9.9	134.2	0	-47.0	0.00023949				0.00000270	0.00000270
WC26a111	Area	826286	840205	9.9	134.4	0	-32.0	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2028, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC10b101	Area	828374	840423	840.1	19.5	0	-5.0	0.00001437				0.000000162	0.000000162
WC10b102	Area	828377	840463	839.8	31.5	0	-3.0	0.00001437				0.000000162	0.000000162
WC10b103	Area	828330	840497	67.0	29.8	0	-2.0	0.00001437				0.000000162	0.000000162
WC10b104	Area	828620	840472	355.6	10.0	0	-3.0	0.00001437				0.000000162	0.000000162
WC10c101	Area	829097	840412	375.2	35.3	0	-6.0	0.00001437				0.000000162	0.000000162
WC10c102	Area	829036	840367	481.5	20.0	0	-6.0	0.00001437				0.000000162	0.000000162
WC10c103	Area	829050	840472	129.4	49.1	0	-6.0	0.00001437				0.000000162	0.000000162
WC10c104	Area	829127	840433	348.3	11.8	0	-6.0	0.00001437				0.000000162	0.000000162
WC10c105	Area	828915	840315	11.8	109.5	0	-26.0	0.00001437				0.000000162	0.000000162
WC10c106	Area	828876	840256	29.5	12.4	0	33.0	0.00001437				0.000000162	0.000000162
WC10c107	Area	829317	840356	71.5	86.1	0	-6.0	0.00001437				0.000000162	0.000000162
WC10c108	Area	829335	840442	20.6	87.7	0	-6.0	0.00001437				0.000000162	0.000000162
WC10c109	Area	829218	840654	397.5	18.2	0	-54.0	0.00001437				0.000000162	0.000000162
WC10c110	Area	828954	840398	14.5	19.3	0	-26.0	0.00001437				0.000000162	0.000000162
WC10c111	Area	829462	840356	210.9	14.2	0	-6.0	0.00001437				0.000000162	0.000000162
WC10c112	Area	829437	840319	181.9	27.2	0	-6.0	0.00001437				0.000000162	0.000000162
WC10c113	Area	829659	840300	264.0	36.5	0	-6.0	0.00001437				0.000000162	0.000000162
WC10c114	Area	829663	840347	259.1	13.5	0	-8.0	0.00001437				0.000000162	0.000000162
WC10c115	Area	829873	840284	65.7	156.4	0	-86.0	0.00001437				0.000000162	0.000000162
WC10c116	Area	830009	840284	44.1	114.1	0	-86.0	0.00001437				0.000000162	0.000000162
WC10c117	Area	830028	840319	22.0	94.7	0	-86.0	0.00001437				0.000000162	0.000000162
WC10c118	Area	828838	840457	75.7	60.3	0	-6.0	0.00001437				0.000000162	0.000000162
WC10c119	Area	828885	840244	9.7	14.5	0	35.0	0.00001437				0.000000162	0.000000162
WC10c120	Area	829465	840372	70.9	16.7	0	-6.0	0.00001437				0.000000162	0.000000162
WC11b101	Area	828159	840896	67.1	60.3	0	-5.0	0.00001437				0.000000162	0.000000162
WC11b102	Area	828323	840895	81.0	86.3	0	-5.0	0.00001437				0.000000162	0.000000162
WC11b103	Area	828415	840879	102.5	100.7	0	-5.0	0.00001437				0.000000162	0.000000162
WC11b104	Area	828229	840908	69.8	23.4	0	-5.0	0.00001437				0.000000162	0.000000162
WC11b105	Area	828258	840860	37.8	4.5	0	-5.0	0.00001437				0.000000162	0.000000162
WC11b106	Area	828593	840868	120.5	90.4	0	-5.0	0.00001437				0.000000162	0.000000162
WC11b107	Area	828493	840846	56.1	47.7	0	-5.0	0.00001437				0.000000162	0.000000162
WC11b108	Area	828503	840914	65.1	16.5	0	-5.0	0.00001437				0.000000162	0.000000162
WC11b109	Area	828275	840921	18.5	41.6	0	-5.0	0.00001437				0.000000162	0.000000162
WC11b110	Area	828571	840652	127.4	344.1	0	-5.0	0.00001437				0.000000162	0.000000162
WC11b111	Area	828425	840667	158.6	317.8	0	-5.0	0.00001437				0.000000162	0.000000162
WC11b112	Area	828328	840684	32.9	333.7	0	-5.0	0.00001437				0.000000162	0.000000162
WC11b113	Area	828429	840497	120.7	16.9	0	-5.0	0.00001437				0.000000162	0.000000162
WC11b114	Area	828660	840709	41.0	466.8	0	-5.0	0.00001437				0.000000162	0.000000162
WC12d101	Area	828108	842203	142.3	129.8	0	-64.0	0.00001437				0.000000162	0.000000162
WC12d102	Area	828015	842079	139.3	137.8	0	-67.0	0.00001437				0.000000162	0.000000162
WC12d103	Area	827985	842232	11.5	68.6	0	-67.0	0.00001437				0.000000162	0.000000162
WC12d104	Area	828033	842265	32.3	46.6	0	-66.0	0.00001437				0.000000162	0.000000162
WC12d105	Area	828001	842268	39.8	8.1	0	-66.0	0.00001437				0.000000162	0.000000162
WC12d106	Area	827978	842217	9.6	90.3	0	-67.0	0.00001437				0.000000162	0.000000162
WC12d107	Area	827981	842176	66.2	116.6	0	-67.0	0.00001437				0.000000162	0.000000162
WC12d108	Area	828193	842209	79.5	27.2	0	-64.0	0.00001437				0.000000162	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2028, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d109	Area	828194	842039	226.8	138.0	0	-64.0	0.00001437				0.000000162	0.000000162
WC12d110	Area	828338	842080	129.3	152.5	0	-64.0	0.00001437				0.000000162	0.000000162
WC12d111	Area	828364	842192	47.4	165.9	0	-64.0	0.00001437				0.000000162	0.000000162
WC12d112	Area	828419	842139	94.9	43.8	0	-64.0	0.00001437				0.000000162	0.000000162
WC12d113	Area	828220	841908	28.8	58.7	0	-64.0	0.00001437				0.000000162	0.000000162
WC12d114	Area	828647	841776	38.6	33.0	0	-77.0	0.00001437				0.000000162	0.000000162
WC12d115	Area	828569	841792	18.5	98.4	0	-77.0	0.00001437				0.000000162	0.000000162
WC12d116	Area	828543	841807	80.1	21.3	0	13.0	0.00001437				0.000000162	0.000000162
WC12d117	Area	828439	841794	27.9	121.1	0	-77.0	0.00001437				0.000000162	0.000000162
WC12d118	Area	828410	841883	27.2	107.5	0	-57.0	0.00001437				0.000000162	0.000000162
WC12d119	Area	828432	841866	22.3	117.8	0	-57.0	0.00001437				0.000000162	0.000000162
WC12d120	Area	828461	841847	39.7	77.9	0	-57.0	0.00001437				0.000000162	0.000000162
WC12d121	Area	828283	841831	69.2	20.6	0	-27.0	0.00001437				0.000000162	0.000000162
WC12d122	Area	828693	841699	35.8	67.2	0	-77.0	0.00001437				0.000000162	0.000000162
WC12d123	Area	828767	841617	50.1	64.0	0	-77.0	0.00001437				0.000000162	0.000000162
WC12d124	Area	828810	841576	50.0	104.1	0	-77.0	0.00001437				0.000000162	0.000000162
WC12d125	Area	828947	841576	58.3	95.9	0	-47.0	0.00001437				0.000000162	0.000000162
WC12d126	Area	828958	841528	24.1	47.5	0	-47.0	0.00001437				0.000000162	0.000000162
WC12d127	Area	828843	841474	168.0	103.4	0	-7.0	0.00001437				0.000000162	0.000000162
WC12d128	Area	828860	841532	125.0	14.2	0	-7.0	0.00001437				0.000000162	0.000000162
WC12d129	Area	828871	841545	69.0	14.2	0	-7.0	0.00001437				0.000000162	0.000000162
WC12d130	Area	828880	841567	23.5	30.6	0	-7.0	0.00001437				0.000000162	0.000000162
WC12d131	Area	828811	841367	67.1	111.4	0	-71.0	0.00001437				0.000000162	0.000000162
WC12d132	Area	828781	841406	25.4	57.3	0	-71.0	0.00001437				0.000000162	0.000000162
WC12d133	Area	828872	841338	26.7	152.0	0	-71.0	0.00001437				0.000000162	0.000000162
WC12d134	Area	828896	841383	40.8	58.5	0	-71.0	0.00001437				0.000000162	0.000000162
WC12d135	Area	828872	841405	14.1	27.8	0	-71.0	0.00001437				0.000000162	0.000000162
WC12d136	Area	828725	841660	50.1	56.2	0	-77.0	0.00001437				0.000000162	0.000000162
WC12d137	Area	828686	841655	42.4	21.2	0	-77.0	0.00001437				0.000000162	0.000000162
WC12d138	Area	828667	841656	32.4	13.5	0	-77.0	0.00001437				0.000000162	0.000000162
WC12d139	Area	828622	841781	17.9	11.9	0	-77.0	0.00001437				0.000000162	0.000000162
WC12d140	Area	828674	841737	45.3	52.2	0	-77.0	0.00001437				0.000000162	0.000000162
WC12d141	Area	828231	841867	50.1	18.5	0	-47.0	0.00001437				0.000000162	0.000000162
WC12d142	Area	828446	841775	10.0	65.3	0	-77.0	0.00001437				0.000000162	0.000000162
WC12d143	Area	828416	841823	30.5	25.1	0	-57.0	0.00001437				0.000000162	0.000000162
WC12d144	Area	828484	841830	11.4	29.1	0	-57.0	0.00001437				0.000000162	0.000000162
WC12d145	Area	828498	841879	27.7	15.0	0	-57.0	0.00001437				0.000000162	0.000000162
WC12d146	Area	828340	841766	24.8	18.4	0	-27.0	0.00001437				0.000000162	0.000000162
WC12d147	Area	828353	841781	35.8	18.4	0	-27.0	0.00001437				0.000000162	0.000000162
WC12d148	Area	828366	841789	21.5	6.5	0	-27.0	0.00001437				0.000000162	0.000000162
WC12d149	Area	828325	841754	10.4	12.6	0	-27.0	0.00001437				0.000000162	0.000000162
WC12d150	Area	828315	841837	18.7	15.0	0	-27.0	0.00001437				0.000000162	0.000000162
WC12d151	Area	828522	841818	50.0	7.7	0	13.0	0.00001437				0.000000162	0.000000162
WC12d152	Area	827995	842256	23.7	12.0	0	-66.0	0.00001437				0.000000162	0.000000162
WC12d153	Area	828219	842206	38.3	14.1	0	-64.0	0.00001437				0.000000162	0.000000162
WC12d154	Area	827938	842070	99.4	8.5	0	-67.0	0.00001437				0.000000162	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2028, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d155	Area	828365	841843	31.5	11.2	0	-57.0	0.00001437				0.000000162	0.000000162
WC12d156	Area	828994	841500	59.3	9.3	0	-22.0	0.00001437				0.000000162	0.000000162
WC12d157	Area	829038	841490	9.3	27.4	0	-82.0	0.00001437				0.000000162	0.000000162
WC12d158	Area	829136	841536	9.5	187.0	0	-62.0	0.00001437				0.000000162	0.000000162
WC12d159	Area	829241	841607	9.5	61.7	0	-42.0	0.00001437				0.000000162	0.000000162
WC12d160	Area	829288	841665	10.0	83.9	0	-37.0	0.00001437				0.000000162	0.000000162
WC12d161	Area	829376	841765	7.8	70.5	0	-44.0	0.00001437				0.000000162	0.000000162
WC12d162	Area	829332	841720	9.2	52.8	0	-42.0	0.00001437				0.000000162	0.000000162
WC12d163	Area	829229	841558	44.1	4.9	0	-82.0	0.00001437				0.000000162	0.000000162
WC12d164	Area	829223	841502	6.7	66.1	0	-14.0	0.00001437				0.000000162	0.000000162
WC12d165	Area	829213	841456	5.2	27.1	0	-6.0	0.00001437				0.000000162	0.000000162
WC12d166	Area	829216	841431	19.8	5.2	0	-71.0	0.00001437				0.000000162	0.000000162
WC12d167	Area	829218	841416	5.2	7.8	0	-21.0	0.00001437				0.000000162	0.000000162
WC12d168	Area	829197	841398	5.5	43.6	0	-53.0	0.00001437				0.000000162	0.000000162
WC12d169	Area	829172	841364	5.5	43.6	0	-8.0	0.00001437				0.000000162	0.000000162
WC12d170	Area	829165	841336	5.6	11.6	0	-23.0	0.00001437				0.000000162	0.000000162
WC12d171	Area	829165	841304	48.6	5.6	0	-83.0	0.00001437				0.000000162	0.000000162
WC12d172	Area	829165	841248	5.6	62.3	0	-8.0	0.00001437				0.000000162	0.000000162
WC12d173	Area	829161	841202	28.4	5.6	0	-88.0	0.00001437				0.000000162	0.000000162
WC12d174	Area	829167	841168	38.9	5.6	0	-78.0	0.00001437				0.000000162	0.000000162
WC12d175	Area	829169	841136	5.6	23.0	0	-8.0	0.00001437				0.000000162	0.000000162
WC12d176	Area	829154	841095	5.0	62.8	0	-28.0	0.00001437				0.000000162	0.000000162
WC12d177	Area	829126	841063	6.1	23.1	0	-78.0	0.00001437				0.000000162	0.000000162
WC12d178	Area	829099	841064	28.5	6.1	0	-13.0	0.00001437				0.000000162	0.000000162
WC26a101	Area	826287	840119	103.5	9.9	0	-32.0	0.00001437				0.000000162	0.000000162
WC26a102	Area	826287	840032	9.9	136.5	0	-29.0	0.00001437				0.000000162	0.000000162
WC26a103	Area	827718	840553	486.5	12.9	0	-10.0	0.00001437				0.000000162	0.000000162
WC26a104	Area	827364	840563	12.5	221.5	0	-74.0	0.00001437				0.000000162	0.000000162
WC26a105	Area	827176	840528	12.5	161.4	0	-87.0	0.00001437				0.000000162	0.000000162
WC26a106	Area	826958	840493	14.2	272.5	0	-77.0	0.00001437				0.000000162	0.000000162
WC26a107	Area	826744	840467	156.9	9.9	0	-2.0	0.00001437				0.000000162	0.000000162
WC26a108	Area	826599	840452	9.9	134.2	0	-72.0	0.00001437				0.000000162	0.000000162
WC26a109	Area	826477	840393	9.9	134.2	0	-57.0	0.00001437				0.000000162	0.000000162
WC26a110	Area	826370	840310	9.9	134.2	0	-47.0	0.00001437				0.000000162	0.000000162
WC26a111	Area	826286	840205	9.9	134.4	0	-32.0	0.00001437				0.000000162	0.000000162

Project: 25278 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	refer to Appendix 3.2 for Justification
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):	0.000001135	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):	0.000018920	calculated, 12 working hours per day

Project: 25278 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	refer to Appendix 3.2 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)	0.0000001617	calculated, 24-hour emission

Mitigated (Day Time)

Active operating area (%):	6	refer to Appendix 3.2 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)	0.0000000128	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)	0.0000026953	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)	0.0000002129	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	estimated based on the construction schedule
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):	0.000001845	calculated, 8 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:	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 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	estimated based on the construction schedule
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)	0.0000001617	calculated, 24-hour emission

Mitigated (Day Time)

Active operating area (%):	6	estimated based on the construction schedule
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)	0.0000000128	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)	0.0000026953	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)	0.0000002129	calculated, 24-hour emission

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2018, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC03a101	Area	828180	840454	300.9	16.5	0	-3.0	0.00001892				0.00000021	0.00000270
WC03a102	Area	828403	840441	144.5	16.9	0	-4.0	0.00001892				0.00000021	0.00000270
WC03a103	Area	828710	840419	474.3	17.7	0	-4.0	0.00001892				0.00000021	0.00000270
WC03a104	Area	829038	840396	153.1	17.7	0	-4.0	0.00001892				0.00000021	0.00000270
WC03a105	Area	829386	840356	548.9	17.7	0	-7.0	0.00001892				0.00000021	0.00000270
WC03a106	Area	829777	840322	17.7	233.1	0	-89.0	0.00001892				0.00000021	0.00000270
WC03a107	Area	829938	840318	86.6	17.5	0	-9.0	0.00001892				0.00000021	0.00000270
WC03b101	Area	828929	840505	18.5	184.4	0	-24.0	0.00001892				0.00000021	0.00000270
WC03b102	Area	829001	840619	18.6	50.1	0	-44.0	0.00001892				0.00000021	0.00000270
WC03b103	Area	829063	840656	18.6	87.6	0	-64.0	0.00001892				0.00000021	0.00000270
WC03b104	Area	829172	840699	17.2	142.6	0	-71.0	0.00001892				0.00000021	0.00000270
WC03b105	Area	829289	840782	18.6	141.6	0	-39.0	0.00001892				0.00000021	0.00000270
WC03b106	Area	829346	840908	20.8	133.2	0	-13.0	0.00001892				0.00000021	0.00000270
WC03b107	Area	829382	841043	146.7	19.4	0	73.0	0.00001892				0.00000021	0.00000270
WC03b108	Area	829446	841182	151.3	21.9	0	56.0	0.00001892				0.00000021	0.00000270
WC04a101	Area	827466	840625	15.8	46.9	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a102	Area	827487	840675	9.0	57.4	0	-35.0	0.00001892				0.00000021	0.00000270
WC04a103	Area	827537	840703	16.3	59.8	0	-65.0	0.00001892				0.00000021	0.00000270
WC04a104	Area	827618	840752	58.5	103.6	0	-35.0	0.00001892				0.00000021	0.00000270
WC04a105	Area	827641	840720	14.9	67.5	0	-35.0	0.00001892				0.00000021	0.00000270
WC04a106	Area	827709	840840	31.1	141.0	0	-55.0	0.00001892				0.00000021	0.00000270
WC04a107	Area	827792	840919	29.7	78.6	0	-25.0	0.00001892				0.00000021	0.00000270
WC04a108	Area	828020	841035	352.6	194.0	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a109	Area	827813	841016	52.1	110.8	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a110	Area	827820	841083	53.2	24.1	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a111	Area	827826	841106	43.3	19.0	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a112	Area	827836	841127	27.7	22.0	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a113	Area	827856	841167	11.7	38.1	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a114	Area	827867	841216	14.3	60.1	0	-15.0	0.00001892				0.00000021	0.00000270
WC04a115	Area	827878	841277	9.9	58.3	0	0.0	0.00001892				0.00000021	0.00000270
WC04a116	Area	827888	841336	9.9	58.8	0	-20.0	0.00001892				0.00000021	0.00000270
WC04a117	Area	827906	841375	8.9	22.3	0	-40.0	0.00001892				0.00000021	0.00000270
WC04a118	Area	827966	841422	7.9	126.5	0	-53.0	0.00001892				0.00000021	0.00000270
WC04a119	Area	828110	841492	6.8	115.9	0	-83.0	0.00001892				0.00000021	0.00000270
WC04a120	Area	828085	841499	10.3	12.5	0	-83.0	0.00001892				0.00000021	0.00000270
WC04a121	Area	828193	841518	5.2	60.6	0	-53.0	0.00001892				0.00000021	0.00000270
WC04a122	Area	828233	841565	8.1	61.0	0	-23.0	0.00001892				0.00000021	0.00000270
WC04a123	Area	828233	841639	73.1	79.8	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a124	Area	828178	841623	8.7	15.2	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a125	Area	828194	841647	6.7	69.6	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a126	Area	828196	841595	80.4	26.4	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a127	Area	828172	841569	23.8	38.8	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a128	Area	828194	841565	20.3	32.3	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a129	Area	828214	841570	14.1	9.6	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a130	Area	828281	841707	16.3	75.8	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a131	Area	828315	841784	25.0	87.8	0	-23.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2018, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC04a132	Area	828371	841812	56.2	25.7	0	-3.0	0.00001892				0.00000021	0.00000270
WC04a133	Area	828207	841562	5.9	9.6	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a134	Area	828156	841580	13.8	26.2	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a135	Area	828131	841488	6.8	41.2	0	-83.0	0.00001892				0.00000021	0.00000270
WC04a136	Area	828058	841478	7.4	26.1	0	-83.0	0.00001892				0.00000021	0.00000270
WC04a137	Area	828030	841469	5.6	32.6	0	-53.0	0.00001892				0.00000021	0.00000270
WC04b101	Area	827854	840618	51.3	198.5	0	-5.0	0.00001892				0.00000021	0.00000270
WC04b102	Area	827809	840633	41.9	177.1	0	-5.0	0.00001892				0.00000021	0.00000270
WC04b103	Area	827737	840645	102.6	171.0	0	-5.0	0.00001892				0.00000021	0.00000270
WC04b104	Area	827676	840697	25.8	89.0	0	-5.0	0.00001892				0.00000021	0.00000270
WC04b105	Area	827647	840704	11.0	42.1	0	-35.0	0.00001892				0.00000021	0.00000270
WC04b106	Area	827652	840692	8.2	26.1	0	-35.0	0.00001892				0.00000021	0.00000270
WC04b201	Area	827925	840615	90.7	204.8	0	-5.0	0.00001892				0.00000021	0.00000270
WC04b202	Area	828044	840600	146.8	213.1	0	-5.0	0.00001892				0.00000021	0.00000270
WC09a101	Area	829014	841834	75.5	68.6	0	-31.0	0.00001892				0.00000021	0.00000270
WC09a102	Area	829043	841881	101.1	40.5	0	-31.0	0.00001892				0.00000021	0.00000270
WC09a103	Area	829072	841924	117.5	60.5	0	-31.0	0.00001892				0.00000021	0.00000270
WC09a104	Area	829104	841970	118.2	51.2	0	-31.0	0.00001892				0.00000021	0.00000270
WC09a105	Area	829156	841980	57.6	19.0	0	-31.0	0.00001892				0.00000021	0.00000270
WC09b101	Area	828348	841850	39.2	4.7	0	81.0	0.00001892				0.00000021	0.00000270
WC09b102	Area	828399	841899	108.2	4.4	0	32.0	0.00001892				0.00000021	0.00000270
WC09b103	Area	828485	841908	84.3	4.4	0	-26.0	0.00001892				0.00000021	0.00000270
WC09b104	Area	828552	841891	55.2	4.4	0	4.0	0.00001892				0.00000021	0.00000270
WC09b105	Area	828624	841923	105.4	4.4	0	34.0	0.00001892				0.00000021	0.00000270
WC09b106	Area	828715	841951	91.7	4.3	0	-1.0	0.00001892				0.00000021	0.00000270
WC09b107	Area	828824	841980	42.0	3.6	0	31.0	0.00001892				0.00000021	0.00000270
WC09b108	Area	828878	842016	88.9	2.9	0	34.0	0.00001892				0.00000021	0.00000270
WC09b109	Area	828934	842037	17.0	6.5	0	-26.0	0.00001892				0.00000021	0.00000270
WC09b110	Area	828950	842012	20.8	3.9	0	-66.0	0.00001892				0.00000021	0.00000270
WC09b111	Area	828996	841981	23.9	5.2	0	-6.0	0.00001892				0.00000021	0.00000270
WC09b112	Area	829018	841983	4.4	21.0	0	-76.0	0.00001892				0.00000021	0.00000270
WC09b113	Area	829036	841985	13.2	5.1	0	-6.0	0.00001892				0.00000021	0.00000270
WC09b114	Area	828968	841991	34.3	5.5	0	-36.0	0.00001892				0.00000021	0.00000270
WC09b115	Area	828945	842027	11.9	3.9	0	-76.0	0.00001892				0.00000021	0.00000270
WC09b116	Area	828783	841960	46.4	3.6	0	21.0	0.00001892				0.00000021	0.00000270
WC09c101	Area	829275	841856	285.8	14.2	0	-24.0	0.00001892				0.00000021	0.00000270
WC09c102	Area	829456	841806	12.1	90.4	0	-81.0	0.00001892				0.00000021	0.00000270
WC09c103	Area	829536	841829	10.4	72.9	0	-66.0	0.00001892				0.00000021	0.00000270
WC09c104	Area	829606	841857	9.7	78.1	0	-66.0	0.00001892				0.00000021	0.00000270
WC09c105	Area	829662	841878	10.0	39.2	0	-76.0	0.00001892				0.00000021	0.00000270
WC09c106	Area	829690	841895	10.0	19.7	0	-38.0	0.00001892				0.00000021	0.00000270
WC21b101	Area	827994	841306	79.0	76.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b102	Area	827954	841255	46.5	49.2	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b103	Area	827914	841225	46.5	49.2	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b104	Area	827903	841271	41.1	10.7	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b105	Area	827898	841262	31.0	7.4	0	-53.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2018, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		X1	Y1	X2	Y2			Heavy Construction		Stockpiling		Wind Erosion	
		(m)	(m)	(m)	(m)	(m)	(deg / m)	Daytime	Non-working Hours	Daytime	Non-working Hours	Daytime	Non-working Hours
WC21b106	Area	827895	841253	20.9	7.4	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b107	Area	827891	841245	11.7	8.7	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b108	Area	827889	841196	29.5	25.1	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b109	Area	827882	841215	9.1	13.3	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b110	Area	827877	841182	21.3	10.2	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b111	Area	827873	841173	11.3	8.2	0	-53.0	0.00001892				0.00000021	0.00000270
WC31a101	Area	827626	840604	104.1	60.3	0	-10.0	0.00001892				0.00000021	0.00000270
WC31a102	Area	827619	840650	73.9	28.2	0	-10.0	0.00001892				0.00000021	0.00000270
WC31a103	Area	827623	840673	72.8	19.1	0	-10.0	0.00001892				0.00000021	0.00000270
WC31a104	Area	827613	840687	48.1	4.0	0	-10.0	0.00001892				0.00000021	0.00000270
WC31a105	Area	827598	840694	16.8	5.6	0	-10.0	0.00001892				0.00000021	0.00000270
WC31a106	Area	827669	840639	27.7	24.0	0	-10.0	0.00001892				0.00000021	0.00000270
WC33b101	Area	828374	841243	249.9	116.4	0	-53.0	0.00001892				0.00000021	0.00000270
WC33b102	Area	828263	841239	284.2	64.1	0	-53.0	0.00001892				0.00000021	0.00000270
WC33b103	Area	828481	841131	57.6	67.7	0	-53.0	0.00001892				0.00000021	0.00000270
WC33b104	Area	828253	841326	27.1	22.4	0	-53.0	0.00001892				0.00000021	0.00000270
WC33b105	Area	828205	841220	244.9	51.6	0	-53.0	0.00001892				0.00000021	0.00000270
WC33b106	Area	828142	841209	179.8	61.2	0	-53.0	0.00001892				0.00000021	0.00000270
WC33b107	Area	828076	841198	117.9	59.2	0	-53.0	0.00001892				0.00000021	0.00000270
WC33b108	Area	828019	841179	80.0	53.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC33b109	Area	827966	841168	33.2	45.9	0	-53.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2018, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC03a101	Area	828180	840454	300.9	16.5	0	-3.0	0.00000114				0.000000013	0.000000162
WC03a102	Area	828403	840441	144.5	16.9	0	-4.0	0.00000114				0.000000013	0.000000162
WC03a103	Area	828710	840419	474.3	17.7	0	-4.0	0.00000114				0.000000013	0.000000162
WC03a104	Area	829038	840396	153.1	17.7	0	-4.0	0.00000114				0.000000013	0.000000162
WC03a105	Area	829386	840356	548.9	17.7	0	-7.0	0.00000114				0.000000013	0.000000162
WC03a106	Area	829777	840322	17.7	233.1	0	-89.0	0.00000114				0.000000013	0.000000162
WC03a107	Area	829938	840318	86.6	17.5	0	-9.0	0.00000114				0.000000013	0.000000162
WC03b101	Area	828929	840505	18.5	184.4	0	-24.0	0.00000114				0.000000013	0.000000162
WC03b102	Area	829001	840619	18.6	50.1	0	-44.0	0.00000114				0.000000013	0.000000162
WC03b103	Area	829063	840656	18.6	87.6	0	-64.0	0.00000114				0.000000013	0.000000162
WC03b104	Area	829172	840699	17.2	142.6	0	-71.0	0.00000114				0.000000013	0.000000162
WC03b105	Area	829289	840782	18.6	141.6	0	-39.0	0.00000114				0.000000013	0.000000162
WC03b106	Area	829346	840908	20.8	133.2	0	-13.0	0.00000114				0.000000013	0.000000162
WC03b107	Area	829382	841043	146.7	19.4	0	73.0	0.00000114				0.000000013	0.000000162
WC03b108	Area	829446	841182	151.3	21.9	0	56.0	0.00000114				0.000000013	0.000000162
WC04a101	Area	827466	840625	15.8	46.9	0	-5.0	0.00000114				0.000000013	0.000000162
WC04a102	Area	827487	840675	9.0	57.4	0	-35.0	0.00000114				0.000000013	0.000000162
WC04a103	Area	827537	840703	16.3	59.8	0	-65.0	0.00000114				0.000000013	0.000000162
WC04a104	Area	827618	840752	58.5	103.6	0	-35.0	0.00000114				0.000000013	0.000000162
WC04a105	Area	827641	840720	14.9	67.5	0	-35.0	0.00000114				0.000000013	0.000000162
WC04a106	Area	827709	840840	31.1	141.0	0	-55.0	0.00000114				0.000000013	0.000000162
WC04a107	Area	827792	840919	29.7	78.6	0	-25.0	0.00000114				0.000000013	0.000000162
WC04a108	Area	828020	841035	352.6	194.0	0	-5.0	0.00000114				0.000000013	0.000000162
WC04a109	Area	827813	841016	52.1	110.8	0	-5.0	0.00000114				0.000000013	0.000000162
WC04a110	Area	827820	841083	53.2	24.1	0	-5.0	0.00000114				0.000000013	0.000000162
WC04a111	Area	827826	841106	43.3	19.0	0	-5.0	0.00000114				0.000000013	0.000000162
WC04a112	Area	827836	841127	27.7	22.0	0	-5.0	0.00000114				0.000000013	0.000000162
WC04a113	Area	827856	841167	11.7	38.1	0	-5.0	0.00000114				0.000000013	0.000000162
WC04a114	Area	827867	841216	14.3	60.1	0	-15.0	0.00000114				0.000000013	0.000000162
WC04a115	Area	827878	841277	9.9	58.3	0	0.0	0.00000114				0.000000013	0.000000162
WC04a116	Area	827888	841336	9.9	58.8	0	-20.0	0.00000114				0.000000013	0.000000162
WC04a117	Area	827906	841375	8.9	22.3	0	-40.0	0.00000114				0.000000013	0.000000162
WC04a118	Area	827966	841422	7.9	126.5	0	-53.0	0.00000114				0.000000013	0.000000162
WC04a119	Area	828110	841492	6.8	115.9	0	-83.0	0.00000114				0.000000013	0.000000162
WC04a120	Area	828085	841499	10.3	12.5	0	-83.0	0.00000114				0.000000013	0.000000162
WC04a121	Area	828193	841518	5.2	60.6	0	-53.0	0.00000114				0.000000013	0.000000162
WC04a122	Area	828233	841565	8.1	61.0	0	-23.0	0.00000114				0.000000013	0.000000162
WC04a123	Area	828233	841639	73.1	79.8	0	-18.0	0.00000114				0.000000013	0.000000162
WC04a124	Area	828178	841623	8.7	15.2	0	-18.0	0.00000114				0.000000013	0.000000162
WC04a125	Area	828194	841647	6.7	69.6	0	-18.0	0.00000114				0.000000013	0.000000162
WC04a126	Area	828196	841595	80.4	26.4	0	-18.0	0.00000114				0.000000013	0.000000162
WC04a127	Area	828172	841569	23.8	38.8	0	-18.0	0.00000114				0.000000013	0.000000162
WC04a128	Area	828194	841565	20.3	32.3	0	-18.0	0.00000114				0.000000013	0.000000162
WC04a129	Area	828214	841570	14.1	9.6	0	-18.0	0.00000114				0.000000013	0.000000162
WC04a130	Area	828281	841707	16.3	75.8	0	-18.0	0.00000114				0.000000013	0.000000162
WC04a131	Area	828315	841784	25.0	87.8	0	-23.0	0.00000114				0.000000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2018, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC04a132	Area	828371	841812	56.2	25.7	0	-3.0	0.00000114				0.000000013	0.000000162
WC04a133	Area	828207	841562	5.9	9.6	0	-18.0	0.00000114				0.000000013	0.000000162
WC04a134	Area	828156	841580	13.8	26.2	0	-18.0	0.00000114				0.000000013	0.000000162
WC04a135	Area	828131	841488	6.8	41.2	0	-83.0	0.00000114				0.000000013	0.000000162
WC04a136	Area	828058	841478	7.4	26.1	0	-83.0	0.00000114				0.000000013	0.000000162
WC04a137	Area	828030	841469	5.6	32.6	0	-53.0	0.00000114				0.000000013	0.000000162
WC04b101	Area	827854	840618	51.3	198.5	0	-5.0	0.00000114				0.000000013	0.000000162
WC04b102	Area	827809	840633	41.9	177.1	0	-5.0	0.00000114				0.000000013	0.000000162
WC04b103	Area	827737	840645	102.6	171.0	0	-5.0	0.00000114				0.000000013	0.000000162
WC04b104	Area	827676	840697	25.8	89.0	0	-5.0	0.00000114				0.000000013	0.000000162
WC04b105	Area	827647	840704	11.0	42.1	0	-35.0	0.00000114				0.000000013	0.000000162
WC04b106	Area	827652	840692	8.2	26.1	0	-35.0	0.00000114				0.000000013	0.000000162
WC04b201	Area	827925	840615	90.7	204.8	0	-5.0	0.00000114				0.000000013	0.000000162
WC04b202	Area	828044	840600	146.8	213.1	0	-5.0	0.00000114				0.000000013	0.000000162
WC09a101	Area	829014	841834	75.5	68.6	0	-31.0	0.00000114				0.000000013	0.000000162
WC09a102	Area	829043	841881	101.1	40.5	0	-31.0	0.00000114				0.000000013	0.000000162
WC09a103	Area	829072	841924	117.5	60.5	0	-31.0	0.00000114				0.000000013	0.000000162
WC09a104	Area	829104	841970	118.2	51.2	0	-31.0	0.00000114				0.000000013	0.000000162
WC09a105	Area	829156	841980	57.6	19.0	0	-31.0	0.00000114				0.000000013	0.000000162
WC09b101	Area	828348	841850	39.2	4.7	0	81.0	0.00000114				0.000000013	0.000000162
WC09b102	Area	828399	841899	108.2	4.4	0	32.0	0.00000114				0.000000013	0.000000162
WC09b103	Area	828485	841908	84.3	4.4	0	-26.0	0.00000114				0.000000013	0.000000162
WC09b104	Area	828552	841891	55.2	4.4	0	4.0	0.00000114				0.000000013	0.000000162
WC09b105	Area	828624	841923	105.4	4.4	0	34.0	0.00000114				0.000000013	0.000000162
WC09b106	Area	828715	841951	91.7	4.3	0	-1.0	0.00000114				0.000000013	0.000000162
WC09b107	Area	828824	841980	42.0	3.6	0	31.0	0.00000114				0.000000013	0.000000162
WC09b108	Area	828878	842016	88.9	2.9	0	34.0	0.00000114				0.000000013	0.000000162
WC09b109	Area	828934	842037	17.0	6.5	0	-26.0	0.00000114				0.000000013	0.000000162
WC09b110	Area	828950	842012	20.8	3.9	0	-66.0	0.00000114				0.000000013	0.000000162
WC09b111	Area	828996	841981	23.9	5.2	0	-6.0	0.00000114				0.000000013	0.000000162
WC09b112	Area	829018	841983	4.4	21.0	0	-76.0	0.00000114				0.000000013	0.000000162
WC09b113	Area	829036	841985	13.2	5.1	0	-6.0	0.00000114				0.000000013	0.000000162
WC09b114	Area	828968	841991	34.3	5.5	0	-36.0	0.00000114				0.000000013	0.000000162
WC09b115	Area	828945	842027	11.9	3.9	0	-76.0	0.00000114				0.000000013	0.000000162
WC09b116	Area	828783	841960	46.4	3.6	0	21.0	0.00000114				0.000000013	0.000000162
WC09c101	Area	829275	841856	285.8	14.2	0	-24.0	0.00000114				0.000000013	0.000000162
WC09c102	Area	829456	841806	12.1	90.4	0	-81.0	0.00000114				0.000000013	0.000000162
WC09c103	Area	829536	841829	10.4	72.9	0	-66.0	0.00000114				0.000000013	0.000000162
WC09c104	Area	829606	841857	9.7	78.1	0	-66.0	0.00000114				0.000000013	0.000000162
WC09c105	Area	829662	841878	10.0	39.2	0	-76.0	0.00000114				0.000000013	0.000000162
WC09c106	Area	829690	841895	10.0	19.7	0	-38.0	0.00000114				0.000000013	0.000000162
WC21b101	Area	827994	841306	79.0	76.0	0	-53.0	0.00000114				0.000000013	0.000000162
WC21b102	Area	827954	841255	46.5	49.2	0	-53.0	0.00000114				0.000000013	0.000000162
WC21b103	Area	827914	841225	46.5	49.2	0	-53.0	0.00000114				0.000000013	0.000000162
WC21b104	Area	827903	841271	41.1	10.7	0	-53.0	0.00000114				0.000000013	0.000000162
WC21b105	Area	827898	841262	31.0	7.4	0	-53.0	0.00000114				0.000000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2018, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC21b106	Area	827895	841253	20.9	7.4	0	-53.0	0.00000114				0.00000013	0.000000162
WC21b107	Area	827891	841245	11.7	8.7	0	-53.0	0.00000114				0.00000013	0.000000162
WC21b108	Area	827889	841196	29.5	25.1	0	-53.0	0.00000114				0.00000013	0.000000162
WC21b109	Area	827882	841215	9.1	13.3	0	-53.0	0.00000114				0.00000013	0.000000162
WC21b110	Area	827877	841182	21.3	10.2	0	-53.0	0.00000114				0.00000013	0.000000162
WC21b111	Area	827873	841173	11.3	8.2	0	-53.0	0.00000114				0.00000013	0.000000162
WC31a101	Area	827626	840604	104.1	60.3	0	-10.0	0.00000114				0.00000013	0.000000162
WC31a102	Area	827619	840650	73.9	28.2	0	-10.0	0.00000114				0.00000013	0.000000162
WC31a103	Area	827623	840673	72.8	19.1	0	-10.0	0.00000114				0.00000013	0.000000162
WC31a104	Area	827613	840687	48.1	4.0	0	-10.0	0.00000114				0.00000013	0.000000162
WC31a105	Area	827598	840694	16.8	5.6	0	-10.0	0.00000114				0.00000013	0.000000162
WC31a106	Area	827669	840639	27.7	24.0	0	-10.0	0.00000114				0.00000013	0.000000162
WC33b101	Area	828374	841243	249.9	116.4	0	-53.0	0.00000114				0.00000013	0.000000162
WC33b102	Area	828263	841239	284.2	64.1	0	-53.0	0.00000114				0.00000013	0.000000162
WC33b103	Area	828481	841131	57.6	67.7	0	-53.0	0.00000114				0.00000013	0.000000162
WC33b104	Area	828253	841326	27.1	22.4	0	-53.0	0.00000114				0.00000013	0.000000162
WC33b105	Area	828205	841220	244.9	51.6	0	-53.0	0.00000114				0.00000013	0.000000162
WC33b106	Area	828142	841209	179.8	61.2	0	-53.0	0.00000114				0.00000013	0.000000162
WC33b107	Area	828076	841198	117.9	59.2	0	-53.0	0.00000114				0.00000013	0.000000162
WC33b108	Area	828019	841179	80.0	53.0	0	-53.0	0.00000114				0.00000013	0.000000162
WC33b109	Area	827966	841168	33.2	45.9	0	-53.0	0.00000114				0.00000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC10a101	Area	827316	840513	171.1	64.4	0	-1.0	0.00001892				0.00000021	0.00000270
WC10a102	Area	827551	840522	288.9	112.8	0	-6.0	0.00001892				0.00000021	0.00000270
WC10a103	Area	827443	840448	45.7	51.7	0	-6.0	0.00001892				0.00000021	0.00000270
WC10a104	Area	827347	840453	75.7	7.7	0	-21.0	0.00001892				0.00000021	0.00000270
WC10a105	Area	827543	840424	7.7	65.7	0	-86.0	0.00001892				0.00000021	0.00000270
WC10a106	Area	827826	840497	261.1	85.9	0	-6.0	0.00001892				0.00000021	0.00000270
WC10a107	Area	826666	840339	35.6	110.9	0	-56.0	0.00001892				0.00000021	0.00000270
WC10a108	Area	826888	840421	77.8	219.4	0	-71.0	0.00001892				0.00000021	0.00000270
WC10a109	Area	826751	840377	66.0	62.0	0	-66.0	0.00001892				0.00000021	0.00000270
WC10a110	Area	827070	840481	64.8	158.3	0	-76.0	0.00001892				0.00000021	0.00000270
WC10a111	Area	826655	840369	5.6	116.1	0	-66.0	0.00001892				0.00000021	0.00000270
WC10a112	Area	826680	840317	5.9	110.9	0	-51.0	0.00001892				0.00000021	0.00000270
WC10a113	Area	827189	840507	39.5	78.1	0	-81.0	0.00001892				0.00000021	0.00000270
WC10a114	Area	827690	840631	155.9	24.8	0	-71.0	0.00001892				0.00000021	0.00000270
WC10a115	Area	827400	840436	33.7	7.7	0	-11.0	0.00001892				0.00000021	0.00000270
WC10a116	Area	827486	840424	43.4	7.7	0	-1.0	0.00001892				0.00000021	0.00000270
WC10a117	Area	827465	840619	11.1	60.2	0	-6.0	0.00001892				0.00000021	0.00000270
WC10a201	Area	827410	840749	104.8	102.4	0	-15.0	0.00001892				0.00000021	0.00000270
WC10a202	Area	827489	840786	9.0	27.8	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a203	Area	827419	840802	91.4	6.1	0	-15.0	0.00001892				0.00000021	0.00000270
WC10a204	Area	827415	840811	45.3	7.1	0	-15.0	0.00001892				0.00000021	0.00000270
WC10a205	Area	827522	840784	25.4	35.1	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a206	Area	827558	840778	40.5	32.9	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a207	Area	827579	840796	13.0	15.0	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a208	Area	827579	840781	16.4	8.0	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a209	Area	827539	840764	19.7	9.0	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a210	Area	827549	840747	15.1	28.2	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a211	Area	827544	840734	8.8	13.6	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a212	Area	827531	840734	25.0	11.0	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a213	Area	827524	840727	24.3	3.1	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a214	Area	827511	840721	18.5	25.7	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a215	Area	827508	840709	4.6	14.9	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a216	Area	827497	840711	26.3	4.9	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a217	Area	827490	840710	31.7	8.1	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a218	Area	827473	840705	36.0	25.7	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a219	Area	827458	840696	24.5	5.5	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a220	Area	827471	840726	5.4	24.0	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a221	Area	827469	840730	3.0	19.4	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a222	Area	827471	840734	4.4	19.4	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a223	Area	827471	840741	8.6	14.4	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a224	Area	827471	840750	9.1	9.7	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a225	Area	827471	840759	8.5	4.7	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a226	Area	827453	840688	10.5	6.8	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a227	Area	827447	840683	4.1	7.0	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a228	Area	827461	840677	12.5	30.1	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a229	Area	827478	840683	7.6	5.5	0	-80.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC10a230	Area	827462	840669	4.7	20.2	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a231	Area	827464	840664	4.0	11.1	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a232	Area	827465	840661	2.3	6.8	0	-80.0	0.00001892				0.00000021	0.00000270
WC11a101	Area	829212	840458	224.2	57.7	0	-9.0	0.00001892				0.00000021	0.00000270
WC11a102	Area	829160	840525	286.5	58.1	0	-9.0	0.00001892				0.00000021	0.00000270
WC11a103	Area	829168	840579	210.4	49.9	0	-9.0	0.00001892				0.00000021	0.00000270
WC11a104	Area	829197	840617	101.5	31.7	0	-9.0	0.00001892				0.00000021	0.00000270
WC11a105	Area	828984	840508	28.3	84.5	0	-29.0	0.00001892				0.00000021	0.00000270
WC11a106	Area	829363	840519	128.7	53.9	0	-57.0	0.00001892				0.00000021	0.00000270
WC11a107	Area	829383	840549	99.6	10.0	0	-57.0	0.00001892				0.00000021	0.00000270
WC11a108	Area	829353	840474	39.1	11.5	0	-57.0	0.00001892				0.00000021	0.00000270
WC11a109	Area	829373	840420	60.7	54.7	0	-17.0	0.00001892				0.00000021	0.00000270
WC11a110	Area	829401	840452	17.6	18.7	0	-17.0	0.00001892				0.00000021	0.00000270
WC11a111	Area	828873	840705	104.6	440.1	0	-5.0	0.00001892				0.00000021	0.00000270
WC11a112	Area	828958	840754	56.0	319.2	0	-5.0	0.00001892				0.00000021	0.00000270
WC11a113	Area	829062	840739	91.6	125.9	0	-55.0	0.00001892				0.00000021	0.00000270
WC11a114	Area	829177	840796	145.0	78.9	0	-54.0	0.00001892				0.00000021	0.00000270
WC11a115	Area	828750	840702	139.4	458.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC11a116	Area	829044	840862	93.6	88.0	0	-5.0	0.00001892				0.00000021	0.00000270
WC11a117	Area	829013	840797	39.7	45.6	0	-5.0	0.00001892				0.00000021	0.00000270
WC11a118	Area	829396	840554	43.8	14.4	0	-57.0	0.00001892				0.00000021	0.00000270
WC11a119	Area	829207	840844	100.4	25.5	0	-54.0	0.00001892				0.00000021	0.00000270
WC11a120	Area	829233	840837	136.3	5.7	0	-54.0	0.00001892				0.00000021	0.00000270
WC11a121	Area	829210	840897	11.6	27.6	0	-54.0	0.00001892				0.00000021	0.00000270
WC11a122	Area	829293	840926	86.0	93.5	0	-14.0	0.00001892				0.00000021	0.00000270
WC11a123	Area	829240	840921	11.1	45.2	0	-14.0	0.00001892				0.00000021	0.00000270
WC11a124	Area	829285	840870	68.1	17.6	0	-14.0	0.00001892				0.00000021	0.00000270
WC11a125	Area	829301	840850	25.1	13.3	0	-14.0	0.00001892				0.00000021	0.00000270
WC11a126	Area	829136	840867	16.9	96.9	0	-54.0	0.00001892				0.00000021	0.00000270
WC11a127	Area	829128	840715	24.1	47.6	0	-55.0	0.00001892				0.00000021	0.00000270
WC11b101	Area	828159	840896	67.1	60.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b102	Area	828323	840895	81.0	86.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b103	Area	828415	840879	102.5	100.7	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b104	Area	828229	840908	69.8	23.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b105	Area	828258	840860	37.8	4.5	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b106	Area	828593	840868	120.5	90.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b107	Area	828493	840846	56.1	47.7	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b108	Area	828503	840914	65.1	16.5	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b109	Area	828275	840921	18.5	41.6	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b110	Area	828571	840652	127.4	344.1	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b111	Area	828425	840667	158.6	317.8	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b112	Area	828328	840684	32.9	333.7	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b113	Area	828429	840497	120.7	16.9	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b114	Area	828660	840709	41.0	466.8	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b201	Area	827492	840753	48.9	31.7	0	-75.0	0.00001892				0.00000021	0.00000270
WC11b202	Area	827520	840756	23.6	22.5	0	-75.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12a101	Area	828140	841421	80.7	289.1	0	-52.0	0.00001892				0.00000021	0.00000270
WC12a102	Area	827673	841411	28.0	79.5	0	-57.0	0.00001892				0.00000021	0.00000270
WC12a103	Area	827702	841392	35.9	130.1	0	-57.0	0.00001892				0.00000021	0.00000270
WC12a104	Area	827735	841363	47.2	138.8	0	-57.0	0.00001892				0.00000021	0.00000270
WC12a105	Area	827773	841331	46.6	116.8	0	-57.0	0.00001892				0.00000021	0.00000270
WC12a106	Area	827817	841304	45.8	83.4	0	-57.0	0.00001892				0.00000021	0.00000270
WC12a107	Area	827847	841281	25.3	41.3	0	-57.0	0.00001892				0.00000021	0.00000270
WC12a108	Area	828379	841404	432.5	63.3	0	-54.0	0.00001892				0.00000021	0.00000270
WC12a109	Area	828510	841304	139.6	19.5	0	-59.0	0.00001892				0.00000021	0.00000270
WC12a110	Area	828565	841287	53.9	58.6	0	-59.0	0.00001892				0.00000021	0.00000270
WC12a111	Area	828606	841307	37.3	27.3	0	-59.0	0.00001892				0.00000021	0.00000270
WC12a112	Area	828291	841135	23.1	43.6	0	-54.0	0.00001892				0.00000021	0.00000270
WC12a113	Area	828428	841539	141.3	167.7	0	-54.0	0.00001892				0.00000021	0.00000270
WC12a114	Area	828280	841639	8.1	92.6	0	-19.0	0.00001892				0.00000021	0.00000270
WC12a115	Area	828095	841310	30.8	499.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a116	Area	828196	841259	29.6	397.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a117	Area	828239	841246	42.4	344.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a118	Area	828280	841223	41.0	300.2	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a119	Area	828327	841204	41.0	248.1	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a120	Area	828011	841473	19.7	114.3	0	-57.0	0.00001892				0.00000021	0.00000270
WC12a121	Area	828048	841437	52.6	41.3	0	-52.0	0.00001892				0.00000021	0.00000270
WC12a122	Area	828092	841457	32.1	52.2	0	-52.0	0.00001892				0.00000021	0.00000270
WC12a123	Area	828130	841291	36.8	465.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a124	Area	828164	841275	29.5	429.8	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a125	Area	828534	841314	23.0	29.7	0	-59.0	0.00001892				0.00000021	0.00000270
WC12a126	Area	828389	841187	21.0	172.4	0	-64.0	0.00001892				0.00000021	0.00000270
WC12a127	Area	828419	841226	21.0	75.4	0	-64.0	0.00001892				0.00000021	0.00000270
WC12a128	Area	828297	841117	11.6	11.6	0	-54.0	0.00001892				0.00000021	0.00000270
WC12a129	Area	828286	841616	14.4	40.8	0	-19.0	0.00001892				0.00000021	0.00000270
WC12b201	Area	828005	841406	52.6	60.3	0	-52.0	0.00001892				0.00000021	0.00000270
WC12b301	Area	828355	841145	15.5	111.6	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b302	Area	828429	841165	22.6	198.6	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b303	Area	828454	841155	20.3	165.8	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b304	Area	828482	841148	20.8	125.2	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b305	Area	828506	841134	28.0	98.9	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b306	Area	828441	841192	9.4	83.0	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b401	Area	828602	841221	95.9	151.7	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b402	Area	828676	841261	83.3	16.3	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b403	Area	828693	841263	61.6	14.5	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b404	Area	828708	841265	47.8	12.7	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b405	Area	828720	841271	40.0	12.2	0	-59.0	0.00001892				0.00000021	0.00000270
WC12c101	Area	828558	840984	37.8	135.1	0	-5.0	0.00001892				0.00000021	0.00000270
WC12c102	Area	828619	840963	79.7	103.0	0	-5.0	0.00001892				0.00000021	0.00000270
WC12c103	Area	828799	840988	274.0	112.7	0	-5.0	0.00001892				0.00000021	0.00000270
WC12c104	Area	828951	840954	33.0	72.2	0	-5.0	0.00001892				0.00000021	0.00000270
WC12c105	Area	828805	841056	219.8	23.3	0	-5.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12c106	Area	828682	841139	116.1	263.4	0	-56.0	0.00001892				0.00000021	0.00000270
WC12c107	Area	828814	841087	132.3	39.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC12c108	Area	828823	841124	57.6	35.1	0	-5.0	0.00001892				0.00000021	0.00000270
WC12c109	Area	828382	841016	219.8	167.2	0	-5.0	0.00001892				0.00000021	0.00000270
WC12c110	Area	828517	841010	48.4	179.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC12c111	Area	828946	841113	424.4	115.5	0	-52.0	0.00001892				0.00000021	0.00000270
WC12c112	Area	829153	840966	60.3	170.3	0	-47.0	0.00001892				0.00000021	0.00000270
WC12c113	Area	828952	841256	156.9	68.0	0	-52.0	0.00001892				0.00000021	0.00000270
WC12c114	Area	828784	841296	43.2	35.3	0	-71.0	0.00001892				0.00000021	0.00000270
WC12c115	Area	828750	841290	35.2	33.2	0	-71.0	0.00001892				0.00000021	0.00000270
WC12c116	Area	829189	840947	15.1	163.5	0	-47.0	0.00001892				0.00000021	0.00000270
WC12c117	Area	829214	840948	14.6	124.3	0	-47.0	0.00001892				0.00000021	0.00000270
WC12c118	Area	829210	840924	14.6	76.0	0	-47.0	0.00001892				0.00000021	0.00000270
WC12c119	Area	828982	840934	29.2	38.9	0	-5.0	0.00001892				0.00000021	0.00000270
WC12c120	Area	829063	840913	32.2	14.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC12c121	Area	828233	841016	76.1	190.7	0	-5.0	0.00001892				0.00000021	0.00000270
WC12d101	Area	828108	842203	142.3	129.8	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d102	Area	828015	842079	139.3	137.8	0	-67.0	0.00001892				0.00000021	0.00000270
WC12d103	Area	827985	842232	11.5	68.6	0	-67.0	0.00001892				0.00000021	0.00000270
WC12d104	Area	828033	842265	32.3	46.6	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d105	Area	828001	842268	39.8	8.1	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d106	Area	827978	842217	9.6	90.3	0	-67.0	0.00001892				0.00000021	0.00000270
WC12d107	Area	827981	842176	66.2	116.6	0	-67.0	0.00001892				0.00000021	0.00000270
WC12d108	Area	828193	842209	79.5	27.2	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d109	Area	828194	842039	226.8	138.0	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d110	Area	828338	842080	129.3	152.5	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d111	Area	828364	842192	47.4	165.9	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d112	Area	828419	842139	94.9	43.8	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d113	Area	828220	841908	28.8	58.7	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d114	Area	828647	841776	38.6	33.0	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d115	Area	828569	841792	18.5	98.4	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d116	Area	828543	841807	80.1	21.3	0	13.0	0.00001892				0.00000021	0.00000270
WC12d117	Area	828439	841794	27.9	121.1	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d118	Area	828410	841883	27.2	107.5	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d119	Area	828432	841866	22.3	117.8	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d120	Area	828461	841847	39.7	77.9	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d121	Area	828283	841831	69.2	20.6	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d122	Area	828693	841699	35.8	67.2	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d123	Area	828767	841617	50.1	64.0	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d124	Area	828810	841576	50.0	104.1	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d125	Area	828947	841576	58.3	95.9	0	-47.0	0.00001892				0.00000021	0.00000270
WC12d126	Area	828958	841528	24.1	47.5	0	-47.0	0.00001892				0.00000021	0.00000270
WC12d127	Area	828843	841474	168.0	103.4	0	-7.0	0.00001892				0.00000021	0.00000270
WC12d128	Area	828860	841532	125.0	14.2	0	-7.0	0.00001892				0.00000021	0.00000270
WC12d129	Area	828871	841545	69.0	14.2	0	-7.0	0.00001892				0.00000021	0.00000270
WC12d130	Area	828880	841567	23.5	30.6	0	-7.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d131	Area	828811	841367	67.1	111.4	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d132	Area	828781	841406	25.4	57.3	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d133	Area	828872	841338	26.7	152.0	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d134	Area	828896	841383	40.8	58.5	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d135	Area	828872	841405	14.1	27.8	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d136	Area	828725	841660	50.1	56.2	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d137	Area	828686	841655	42.4	21.2	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d138	Area	828667	841656	32.4	13.5	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d139	Area	828622	841781	17.9	11.9	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d140	Area	828674	841737	45.3	52.2	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d141	Area	828231	841867	50.1	18.5	0	-47.0	0.00001892				0.00000021	0.00000270
WC12d142	Area	828446	841775	10.0	65.3	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d143	Area	828416	841823	30.5	25.1	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d144	Area	828484	841830	11.4	29.1	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d145	Area	828498	841879	27.7	15.0	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d146	Area	828340	841766	24.8	18.4	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d147	Area	828353	841781	35.8	18.4	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d148	Area	828366	841789	21.5	6.5	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d149	Area	828325	841754	10.4	12.6	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d150	Area	828315	841837	18.7	15.0	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d151	Area	828522	841818	50.0	7.7	0	13.0	0.00001892				0.00000021	0.00000270
WC12d152	Area	827995	842256	23.7	12.0	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d153	Area	828219	842206	38.3	14.1	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d154	Area	827938	842070	99.4	8.5	0	-67.0	0.00001892				0.00000021	0.00000270
WC12d155	Area	828365	841843	31.5	11.2	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d156	Area	828994	841500	59.3	9.3	0	-22.0	0.00001892				0.00000021	0.00000270
WC12d157	Area	829038	841490	9.3	27.4	0	-82.0	0.00001892				0.00000021	0.00000270
WC12d158	Area	829136	841536	9.5	187.0	0	-62.0	0.00001892				0.00000021	0.00000270
WC12d159	Area	829241	841607	9.5	61.7	0	-42.0	0.00001892				0.00000021	0.00000270
WC12d160	Area	829288	841665	10.0	83.9	0	-37.0	0.00001892				0.00000021	0.00000270
WC12d161	Area	829376	841765	7.8	70.5	0	-44.0	0.00001892				0.00000021	0.00000270
WC12d162	Area	829332	841720	9.2	52.8	0	-42.0	0.00001892				0.00000021	0.00000270
WC12d163	Area	829229	841558	44.1	4.9	0	-82.0	0.00001892				0.00000021	0.00000270
WC12d164	Area	829223	841502	6.7	66.1	0	-14.0	0.00001892				0.00000021	0.00000270
WC12d165	Area	829213	841456	5.2	27.1	0	-6.0	0.00001892				0.00000021	0.00000270
WC12d166	Area	829216	841431	19.8	5.2	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d167	Area	829218	841416	5.2	7.8	0	-21.0	0.00001892				0.00000021	0.00000270
WC12d168	Area	829197	841398	5.5	43.6	0	-53.0	0.00001892				0.00000021	0.00000270
WC12d169	Area	829172	841364	5.5	43.6	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d170	Area	829165	841336	5.6	11.6	0	-23.0	0.00001892				0.00000021	0.00000270
WC12d171	Area	829165	841304	48.6	5.6	0	-83.0	0.00001892				0.00000021	0.00000270
WC12d172	Area	829165	841248	5.6	62.3	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d173	Area	829161	841202	28.4	5.6	0	-88.0	0.00001892				0.00000021	0.00000270
WC12d174	Area	829167	841168	38.9	5.6	0	-78.0	0.00001892				0.00000021	0.00000270
WC12d175	Area	829169	841136	5.6	23.0	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d176	Area	829154	841095	5.0	62.8	0	-28.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d177	Area	829126	841063	6.1	23.1	0	-78.0	0.00001892				0.00000021	0.00000270
WC12d178	Area	829099	841064	28.5	6.1	0	-13.0	0.00001892				0.00000021	0.00000270
WC21a101	Area	827916	841351	20.0	21.5	0	-53.0	0.00001892				0.00000021	0.00000270
WC21a102	Area	827945	841340	33.1	113.5	0	-53.0	0.00001892				0.00000021	0.00000270
WC21a103	Area	827929	841287	33.1	50.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC21a104	Area	827947	841379	26.7	62.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC21a105	Area	827904	841337	11.1	15.6	0	-53.0	0.00001892				0.00000021	0.00000270
WC21a106	Area	827898	841297	20.7	12.4	0	-53.0	0.00001892				0.00000021	0.00000270
WC21a107	Area	827892	841309	5.4	7.6	0	-53.0	0.00001892				0.00000021	0.00000270
WC26a101	Area	826287	840119	103.5	9.9	0	-32.0	0.00001892				0.00000021	0.00000270
WC26a102	Area	826287	840032	9.9	136.5	0	-29.0	0.00001892				0.00000021	0.00000270
WC26a103	Area	827718	840553	486.5	12.9	0	-10.0	0.00001892				0.00000021	0.00000270
WC26a104	Area	827364	840563	12.5	221.5	0	-74.0	0.00001892				0.00000021	0.00000270
WC26a105	Area	827176	840528	12.5	161.4	0	-87.0	0.00001892				0.00000021	0.00000270
WC26a106	Area	826958	840493	14.2	272.5	0	-77.0	0.00001892				0.00000021	0.00000270
WC26a107	Area	826744	840467	156.9	9.9	0	-2.0	0.00001892				0.00000021	0.00000270
WC26a108	Area	826599	840452	9.9	134.2	0	-72.0	0.00001892				0.00000021	0.00000270
WC26a109	Area	826477	840393	9.9	134.2	0	-57.0	0.00001892				0.00000021	0.00000270
WC26a110	Area	826370	840310	9.9	134.2	0	-47.0	0.00001892				0.00000021	0.00000270
WC26a111	Area	826286	840205	9.9	134.4	0	-32.0	0.00001892				0.00000021	0.00000270
RG609	Area	827622	842617	18.2	313.9	0	-57.0	0.00003075				0.00000021	0.00000270
RG610	Area	827791	842722	17.5	76.3	0	-60.0	0.00003075				0.00000021	0.00000270
RG611	Area	827866	842724	76.3	15.8	0	-20.0	0.00003075				0.00000021	0.00000270
RG612	Area	827928	842687	16.5	64.1	0	40.0	0.00003075				0.00000021	0.00000270
RG613	Area	827976	842467	384.4	12.9	0	-83.0	0.00003075				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC10a101	Area	827316	840513	171.1	64.4	0	-1.0	0.00000114				0.000000013	0.000000162
WC10a102	Area	827551	840522	288.9	112.8	0	-6.0	0.00000114				0.000000013	0.000000162
WC10a103	Area	827443	840448	45.7	51.7	0	-6.0	0.00000114				0.000000013	0.000000162
WC10a104	Area	827347	840453	75.7	7.7	0	-21.0	0.00000114				0.000000013	0.000000162
WC10a105	Area	827543	840424	7.7	65.7	0	-86.0	0.00000114				0.000000013	0.000000162
WC10a106	Area	827826	840497	261.1	85.9	0	-6.0	0.00000114				0.000000013	0.000000162
WC10a107	Area	826666	840339	35.6	110.9	0	-56.0	0.00000114				0.000000013	0.000000162
WC10a108	Area	826888	840421	77.8	219.4	0	-71.0	0.00000114				0.000000013	0.000000162
WC10a109	Area	826751	840377	66.0	62.0	0	-66.0	0.00000114				0.000000013	0.000000162
WC10a110	Area	827070	840481	64.8	158.3	0	-76.0	0.00000114				0.000000013	0.000000162
WC10a111	Area	826655	840369	5.6	116.1	0	-66.0	0.00000114				0.000000013	0.000000162
WC10a112	Area	826680	840317	5.9	110.9	0	-51.0	0.00000114				0.000000013	0.000000162
WC10a113	Area	827189	840507	39.5	78.1	0	-81.0	0.00000114				0.000000013	0.000000162
WC10a114	Area	827690	840631	155.9	24.8	0	-71.0	0.00000114				0.000000013	0.000000162
WC10a115	Area	827400	840436	33.7	7.7	0	-11.0	0.00000114				0.000000013	0.000000162
WC10a116	Area	827486	840424	43.4	7.7	0	-1.0	0.00000114				0.000000013	0.000000162
WC10a117	Area	827465	840619	11.1	60.2	0	-6.0	0.00000114				0.000000013	0.000000162
WC10a201	Area	827410	840749	104.8	102.4	0	-15.0	0.00000114				0.000000013	0.000000162
WC10a202	Area	827489	840786	9.0	27.8	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a203	Area	827419	840802	91.4	6.1	0	-15.0	0.00000114				0.000000013	0.000000162
WC10a204	Area	827415	840811	45.3	7.1	0	-15.0	0.00000114				0.000000013	0.000000162
WC10a205	Area	827522	840784	25.4	35.1	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a206	Area	827558	840778	40.5	32.9	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a207	Area	827579	840796	13.0	15.0	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a208	Area	827579	840781	16.4	8.0	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a209	Area	827539	840764	19.7	9.0	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a210	Area	827549	840747	15.1	28.2	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a211	Area	827544	840734	8.8	13.6	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a212	Area	827531	840734	25.0	11.0	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a213	Area	827524	840727	24.3	3.1	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a214	Area	827511	840721	18.5	25.7	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a215	Area	827508	840709	4.6	14.9	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a216	Area	827497	840711	26.3	4.9	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a217	Area	827490	840710	31.7	8.1	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a218	Area	827473	840705	36.0	25.7	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a219	Area	827458	840696	24.5	5.5	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a220	Area	827471	840726	5.4	24.0	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a221	Area	827469	840730	3.0	19.4	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a222	Area	827471	840734	4.4	19.4	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a223	Area	827471	840741	8.6	14.4	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a224	Area	827471	840750	9.1	9.7	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a225	Area	827471	840759	8.5	4.7	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a226	Area	827453	840688	10.5	6.8	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a227	Area	827447	840683	4.1	7.0	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a228	Area	827461	840677	12.5	30.1	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a229	Area	827478	840683	7.6	5.5	0	-80.0	0.00000114				0.000000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC10a230	Area	827462	840669	4.7	20.2	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a231	Area	827464	840664	4.0	11.1	0	-80.0	0.00000114				0.000000013	0.000000162
WC10a232	Area	827465	840661	2.3	6.8	0	-80.0	0.00000114				0.000000013	0.000000162
WC11a101	Area	829212	840458	224.2	57.7	0	-9.0	0.00000114				0.000000013	0.000000162
WC11a102	Area	829160	840525	286.5	58.1	0	-9.0	0.00000114				0.000000013	0.000000162
WC11a103	Area	829168	840579	210.4	49.9	0	-9.0	0.00000114				0.000000013	0.000000162
WC11a104	Area	829197	840617	101.5	31.7	0	-9.0	0.00000114				0.000000013	0.000000162
WC11a105	Area	828984	840508	28.3	84.5	0	-29.0	0.00000114				0.000000013	0.000000162
WC11a106	Area	829363	840519	128.7	53.9	0	-57.0	0.00000114				0.000000013	0.000000162
WC11a107	Area	829383	840549	99.6	10.0	0	-57.0	0.00000114				0.000000013	0.000000162
WC11a108	Area	829353	840474	39.1	11.5	0	-57.0	0.00000114				0.000000013	0.000000162
WC11a109	Area	829373	840420	60.7	54.7	0	-17.0	0.00000114				0.000000013	0.000000162
WC11a110	Area	829401	840452	17.6	18.7	0	-17.0	0.00000114				0.000000013	0.000000162
WC11a111	Area	828873	840705	104.6	440.1	0	-5.0	0.00000114				0.000000013	0.000000162
WC11a112	Area	828958	840754	56.0	319.2	0	-5.0	0.00000114				0.000000013	0.000000162
WC11a113	Area	829062	840739	91.6	125.9	0	-55.0	0.00000114				0.000000013	0.000000162
WC11a114	Area	829177	840796	145.0	78.9	0	-54.0	0.00000114				0.000000013	0.000000162
WC11a115	Area	828750	840702	139.4	458.3	0	-5.0	0.00000114				0.000000013	0.000000162
WC11a116	Area	829044	840862	93.6	88.0	0	-5.0	0.00000114				0.000000013	0.000000162
WC11a117	Area	829013	840797	39.7	45.6	0	-5.0	0.00000114				0.000000013	0.000000162
WC11a118	Area	829396	840554	43.8	14.4	0	-57.0	0.00000114				0.000000013	0.000000162
WC11a119	Area	829207	840844	100.4	25.5	0	-54.0	0.00000114				0.000000013	0.000000162
WC11a120	Area	829233	840837	136.3	5.7	0	-54.0	0.00000114				0.000000013	0.000000162
WC11a121	Area	829210	840897	11.6	27.6	0	-54.0	0.00000114				0.000000013	0.000000162
WC11a122	Area	829293	840926	86.0	93.5	0	-14.0	0.00000114				0.000000013	0.000000162
WC11a123	Area	829240	840921	11.1	45.2	0	-14.0	0.00000114				0.000000013	0.000000162
WC11a124	Area	829285	840870	68.1	17.6	0	-14.0	0.00000114				0.000000013	0.000000162
WC11a125	Area	829301	840850	25.1	13.3	0	-14.0	0.00000114				0.000000013	0.000000162
WC11a126	Area	829136	840867	16.9	96.9	0	-54.0	0.00000114				0.000000013	0.000000162
WC11a127	Area	829128	840715	24.1	47.6	0	-55.0	0.00000114				0.000000013	0.000000162
WC11b101	Area	828159	840896	67.1	60.3	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b102	Area	828323	840895	81.0	86.3	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b103	Area	828415	840879	102.5	100.7	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b104	Area	828229	840908	69.8	23.4	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b105	Area	828258	840860	37.8	4.5	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b106	Area	828593	840868	120.5	90.4	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b107	Area	828493	840846	56.1	47.7	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b108	Area	828503	840914	65.1	16.5	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b109	Area	828275	840921	18.5	41.6	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b110	Area	828571	840652	127.4	344.1	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b111	Area	828425	840667	158.6	317.8	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b112	Area	828328	840684	32.9	333.7	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b113	Area	828429	840497	120.7	16.9	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b114	Area	828660	840709	41.0	466.8	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b201	Area	827492	840753	48.9	31.7	0	-75.0	0.00000114				0.000000013	0.000000162
WC11b202	Area	827520	840756	23.6	22.5	0	-75.0	0.00000114				0.000000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12a101	Area	828140	841421	80.7	289.1	0	-52.0	0.00000114				0.000000013	0.000000162
WC12a102	Area	827673	841411	28.0	79.5	0	-57.0	0.00000114				0.000000013	0.000000162
WC12a103	Area	827702	841392	35.9	130.1	0	-57.0	0.00000114				0.000000013	0.000000162
WC12a104	Area	827735	841363	47.2	138.8	0	-57.0	0.00000114				0.000000013	0.000000162
WC12a105	Area	827773	841331	46.6	116.8	0	-57.0	0.00000114				0.000000013	0.000000162
WC12a106	Area	827817	841304	45.8	83.4	0	-57.0	0.00000114				0.000000013	0.000000162
WC12a107	Area	827847	841281	25.3	41.3	0	-57.0	0.00000114				0.000000013	0.000000162
WC12a108	Area	828379	841404	432.5	63.3	0	-54.0	0.00000114				0.000000013	0.000000162
WC12a109	Area	828510	841304	139.6	19.5	0	-59.0	0.00000114				0.000000013	0.000000162
WC12a110	Area	828565	841287	53.9	58.6	0	-59.0	0.00000114				0.000000013	0.000000162
WC12a111	Area	828606	841307	37.3	27.3	0	-59.0	0.00000114				0.000000013	0.000000162
WC12a112	Area	828291	841135	23.1	43.6	0	-54.0	0.00000114				0.000000013	0.000000162
WC12a113	Area	828428	841539	141.3	167.7	0	-54.0	0.00000114				0.000000013	0.000000162
WC12a114	Area	828280	841639	8.1	92.6	0	-19.0	0.00000114				0.000000013	0.000000162
WC12a115	Area	828095	841310	30.8	499.0	0	-53.0	0.00000114				0.000000013	0.000000162
WC12a116	Area	828196	841259	29.6	397.0	0	-53.0	0.00000114				0.000000013	0.000000162
WC12a117	Area	828239	841246	42.4	344.0	0	-53.0	0.00000114				0.000000013	0.000000162
WC12a118	Area	828280	841223	41.0	300.2	0	-53.0	0.00000114				0.000000013	0.000000162
WC12a119	Area	828327	841204	41.0	248.1	0	-53.0	0.00000114				0.000000013	0.000000162
WC12a120	Area	828011	841473	19.7	114.3	0	-57.0	0.00000114				0.000000013	0.000000162
WC12a121	Area	828048	841437	52.6	41.3	0	-52.0	0.00000114				0.000000013	0.000000162
WC12a122	Area	828092	841457	32.1	52.2	0	-52.0	0.00000114				0.000000013	0.000000162
WC12a123	Area	828130	841291	36.8	465.0	0	-53.0	0.00000114				0.000000013	0.000000162
WC12a124	Area	828164	841275	29.5	429.8	0	-53.0	0.00000114				0.000000013	0.000000162
WC12a125	Area	828534	841314	23.0	29.7	0	-59.0	0.00000114				0.000000013	0.000000162
WC12a126	Area	828389	841187	21.0	172.4	0	-64.0	0.00000114				0.000000013	0.000000162
WC12a127	Area	828419	841226	21.0	75.4	0	-64.0	0.00000114				0.000000013	0.000000162
WC12a128	Area	828297	841117	11.6	11.6	0	-54.0	0.00000114				0.000000013	0.000000162
WC12a129	Area	828286	841616	14.4	40.8	0	-19.0	0.00000114				0.000000013	0.000000162
WC12b201	Area	828005	841406	52.6	60.3	0	-52.0	0.00000114				0.000000013	0.000000162
WC12b301	Area	828355	841145	15.5	111.6	0	-59.0	0.00000114				0.000000013	0.000000162
WC12b302	Area	828429	841165	22.6	198.6	0	-59.0	0.00000114				0.000000013	0.000000162
WC12b303	Area	828454	841155	20.3	165.8	0	-59.0	0.00000114				0.000000013	0.000000162
WC12b304	Area	828482	841148	20.8	125.2	0	-59.0	0.00000114				0.000000013	0.000000162
WC12b305	Area	828506	841134	28.0	98.9	0	-59.0	0.00000114				0.000000013	0.000000162
WC12b306	Area	828441	841192	9.4	83.0	0	-59.0	0.00000114				0.000000013	0.000000162
WC12b401	Area	828602	841221	95.9	151.7	0	-59.0	0.00000114				0.000000013	0.000000162
WC12b402	Area	828676	841261	83.3	16.3	0	-59.0	0.00000114				0.000000013	0.000000162
WC12b403	Area	828693	841263	61.6	14.5	0	-59.0	0.00000114				0.000000013	0.000000162
WC12b404	Area	828708	841265	47.8	12.7	0	-59.0	0.00000114				0.000000013	0.000000162
WC12b405	Area	828720	841271	40.0	12.2	0	-59.0	0.00000114				0.000000013	0.000000162
WC12c101	Area	828558	840984	37.8	135.1	0	-5.0	0.00000114				0.000000013	0.000000162
WC12c102	Area	828619	840963	79.7	103.0	0	-5.0	0.00000114				0.000000013	0.000000162
WC12c103	Area	828799	840988	274.0	112.7	0	-5.0	0.00000114				0.000000013	0.000000162
WC12c104	Area	828951	840954	33.0	72.2	0	-5.0	0.00000114				0.000000013	0.000000162
WC12c105	Area	828805	841056	219.8	23.3	0	-5.0	0.00000114				0.000000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12c106	Area	828682	841139	116.1	263.4	0	-56.0	0.00000114				0.000000013	0.000000162
WC12c107	Area	828814	841087	132.3	39.4	0	-5.0	0.00000114				0.000000013	0.000000162
WC12c108	Area	828823	841124	57.6	35.1	0	-5.0	0.00000114				0.000000013	0.000000162
WC12c109	Area	828382	841016	219.8	167.2	0	-5.0	0.00000114				0.000000013	0.000000162
WC12c110	Area	828517	841010	48.4	179.4	0	-5.0	0.00000114				0.000000013	0.000000162
WC12c111	Area	828946	841113	424.4	115.5	0	-52.0	0.00000114				0.000000013	0.000000162
WC12c112	Area	829153	840966	60.3	170.3	0	-47.0	0.00000114				0.000000013	0.000000162
WC12c113	Area	828952	841256	156.9	68.0	0	-52.0	0.00000114				0.000000013	0.000000162
WC12c114	Area	828784	841296	43.2	35.3	0	-71.0	0.00000114				0.000000013	0.000000162
WC12c115	Area	828750	841290	35.2	33.2	0	-71.0	0.00000114				0.000000013	0.000000162
WC12c116	Area	829189	840947	15.1	163.5	0	-47.0	0.00000114				0.000000013	0.000000162
WC12c117	Area	829214	840948	14.6	124.3	0	-47.0	0.00000114				0.000000013	0.000000162
WC12c118	Area	829210	840924	14.6	76.0	0	-47.0	0.00000114				0.000000013	0.000000162
WC12c119	Area	828982	840934	29.2	38.9	0	-5.0	0.00000114				0.000000013	0.000000162
WC12c120	Area	829063	840913	32.2	14.3	0	-5.0	0.00000114				0.000000013	0.000000162
WC12c121	Area	828233	841016	76.1	190.7	0	-5.0	0.00000114				0.000000013	0.000000162
WC12d101	Area	828108	842203	142.3	129.8	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d102	Area	828015	842079	139.3	137.8	0	-67.0	0.00000114				0.000000013	0.000000162
WC12d103	Area	827985	842232	11.5	68.6	0	-67.0	0.00000114				0.000000013	0.000000162
WC12d104	Area	828033	842265	32.3	46.6	0	-66.0	0.00000114				0.000000013	0.000000162
WC12d105	Area	828001	842268	39.8	8.1	0	-66.0	0.00000114				0.000000013	0.000000162
WC12d106	Area	827978	842217	9.6	90.3	0	-67.0	0.00000114				0.000000013	0.000000162
WC12d107	Area	827981	842176	66.2	116.6	0	-67.0	0.00000114				0.000000013	0.000000162
WC12d108	Area	828193	842209	79.5	27.2	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d109	Area	828194	842039	226.8	138.0	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d110	Area	828338	842080	129.3	152.5	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d111	Area	828364	842192	47.4	165.9	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d112	Area	828419	842139	94.9	43.8	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d113	Area	828220	841908	28.8	58.7	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d114	Area	828647	841776	38.6	33.0	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d115	Area	828569	841792	18.5	98.4	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d116	Area	828543	841807	80.1	21.3	0	13.0	0.00000114				0.000000013	0.000000162
WC12d117	Area	828439	841794	27.9	121.1	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d118	Area	828410	841883	27.2	107.5	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d119	Area	828432	841866	22.3	117.8	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d120	Area	828461	841847	39.7	77.9	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d121	Area	828283	841831	69.2	20.6	0	-27.0	0.00000114				0.000000013	0.000000162
WC12d122	Area	828693	841699	35.8	67.2	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d123	Area	828767	841617	50.1	64.0	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d124	Area	828810	841576	50.0	104.1	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d125	Area	828947	841576	58.3	95.9	0	-47.0	0.00000114				0.000000013	0.000000162
WC12d126	Area	828958	841528	24.1	47.5	0	-47.0	0.00000114				0.000000013	0.000000162
WC12d127	Area	828843	841474	168.0	103.4	0	-7.0	0.00000114				0.000000013	0.000000162
WC12d128	Area	828860	841532	125.0	14.2	0	-7.0	0.00000114				0.000000013	0.000000162
WC12d129	Area	828871	841545	69.0	14.2	0	-7.0	0.00000114				0.000000013	0.000000162
WC12d130	Area	828880	841567	23.5	30.6	0	-7.0	0.00000114				0.000000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d131	Area	828811	841367	67.1	111.4	0	-71.0	0.00000114				0.000000013	0.000000162
WC12d132	Area	828781	841406	25.4	57.3	0	-71.0	0.00000114				0.000000013	0.000000162
WC12d133	Area	828872	841338	26.7	152.0	0	-71.0	0.00000114				0.000000013	0.000000162
WC12d134	Area	828896	841383	40.8	58.5	0	-71.0	0.00000114				0.000000013	0.000000162
WC12d135	Area	828872	841405	14.1	27.8	0	-71.0	0.00000114				0.000000013	0.000000162
WC12d136	Area	828725	841660	50.1	56.2	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d137	Area	828686	841655	42.4	21.2	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d138	Area	828667	841656	32.4	13.5	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d139	Area	828622	841781	17.9	11.9	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d140	Area	828674	841737	45.3	52.2	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d141	Area	828231	841867	50.1	18.5	0	-47.0	0.00000114				0.000000013	0.000000162
WC12d142	Area	828446	841775	10.0	65.3	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d143	Area	828416	841823	30.5	25.1	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d144	Area	828484	841830	11.4	29.1	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d145	Area	828498	841879	27.7	15.0	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d146	Area	828340	841766	24.8	18.4	0	-27.0	0.00000114				0.000000013	0.000000162
WC12d147	Area	828353	841781	35.8	18.4	0	-27.0	0.00000114				0.000000013	0.000000162
WC12d148	Area	828366	841789	21.5	6.5	0	-27.0	0.00000114				0.000000013	0.000000162
WC12d149	Area	828325	841754	10.4	12.6	0	-27.0	0.00000114				0.000000013	0.000000162
WC12d150	Area	828315	841837	18.7	15.0	0	-27.0	0.00000114				0.000000013	0.000000162
WC12d151	Area	828522	841818	50.0	7.7	0	13.0	0.00000114				0.000000013	0.000000162
WC12d152	Area	827995	842256	23.7	12.0	0	-66.0	0.00000114				0.000000013	0.000000162
WC12d153	Area	828219	842206	38.3	14.1	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d154	Area	827938	842070	99.4	8.5	0	-67.0	0.00000114				0.000000013	0.000000162
WC12d155	Area	828365	841843	31.5	11.2	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d156	Area	828994	841500	59.3	9.3	0	-22.0	0.00000114				0.000000013	0.000000162
WC12d157	Area	829038	841490	9.3	27.4	0	-82.0	0.00000114				0.000000013	0.000000162
WC12d158	Area	829136	841536	9.5	187.0	0	-62.0	0.00000114				0.000000013	0.000000162
WC12d159	Area	829241	841607	9.5	61.7	0	-42.0	0.00000114				0.000000013	0.000000162
WC12d160	Area	829288	841665	10.0	83.9	0	-37.0	0.00000114				0.000000013	0.000000162
WC12d161	Area	829376	841765	7.8	70.5	0	-44.0	0.00000114				0.000000013	0.000000162
WC12d162	Area	829332	841720	9.2	52.8	0	-42.0	0.00000114				0.000000013	0.000000162
WC12d163	Area	829229	841558	44.1	4.9	0	-82.0	0.00000114				0.000000013	0.000000162
WC12d164	Area	829223	841502	6.7	66.1	0	-14.0	0.00000114				0.000000013	0.000000162
WC12d165	Area	829213	841456	5.2	27.1	0	-6.0	0.00000114				0.000000013	0.000000162
WC12d166	Area	829216	841431	19.8	5.2	0	-71.0	0.00000114				0.000000013	0.000000162
WC12d167	Area	829218	841416	5.2	7.8	0	-21.0	0.00000114				0.000000013	0.000000162
WC12d168	Area	829197	841398	5.5	43.6	0	-53.0	0.00000114				0.000000013	0.000000162
WC12d169	Area	829172	841364	5.5	43.6	0	-8.0	0.00000114				0.000000013	0.000000162
WC12d170	Area	829165	841336	5.6	11.6	0	-23.0	0.00000114				0.000000013	0.000000162
WC12d171	Area	829165	841304	48.6	5.6	0	-83.0	0.00000114				0.000000013	0.000000162
WC12d172	Area	829165	841248	5.6	62.3	0	-8.0	0.00000114				0.000000013	0.000000162
WC12d173	Area	829161	841202	28.4	5.6	0	-88.0	0.00000114				0.000000013	0.000000162
WC12d174	Area	829167	841168	38.9	5.6	0	-78.0	0.00000114				0.000000013	0.000000162
WC12d175	Area	829169	841136	5.6	23.0	0	-8.0	0.00000114				0.000000013	0.000000162
WC12d176	Area	829154	841095	5.0	62.8	0	-28.0	0.00000114				0.000000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d177	Area	829126	841063	6.1	23.1	0	-78.0	0.00000114				0.00000013	0.000000162
WC12d178	Area	829099	841064	28.5	6.1	0	-13.0	0.00000114				0.00000013	0.000000162
WC21a101	Area	827916	841351	20.0	21.5	0	-53.0	0.00000114				0.00000013	0.000000162
WC21a102	Area	827945	841340	33.1	113.5	0	-53.0	0.00000114				0.00000013	0.000000162
WC21a103	Area	827929	841287	33.1	50.0	0	-53.0	0.00000114				0.00000013	0.000000162
WC21a104	Area	827947	841379	26.7	62.0	0	-53.0	0.00000114				0.00000013	0.000000162
WC21a105	Area	827904	841337	11.1	15.6	0	-53.0	0.00000114				0.00000013	0.000000162
WC21a106	Area	827898	841297	20.7	12.4	0	-53.0	0.00000114				0.00000013	0.000000162
WC21a107	Area	827892	841309	5.4	7.6	0	-53.0	0.00000114				0.00000013	0.000000162
WC26a101	Area	826287	840119	103.5	9.9	0	-32.0	0.00000114				0.00000013	0.000000162
WC26a102	Area	826287	840032	9.9	136.5	0	-29.0	0.00000114				0.00000013	0.000000162
WC26a103	Area	827718	840553	486.5	12.9	0	-10.0	0.00000114				0.00000013	0.000000162
WC26a104	Area	827364	840563	12.5	221.5	0	-74.0	0.00000114				0.00000013	0.000000162
WC26a105	Area	827176	840528	12.5	161.4	0	-87.0	0.00000114				0.00000013	0.000000162
WC26a106	Area	826958	840493	14.2	272.5	0	-77.0	0.00000114				0.00000013	0.000000162
WC26a107	Area	826744	840467	156.9	9.9	0	-2.0	0.00000114				0.00000013	0.000000162
WC26a108	Area	826599	840452	9.9	134.2	0	-72.0	0.00000114				0.00000013	0.000000162
WC26a109	Area	826477	840393	9.9	134.2	0	-57.0	0.00000114				0.00000013	0.000000162
WC26a110	Area	826370	840310	9.9	134.2	0	-47.0	0.00000114				0.00000013	0.000000162
WC26a111	Area	826286	840205	9.9	134.4	0	-32.0	0.00000114				0.00000013	0.000000162
RG609	Area	827622	842617	18.2	313.9	0	-57.0	0.00000184				0.00000013	0.000000162
RG610	Area	827791	842722	17.5	76.3	0	-60.0	0.00000184				0.00000013	0.000000162
RG611	Area	827866	842724	76.3	15.8	0	-20.0	0.00000184				0.00000013	0.000000162
RG612	Area	827928	842687	16.5	64.1	0	40.0	0.00000184				0.00000013	0.000000162
RG613	Area	827976	842467	384.4	12.9	0	-83.0	0.00000184				0.00000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2028, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC10b101	Area	828374	840423	840.1	19.5	0	-5.0	0.00001892				0.00000021	0.00000270
WC10b102	Area	828377	840463	839.8	31.5	0	-3.0	0.00001892				0.00000021	0.00000270
WC10b103	Area	828330	840497	67.0	29.8	0	-2.0	0.00001892				0.00000021	0.00000270
WC10b104	Area	828620	840472	355.6	10.0	0	-3.0	0.00001892				0.00000021	0.00000270
WC10c101	Area	829097	840412	375.2	35.3	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c102	Area	829036	840367	481.5	20.0	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c103	Area	829050	840472	129.4	49.1	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c104	Area	829127	840433	348.3	11.8	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c105	Area	828915	840315	11.8	109.5	0	-26.0	0.00001892				0.00000021	0.00000270
WC10c106	Area	828876	840256	29.5	12.4	0	33.0	0.00001892				0.00000021	0.00000270
WC10c107	Area	829317	840356	71.5	86.1	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c108	Area	829335	840442	20.6	87.7	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c109	Area	829218	840654	397.5	18.2	0	-54.0	0.00001892				0.00000021	0.00000270
WC10c110	Area	828954	840398	14.5	19.3	0	-26.0	0.00001892				0.00000021	0.00000270
WC10c111	Area	829462	840356	210.9	14.2	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c112	Area	829437	840319	181.9	27.2	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c113	Area	829659	840300	264.0	36.5	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c114	Area	829663	840347	259.1	13.5	0	-8.0	0.00001892				0.00000021	0.00000270
WC10c115	Area	829873	840284	65.7	156.4	0	-86.0	0.00001892				0.00000021	0.00000270
WC10c116	Area	830009	840284	44.1	114.1	0	-86.0	0.00001892				0.00000021	0.00000270
WC10c117	Area	830028	840319	22.0	94.7	0	-86.0	0.00001892				0.00000021	0.00000270
WC10c118	Area	828838	840457	75.7	60.3	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c119	Area	828885	840244	9.7	14.5	0	35.0	0.00001892				0.00000021	0.00000270
WC10c120	Area	829465	840372	70.9	16.7	0	-6.0	0.00001892				0.00000021	0.00000270
WC11b101	Area	828159	840896	67.1	60.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b102	Area	828323	840895	81.0	86.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b103	Area	828415	840879	102.5	100.7	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b104	Area	828229	840908	69.8	23.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b105	Area	828258	840860	37.8	4.5	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b106	Area	828593	840868	120.5	90.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b107	Area	828493	840846	56.1	47.7	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b108	Area	828503	840914	65.1	16.5	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b109	Area	828275	840921	18.5	41.6	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b110	Area	828571	840652	127.4	344.1	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b111	Area	828425	840667	158.6	317.8	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b112	Area	828328	840684	32.9	333.7	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b113	Area	828429	840497	120.7	16.9	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b114	Area	828660	840709	41.0	466.8	0	-5.0	0.00001892				0.00000021	0.00000270
WC12d101	Area	828108	842203	142.3	129.8	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d102	Area	828015	842079	139.3	137.8	0	-67.0	0.00001892				0.00000021	0.00000270
WC12d103	Area	827985	842232	11.5	68.6	0	-67.0	0.00001892				0.00000021	0.00000270
WC12d104	Area	828033	842265	32.3	46.6	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d105	Area	828001	842268	39.8	8.1	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d106	Area	827978	842217	9.6	90.3	0	-67.0	0.00001892				0.00000021	0.00000270
WC12d107	Area	827981	842176	66.2	116.6	0	-67.0	0.00001892				0.00000021	0.00000270
WC12d108	Area	828193	842209	79.5	27.2	0	-64.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2028, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d109	Area	828194	842039	226.8	138.0	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d110	Area	828338	842080	129.3	152.5	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d111	Area	828364	842192	47.4	165.9	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d112	Area	828419	842139	94.9	43.8	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d113	Area	828220	841908	28.8	58.7	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d114	Area	828647	841776	38.6	33.0	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d115	Area	828569	841792	18.5	98.4	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d116	Area	828543	841807	80.1	21.3	0	13.0	0.00001892				0.00000021	0.00000270
WC12d117	Area	828439	841794	27.9	121.1	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d118	Area	828410	841883	27.2	107.5	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d119	Area	828432	841866	22.3	117.8	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d120	Area	828461	841847	39.7	77.9	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d121	Area	828283	841831	69.2	20.6	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d122	Area	828693	841699	35.8	67.2	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d123	Area	828767	841617	50.1	64.0	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d124	Area	828810	841576	50.0	104.1	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d125	Area	828947	841576	58.3	95.9	0	-47.0	0.00001892				0.00000021	0.00000270
WC12d126	Area	828958	841528	24.1	47.5	0	-47.0	0.00001892				0.00000021	0.00000270
WC12d127	Area	828843	841474	168.0	103.4	0	-7.0	0.00001892				0.00000021	0.00000270
WC12d128	Area	828860	841532	125.0	14.2	0	-7.0	0.00001892				0.00000021	0.00000270
WC12d129	Area	828871	841545	69.0	14.2	0	-7.0	0.00001892				0.00000021	0.00000270
WC12d130	Area	828880	841567	23.5	30.6	0	-7.0	0.00001892				0.00000021	0.00000270
WC12d131	Area	828811	841367	67.1	111.4	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d132	Area	828781	841406	25.4	57.3	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d133	Area	828872	841338	26.7	152.0	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d134	Area	828896	841383	40.8	58.5	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d135	Area	828872	841405	14.1	27.8	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d136	Area	828725	841660	50.1	56.2	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d137	Area	828686	841655	42.4	21.2	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d138	Area	828667	841656	32.4	13.5	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d139	Area	828622	841781	17.9	11.9	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d140	Area	828674	841737	45.3	52.2	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d141	Area	828231	841867	50.1	18.5	0	-47.0	0.00001892				0.00000021	0.00000270
WC12d142	Area	828446	841775	10.0	65.3	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d143	Area	828416	841823	30.5	25.1	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d144	Area	828484	841830	11.4	29.1	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d145	Area	828498	841879	27.7	15.0	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d146	Area	828340	841766	24.8	18.4	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d147	Area	828353	841781	35.8	18.4	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d148	Area	828366	841789	21.5	6.5	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d149	Area	828325	841754	10.4	12.6	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d150	Area	828315	841837	18.7	15.0	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d151	Area	828522	841818	50.0	7.7	0	13.0	0.00001892				0.00000021	0.00000270
WC12d152	Area	827995	842256	23.7	12.0	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d153	Area	828219	842206	38.3	14.1	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d154	Area	827938	842070	99.4	8.5	0	-67.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2028, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d155	Area	828365	841843	31.5	11.2	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d156	Area	828994	841500	59.3	9.3	0	-22.0	0.00001892				0.00000021	0.00000270
WC12d157	Area	829038	841490	9.3	27.4	0	-82.0	0.00001892				0.00000021	0.00000270
WC12d158	Area	829136	841536	9.5	187.0	0	-62.0	0.00001892				0.00000021	0.00000270
WC12d159	Area	829241	841607	9.5	61.7	0	-42.0	0.00001892				0.00000021	0.00000270
WC12d160	Area	829288	841665	10.0	83.9	0	-37.0	0.00001892				0.00000021	0.00000270
WC12d161	Area	829376	841765	7.8	70.5	0	-44.0	0.00001892				0.00000021	0.00000270
WC12d162	Area	829332	841720	9.2	52.8	0	-42.0	0.00001892				0.00000021	0.00000270
WC12d163	Area	829229	841558	44.1	4.9	0	-82.0	0.00001892				0.00000021	0.00000270
WC12d164	Area	829223	841502	6.7	66.1	0	-14.0	0.00001892				0.00000021	0.00000270
WC12d165	Area	829213	841456	5.2	27.1	0	-6.0	0.00001892				0.00000021	0.00000270
WC12d166	Area	829216	841431	19.8	5.2	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d167	Area	829218	841416	5.2	7.8	0	-21.0	0.00001892				0.00000021	0.00000270
WC12d168	Area	829197	841398	5.5	43.6	0	-53.0	0.00001892				0.00000021	0.00000270
WC12d169	Area	829172	841364	5.5	43.6	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d170	Area	829165	841336	5.6	11.6	0	-23.0	0.00001892				0.00000021	0.00000270
WC12d171	Area	829165	841304	48.6	5.6	0	-83.0	0.00001892				0.00000021	0.00000270
WC12d172	Area	829165	841248	5.6	62.3	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d173	Area	829161	841202	28.4	5.6	0	-88.0	0.00001892				0.00000021	0.00000270
WC12d174	Area	829167	841168	38.9	5.6	0	-78.0	0.00001892				0.00000021	0.00000270
WC12d175	Area	829169	841136	5.6	23.0	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d176	Area	829154	841095	5.0	62.8	0	-28.0	0.00001892				0.00000021	0.00000270
WC12d177	Area	829126	841063	6.1	23.1	0	-78.0	0.00001892				0.00000021	0.00000270
WC12d178	Area	829099	841064	28.5	6.1	0	-13.0	0.00001892				0.00000021	0.00000270
WC26a101	Area	826287	840119	103.5	9.9	0	-32.0	0.00001892				0.00000021	0.00000270
WC26a102	Area	826287	840032	9.9	136.5	0	-29.0	0.00001892				0.00000021	0.00000270
WC26a103	Area	827718	840553	486.5	12.9	0	-10.0	0.00001892				0.00000021	0.00000270
WC26a104	Area	827364	840563	12.5	221.5	0	-74.0	0.00001892				0.00000021	0.00000270
WC26a105	Area	827176	840528	12.5	161.4	0	-87.0	0.00001892				0.00000021	0.00000270
WC26a106	Area	826958	840493	14.2	272.5	0	-77.0	0.00001892				0.00000021	0.00000270
WC26a107	Area	826744	840467	156.9	9.9	0	-2.0	0.00001892				0.00000021	0.00000270
WC26a108	Area	826599	840452	9.9	134.2	0	-72.0	0.00001892				0.00000021	0.00000270
WC26a109	Area	826477	840393	9.9	134.2	0	-57.0	0.00001892				0.00000021	0.00000270
WC26a110	Area	826370	840310	9.9	134.2	0	-47.0	0.00001892				0.00000021	0.00000270
WC26a111	Area	826286	840205	9.9	134.4	0	-32.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2028, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC10b101	Area	828374	840423	840.1	19.5	0	-5.0	0.00000114				0.000000013	0.000000162
WC10b102	Area	828377	840463	839.8	31.5	0	-3.0	0.00000114				0.000000013	0.000000162
WC10b103	Area	828330	840497	67.0	29.8	0	-2.0	0.00000114				0.000000013	0.000000162
WC10b104	Area	828620	840472	355.6	10.0	0	-3.0	0.00000114				0.000000013	0.000000162
WC10c101	Area	829097	840412	375.2	35.3	0	-6.0	0.00000114				0.000000013	0.000000162
WC10c102	Area	829036	840367	481.5	20.0	0	-6.0	0.00000114				0.000000013	0.000000162
WC10c103	Area	829050	840472	129.4	49.1	0	-6.0	0.00000114				0.000000013	0.000000162
WC10c104	Area	829127	840433	348.3	11.8	0	-6.0	0.00000114				0.000000013	0.000000162
WC10c105	Area	828915	840315	11.8	109.5	0	-26.0	0.00000114				0.000000013	0.000000162
WC10c106	Area	828876	840256	29.5	12.4	0	33.0	0.00000114				0.000000013	0.000000162
WC10c107	Area	829317	840356	71.5	86.1	0	-6.0	0.00000114				0.000000013	0.000000162
WC10c108	Area	829335	840442	20.6	87.7	0	-6.0	0.00000114				0.000000013	0.000000162
WC10c109	Area	829218	840654	397.5	18.2	0	-54.0	0.00000114				0.000000013	0.000000162
WC10c110	Area	828954	840398	14.5	19.3	0	-26.0	0.00000114				0.000000013	0.000000162
WC10c111	Area	829462	840356	210.9	14.2	0	-6.0	0.00000114				0.000000013	0.000000162
WC10c112	Area	829437	840319	181.9	27.2	0	-6.0	0.00000114				0.000000013	0.000000162
WC10c113	Area	829659	840300	264.0	36.5	0	-6.0	0.00000114				0.000000013	0.000000162
WC10c114	Area	829663	840347	259.1	13.5	0	-8.0	0.00000114				0.000000013	0.000000162
WC10c115	Area	829873	840284	65.7	156.4	0	-86.0	0.00000114				0.000000013	0.000000162
WC10c116	Area	830009	840284	44.1	114.1	0	-86.0	0.00000114				0.000000013	0.000000162
WC10c117	Area	830028	840319	22.0	94.7	0	-86.0	0.00000114				0.000000013	0.000000162
WC10c118	Area	828838	840457	75.7	60.3	0	-6.0	0.00000114				0.000000013	0.000000162
WC10c119	Area	828885	840244	9.7	14.5	0	35.0	0.00000114				0.000000013	0.000000162
WC10c120	Area	829465	840372	70.9	16.7	0	-6.0	0.00000114				0.000000013	0.000000162
WC11b101	Area	828159	840896	67.1	60.3	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b102	Area	828323	840895	81.0	86.3	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b103	Area	828415	840879	102.5	100.7	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b104	Area	828229	840908	69.8	23.4	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b105	Area	828258	840860	37.8	4.5	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b106	Area	828593	840868	120.5	90.4	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b107	Area	828493	840846	56.1	47.7	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b108	Area	828503	840914	65.1	16.5	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b109	Area	828275	840921	18.5	41.6	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b110	Area	828571	840652	127.4	344.1	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b111	Area	828425	840667	158.6	317.8	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b112	Area	828328	840684	32.9	333.7	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b113	Area	828429	840497	120.7	16.9	0	-5.0	0.00000114				0.000000013	0.000000162
WC11b114	Area	828660	840709	41.0	466.8	0	-5.0	0.00000114				0.000000013	0.000000162
WC12d101	Area	828108	842203	142.3	129.8	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d102	Area	828015	842079	139.3	137.8	0	-67.0	0.00000114				0.000000013	0.000000162
WC12d103	Area	827985	842232	11.5	68.6	0	-67.0	0.00000114				0.000000013	0.000000162
WC12d104	Area	828033	842265	32.3	46.6	0	-66.0	0.00000114				0.000000013	0.000000162
WC12d105	Area	828001	842268	39.8	8.1	0	-66.0	0.00000114				0.000000013	0.000000162
WC12d106	Area	827978	842217	9.6	90.3	0	-67.0	0.00000114				0.000000013	0.000000162
WC12d107	Area	827981	842176	66.2	116.6	0	-67.0	0.00000114				0.000000013	0.000000162
WC12d108	Area	828193	842209	79.5	27.2	0	-64.0	0.00000114				0.000000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2028, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d109	Area	828194	842039	226.8	138.0	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d110	Area	828338	842080	129.3	152.5	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d111	Area	828364	842192	47.4	165.9	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d112	Area	828419	842139	94.9	43.8	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d113	Area	828220	841908	28.8	58.7	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d114	Area	828647	841776	38.6	33.0	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d115	Area	828569	841792	18.5	98.4	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d116	Area	828543	841807	80.1	21.3	0	13.0	0.00000114				0.000000013	0.000000162
WC12d117	Area	828439	841794	27.9	121.1	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d118	Area	828410	841883	27.2	107.5	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d119	Area	828432	841866	22.3	117.8	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d120	Area	828461	841847	39.7	77.9	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d121	Area	828283	841831	69.2	20.6	0	-27.0	0.00000114				0.000000013	0.000000162
WC12d122	Area	828693	841699	35.8	67.2	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d123	Area	828767	841617	50.1	64.0	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d124	Area	828810	841576	50.0	104.1	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d125	Area	828947	841576	58.3	95.9	0	-47.0	0.00000114				0.000000013	0.000000162
WC12d126	Area	828958	841528	24.1	47.5	0	-47.0	0.00000114				0.000000013	0.000000162
WC12d127	Area	828843	841474	168.0	103.4	0	-7.0	0.00000114				0.000000013	0.000000162
WC12d128	Area	828860	841532	125.0	14.2	0	-7.0	0.00000114				0.000000013	0.000000162
WC12d129	Area	828871	841545	69.0	14.2	0	-7.0	0.00000114				0.000000013	0.000000162
WC12d130	Area	828880	841567	23.5	30.6	0	-7.0	0.00000114				0.000000013	0.000000162
WC12d131	Area	828811	841367	67.1	111.4	0	-71.0	0.00000114				0.000000013	0.000000162
WC12d132	Area	828781	841406	25.4	57.3	0	-71.0	0.00000114				0.000000013	0.000000162
WC12d133	Area	828872	841338	26.7	152.0	0	-71.0	0.00000114				0.000000013	0.000000162
WC12d134	Area	828896	841383	40.8	58.5	0	-71.0	0.00000114				0.000000013	0.000000162
WC12d135	Area	828872	841405	14.1	27.8	0	-71.0	0.00000114				0.000000013	0.000000162
WC12d136	Area	828725	841660	50.1	56.2	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d137	Area	828686	841655	42.4	21.2	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d138	Area	828667	841656	32.4	13.5	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d139	Area	828622	841781	17.9	11.9	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d140	Area	828674	841737	45.3	52.2	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d141	Area	828231	841867	50.1	18.5	0	-47.0	0.00000114				0.000000013	0.000000162
WC12d142	Area	828446	841775	10.0	65.3	0	-77.0	0.00000114				0.000000013	0.000000162
WC12d143	Area	828416	841823	30.5	25.1	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d144	Area	828484	841830	11.4	29.1	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d145	Area	828498	841879	27.7	15.0	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d146	Area	828340	841766	24.8	18.4	0	-27.0	0.00000114				0.000000013	0.000000162
WC12d147	Area	828353	841781	35.8	18.4	0	-27.0	0.00000114				0.000000013	0.000000162
WC12d148	Area	828366	841789	21.5	6.5	0	-27.0	0.00000114				0.000000013	0.000000162
WC12d149	Area	828325	841754	10.4	12.6	0	-27.0	0.00000114				0.000000013	0.000000162
WC12d150	Area	828315	841837	18.7	15.0	0	-27.0	0.00000114				0.000000013	0.000000162
WC12d151	Area	828522	841818	50.0	7.7	0	13.0	0.00000114				0.000000013	0.000000162
WC12d152	Area	827995	842256	23.7	12.0	0	-66.0	0.00000114				0.000000013	0.000000162
WC12d153	Area	828219	842206	38.3	14.1	0	-64.0	0.00000114				0.000000013	0.000000162
WC12d154	Area	827938	842070	99.4	8.5	0	-67.0	0.00000114				0.000000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2028, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d155	Area	828365	841843	31.5	11.2	0	-57.0	0.00000114				0.000000013	0.000000162
WC12d156	Area	828994	841500	59.3	9.3	0	-22.0	0.00000114				0.000000013	0.000000162
WC12d157	Area	829038	841490	9.3	27.4	0	-82.0	0.00000114				0.000000013	0.000000162
WC12d158	Area	829136	841536	9.5	187.0	0	-62.0	0.00000114				0.000000013	0.000000162
WC12d159	Area	829241	841607	9.5	61.7	0	-42.0	0.00000114				0.000000013	0.000000162
WC12d160	Area	829288	841665	10.0	83.9	0	-37.0	0.00000114				0.000000013	0.000000162
WC12d161	Area	829376	841765	7.8	70.5	0	-44.0	0.00000114				0.000000013	0.000000162
WC12d162	Area	829332	841720	9.2	52.8	0	-42.0	0.00000114				0.000000013	0.000000162
WC12d163	Area	829229	841558	44.1	4.9	0	-82.0	0.00000114				0.000000013	0.000000162
WC12d164	Area	829223	841502	6.7	66.1	0	-14.0	0.00000114				0.000000013	0.000000162
WC12d165	Area	829213	841456	5.2	27.1	0	-6.0	0.00000114				0.000000013	0.000000162
WC12d166	Area	829216	841431	19.8	5.2	0	-71.0	0.00000114				0.000000013	0.000000162
WC12d167	Area	829218	841416	5.2	7.8	0	-21.0	0.00000114				0.000000013	0.000000162
WC12d168	Area	829197	841398	5.5	43.6	0	-53.0	0.00000114				0.000000013	0.000000162
WC12d169	Area	829172	841364	5.5	43.6	0	-8.0	0.00000114				0.000000013	0.000000162
WC12d170	Area	829165	841336	5.6	11.6	0	-23.0	0.00000114				0.000000013	0.000000162
WC12d171	Area	829165	841304	48.6	5.6	0	-83.0	0.00000114				0.000000013	0.000000162
WC12d172	Area	829165	841248	5.6	62.3	0	-8.0	0.00000114				0.000000013	0.000000162
WC12d173	Area	829161	841202	28.4	5.6	0	-88.0	0.00000114				0.000000013	0.000000162
WC12d174	Area	829167	841168	38.9	5.6	0	-78.0	0.00000114				0.000000013	0.000000162
WC12d175	Area	829169	841136	5.6	23.0	0	-8.0	0.00000114				0.000000013	0.000000162
WC12d176	Area	829154	841095	5.0	62.8	0	-28.0	0.00000114				0.000000013	0.000000162
WC12d177	Area	829126	841063	6.1	23.1	0	-78.0	0.00000114				0.000000013	0.000000162
WC12d178	Area	829099	841064	28.5	6.1	0	-13.0	0.00000114				0.000000013	0.000000162
WC26a101	Area	826287	840119	103.5	9.9	0	-32.0	0.00000114				0.000000013	0.000000162
WC26a102	Area	826287	840032	9.9	136.5	0	-29.0	0.00000114				0.000000013	0.000000162
WC26a103	Area	827718	840553	486.5	12.9	0	-10.0	0.00000114				0.000000013	0.000000162
WC26a104	Area	827364	840563	12.5	221.5	0	-74.0	0.00000114				0.000000013	0.000000162
WC26a105	Area	827176	840528	12.5	161.4	0	-87.0	0.00000114				0.000000013	0.000000162
WC26a106	Area	826958	840493	14.2	272.5	0	-77.0	0.00000114				0.000000013	0.000000162
WC26a107	Area	826744	840467	156.9	9.9	0	-2.0	0.00000114				0.000000013	0.000000162
WC26a108	Area	826599	840452	9.9	134.2	0	-72.0	0.00000114				0.000000013	0.000000162
WC26a109	Area	826477	840393	9.9	134.2	0	-57.0	0.00000114				0.000000013	0.000000162
WC26a110	Area	826370	840310	9.9	134.2	0	-47.0	0.00000114				0.000000013	0.000000162
WC26a111	Area	826286	840205	9.9	134.4	0	-32.0	0.00000114				0.000000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 2) TSP concentration calculation - 2018, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC03a101	Area	828180	840454	300.9	16.5	0	-3.0	0.00001892				0.00000021	0.00000270
WC03a102	Area	828403	840441	144.5	16.9	0	-4.0	0.00001892				0.00000021	0.00000270
WC03a103	Area	828710	840419	474.3	17.7	0	-4.0	0.00001892				0.00000021	0.00000270
WC03a104	Area	829038	840396	153.1	17.7	0	-4.0	0.00001892				0.00000021	0.00000270
WC03a105	Area	829386	840356	548.9	17.7	0	-7.0	0.00001892				0.00000021	0.00000270
WC03a106	Area	829777	840322	17.7	233.1	0	-89.0	0.00001892				0.00000021	0.00000270
WC03a107	Area	829938	840318	86.6	17.5	0	-9.0	0.00001892				0.00000021	0.00000270
WC03b101	Area	828915	840471	18.5	111.2	0	-24.0	0.00001892				0.00000021	0.00000270
WC03b102	Area	829382	841043	146.7	19.4	0	73.0	0.00001892				0.00000021	0.00000270
WC04a101	Area	827466	840625	15.8	46.9	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a102	Area	827487	840675	9.0	57.4	0	-35.0	0.00001892				0.00000021	0.00000270
WC04a103	Area	827537	840703	16.3	59.8	0	-65.0	0.00001892				0.00000021	0.00000270
WC04a104	Area	827618	840752	58.5	103.6	0	-35.0	0.00001892				0.00000021	0.00000270
WC04a105	Area	827641	840720	14.9	67.5	0	-35.0	0.00001892				0.00000021	0.00000270
WC04a106	Area	827709	840840	31.1	141.0	0	-55.0	0.00001892				0.00000021	0.00000270
WC04a107	Area	827792	840919	29.7	78.6	0	-25.0	0.00001892				0.00000021	0.00000270
WC04a108	Area	828169	841022	52.7	194.0	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a109	Area	827813	841016	52.1	110.8	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a110	Area	827820	841083	53.2	24.1	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a111	Area	827826	841106	43.3	19.0	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a112	Area	827836	841127	27.7	22.0	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a113	Area	827856	841167	11.7	38.1	0	-5.0	0.00001892				0.00000021	0.00000270
WC04a114	Area	827867	841216	14.3	60.1	0	-15.0	0.00001892				0.00000021	0.00000270
WC04a115	Area	827878	841277	9.9	58.3	0	0.0	0.00001892				0.00000021	0.00000270
WC04a116	Area	827888	841336	9.9	58.8	0	-20.0	0.00001892				0.00000021	0.00000270
WC04a117	Area	827906	841375	8.9	22.3	0	-40.0	0.00001892				0.00000021	0.00000270
WC04a118	Area	827966	841422	7.9	126.5	0	-53.0	0.00001892				0.00000021	0.00000270
WC04a119	Area	828110	841492	6.8	115.9	0	-83.0	0.00001892				0.00000021	0.00000270
WC04a120	Area	828085	841499	10.3	12.5	0	-83.0	0.00001892				0.00000021	0.00000270
WC04a121	Area	828193	841518	5.2	60.6	0	-53.0	0.00001892				0.00000021	0.00000270
WC04a122	Area	828233	841565	8.1	61.0	0	-23.0	0.00001892				0.00000021	0.00000270
WC04a123	Area	828233	841639	73.1	79.8	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a124	Area	828178	841623	8.7	15.2	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a125	Area	828194	841647	6.7	69.6	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a126	Area	828196	841595	80.4	26.4	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a127	Area	828172	841569	23.8	38.8	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a128	Area	828194	841565	20.3	32.3	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a129	Area	828214	841570	14.1	9.6	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a130	Area	828281	841707	16.3	75.8	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a131	Area	828315	841784	25.0	87.8	0	-23.0	0.00001892				0.00000021	0.00000270
WC04a132	Area	828371	841812	56.2	25.7	0	-3.0	0.00001892				0.00000021	0.00000270
WC04a133	Area	828207	841562	5.9	9.6	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a134	Area	828156	841580	13.8	26.2	0	-18.0	0.00001892				0.00000021	0.00000270
WC04a135	Area	828131	841488	6.8	41.2	0	-83.0	0.00001892				0.00000021	0.00000270
WC04a136	Area	828058	841478	7.4	26.1	0	-83.0	0.00001892				0.00000021	0.00000270
WC04a137	Area	828030	841469	5.6	32.6	0	-53.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 2) TSP concentration calculation - 2018, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC04b101	Area	827691	840696	56.2	89.0	0	-5.0	0.00001892				0.00000021	0.00000270
WC04b102	Area	827647	840704	11.0	42.1	0	-35.0	0.00001892				0.00000021	0.00000270
WC04b103	Area	827652	840692	8.2	26.1	0	-35.0	0.00001892				0.00000021	0.00000270
WC04b201	Area	827918	840528	90.7	31.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC04b202	Area	828037	840510	146.8	32.7	0	-5.0	0.00001892				0.00000021	0.00000270
WC09a101	Area	829014	841834	75.5	68.6	0	-31.0	0.00001892				0.00000021	0.00000270
WC09b101	Area	828348	841850	39.2	4.7	0	81.0	0.00001892				0.00000021	0.00000270
WC09b102	Area	828399	841899	108.2	4.4	0	32.0	0.00001892				0.00000021	0.00000270
WC09c101	Area	829606	841857	9.7	78.1	0	-66.0	0.00001892				0.00000021	0.00000270
WC09c102	Area	829662	841878	10.0	39.2	0	-76.0	0.00001892				0.00000021	0.00000270
WC09c103	Area	829690	841895	10.0	19.7	0	-38.0	0.00001892				0.00000021	0.00000270
WC21b101	Area	827947	841264	23.3	49.2	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b102	Area	827907	841234	23.3	49.2	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b103	Area	827903	841271	41.1	10.7	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b104	Area	827898	841262	31.0	7.4	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b105	Area	827895	841253	20.9	7.4	0	-53.0	0.00001892				0.00000021	0.00000270
WC21b106	Area	827891	841245	11.7	8.7	0	-53.0	0.00001892				0.00000021	0.00000270
WC31a101	Area	827623	840676	72.8	13.4	0	-10.0	0.00001892				0.00000021	0.00000270
WC31a102	Area	827613	840687	48.1	4.0	0	-10.0	0.00001892				0.00000021	0.00000270
WC31a103	Area	827598	840694	16.8	5.6	0	-10.0	0.00001892				0.00000021	0.00000270
WC33b101	Area	828388	841254	249.9	79.8	0	-53.0	0.00001892				0.00000021	0.00000270
WC33b102	Area	828481	841131	57.6	67.7	0	-53.0	0.00001892				0.00000021	0.00000270
WC33b103	Area	828253	841326	27.1	22.4	0	-53.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 2) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC10a101	Area	827317	840529	171.1	33.7	0	-1.0	0.00001892				0.00000021	0.00000270
WC10a102	Area	827555	840557	288.9	42.5	0	-6.0	0.00001892				0.00000021	0.00000270
WC10a103	Area	827828	840518	261.1	43.0	0	-6.0	0.00001892				0.00000021	0.00000270
WC10a104	Area	827088	840478	50.6	126.0	0	-76.0	0.00001892				0.00000021	0.00000270
WC10a105	Area	827690	840631	155.9	24.8	0	-71.0	0.00001892				0.00000021	0.00000270
WC10a106	Area	827465	840619	11.1	60.2	0	-6.0	0.00001892				0.00000021	0.00000270
WC10a201	Area	827400	840710	104.8	23.2	0	-15.0	0.00001892				0.00000021	0.00000270
WC10a202	Area	827458	840696	24.5	5.5	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a203	Area	827453	840688	10.5	6.8	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a204	Area	827447	840683	4.1	7.0	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a205	Area	827461	840677	12.5	30.1	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a206	Area	827478	840683	7.6	5.5	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a207	Area	827462	840669	4.7	20.2	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a208	Area	827464	840664	4.0	11.1	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a209	Area	827465	840661	2.3	6.8	0	-80.0	0.00001892				0.00000021	0.00000270
WC11a101	Area	829170	840591	210.4	24.9	0	-9.0	0.00001892				0.00000021	0.00000270
WC11a102	Area	829197	840617	101.5	31.7	0	-9.0	0.00001892				0.00000021	0.00000270
WC11a103	Area	829346	840546	64.3	53.9	0	-57.0	0.00001892				0.00000021	0.00000270
WC11a104	Area	829376	840559	76.0	10.0	0	-57.0	0.00001892				0.00000021	0.00000270
WC11a105	Area	828860	840562	104.6	152.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC11a106	Area	828734	840515	139.4	83.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC11a107	Area	829396	840554	43.8	14.4	0	-57.0	0.00001892				0.00000021	0.00000270
WC11a108	Area	829207	840845	98.0	25.2	0	-54.0	0.00001892				0.00000021	0.00000270
WC11a109	Area	829233	840837	136.3	5.7	0	-54.0	0.00001892				0.00000021	0.00000270
WC11a110	Area	829210	840897	11.6	27.6	0	-54.0	0.00001892				0.00000021	0.00000270
WC11a111	Area	829293	840926	86.0	93.5	0	-14.0	0.00001892				0.00000021	0.00000270
WC11a112	Area	829240	840921	11.1	45.2	0	-14.0	0.00001892				0.00000021	0.00000270
WC11a113	Area	829285	840870	68.1	17.6	0	-14.0	0.00001892				0.00000021	0.00000270
WC11a114	Area	829301	840850	25.1	13.3	0	-14.0	0.00001892				0.00000021	0.00000270
WC11b101	Area	828158	840896	65.9	60.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b102	Area	828323	840895	81.0	86.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b103	Area	828229	840908	69.8	23.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b104	Area	828258	840860	37.8	4.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b105	Area	828275	840921	18.5	41.6	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b106	Area	828328	840684	32.9	333.7	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b201	Area	827498	840733	8.3	31.7	0	-75.0	0.00001892				0.00000021	0.00000270
WC11b202	Area	827522	840748	6.3	22.5	0	-75.0	0.00001892				0.00000021	0.00000270
WC12a101	Area	828057	841356	80.7	78.0	0	-52.0	0.00001892				0.00000021	0.00000270
WC12a102	Area	827819	841300	36.4	83.4	0	-57.0	0.00001892				0.00000021	0.00000270
WC12a103	Area	827847	841281	25.3	41.3	0	-57.0	0.00001892				0.00000021	0.00000270
WC12a104	Area	828291	841524	136.0	63.3	0	-54.0	0.00001892				0.00000021	0.00000270
WC12a105	Area	828291	841135	23.1	43.6	0	-54.0	0.00001892				0.00000021	0.00000270
WC12a106	Area	828400	841578	47.1	167.7	0	-54.0	0.00001892				0.00000021	0.00000270
WC12a107	Area	828280	841639	8.1	92.6	0	-19.0	0.00001892				0.00000021	0.00000270
WC12a108	Area	827946	841198	30.8	126.7	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a109	Area	828067	841162	29.6	75.4	0	-53.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 2) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12a110	Area	828117	841155	42.4	38.7	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a111	Area	828181	841148	41.0	51.6	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a112	Area	828240	841138	41.0	31.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a113	Area	827990	841185	36.8	113.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a114	Area	828029	841173	29.5	90.4	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a115	Area	828331	841159	21.0	44.2	0	-64.0	0.00001892				0.00000021	0.00000270
WC12a116	Area	828286	841616	14.4	40.8	0	-19.0	0.00001892				0.00000021	0.00000270
WC12a117	Area	828233	841484	80.7	62.5	0	-52.0	0.00001892				0.00000021	0.00000270
WC12b201	Area	827985	841390	52.6	8.8	0	-52.0	0.00001892				0.00000021	0.00000270
WC12b301	Area	828323	841126	15.5	37.4	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b302	Area	828362	841125	22.6	42.8	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b303	Area	828400	841122	20.3	38.2	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b304	Area	828439	841122	20.8	23.9	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b305	Area	828474	841114	28.0	22.8	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b401	Area	828552	841190	95.9	33.8	0	-59.0	0.00001892				0.00000021	0.00000270
WC12c101	Area	828318	840969	99.1	61.7	0	-5.0	0.00001892				0.00000021	0.00000270
WC12c102	Area	829049	841037	331.1	46.8	0	-52.0	0.00001892				0.00000021	0.00000270
WC12c103	Area	829181	840992	60.3	93.9	0	-47.0	0.00001892				0.00000021	0.00000270
WC12c104	Area	829211	840968	15.1	103.8	0	-47.0	0.00001892				0.00000021	0.00000270
WC12c105	Area	829222	840956	14.6	101.9	0	-47.0	0.00001892				0.00000021	0.00000270
WC12c106	Area	829216	840932	11.9	55.8	0	-47.0	0.00001892				0.00000021	0.00000270
WC12c107	Area	828229	840965	76.1	86.5	0	-5.0	0.00001892				0.00000021	0.00000270
WC12d101	Area	828154	842225	142.3	28.0	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d102	Area	827985	842232	11.5	68.6	0	-67.0	0.00001892				0.00000021	0.00000270
WC12d103	Area	828033	842265	32.3	46.6	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d104	Area	828001	842268	39.8	8.1	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d105	Area	828193	842209	79.5	27.2	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d106	Area	828240	842062	226.8	35.3	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d107	Area	828315	842127	25.3	152.5	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d108	Area	828357	842206	15.2	165.9	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d109	Area	828406	842165	36.1	43.8	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d110	Area	828657	841779	38.6	11.3	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d111	Area	828605	841800	18.5	23.9	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d112	Area	828573	841814	18.4	22.1	0	13.0	0.00001892				0.00000021	0.00000270
WC12d113	Area	828410	841883	27.2	107.5	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d114	Area	828298	841823	34.6	20.6	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d115	Area	828719	841704	35.8	15.3	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d116	Area	828767	841617	50.1	64.0	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d117	Area	828810	841576	50.0	104.1	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d118	Area	828947	841576	58.3	95.9	0	-47.0	0.00001892				0.00000021	0.00000270
WC12d119	Area	828871	841545	69.0	14.2	0	-7.0	0.00001892				0.00000021	0.00000270
WC12d120	Area	828880	841567	23.5	30.6	0	-7.0	0.00001892				0.00000021	0.00000270
WC12d121	Area	828743	841664	50.1	20.8	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d122	Area	828694	841742	45.3	11.8	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d123	Area	828315	841837	18.7	15.0	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d124	Area	828541	841823	11.9	7.7	0	13.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 2) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d125	Area	827995	842256	23.7	12.0	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d126	Area	828219	842206	38.3	14.1	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d127	Area	829188	841564	9.5	70.1	0	-62.0	0.00001892				0.00000021	0.00000270
WC12d128	Area	829241	841607	9.5	61.7	0	-42.0	0.00001892				0.00000021	0.00000270
WC12d129	Area	829288	841665	10.0	83.9	0	-37.0	0.00001892				0.00000021	0.00000270
WC12d130	Area	829229	841558	44.1	4.9	0	-82.0	0.00001892				0.00000021	0.00000270
WC12d131	Area	829227	841518	6.7	33.0	0	-14.0	0.00001892				0.00000021	0.00000270
WC12d132	Area	829216	841431	19.8	5.2	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d133	Area	829218	841416	5.2	7.8	0	-21.0	0.00001892				0.00000021	0.00000270
WC12d134	Area	829197	841398	5.5	43.6	0	-53.0	0.00001892				0.00000021	0.00000270
WC12d135	Area	829172	841364	5.5	43.6	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d136	Area	829165	841336	5.6	11.6	0	-23.0	0.00001892				0.00000021	0.00000270
WC12d137	Area	829167	841292	24.3	5.6	0	-83.0	0.00001892				0.00000021	0.00000270
WC12d138	Area	829165	841248	5.6	62.3	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d139	Area	829169	841136	5.6	23.0	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d140	Area	829154	841095	5.0	62.8	0	-28.0	0.00001892				0.00000021	0.00000270
WC21a101	Area	827932	841284	25.7	50.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC26a101	Area	827159	840527	12.5	128.1	0	-87.0	0.00001892				0.00000021	0.00000270
WC26a102	Area	826958	840493	14.2	272.5	0	-77.0	0.00001892				0.00000021	0.00000270
RG609	Area	827622	842617	18.2	313.9	0	-57.0	0.00003075				0.00000021	0.00000270
RG610	Area	827791	842722	17.5	76.3	0	-60.0	0.00003075				0.00000021	0.00000270
RG611	Area	827866	842724	76.3	15.8	0	-20.0	0.00003075				0.00000021	0.00000270
RG612	Area	827928	842687	16.5	64.1	0	40.0	0.00003075				0.00000021	0.00000270
RG613	Area	827976	842467	384.4	12.9	0	-83.0	0.00003075				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 2) TSP concentration calculation - 2028, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC10b101	Area	828374	840416	840.1	5.6	0	-5.0	0.00001892				0.00000021	0.00000270
WC10b102	Area	828128	840484	338.9	15.8	0	-3.0	0.00001892				0.00000021	0.00000270
WC10b103	Area	828318	840498	43.4	29.8	0	-2.0	0.00001892				0.00000021	0.00000270
WC10b104	Area	828620	840472	355.6	10.0	0	-3.0	0.00001892				0.00000021	0.00000270
WC10c101	Area	828943	840428	66.0	35.3	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c102	Area	828875	840384	157.5	20.0	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c103	Area	828915	840315	11.8	109.5	0	-26.0	0.00001892				0.00000021	0.00000270
WC10c104	Area	828876	840256	29.5	12.4	0	33.0	0.00001892				0.00000021	0.00000270
WC10c105	Area	829335	840354	35.8	86.1	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c106	Area	829335	840442	20.6	87.7	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c107	Area	829277	840574	198.8	18.2	0	-54.0	0.00001892				0.00000021	0.00000270
WC10c108	Area	828954	840398	14.5	19.3	0	-26.0	0.00001892				0.00000021	0.00000270
WC10c109	Area	829462	840356	210.9	14.2	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c110	Area	829441	840319	173.8	27.2	0	-6.0	0.00001892				0.00000021	0.00000270
WC10c111	Area	829663	840347	259.1	13.5	0	-8.0	0.00001892				0.00000021	0.00000270
WC10c112	Area	829810	840280	65.7	29.9	0	-86.0	0.00001892				0.00000021	0.00000270
WC10c113	Area	830038	840286	44.1	57.1	0	-86.0	0.00001892				0.00000021	0.00000270
WC10c114	Area	828885	840244	9.7	14.5	0	35.0	0.00001892				0.00000021	0.00000270
WC10c115	Area	829465	840372	70.9	16.7	0	-6.0	0.00001892				0.00000021	0.00000270
WC11b101	Area	828158	840896	65.9	60.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b102	Area	828323	840895	81.0	86.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b103	Area	828229	840908	69.8	23.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b104	Area	828258	840860	37.8	4.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b105	Area	828275	840921	18.5	41.6	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b106	Area	828328	840684	32.9	333.7	0	-5.0	0.00001892				0.00000021	0.00000270
WC12d101	Area	828154	842225	142.3	28.0	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d102	Area	827985	842232	11.5	68.6	0	-67.0	0.00001892				0.00000021	0.00000270
WC12d103	Area	828033	842265	32.3	46.6	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d104	Area	828001	842268	39.8	8.1	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d105	Area	828193	842209	79.5	27.2	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d106	Area	828240	842062	226.8	35.3	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d107	Area	828315	842127	25.3	152.5	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d108	Area	828357	842206	15.2	165.9	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d109	Area	828406	842165	36.1	43.8	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d110	Area	828657	841779	38.6	11.3	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d111	Area	828605	841800	18.5	23.9	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d112	Area	828573	841814	18.4	22.1	0	13.0	0.00001892				0.00000021	0.00000270
WC12d113	Area	828410	841883	27.2	107.5	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d114	Area	828298	841823	34.6	20.6	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d115	Area	828719	841704	35.8	15.3	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d116	Area	828767	841617	50.1	64.0	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d117	Area	828810	841576	50.0	104.1	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d118	Area	828947	841576	58.3	95.9	0	-47.0	0.00001892				0.00000021	0.00000270
WC12d119	Area	828871	841545	69.0	14.2	0	-7.0	0.00001892				0.00000021	0.00000270
WC12d120	Area	828880	841567	23.5	30.6	0	-7.0	0.00001892				0.00000021	0.00000270
WC12d121	Area	828743	841664	50.1	20.8	0	-77.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 2) TSP concentration calculation - 2028, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d122	Area	828694	841742	45.3	11.8	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d123	Area	828315	841837	18.7	15.0	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d124	Area	828541	841823	11.9	7.7	0	13.0	0.00001892				0.00000021	0.00000270
WC12d125	Area	827995	842256	23.7	12.0	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d126	Area	828219	842206	38.3	14.1	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d127	Area	829188	841564	9.5	70.1	0	-62.0	0.00001892				0.00000021	0.00000270
WC12d128	Area	829241	841607	9.5	61.7	0	-42.0	0.00001892				0.00000021	0.00000270
WC12d129	Area	829288	841665	10.0	83.9	0	-37.0	0.00001892				0.00000021	0.00000270
WC12d130	Area	829229	841558	44.1	4.9	0	-82.0	0.00001892				0.00000021	0.00000270
WC12d131	Area	829227	841518	6.7	33.0	0	-14.0	0.00001892				0.00000021	0.00000270
WC12d132	Area	829216	841431	19.8	5.2	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d133	Area	829218	841416	5.2	7.8	0	-21.0	0.00001892				0.00000021	0.00000270
WC12d134	Area	829197	841398	5.5	43.6	0	-53.0	0.00001892				0.00000021	0.00000270
WC12d135	Area	829172	841364	5.5	43.6	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d136	Area	829165	841336	5.6	11.6	0	-23.0	0.00001892				0.00000021	0.00000270
WC12d137	Area	829167	841292	24.3	5.6	0	-83.0	0.00001892				0.00000021	0.00000270
WC12d138	Area	829165	841248	5.6	62.3	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d139	Area	829169	841136	5.6	23.0	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d140	Area	829154	841095	5.0	62.8	0	-28.0	0.00001892				0.00000021	0.00000270
WC26a101	Area	827159	840527	12.5	128.1	0	-87.0	0.00001892				0.00000021	0.00000270
WC26a102	Area	826958	840493	14.2	272.5	0	-77.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 3) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC10a101	Area	827317	840529	171.1	33.7	0	-1.0	0.00001892				0.00000021	0.00000270
WC10a102	Area	827555	840557	288.9	42.5	0	-6.0	0.00001892				0.00000021	0.00000270
WC10a103	Area	827828	840518	261.1	43.0	0	-6.0	0.00001892				0.00000021	0.00000270
WC10a104	Area	827088	840478	50.6	126.0	0	-76.0	0.00001892				0.00000021	0.00000270
WC10a105	Area	827690	840631	155.9	24.8	0	-71.0	0.00001892				0.00000021	0.00000270
WC10a106	Area	827465	840619	11.1	60.2	0	-6.0	0.00001892				0.00000021	0.00000270
WC10a201	Area	827400	840710	104.8	23.2	0	-15.0	0.00001892				0.00000021	0.00000270
WC10a202	Area	827458	840696	24.5	5.5	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a203	Area	827453	840688	10.5	6.8	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a204	Area	827447	840683	4.1	7.0	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a205	Area	827461	840677	12.5	30.1	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a206	Area	827478	840683	7.6	5.5	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a207	Area	827462	840669	4.7	20.2	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a208	Area	827464	840664	4.0	11.1	0	-80.0	0.00001892				0.00000021	0.00000270
WC10a209	Area	827465	840661	2.3	6.8	0	-80.0	0.00001892				0.00000021	0.00000270
WC11a101	Area	829170	840591	210.4	24.9	0	-9.0	0.00001892				0.00000021	0.00000270
WC11a102	Area	829197	840617	101.5	31.7	0	-9.0	0.00001892				0.00000021	0.00000270
WC11a103	Area	829346	840546	64.3	53.9	0	-57.0	0.00001892				0.00000021	0.00000270
WC11a104	Area	829376	840559	76.0	10.0	0	-57.0	0.00001892				0.00000021	0.00000270
WC11a105	Area	828860	840562	104.6	152.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC11a106	Area	828734	840515	139.4	83.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC11a107	Area	829396	840554	43.8	14.4	0	-57.0	0.00001892				0.00000021	0.00000270
WC11a108	Area	829207	840845	98.0	25.2	0	-54.0	0.00001892				0.00000021	0.00000270
WC11a109	Area	829233	840837	136.3	5.7	0	-54.0	0.00001892				0.00000021	0.00000270
WC11a110	Area	829210	840897	11.6	27.6	0	-54.0	0.00001892				0.00000021	0.00000270
WC11a111	Area	829293	840926	86.0	93.5	0	-14.0	0.00001892				0.00000021	0.00000270
WC11a112	Area	829240	840921	11.1	45.2	0	-14.0	0.00001892				0.00000021	0.00000270
WC11a113	Area	829285	840870	68.1	17.6	0	-14.0	0.00001892				0.00000021	0.00000270
WC11a114	Area	829301	840850	25.1	13.3	0	-14.0	0.00001892				0.00000021	0.00000270
WC11b101	Area	828158	840896	65.9	60.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b102	Area	828303	840897	40.7	86.3	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b103	Area	828229	840908	69.8	23.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b104	Area	828258	840860	37.8	4.4	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b105	Area	828275	840921	18.5	41.6	0	-5.0	0.00001892				0.00000021	0.00000270
WC11b201	Area	827498	840733	8.3	31.7	0	-75.0	0.00001892				0.00000021	0.00000270
WC11b202	Area	827522	840748	6.3	22.5	0	-75.0	0.00001892				0.00000021	0.00000270
WC12a101	Area	828057	841356	80.7	78.0	0	-52.0	0.00001892				0.00000021	0.00000270
WC12a102	Area	827819	841300	36.4	83.4	0	-57.0	0.00001892				0.00000021	0.00000270
WC12a103	Area	827847	841281	25.3	41.3	0	-57.0	0.00001892				0.00000021	0.00000270
WC12a104	Area	828291	841524	136.0	63.3	0	-54.0	0.00001892				0.00000021	0.00000270
WC12a105	Area	828291	841135	23.1	43.6	0	-54.0	0.00001892				0.00000021	0.00000270
WC12a106	Area	828400	841578	47.1	167.7	0	-54.0	0.00001892				0.00000021	0.00000270
WC12a107	Area	828280	841639	8.1	92.6	0	-19.0	0.00001892				0.00000021	0.00000270
WC12a108	Area	827946	841198	30.8	126.7	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a109	Area	828067	841162	29.6	75.4	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a110	Area	828117	841155	42.4	38.7	0	-53.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 3) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12a111	Area	828181	841148	41.0	51.6	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a112	Area	828240	841138	41.0	31.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a113	Area	827990	841185	36.8	113.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a114	Area	828029	841173	29.5	90.4	0	-53.0	0.00001892				0.00000021	0.00000270
WC12a115	Area	828331	841159	21.0	44.2	0	-64.0	0.00001892				0.00000021	0.00000270
WC12a116	Area	828286	841616	14.4	40.8	0	-19.0	0.00001892				0.00000021	0.00000270
WC12a117	Area	828233	841484	80.7	62.5	0	-52.0	0.00001892				0.00000021	0.00000270
WC12b201	Area	827985	841390	52.6	8.8	0	-52.0	0.00001892				0.00000021	0.00000270
WC12b301	Area	828323	841126	15.5	37.4	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b302	Area	828362	841125	22.6	42.8	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b303	Area	828400	841122	20.3	38.2	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b304	Area	828439	841122	20.8	23.9	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b305	Area	828474	841114	28.0	22.8	0	-59.0	0.00001892				0.00000021	0.00000270
WC12b401	Area	828552	841190	95.9	33.8	0	-59.0	0.00001892				0.00000021	0.00000270
WC12c101	Area	828318	840969	99.1	61.7	0	-5.0	0.00001892				0.00000021	0.00000270
WC12c102	Area	829058	841045	331.1	23.4	0	-52.0	0.00001892				0.00000021	0.00000270
WC12c103	Area	829181	840992	60.3	93.9	0	-47.0	0.00001892				0.00000021	0.00000270
WC12c104	Area	829211	840968	15.1	103.8	0	-47.0	0.00001892				0.00000021	0.00000270
WC12c105	Area	829222	840956	14.6	101.9	0	-47.0	0.00001892				0.00000021	0.00000270
WC12c106	Area	829216	840932	11.9	55.8	0	-47.0	0.00001892				0.00000021	0.00000270
WC12c107	Area	828230	840964	73.4	88.1	0	-5.0	0.00001892				0.00000021	0.00000270
WC12d101	Area	828154	842225	142.3	28.0	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d102	Area	827985	842232	11.5	68.6	0	-67.0	0.00001892				0.00000021	0.00000270
WC12d103	Area	828033	842265	32.3	46.6	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d104	Area	828001	842268	39.8	8.1	0	-66.0	0.00001892				0.00000021	0.00000270
WC12d105	Area	828193	842209	79.5	27.2	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d106	Area	828240	842062	226.8	35.3	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d107	Area	828315	842127	25.3	152.5	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d108	Area	828357	842206	15.2	165.9	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d109	Area	828406	842165	36.1	43.8	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d110	Area	828657	841779	38.6	11.3	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d111	Area	828605	841800	18.5	23.9	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d112	Area	828573	841814	18.4	22.1	0	13.0	0.00001892				0.00000021	0.00000270
WC12d113	Area	828410	841883	27.2	107.5	0	-57.0	0.00001892				0.00000021	0.00000270
WC12d114	Area	828298	841823	34.6	20.6	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d115	Area	828719	841704	35.8	15.3	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d116	Area	828767	841617	50.1	64.0	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d117	Area	828810	841576	50.0	104.1	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d118	Area	828947	841576	58.3	95.9	0	-47.0	0.00001892				0.00000021	0.00000270
WC12d119	Area	828871	841545	69.0	14.2	0	-7.0	0.00001892				0.00000021	0.00000270
WC12d120	Area	828880	841567	23.5	30.6	0	-7.0	0.00001892				0.00000021	0.00000270
WC12d121	Area	828743	841664	50.1	20.8	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d122	Area	828694	841742	45.3	11.8	0	-77.0	0.00001892				0.00000021	0.00000270
WC12d123	Area	828315	841837	18.7	15.0	0	-27.0	0.00001892				0.00000021	0.00000270
WC12d124	Area	828541	841823	11.9	7.7	0	13.0	0.00001892				0.00000021	0.00000270
WC12d125	Area	827995	842256	23.7	12.0	0	-66.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA 1-hr & 24-hr (Tier 3) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC12d126	Area	828219	842206	38.3	14.1	0	-64.0	0.00001892				0.00000021	0.00000270
WC12d127	Area	829188	841564	9.5	70.1	0	-62.0	0.00001892				0.00000021	0.00000270
WC12d128	Area	829241	841607	9.5	61.7	0	-42.0	0.00001892				0.00000021	0.00000270
WC12d129	Area	829288	841665	10.0	83.9	0	-37.0	0.00001892				0.00000021	0.00000270
WC12d130	Area	829229	841558	44.1	4.9	0	-82.0	0.00001892				0.00000021	0.00000270
WC12d131	Area	829227	841518	6.7	33.0	0	-14.0	0.00001892				0.00000021	0.00000270
WC12d132	Area	829216	841431	19.8	5.2	0	-71.0	0.00001892				0.00000021	0.00000270
WC12d133	Area	829218	841416	5.2	7.8	0	-21.0	0.00001892				0.00000021	0.00000270
WC12d134	Area	829197	841398	5.5	43.6	0	-53.0	0.00001892				0.00000021	0.00000270
WC12d135	Area	829172	841364	5.5	43.6	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d136	Area	829165	841336	5.6	11.6	0	-23.0	0.00001892				0.00000021	0.00000270
WC12d137	Area	829167	841292	24.3	5.6	0	-83.0	0.00001892				0.00000021	0.00000270
WC12d138	Area	829165	841248	5.6	62.3	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d139	Area	829169	841136	5.6	23.0	0	-8.0	0.00001892				0.00000021	0.00000270
WC12d140	Area	829154	841095	5.0	62.8	0	-28.0	0.00001892				0.00000021	0.00000270
WC21a101	Area	827932	841284	25.7	50.0	0	-53.0	0.00001892				0.00000021	0.00000270
WC26a101	Area	827159	840527	12.5	128.1	0	-87.0	0.00001892				0.00000021	0.00000270
WC26a102	Area	826958	840493	14.2	272.5	0	-77.0	0.00001892				0.00000021	0.00000270
RG609	Area	827622	842617	18.2	313.9	0	-57.0	0.00003075				0.00000021	0.00000270
RG610	Area	827791	842722	17.5	76.3	0	-60.0	0.00003075				0.00000021	0.00000270
RG611	Area	827866	842724	76.3	15.8	0	-20.0	0.00003075				0.00000021	0.00000270
RG612	Area	827928	842687	16.5	64.1	0	40.0	0.00003075				0.00000021	0.00000270
RG613	Area	827976	842467	384.4	12.9	0	-83.0	0.00003075				0.00000021	0.00000270

Project: 25278 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	refer to Appendix 3.2 for Justification
Mitigation efficiency (%):	0.00%	watering once per hour
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):	0.000014370	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%	watering once per hour
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):	0.000239494	calculated, 12 working hours per day

Project: 25278 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	refer to Appendix 3.2 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)	0.0000001617	calculated, 24-hour emission

Unmitigated (Day Time)

Active operating area (%):	6	refer to Appendix 3.2 for Justification
Mitigation efficiency (%)	0.00%	watering once per hour
E (g/sqm/day)	0.013972603	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000001617	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)	0.0000026953	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%	watering once per hour
E (g/sqm/day)	0.232876712	calculated as in AP-42 (S11.9, Table 11.9.4)
E (g/sq.m/s)	0.0000026953	calculated, 24-hour emission

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2018, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC07a101	Area	833351.3	840202.8	163.5	74.6	0	-61.0	0.00023949				0.00000270	0.00000270
WC19a101	Area	832022.9	841510.3	19.6	62	0	-66.0	0.00023949				0.00000270	0.00000270
WC19a102	Area	832009.2	841525.6	33.7	18.5	0	23.0	0.00023949				0.00000270	0.00000270
WC21c101	Area	830705.7	841999.1	74.6	36.3	0	-76.0	0.00023949				0.00000270	0.00000270
WC21c102	Area	830805.8	841934.1	254.2	35	0	-74.0	0.00023949				0.00000270	0.00000270
WC21c103	Area	830861.6	841933.4	221.7	69.6	0	-74.0	0.00023949				0.00000270	0.00000270
WC21c104	Area	830929	841959.7	208.7	74.6	0	-74.0	0.00023949				0.00000270	0.00000270
WC21c105	Area	830752.4	841979	137.5	38.8	0	-74.0	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA Annual TSP concentration calculation - 2018, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC07a101	Area	833351.3	840202.8	163.5	74.6	0	-61.0	0.00001437				0.000000162	0.000000162
WC19a101	Area	832022.9	841510.3	19.6	62	0	-66.0	0.00001437				0.000000162	0.000000162
WC19a102	Area	832009.2	841525.6	33.7	18.5	0	23.0	0.00001437				0.000000162	0.000000162
WC21c101	Area	830705.7	841999.1	74.6	36.3	0	-76.0	0.00001437				0.000000162	0.000000162
WC21c102	Area	830805.8	841934.1	254.2	35	0	-74.0	0.00001437				0.000000162	0.000000162
WC21c103	Area	830861.6	841933.4	221.7	69.6	0	-74.0	0.00001437				0.000000162	0.000000162
WC21c104	Area	830929	841959.7	208.7	74.6	0	-74.0	0.00001437				0.000000162	0.000000162
WC21c105	Area	830752.4	841979	137.5	38.8	0	-74.0	0.00001437				0.000000162	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2021, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC03d101	Area	831172.5	841543.4	51.8	68.3	0	-13	0.00023949				0.00000270	0.00000270
WC03d102	Area	831084.1	841551.9	23.9	53.9	0	-9	0.00023949				0.00000270	0.00000270
WC03d103	Area	831118.3	841533.7	47.7	26.9	0	-8	0.00023949				0.00000270	0.00000270
WC03d104	Area	831055.7	841522.6	18.7	76.5	0	-7	0.00023949				0.00000270	0.00000270
WC03d105	Area	831019.3	841495	12.6	46	0	83	0.00023949				0.00000270	0.00000270
WC03d106	Area	830956.1	841499.8	11	79.2	0	89	0.00023949				0.00000270	0.00000270
WC03d107	Area	830863.6	841489.6	10.5	104.6	0	-79	0.00023949				0.00000270	0.00000270
WC03d108	Area	830743.5	841444.2	10.2	150.9	0	-64	0.00023949				0.00000270	0.00000270
WC03d109	Area	830634.5	841378.7	11.1	102.5	0	-51	0.00023949				0.00000270	0.00000270
WC03d110	Area	830566.3	841299.1	13.6	103.3	0	-31	0.00023949				0.00000270	0.00000270
WC03d111	Area	830504.2	841283.3	13.6	74.6	0	55	0.00023949				0.00000270	0.00000270
WC03d112	Area	831069.4	841619.6	22.1	116.6	0	-7	0.00023949				0.00000270	0.00000270
WC03d113	Area	831070.5	841729.9	22.1	98.8	0	4	0.00023949				0.00000270	0.00000270
WC03d114	Area	831059.6	841806.3	53.2	12.3	0	-83	0.00023949				0.00000270	0.00000270
WC03d115	Area	831059.8	841842.9	18.4	169	0	-84	0.00023949				0.00000270	0.00000270
WC03d116	Area	831053.4	841856.2	7.6	128	0	-84	0.00023949				0.00000270	0.00000270
WC03d117	Area	831051.8	841863.7	7.2	99.5	0	-84	0.00023949				0.00000270	0.00000270
WC03d118	Area	831049.2	841871.7	8.3	78.2	0	-84	0.00023949				0.00000270	0.00000270
WC03d119	Area	830923	841823.8	21.6	103.8	0	-74	0.00023949				0.00000270	0.00000270
WC03d120	Area	830847.8	841798.4	23.9	51.3	0	-64	0.00023949				0.00000270	0.00000270
WC03d121	Area	830799.7	841761.2	18.1	65.7	0	-53	0.00023949				0.00000270	0.00000270
WC03d122	Area	830714.8	841675.3	13	173.3	0	-43	0.00023949				0.00000270	0.00000270
WC03d123	Area	830633	841594.2	11.9	55.3	0	-52	0.00023949				0.00000270	0.00000270
WC03d124	Area	830580.1	841571.7	24.4	54.6	0	-68	0.00023949				0.00000270	0.00000270
WC03d125	Area	830518.6	841554.5	23.9	68.9	0	-79	0.00023949				0.00000270	0.00000270
WC03d126	Area	830462.4	841546.9	21.9	22.6	0	-90	0.00023949				0.00000270	0.00000270
WC03d127	Area	830410.5	841555.9	21.8	78.2	0	77	0.00023949				0.00000270	0.00000270
WC03d128	Area	830334.5	841586.7	20.4	81.2	0	60	0.00023949				0.00000270	0.00000270
WC03d129	Area	830284	841624.9	23.2	41	0	49	0.00023949				0.00000270	0.00000270
WC03d130	Area	830248.2	841667.1	22.3	65.3	0	36	0.00023949				0.00000270	0.00000270
WC03d131	Area	830211.8	841728.7	74.4	22.5	0	-61	0.00023949				0.00000270	0.00000270
WC03d132	Area	830166.4	841742.6	7	42.7	0	-63	0.00023949				0.00000270	0.00000270
WC03d133	Area	830179.4	841772.9	34	8.5	0	-63	0.00023949				0.00000270	0.00000270
WC03d134	Area	830187.7	841772.1	24.6	5	0	-62	0.00023949				0.00000270	0.00000270
WC03d135	Area	830193.1	841771.2	17.8	3.6	0	-62	0.00023949				0.00000270	0.00000270
WC03d136	Area	830198.9	841769.3	8.9	4.6	0	-61	0.00023949				0.00000270	0.00000270
WC03e101	Area	831337	841453.1	125.5	21.6	0	-32	0.00023949				0.00000270	0.00000270
WC03e102	Area	831443.5	841376.2	134.1	27	0	-41	0.00023949				0.00000270	0.00000270
WC03e103	Area	831540.8	841249.6	180.5	26.4	0	-61	0.00023949				0.00000270	0.00000270
WC03e104	Area	831613.1	841130.2	96.1	28.3	0	-54	0.00023949				0.00000270	0.00000270
WC03e105	Area	831685.3	841045.5	124	23.1	0	-48	0.00023949				0.00000270	0.00000270
WC03e106	Area	831809.9	840941.4	197.5	21.6	0	-35	0.00023949				0.00000270	0.00000270
WC03e107	Area	831911.4	840855.4	65.4	17.6	0	-52	0.00023949				0.00000270	0.00000270
WC03e108	Area	831238.2	841502.8	92	21.8	0	-19	0.00023949				0.00000270	0.00000270
WC03f101	Area	831942.2	840787.1	69.2	23	0	-65	0.00023949				0.00000270	0.00000270
WC03f102	Area	831991.7	840709.2	111.4	23.2	0	-53	0.00023949				0.00000270	0.00000270
WC03f103	Area	832084.2	840630.7	126.1	21.3	0	-30	0.00023949				0.00000270	0.00000270
WC03f104	Area	832173.8	840594.8	61.9	20.8	0	-7	0.00023949				0.00000270	0.00000270
WC03f105	Area	832271.1	840585.6	132	25.1	0	-3	0.00023949				0.00000270	0.00000270
WC03f106	Area	832441.9	840578.1	210.1	20.9	0	-3	0.00023949				0.00000270	0.00000270
WC03f107	Area	831959.9	840817.4	34	30.4	0	-57	0.00023949				0.00000270	0.00000270
WC06a101	Area	832933.3	840560.1	494.4	91.3	0	-88	0.00023949				0.00000270	0.00000270
WC06a102	Area	833012.7	840523.3	415.1	59	0	-88	0.00023949				0.00000270	0.00000270

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC06a103	Area	833071.3	840363.5	92	44.8	0	-88	0.00023949				0.00000270	0.00000270
WC06a104	Area	833107	840331.4	24	37.5	0	0	0.00023949				0.00000270	0.00000270
WC06a105	Area	832904.3	840288.8	29.2	31.8	0	-86	0.00023949				0.00000270	0.00000270
WC06a106	Area	832909.8	840832	47.2	48.6	0	-88	0.00023949				0.00000270	0.00000270
WC06b101	Area	832604.4	840407.6	144.1	21.3	0	-21	0.00023949				0.00000270	0.00000270
WC06b102	Area	832768.7	840342.6	176.6	114.9	0	4	0.00023949				0.00000270	0.00000270
WC06c101	Area	832534.3	840640.4	201	18.4	0	-67	0.00023949				0.00000270	0.00000270
WC06c102	Area	832533.4	840462.6	22.2	176.3	0	-21	0.00023949				0.00000270	0.00000270
WC06c103	Area	832605.9	840622.5	16.1	83.2	0	-42	0.00023949				0.00000270	0.00000270
WC06c104	Area	832677.8	840672.5	21.3	87	0	-73	0.00023949				0.00000270	0.00000270
WC06c105	Area	832765.3	840678.8	83.2	21.8	0	-10	0.00023949				0.00000270	0.00000270
WC06c106	Area	832829.9	840657.6	43.9	20.4	0	-38	0.00023949				0.00000270	0.00000270
WC06c107	Area	832482.9	840330.2	27.5	105.7	0	-21	0.00023949				0.00000270	0.00000270
WC07b101	Area	832999.1	840300.1	15.6	145.4	0	-86	0.00023949				0.00000270	0.00000270
WC07b102	Area	833021.9	840775.9	95	24.3	0	-54	0.00023949				0.00000270	0.00000270
WC07b103	Area	833070	840672.1	126.9	24.2	0	-75	0.00023949				0.00000270	0.00000270
WC07b104	Area	833115.4	840527.6	168.2	62.7	0	-85	0.00023949				0.00000270	0.00000270
WC07b105	Area	833214	840349	219.1	66.9	0	-42	0.00023949				0.00000270	0.00000270
WC07b106	Area	833173.6	840267.1	121.2	106	0	-41	0.00023949				0.00000270	0.00000270
WC07b107	Area	833087.1	840285.9	24.5	30.5	0	57	0.00023949				0.00000270	0.00000270
WC07b108	Area	833276.6	840163.8	147.4	92.5	0	-61	0.00023949				0.00000270	0.00000270
WC07b109	Area	832967.3	840829.4	51.4	30	0	-32	0.00023949				0.00000270	0.00000270
WC07b110	Area	833063.5	840795.2	88.8	8.7	0	-54	0.00023949				0.00000270	0.00000270
WC07b111	Area	833128	840663.2	94.9	19.8	0	-78	0.00023949				0.00000270	0.00000270
WC07b112	Area	833101.7	840734.4	51.9	15.8	0	-63	0.00023949				0.00000270	0.00000270
WC07c102	Area	832631.6	839687.4	127.5	15.3	0	-50	0.00023949				0.00000270	0.00000270
WC07c103	Area	832664.4	839612.2	18.1	166.7	0	-42	0.00023949				0.00000270	0.00000270
WC07c104	Area	832715.2	839603.6	61.3	14.4	0	-42	0.00023949				0.00000270	0.00000270
WC07c105	Area	833251	839075.5	23.4	160.3	0	-1	0.00023949				0.00000270	0.00000270
WC07c106	Area	833236	839206	21.7	96.4	0	17	0.00023949				0.00000270	0.00000270
WC07c107	Area	833180.7	839346.6	21.9	194.3	0	24	0.00023949				0.00000270	0.00000270
WC07c108	Area	833137.9	839487.9	22.1	87.5	0	5	0.00023949				0.00000270	0.00000270
WC07c109	Area	833171.9	839659.4	22.1	105.6	0	-24	0.00023949				0.00000270	0.00000270
WC07c110	Area	833143.4	839572	22.1	74	0	-10	0.00023949				0.00000270	0.00000270
WC07c111	Area	833343.3	840062.7	75.1	126.6	0	-70	0.00023949				0.00000270	0.00000270
WC07c112	Area	833365.4	839954.6	126.3	61.2	0	-89	0.00023949				0.00000270	0.00000270
WC07c113	Area	833283.7	839787.5	58.4	224.7	0	-38	0.00023949				0.00000270	0.00000270
WC07c114	Area	833263.7	839926.4	196.7	27.5	0	-90	0.00023949				0.00000270	0.00000270
WC07d101	Area	833249.6	838955.5	28.3	75.1	0	-1	0.00023949				0.00000270	0.00000270
WC07d102	Area	833246.2	838858.5	116.9	12.5	0	-85	0.00023949				0.00000270	0.00000270
WC07d103	Area	833267.9	838743	116.9	12.5	0	-74	0.00023949				0.00000270	0.00000270
WC07d104	Area	833295.8	838661	54.9	12.5	0	-65	0.00023949				0.00000270	0.00000270
WC07d105	Area	833265.7	838878.8	76	12.5	0	-78	0.00023949				0.00000270	0.00000270
WC07d106	Area	833294.7	838800.9	88.5	12.5	0	-62	0.00023949				0.00000270	0.00000270
WC07d107	Area	833345.5	838727.3	88.5	12.5	0	-48	0.00023949				0.00000270	0.00000270
WC07d108	Area	833537.7	838572.8	402.9	9.3	0	-38	0.00023949				0.00000270	0.00000270
WC07d109	Area	833729.1	838420.2	86.5	5.3	0	-38	0.00023949				0.00000270	0.00000270
WC07d110	Area	833811.4	838323.1	169.3	4.1	0	-55	0.00023949				0.00000270	0.00000270
WC07d111	Area	833877.3	838210.8	92.4	4.6	0	-68	0.00023949				0.00000270	0.00000270
WC07d112	Area	833908.5	838118.6	102.2	4.6	0	-75	0.00023949				0.00000270	0.00000270
WC07d113	Area	833918.9	837909.9	4.6	117.5	0	-10	0.00023949				0.00000270	0.00000270
WC07d114	Area	833332.1	838599	87.3	12.5	0	-56	0.00023949				0.00000270	0.00000270
WC07d115	Area	833378.2	838539.9	55.2	22	0	-43	0.00023949				0.00000270	0.00000270
WC07d116	Area	833427.5	838503.1	64.7	19.6	0	-33	0.00023949				0.00000270	0.00000270
WC07d117	Area	833498.7	838464.4	91.4	23.8	0	-30	0.00023949				0.00000270	0.00000270
WC07d118	Area	833749.3	838300.2	121.7	31.6	0	-48	0.00023949				0.00000270	0.00000270
WC07d119	Area	833808.9	838209.3	85.6	31.1	0	-68	0.00023949				0.00000270	0.00000270

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC07d120	Area	833817.7	838066.2	195.2	7.6	0	-88	0.00023949				0.00000270	0.00000270
WC07d121	Area	833767.7	837976.5	7.6	34.1	0	74	0.00023949				0.00000270	0.00000270
WC07d122	Area	833097.2	838958.3	76.5	9.8	0	-68	0.00023949				0.00000270	0.00000270
WC07d123	Area	833116.2	838857.4	128	15.4	0	-83	0.00023949				0.00000270	0.00000270
WC07d124	Area	833277.9	838554.6	7.1	41.7	0	-61	0.00023949				0.00000270	0.00000270
WC07d125	Area	833321.5	838564.6	44.6	7.4	0	-3	0.00023949				0.00000270	0.00000270
WC07d126	Area	833585.9	838425.9	91.4	40.4	0	-34	0.00023949				0.00000270	0.00000270
WC07d127	Area	833664.3	838372.3	91.4	40.4	0	-34	0.00023949				0.00000270	0.00000270
WC07d128	Area	833800.9	837971.9	7.5	29.7	0	90	0.00023949				0.00000270	0.00000270
WC07d129	Area	833854.7	838033	275.3	13.4	0	-83	0.00023949				0.00000270	0.00000270
WC07d130	Area	833924.8	838037.7	61.2	4.6	0	-85	0.00023949				0.00000270	0.00000270
WC07d131	Area	833929.4	837988.2	38	4.1	0	-90	0.00023949				0.00000270	0.00000270
WC07d132	Area	833930.7	837919.8	6.2	77.8	0	-10	0.00023949				0.00000270	0.00000270
WC08a101	Area	830220.8	841586.7	300.8	57.6	0	-55	0.00023949				0.00000270	0.00000270
WC08a102	Area	830410.1	841427	187.5	54.7	0	-55	0.00023949				0.00000270	0.00000270
WC08a103	Area	830466.1	841447.7	94.9	58.2	0	-55	0.00023949				0.00000270	0.00000270
WC08a104	Area	830517.4	841475.2	39.1	56.6	0	-55	0.00023949				0.00000270	0.00000270
WC13a101	Area	831432.9	842508.3	153	93.7	0	-90	0.00023949				0.00000270	0.00000270
WC13b101	Area	833690.5	838719.3	116.9	53.2	0	-22	0.00023949				0.00000270	0.00000270
WC13c101	Area	831272.5	842557.5	3.9	22.3	0	-73	0.00023949				0.00000270	0.00000270
WC13c102	Area	831297.8	842563.1	3.8	29.1	0	-81	0.00023949				0.00000270	0.00000270
WC13c103	Area	831322	842563.6	18.8	4.1	0	-10	0.00023949				0.00000270	0.00000270
WC13c104	Area	831339.1	842557.8	16.3	4.1	0	-28	0.00023949				0.00000270	0.00000270
WC13c105	Area	831358	842551.8	22.6	4	0	-11	0.00023949				0.00000270	0.00000270
WC13c106	Area	831377.3	842549.8	4	15.6	0	-90	0.00023949				0.00000270	0.00000270
WC28a101	Area	832250.5	840500.6	26.6	127.3	0	-17	0.00023949				0.00000270	0.00000270
WC28a102	Area	832283.9	840670	139	16.4	0	82	0.00023949				0.00000270	0.00000270
WC28a103	Area	832293.3	840792.8	52.5	99.1	0	-10	0.00023949				0.00000270	0.00000270
WC28b101	Area	832401	840808	96.5	116.8	0	-69	0.00023949				0.00000270	0.00000270
WC28b102	Area	832716.9	840895.1	44.4	197.2	0	-78	0.00023949				0.00000270	0.00000270
WC28b103	Area	832859.1	840909.7	82.1	24.2	0	-3	0.00023949				0.00000270	0.00000270
WC28b104	Area	832965.1	840914	120.4	4.8	0	0	0.00023949				0.00000270	0.00000270
WC28b105	Area	833076.7	840926.8	5.9	104.7	0	-75	0.00023949				0.00000270	0.00000270
WC28b106	Area	833171	840955.1	92.3	5.4	0	29	0.00023949				0.00000270	0.00000270
WC28b107	Area	833001.9	840839.5	62.8	21.9	0	-45	0.00023949				0.00000270	0.00000270
WC28b108	Area	833101.7	840667	75.3	23.9	0	-75	0.00023949				0.00000270	0.00000270
WC28b109	Area	832941	840881	21.7	79	0	60	0.00023949				0.00000270	0.00000270
WC28b110	Area	833043.7	840791.5	60.7	18.5	0	-56	0.00023949				0.00000270	0.00000270
WC28b111	Area	833076.8	840734.7	66.6	18.5	0	-68	0.00023949				0.00000270	0.00000270
WC28b112	Area	832538.4	840849.7	45.4	163	0	-77	0.00023949				0.00000270	0.00000270
WC33c101	Area	831166.3	841668.4	156.7	83	0	-8	0.00023949				0.00000270	0.00000270
WC33c102	Area	831175.6	841750.2	182.1	57.3	0	-1	0.00023949				0.00000270	0.00000270
WC33c103	Area	831333.5	841731.5	124	48.5	0	-15	0.00023949				0.00000270	0.00000270
WC33c104	Area	831311.7	841648.7	115.9	112.1	0	-20	0.00023949				0.00000270	0.00000270
WC33d101	Area	832777.9	840760.3	153.7	93.7	0	8	0.00023949				0.00000270	0.00000270
WC33d102	Area	832827.6	840701.4	31.2	56.9	0	-86	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA Annual TSP concentration calculation - 2021, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/sq.m)					
		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
WC03d101	Area	831172.5	841543.4	51.8	68.3	0	-13	0.00001437				0.000000162	0.000000162
WC03d102	Area	831084.1	841551.9	23.9	53.9	0	-9	0.00001437				0.000000162	0.000000162
WC03d103	Area	831118.3	841533.7	47.7	26.9	0	-8	0.00001437				0.000000162	0.000000162
WC03d104	Area	831055.7	841522.6	18.7	76.5	0	-7	0.00001437				0.000000162	0.000000162
WC03d105	Area	831019.3	841495	12.6	46	0	83	0.00001437				0.000000162	0.000000162
WC03d106	Area	830956.1	841499.8	11	79.2	0	89	0.00001437				0.000000162	0.000000162
WC03d107	Area	830863.6	841489.6	10.5	104.6	0	-79	0.00001437				0.000000162	0.000000162
WC03d108	Area	830743.5	841444.2	10.2	150.9	0	-64	0.00001437				0.000000162	0.000000162
WC03d109	Area	830634.5	841378.7	11.1	102.5	0	-51	0.00001437				0.000000162	0.000000162
WC03d110	Area	830566.3	841299.1	13.6	103.3	0	-31	0.00001437				0.000000162	0.000000162
WC03d111	Area	830504.2	841283.3	13.6	74.6	0	55	0.00001437				0.000000162	0.000000162
WC03d112	Area	831069.4	841619.6	22.1	116.6	0	-7	0.00001437				0.000000162	0.000000162
WC03d113	Area	831070.5	841729.9	22.1	98.8	0	4	0.00001437				0.000000162	0.000000162
WC03d114	Area	831059.6	841806.3	53.2	12.3	0	-83	0.00001437				0.000000162	0.000000162
WC03d115	Area	831059.8	841842.9	18.4	169	0	-84	0.00001437				0.000000162	0.000000162
WC03d116	Area	831053.4	841856.2	7.6	128	0	-84	0.00001437				0.000000162	0.000000162
WC03d117	Area	831051.8	841863.7	7.2	99.5	0	-84	0.00001437				0.000000162	0.000000162
WC03d118	Area	831049.2	841871.7	8.3	78.2	0	-84	0.00001437				0.000000162	0.000000162
WC03d119	Area	830923	841823.8	21.6	103.8	0	-74	0.00001437				0.000000162	0.000000162
WC03d120	Area	830847.8	841798.4	23.9	51.3	0	-64	0.00001437				0.000000162	0.000000162
WC03d121	Area	830799.7	841761.2	18.1	65.7	0	-53	0.00001437				0.000000162	0.000000162
WC03d122	Area	830714.8	841675.3	13	173.3	0	-43	0.00001437				0.000000162	0.000000162
WC03d123	Area	830633	841594.2	11.9	55.3	0	-52	0.00001437				0.000000162	0.000000162
WC03d124	Area	830580.1	841571.7	24.4	54.6	0	-68	0.00001437				0.000000162	0.000000162
WC03d125	Area	830518.6	841554.5	23.9	68.9	0	-79	0.00001437				0.000000162	0.000000162
WC03d126	Area	830462.4	841546.9	21.9	22.6	0	-90	0.00001437				0.000000162	0.000000162
WC03d127	Area	830410.5	841555.9	21.8	78.2	0	77	0.00001437				0.000000162	0.000000162
WC03d128	Area	830334.5	841586.7	20.4	81.2	0	60	0.00001437				0.000000162	0.000000162
WC03d129	Area	830284	841624.9	23.2	41	0	49	0.00001437				0.000000162	0.000000162
WC03d130	Area	830248.2	841667.1	22.3	65.3	0	36	0.00001437				0.000000162	0.000000162
WC03d131	Area	830211.8	841728.7	74.4	22.5	0	-61	0.00001437				0.000000162	0.000000162
WC03d132	Area	830166.4	841742.6	7	42.7	0	-63	0.00001437				0.000000162	0.000000162
WC03d133	Area	830179.4	841772.9	34	8.5	0	-63	0.00001437				0.000000162	0.000000162
WC03d134	Area	830187.7	841772.1	24.6	5	0	-62	0.00001437				0.000000162	0.000000162
WC03d135	Area	830193.1	841771.2	17.8	3.6	0	-62	0.00001437				0.000000162	0.000000162
WC03d136	Area	830198.9	841769.3	8.9	4.6	0	-61	0.00001437				0.000000162	0.000000162
WC03e101	Area	831337	841453.1	125.5	21.6	0	-32	0.00001437				0.000000162	0.000000162
WC03e102	Area	831443.5	841376.2	134.1	27	0	-41	0.00001437				0.000000162	0.000000162
WC03e103	Area	831540.8	841249.6	180.5	26.4	0	-61	0.00001437				0.000000162	0.000000162
WC03e104	Area	831613.1	841130.2	96.1	28.3	0	-54	0.00001437				0.000000162	0.000000162
WC03e105	Area	831685.3	841045.5	124	23.1	0	-48	0.00001437				0.000000162	0.000000162
WC03e106	Area	831809.9	840941.4	197.5	21.6	0	-35	0.00001437				0.000000162	0.000000162
WC03e107	Area	831911.4	840855.4	65.4	17.6	0	-52	0.00001437				0.000000162	0.000000162
WC03e108	Area	831238.2	841502.8	92	21.8	0	-19	0.00001437				0.000000162	0.000000162
WC03f101	Area	831942.2	840787.1	69.2	23	0	-65	0.00001437				0.000000162	0.000000162
WC03f102	Area	831991.7	840709.2	111.4	23.2	0	-53	0.00001437				0.000000162	0.000000162
WC03f103	Area	832084.2	840630.7	126.1	21.3	0	-30	0.00001437				0.000000162	0.000000162
WC03f104	Area	832173.8	840594.8	61.9	20.8	0	-7	0.00001437				0.000000162	0.000000162
WC03f105	Area	832271.1	840585.6	132	25.1	0	-3	0.00001437				0.000000162	0.000000162
WC03f106	Area	832441.9	840578.1	210.1	20.9	0	-3	0.00001437				0.000000162	0.000000162
WC03f107	Area	831959.9	840817.4	34	30.4	0	-57	0.00001437				0.000000162	0.000000162
WC06a101	Area	832933.3	840560.1	494.4	91.3	0	-88	0.00001437				0.000000162	0.000000162
WC06a102	Area	833012.7	840523.3	415.1	59	0	-88	0.00001437				0.000000162	0.000000162

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC06a103	Area	833071.3	840363.5	92	44.8	0	-88	0.00001437				0.000000162	0.000000162
WC06a104	Area	833107	840331.4	24	37.5	0	0	0.00001437				0.000000162	0.000000162
WC06a105	Area	832904.3	840288.8	29.2	31.8	0	-86	0.00001437				0.000000162	0.000000162
WC06a106	Area	832909.8	840832	47.2	48.6	0	-88	0.00001437				0.000000162	0.000000162
WC06b101	Area	832604.4	840407.6	144.1	21.3	0	-21	0.00001437				0.000000162	0.000000162
WC06b102	Area	832768.7	840342.6	176.6	114.9	0	4	0.00001437				0.000000162	0.000000162
WC06c101	Area	832534.3	840640.4	201	18.4	0	-67	0.00001437				0.000000162	0.000000162
WC06c102	Area	832533.4	840462.6	22.2	176.3	0	-21	0.00001437				0.000000162	0.000000162
WC06c103	Area	832605.9	840622.5	16.1	83.2	0	-42	0.00001437				0.000000162	0.000000162
WC06c104	Area	832677.8	840672.5	21.3	87	0	-73	0.00001437				0.000000162	0.000000162
WC06c105	Area	832765.3	840678.8	83.2	21.8	0	-10	0.00001437				0.000000162	0.000000162
WC06c106	Area	832829.9	840657.6	43.9	20.4	0	-38	0.00001437				0.000000162	0.000000162
WC06c107	Area	832482.9	840330.2	27.5	105.7	0	-21	0.00001437				0.000000162	0.000000162
WC07b101	Area	832999.1	840300.1	15.6	145.4	0	-86	0.00001437				0.000000162	0.000000162
WC07b102	Area	833021.9	840775.9	95	24.3	0	-54	0.00001437				0.000000162	0.000000162
WC07b103	Area	833070	840672.1	126.9	24.2	0	-75	0.00001437				0.000000162	0.000000162
WC07b104	Area	833115.4	840527.6	168.2	62.7	0	-85	0.00001437				0.000000162	0.000000162
WC07b105	Area	833214	840349	219.1	66.9	0	-42	0.00001437				0.000000162	0.000000162
WC07b106	Area	833173.6	840267.1	121.2	106	0	-41	0.00001437				0.000000162	0.000000162
WC07b107	Area	833087.1	840285.9	24.5	30.5	0	57	0.00001437				0.000000162	0.000000162
WC07b108	Area	833276.6	840163.8	147.4	92.5	0	-61	0.00001437				0.000000162	0.000000162
WC07b109	Area	832967.3	840829.4	51.4	30	0	-32	0.00001437				0.000000162	0.000000162
WC07b110	Area	833063.5	840795.2	88.8	8.7	0	-54	0.00001437				0.000000162	0.000000162
WC07b111	Area	833128	840663.2	94.9	19.8	0	-78	0.00001437				0.000000162	0.000000162
WC07b112	Area	833101.7	840734.4	51.9	15.8	0	-63	0.00001437				0.000000162	0.000000162
WC07c102	Area	832631.6	839687.4	127.5	15.3	0	-50	0.00001437				0.000000162	0.000000162
WC07c103	Area	832664.4	839612.2	18.1	166.7	0	-42	0.00001437				0.000000162	0.000000162
WC07c104	Area	832715.2	839603.6	61.3	14.4	0	-42	0.00001437				0.000000162	0.000000162
WC07c105	Area	833251	839075.5	23.4	160.3	0	-1	0.00001437				0.000000162	0.000000162
WC07c106	Area	833236	839206	21.7	96.4	0	17	0.00001437				0.000000162	0.000000162
WC07c107	Area	833180.7	839346.6	21.9	194.3	0	24	0.00001437				0.000000162	0.000000162
WC07c108	Area	833137.9	839487.9	22.1	87.5	0	5	0.00001437				0.000000162	0.000000162
WC07c109	Area	833171.9	839659.4	22.1	105.6	0	-24	0.00001437				0.000000162	0.000000162
WC07c110	Area	833143.4	839572	22.1	74	0	-10	0.00001437				0.000000162	0.000000162
WC07c111	Area	833343.3	840062.7	75.1	126.6	0	-70	0.00001437				0.000000162	0.000000162
WC07c112	Area	833365.4	839954.6	126.3	61.2	0	-89	0.00001437				0.000000162	0.000000162
WC07c113	Area	833283.7	839787.5	58.4	224.7	0	-38	0.00001437				0.000000162	0.000000162
WC07c114	Area	833263.7	839926.4	196.7	27.5	0	-90	0.00001437				0.000000162	0.000000162
WC07d101	Area	833249.6	838955.5	28.3	75.1	0	-1	0.00001437				0.000000162	0.000000162
WC07d102	Area	833246.2	838858.5	116.9	12.5	0	-85	0.00001437				0.000000162	0.000000162
WC07d103	Area	833267.9	838743	116.9	12.5	0	-74	0.00001437				0.000000162	0.000000162
WC07d104	Area	833295.8	838661	54.9	12.5	0	-65	0.00001437				0.000000162	0.000000162
WC07d105	Area	833265.7	838878.8	76	12.5	0	-78	0.00001437				0.000000162	0.000000162
WC07d106	Area	833294.7	838800.9	88.5	12.5	0	-62	0.00001437				0.000000162	0.000000162
WC07d107	Area	833345.5	838727.3	88.5	12.5	0	-48	0.00001437				0.000000162	0.000000162
WC07d108	Area	833537.7	838572.8	402.9	9.3	0	-38	0.00001437				0.000000162	0.000000162
WC07d109	Area	833729.1	838420.2	86.5	5.3	0	-38	0.00001437				0.000000162	0.000000162
WC07d110	Area	833811.4	838323.1	169.3	4.1	0	-55	0.00001437				0.000000162	0.000000162
WC07d111	Area	833877.3	838210.8	92.4	4.6	0	-68	0.00001437				0.000000162	0.000000162
WC07d112	Area	833908.5	838118.6	102.2	4.6	0	-75	0.00001437				0.000000162	0.000000162
WC07d113	Area	833918.9	837909.9	4.6	117.5	0	-10	0.00001437				0.000000162	0.000000162
WC07d114	Area	833332.1	838599	87.3	12.5	0	-56	0.00001437				0.000000162	0.000000162
WC07d115	Area	833378.2	838539.9	55.2	22	0	-43	0.00001437				0.000000162	0.000000162
WC07d116	Area	833427.5	838503.1	64.7	19.6	0	-33	0.00001437				0.000000162	0.000000162
WC07d117	Area	833498.7	838464.4	91.4	23.8	0	-30	0.00001437				0.000000162	0.000000162
WC07d118	Area	833749.3	838300.2	121.7	31.6	0	-48	0.00001437				0.000000162	0.000000162
WC07d119	Area	833808.9	838209.3	85.6	31.1	0	-68	0.00001437				0.000000162	0.000000162

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC07d120	Area	833817.7	838066.2	195.2	7.6	0	-88	0.00001437				0.000000162	0.000000162
WC07d121	Area	833767.7	837976.5	7.6	34.1	0	74	0.00001437				0.000000162	0.000000162
WC07d122	Area	833097.2	838958.3	76.5	9.8	0	-68	0.00001437				0.000000162	0.000000162
WC07d123	Area	833116.2	838857.4	128	15.4	0	-83	0.00001437				0.000000162	0.000000162
WC07d124	Area	833277.9	838554.6	7.1	41.7	0	-61	0.00001437				0.000000162	0.000000162
WC07d125	Area	833321.5	838564.6	44.6	7.4	0	-3	0.00001437				0.000000162	0.000000162
WC07d126	Area	833585.9	838425.9	91.4	40.4	0	-34	0.00001437				0.000000162	0.000000162
WC07d127	Area	833664.3	838372.3	91.4	40.4	0	-34	0.00001437				0.000000162	0.000000162
WC07d128	Area	833800.9	837971.9	7.5	29.7	0	90	0.00001437				0.000000162	0.000000162
WC07d129	Area	833854.7	838033	275.3	13.4	0	-83	0.00001437				0.000000162	0.000000162
WC07d130	Area	833924.8	838037.7	61.2	4.6	0	-85	0.00001437				0.000000162	0.000000162
WC07d131	Area	833929.4	837988.2	38	4.1	0	-90	0.00001437				0.000000162	0.000000162
WC07d132	Area	833930.7	837919.8	6.2	77.8	0	-10	0.00001437				0.000000162	0.000000162
WC08a101	Area	830220.8	841586.7	300.8	57.6	0	-55	0.00001437				0.000000162	0.000000162
WC08a102	Area	830410.1	841427	187.5	54.7	0	-55	0.00001437				0.000000162	0.000000162
WC08a103	Area	830466.1	841447.7	94.9	58.2	0	-55	0.00001437				0.000000162	0.000000162
WC08a104	Area	830517.4	841475.2	39.1	56.6	0	-55	0.00001437				0.000000162	0.000000162
WC13a101	Area	831432.9	842508.3	153	93.7	0	-90	0.00001437				0.000000162	0.000000162
WC13b101	Area	833690.5	838719.3	116.9	53.2	0	-22	0.00001437				0.000000162	0.000000162
WC13c101	Area	831272.5	842557.5	3.9	22.3	0	-73	0.00001437				0.000000162	0.000000162
WC13c102	Area	831297.8	842563.1	3.8	29.1	0	-81	0.00001437				0.000000162	0.000000162
WC13c103	Area	831322	842563.6	18.8	4.1	0	-10	0.00001437				0.000000162	0.000000162
WC13c104	Area	831339.1	842557.8	16.3	4.1	0	-28	0.00001437				0.000000162	0.000000162
WC13c105	Area	831358	842551.8	22.6	4	0	-11	0.00001437				0.000000162	0.000000162
WC13c106	Area	831377.3	842549.8	4	15.6	0	-90	0.00001437				0.000000162	0.000000162
WC28a101	Area	832250.5	840500.6	26.6	127.3	0	-17	0.00001437				0.000000162	0.000000162
WC28a102	Area	832283.9	840670	139	16.4	0	82	0.00001437				0.000000162	0.000000162
WC28a103	Area	832293.3	840792.8	52.5	99.1	0	-10	0.00001437				0.000000162	0.000000162
WC28b101	Area	832401	840808	96.5	116.8	0	-69	0.00001437				0.000000162	0.000000162
WC28b102	Area	832716.9	840895.1	44.4	197.2	0	-78	0.00001437				0.000000162	0.000000162
WC28b103	Area	832859.1	840909.7	82.1	24.2	0	-3	0.00001437				0.000000162	0.000000162
WC28b104	Area	832965.1	840914	120.4	4.8	0	0	0.00001437				0.000000162	0.000000162
WC28b105	Area	833076.7	840926.8	5.9	104.7	0	-75	0.00001437				0.000000162	0.000000162
WC28b106	Area	833171	840955.1	92.3	5.4	0	29	0.00001437				0.000000162	0.000000162
WC28b107	Area	833001.9	840839.5	62.8	21.9	0	-45	0.00001437				0.000000162	0.000000162
WC28b108	Area	833101.7	840667	75.3	23.9	0	-75	0.00001437				0.000000162	0.000000162
WC28b109	Area	832941	840881	21.7	79	0	60	0.00001437				0.000000162	0.000000162
WC28b110	Area	833043.7	840791.5	60.7	18.5	0	-56	0.00001437				0.000000162	0.000000162
WC28b111	Area	833076.8	840734.7	66.6	18.5	0	-68	0.00001437				0.000000162	0.000000162
WC28b112	Area	832538.4	840849.7	45.4	163	0	-77	0.00001437				0.000000162	0.000000162
WC33c101	Area	831166.3	841668.4	156.7	83	0	-8	0.00001437				0.000000162	0.000000162
WC33c102	Area	831175.6	841750.2	182.1	57.3	0	-1	0.00001437				0.000000162	0.000000162
WC33c103	Area	831333.5	841731.5	124	48.5	0	-15	0.00001437				0.000000162	0.000000162
WC33c104	Area	831311.7	841648.7	115.9	112.1	0	-20	0.00001437				0.000000162	0.000000162
WC33d101	Area	832777.9	840760.3	153.7	93.7	0	8	0.00001437				0.000000162	0.000000162
WC33d102	Area	832827.6	840701.4	31.2	56.9	0	-86	0.00001437				0.000000162	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC14a101	Area	830187.6	840306.5	50	218.4	0	-87	0.00023949				0.00000270	0.00000270
WC14a102	Area	830428.2	840250	266.4	50	0	-27	0.00023949				0.00000270	0.00000270
WC14a103	Area	830611.1	840144.3	155.4	75.2	0	-27	0.00023949				0.00000270	0.00000270
WC14b101	Area	830721	840099.6	81.2	56.4	0	-27	0.00023949				0.00000270	0.00000270
WC14b102	Area	830794.5	840121.1	54.9	56.9	0	27	0.00023949				0.00000270	0.00000270
WC14b103	Area	830781.6	840267.6	217.2	25.6	0	-86	0.00023949				0.00000270	0.00000270
WC14b104	Area	830790.8	840397.7	91.5	37.1	0	-3	0.00023949				0.00000270	0.00000270
WC14b105	Area	830775.5	840453.3	62.6	36	0	83	0.00023949				0.00000270	0.00000270
WC14b106	Area	830800	840517.7	63.9	32	0	59	0.00023949				0.00000270	0.00000270
WC14b107	Area	830861.4	840588.8	120.9	24	0	46	0.00023949				0.00000270	0.00000270
WC14b108	Area	830721.4	840402.5	40.9	21.9	0	-28	0.00023949				0.00000270	0.00000270
WC14b109	Area	830799.3	840423	17.2	12	0	-3	0.00023949				0.00000270	0.00000270
WC14b110	Area	830851.6	840385.6	23.4	22.3	0	-18	0.00023949				0.00000270	0.00000270
WC14b111	Area	830865.7	840403.8	7.2	17.4	0	-33	0.00023949				0.00000270	0.00000270
WC14c101	Area	832057.1	840887.5	91.5	43.4	0	-40	0.00023949				0.00000270	0.00000270
WC14c102	Area	832134.7	840833.4	91.5	43.4	0	-30	0.00023949				0.00000270	0.00000270
WC14c103	Area	832213.3	840791.5	79	56.3	0	-21	0.00023949				0.00000270	0.00000270
WC14c104	Area	831897.2	841161	228.5	48.3	0	-71	0.00023949				0.00000270	0.00000270
WC14c105	Area	831978.1	840985	144.8	49.9	0	-58	0.00023949				0.00000270	0.00000270
WC14c106	Area	831975.1	840863.7	6.4	92.2	0	-47	0.00023949				0.00000270	0.00000270
WC14d101	Area	831821.9	841415.6	297.4	68.3	0	-71	0.00023949				0.00000270	0.00000270
WC14d102	Area	831655.2	841663.4	266.3	38.3	0	-45	0.00023949				0.00000270	0.00000270
WC14d103	Area	831702.1	841501.2	17.3	96	0	-60	0.00023949				0.00000270	0.00000270
WC14d104	Area	831513.7	841797.6	120.1	49.6	0	-48	0.00023949				0.00000270	0.00000270
WC14e101	Area	831543	841907.2	6.1	40.8	0	-73	0.00023949				0.00000270	0.00000270
WC14e102	Area	831048.3	841917.9	88	60.8	0	-4	0.00023949				0.00000270	0.00000270
WC14e103	Area	830981.7	842007.1	120.1	14.1	0	-60	0.00023949				0.00000270	0.00000270
WC14e104	Area	831194.2	841854.9	89.5	23.8	0	-2	0.00023949				0.00000270	0.00000270
WC14e105	Area	831117.2	841874.5	57.1	7.4	0	-14	0.00023949				0.00000270	0.00000270
WC14e106	Area	831508.5	841886.7	5.9	37.4	0	-47	0.00023949				0.00000270	0.00000270
WC14e107	Area	831283.3	841845.5	84.5	23.8	0	-10	0.00023949				0.00000270	0.00000270
WC14e108	Area	831368.7	841826.3	87.3	23.8	0	-17	0.00023949				0.00000270	0.00000270
WC14e109	Area	831138	841957.9	89.5	3.4	0	17	0.00023949				0.00000270	0.00000270
WC14e110	Area	831226	841971.4	89.5	3.4	0	2	0.00023949				0.00000270	0.00000270
WC14e111	Area	831313.8	841962	89.5	3.4	0	-14	0.00023949				0.00000270	0.00000270
WC14e112	Area	831395.8	841928.7	88.3	3.4	0	-30	0.00023949				0.00000270	0.00000270
WC14e113	Area	831461.7	841887.4	64.9	8.8	0	-33	0.00023949				0.00000270	0.00000270
WC15a101	Area	832664.5	840531.8	54.9	248.8	0	-19	0.00023949				0.00000270	0.00000270
WC15a102	Area	832644.3	840314.9	48.7	117.3	0	-7	0.00023949				0.00000270	0.00000270
WC15a103	Area	832754.6	840535.1	103.6	241.5	0	-17	0.00023949				0.00000270	0.00000270
WC15a104	Area	832821.8	840490.3	29.4	166.6	0	-9	0.00023949				0.00000270	0.00000270
WC15a105	Area	832606.6	840525.4	47.5	165.6	0	-19	0.00023949				0.00000270	0.00000270
WC15a106	Area	832536.1	840353.8	49.7	123	0	-21	0.00023949				0.00000270	0.00000270
WC15a107	Area	832581	840330.8	50.2	132.6	0	-21	0.00023949				0.00000270	0.00000270
WC15b101	Area	832398.5	840639.5	210.5	91.6	0	-4	0.00023949				0.00000270	0.00000270
WC15b102	Area	832626.9	840732.7	213	121.6	0	22	0.00023949				0.00000270	0.00000270
WC15b103	Area	832460.7	840702.8	57	34.1	0	0	0.00023949				0.00000270	0.00000270
WC15b104	Area	832803.6	840779.1	115.6	138.5	0	4	0.00023949				0.00000270	0.00000270
WC15b105	Area	832835.8	840699	25.1	62.1	0	-86	0.00023949				0.00000270	0.00000270
WC15c101	Area	831902.9	840696.8	53.2	118.8	0	-34	0.00023949				0.00000270	0.00000270
WC15c102	Area	831879.2	840739.2	31.4	134.4	0	-34	0.00023949				0.00000270	0.00000270
WC15c103	Area	832377.5	840414.6	222.5	84.8	0	-29	0.00023949				0.00000270	0.00000270
WC15c104	Area	832394.5	840485.1	244.1	53.8	0	-29	0.00023949				0.00000270	0.00000270

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC15c105	Area	832447.6	840510.9	160.7	39.7	0	-29	0.00023949				0.00000270	0.00000270
WC15c106	Area	831946.2	840554.3	118	63.5	0	-34	0.00023949				0.00000270	0.00000270
WC15c107	Area	832494.9	840530	36.1	82.1	0	62	0.00023949				0.00000270	0.00000270
WC15c108	Area	831942.3	840657.3	53.2	95.2	0	-34	0.00023949				0.00000270	0.00000270
WC15c109	Area	831985.2	840624.2	54.7	86.2	0	-34	0.00023949				0.00000270	0.00000270
WC15c110	Area	832031	840594.2	54.7	85.5	0	-34	0.00023949				0.00000270	0.00000270
WC15c111	Area	832070.8	840555.2	54.7	106.5	0	-34	0.00023949				0.00000270	0.00000270
WC15c112	Area	832119.2	840529.1	54.7	116.6	0	-34	0.00023949				0.00000270	0.00000270
WC15c113	Area	832175.3	840515.2	54.1	112	0	-34	0.00023949				0.00000270	0.00000270
WC15c114	Area	832071.3	840735.7	46.6	101.8	0	-20	0.00023949				0.00000270	0.00000270
WC15c115	Area	832113.4	840700.6	49.9	114.7	0	-19	0.00023949				0.00000270	0.00000270
WC15c116	Area	832031.2	840762.5	45.6	93	0	-20	0.00023949				0.00000270	0.00000270
WC15c117	Area	831998.4	840792.5	33.1	78.1	0	-20	0.00023949				0.00000270	0.00000270
WC15c118	Area	832159.9	840671	52.5	114.7	0	-19	0.00023949				0.00000270	0.00000270
WC15c119	Area	832223.1	840658.5	73.9	98.5	0	-19	0.00023949				0.00000270	0.00000270
WC22a101	Area	831175.8	841756.2	182.1	69.3	0	-1	0.00023949				0.00000270	0.00000270
WC22a102	Area	831166.5	841670.6	156.4	78.6	0	-8	0.00023949				0.00000270	0.00000270
WC22a103	Area	831156.9	841606.9	151.2	46.5	0	-10	0.00023949				0.00000270	0.00000270
WC22a104	Area	831126.2	841569.5	46.9	34.7	0	-10	0.00023949				0.00000270	0.00000270
WC22a105	Area	831002.7	841771.1	25.8	103	0	-84	0.00023949				0.00000270	0.00000270
WC22a106	Area	830913.9	841749.9	23.2	73.8	0	-69	0.00023949				0.00000270	0.00000270
WC22a107	Area	830840.5	841712.5	24.6	85.1	0	-58	0.00023949				0.00000270	0.00000270
WC22a108	Area	830757	841623.9	19.7	148.6	0	-42	0.00023949				0.00000270	0.00000270
WC22a109	Area	830685.9	841583.6	70.2	7	0	-42	0.00023949				0.00000270	0.00000270
WC22a110	Area	830673.3	841547.9	8	63	0	-46	0.00023949				0.00000270	0.00000270
WC22a111	Area	830615.6	841497.6	12.8	90.1	0	-48	0.00023949				0.00000270	0.00000270
WC22a112	Area	830557.1	841427.5	13	90.8	0	-35	0.00023949				0.00000270	0.00000270
WC22a113	Area	830512	841348	10.6	90.6	0	-25	0.00023949				0.00000270	0.00000270
WC22a114	Area	830076.4	841810.2	54.6	69.6	0	-90	0.00023949				0.00000270	0.00000270
WC22a115	Area	830087.4	841747.3	65.4	93.4	0	-90	0.00023949				0.00000270	0.00000270
WC22a116	Area	830186.5	841832.8	58.2	73	0	-18	0.00023949				0.00000270	0.00000270
WC22a117	Area	830121.3	841892.6	101.5	7.7	0	-26	0.00023949				0.00000270	0.00000270
WC22b101	Area	831457.4	841686.4	159.3	68.8	0	-29	0.00023949				0.00000270	0.00000270
WC22b102	Area	831600	841574.7	189.3	62.6	0	-46	0.00023949				0.00000270	0.00000270
WC22b103	Area	831536.5	841514	99	167.4	0	49	0.00023949				0.00000270	0.00000270
WC22b104	Area	831327.7	841741.5	107.6	70.7	0	-15	0.00023949				0.00000270	0.00000270
WC22b105	Area	831360.3	841618.9	213.9	119.7	0	-23	0.00023949				0.00000270	0.00000270
WC22b106	Area	831319	841527.4	183.1	75.3	0	-22	0.00023949				0.00000270	0.00000270
WC22b107	Area	831471.5	841440.4	138.1	93.7	0	-41	0.00023949				0.00000270	0.00000270
WC22c101	Area	831893.1	841396.2	218.7	45.1	0	-71	0.00023949				0.00000270	0.00000270
WC22c102	Area	832023	841444.2	50.3	227.8	0	-71	0.00023949				0.00000270	0.00000270
WC22c103	Area	831992.9	841472.8	23.3	188	0	-71	0.00023949				0.00000270	0.00000270
WC22c104	Area	831919.2	841477.8	34.6	51.3	0	-71	0.00023949				0.00000270	0.00000270
WC22c105	Area	831941.5	841372.3	27.6	26.4	0	-71	0.00023949				0.00000270	0.00000270
WC22c106	Area	831798.1	841086.1	191.7	102	0	-70	0.00023949				0.00000270	0.00000270
WC22c107	Area	831710.2	841104.4	119	48.6	0	-70	0.00023949				0.00000270	0.00000270
WC22c108	Area	831644.6	841390.2	135.4	76	0	-59	0.00023949				0.00000270	0.00000270
WC22c109	Area	831722.3	841258.1	162.8	79.9	0	-60	0.00023949				0.00000270	0.00000270
WC22c110	Area	831608.6	841274.7	262.6	94.1	0	-60	0.00023949				0.00000270	0.00000270
WC22c111	Area	831705.9	841413.4	115.3	45	0	-63	0.00023949				0.00000270	0.00000270
WC22c112	Area	831857.7	840977.7	50.7	63.9	0	-70	0.00023949				0.00000270	0.00000270
WC22c113	Area	831461.3	841272.5	50.9	75	0	-30	0.00023949				0.00000270	0.00000270
WC22c114	Area	831488.8	841205.4	50.9	95.7	0	-30	0.00023949				0.00000270	0.00000270
WC22c115	Area	831528	841180.4	39.1	49.1	0	-30	0.00023949				0.00000270	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

KTN NDA Annual TSP concentration calculation - 2025, Unmitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC14a101	Area	830187.6	840306.5	50	218.4	0	-87	0.00001437				0.000000162	0.000000162
WC14a102	Area	830428.2	840250	266.4	50	0	-27	0.00001437				0.000000162	0.000000162
WC14a103	Area	830611.1	840144.3	155.4	75.2	0	-27	0.00001437				0.000000162	0.000000162
WC14b101	Area	830721	840099.6	81.2	56.4	0	-27	0.00001437				0.000000162	0.000000162
WC14b102	Area	830794.5	840121.1	54.9	56.9	0	27	0.00001437				0.000000162	0.000000162
WC14b103	Area	830781.6	840267.6	217.2	25.6	0	-86	0.00001437				0.000000162	0.000000162
WC14b104	Area	830790.8	840397.7	91.5	37.1	0	-3	0.00001437				0.000000162	0.000000162
WC14b105	Area	830775.5	840453.3	62.6	36	0	83	0.00001437				0.000000162	0.000000162
WC14b106	Area	830800	840517.7	63.9	32	0	59	0.00001437				0.000000162	0.000000162
WC14b107	Area	830861.4	840588.8	120.9	24	0	46	0.00001437				0.000000162	0.000000162
WC14b108	Area	830721.4	840402.5	40.9	21.9	0	-28	0.00001437				0.000000162	0.000000162
WC14b109	Area	830799.3	840423	17.2	12	0	-3	0.00001437				0.000000162	0.000000162
WC14b110	Area	830851.6	840385.6	23.4	22.3	0	-18	0.00001437				0.000000162	0.000000162
WC14b111	Area	830865.7	840403.8	7.2	17.4	0	-33	0.00001437				0.000000162	0.000000162
WC14c101	Area	832057.1	840887.5	91.5	43.4	0	-40	0.00001437				0.000000162	0.000000162
WC14c102	Area	832134.7	840833.4	91.5	43.4	0	-30	0.00001437				0.000000162	0.000000162
WC14c103	Area	832213.3	840791.5	79	56.3	0	-21	0.00001437				0.000000162	0.000000162
WC14c104	Area	831897.2	841161	228.5	48.3	0	-71	0.00001437				0.000000162	0.000000162
WC14c105	Area	831978.1	840985	144.8	49.9	0	-58	0.00001437				0.000000162	0.000000162
WC14c106	Area	831975.1	840863.7	6.4	92.2	0	-47	0.00001437				0.000000162	0.000000162
WC14d101	Area	831821.9	841415.6	297.4	68.3	0	-71	0.00001437				0.000000162	0.000000162
WC14d102	Area	831655.2	841663.4	266.3	38.3	0	-45	0.00001437				0.000000162	0.000000162
WC14d103	Area	831702.1	841501.2	17.3	96	0	-60	0.00001437				0.000000162	0.000000162
WC14d104	Area	831513.7	841797.6	120.1	49.6	0	-48	0.00001437				0.000000162	0.000000162
WC14e101	Area	831543	841907.2	6.1	40.8	0	-73	0.00001437				0.000000162	0.000000162
WC14e102	Area	831048.3	841917.9	88	60.8	0	-4	0.00001437				0.000000162	0.000000162
WC14e103	Area	830981.7	842007.1	120.1	14.1	0	-60	0.00001437				0.000000162	0.000000162
WC14e104	Area	831194.2	841854.9	89.5	23.8	0	-2	0.00001437				0.000000162	0.000000162
WC14e105	Area	831117.2	841874.5	57.1	7.4	0	-14	0.00001437				0.000000162	0.000000162
WC14e106	Area	831508.5	841886.7	5.9	37.4	0	-47	0.00001437				0.000000162	0.000000162
WC14e107	Area	831283.3	841845.5	84.5	23.8	0	-10	0.00001437				0.000000162	0.000000162
WC14e108	Area	831368.7	841826.3	87.3	23.8	0	-17	0.00001437				0.000000162	0.000000162
WC14e109	Area	831138	841957.9	89.5	3.4	0	17	0.00001437				0.000000162	0.000000162
WC14e110	Area	831226	841971.4	89.5	3.4	0	2	0.00001437				0.000000162	0.000000162
WC14e111	Area	831313.8	841962	89.5	3.4	0	-14	0.00001437				0.000000162	0.000000162
WC14e112	Area	831395.8	841928.7	88.3	3.4	0	-30	0.00001437				0.000000162	0.000000162
WC14e113	Area	831461.7	841887.4	64.9	8.8	0	-33	0.00001437				0.000000162	0.000000162
WC15a101	Area	832664.5	840531.8	54.9	248.8	0	-19	0.00001437				0.000000162	0.000000162
WC15a102	Area	832644.3	840314.9	48.7	117.3	0	-7	0.00001437				0.000000162	0.000000162
WC15a103	Area	832754.6	840535.1	103.6	241.5	0	-17	0.00001437				0.000000162	0.000000162
WC15a104	Area	832821.8	840490.3	29.4	166.6	0	-9	0.00001437				0.000000162	0.000000162
WC15a105	Area	832606.6	840525.4	47.5	165.6	0	-19	0.00001437				0.000000162	0.000000162
WC15a106	Area	832536.1	840353.8	49.7	123	0	-21	0.00001437				0.000000162	0.000000162
WC15a107	Area	832581	840330.8	50.2	132.6	0	-21	0.00001437				0.000000162	0.000000162
WC15b101	Area	832398.5	840639.5	210.5	91.6	0	-4	0.00001437				0.000000162	0.000000162
WC15b102	Area	832626.9	840732.7	213	121.6	0	22	0.00001437				0.000000162	0.000000162
WC15b103	Area	832460.7	840702.8	57	34.1	0	0	0.00001437				0.000000162	0.000000162
WC15b104	Area	832803.6	840779.1	115.6	138.5	0	4	0.00001437				0.000000162	0.000000162
WC15b105	Area	832835.8	840699	25.1	62.1	0	-86	0.00001437				0.000000162	0.000000162
WC15c101	Area	831902.9	840696.8	53.2	118.8	0	-34	0.00001437				0.000000162	0.000000162
WC15c102	Area	831879.2	840739.2	31.4	134.4	0	-34	0.00001437				0.000000162	0.000000162
WC15c103	Area	832377.5	840414.6	222.5	84.8	0	-29	0.00001437				0.000000162	0.000000162
WC15c104	Area	832394.5	840485.1	244.1	53.8	0	-29	0.00001437				0.000000162	0.000000162

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC15c105	Area	832447.6	840510.9	160.7	39.7	0	-29	0.00001437				0.000000162	0.000000162
WC15c106	Area	831946.2	840554.3	118	63.5	0	-34	0.00001437				0.000000162	0.000000162
WC15c107	Area	832494.9	840530	36.1	82.1	0	62	0.00001437				0.000000162	0.000000162
WC15c108	Area	831942.3	840657.3	53.2	95.2	0	-34	0.00001437				0.000000162	0.000000162
WC15c109	Area	831985.2	840624.2	54.7	86.2	0	-34	0.00001437				0.000000162	0.000000162
WC15c110	Area	832031	840594.2	54.7	85.5	0	-34	0.00001437				0.000000162	0.000000162
WC15c111	Area	832070.8	840555.2	54.7	106.5	0	-34	0.00001437				0.000000162	0.000000162
WC15c112	Area	832119.2	840529.1	54.7	116.6	0	-34	0.00001437				0.000000162	0.000000162
WC15c113	Area	832175.3	840515.2	54.1	112	0	-34	0.00001437				0.000000162	0.000000162
WC15c114	Area	832071.3	840735.7	46.6	101.8	0	-20	0.00001437				0.000000162	0.000000162
WC15c115	Area	832113.4	840700.6	49.9	114.7	0	-19	0.00001437				0.000000162	0.000000162
WC15c116	Area	832031.2	840762.5	45.6	93	0	-20	0.00001437				0.000000162	0.000000162
WC15c117	Area	831998.4	840792.5	33.1	78.1	0	-20	0.00001437				0.000000162	0.000000162
WC15c118	Area	832159.9	840671	52.5	114.7	0	-19	0.00001437				0.000000162	0.000000162
WC15c119	Area	832223.1	840658.5	73.9	98.5	0	-19	0.00001437				0.000000162	0.000000162
WC22a101	Area	831175.8	841756.2	182.1	69.3	0	-1	0.00001437				0.000000162	0.000000162
WC22a102	Area	831166.5	841670.6	156.4	78.6	0	-8	0.00001437				0.000000162	0.000000162
WC22a103	Area	831156.9	841606.9	151.2	46.5	0	-10	0.00001437				0.000000162	0.000000162
WC22a104	Area	831126.2	841569.5	46.9	34.7	0	-10	0.00001437				0.000000162	0.000000162
WC22a105	Area	831002.7	841771.1	25.8	103	0	-84	0.00001437				0.000000162	0.000000162
WC22a106	Area	830913.9	841749.9	23.2	73.8	0	-69	0.00001437				0.000000162	0.000000162
WC22a107	Area	830840.5	841712.5	24.6	85.1	0	-58	0.00001437				0.000000162	0.000000162
WC22a108	Area	830757	841623.9	19.7	148.6	0	-42	0.00001437				0.000000162	0.000000162
WC22a109	Area	830685.9	841583.6	70.2	7	0	-42	0.00001437				0.000000162	0.000000162
WC22a110	Area	830673.3	841547.9	8	63	0	-46	0.00001437				0.000000162	0.000000162
WC22a111	Area	830615.6	841497.6	12.8	90.1	0	-48	0.00001437				0.000000162	0.000000162
WC22a112	Area	830557.1	841427.5	13	90.8	0	-35	0.00001437				0.000000162	0.000000162
WC22a113	Area	830512	841348	10.6	90.6	0	-25	0.00001437				0.000000162	0.000000162
WC22a114	Area	830076.4	841810.2	54.6	69.6	0	-90	0.00001437				0.000000162	0.000000162
WC22a115	Area	830087.4	841747.3	65.4	93.4	0	-90	0.00001437				0.000000162	0.000000162
WC22a116	Area	830186.5	841832.8	58.2	73	0	-18	0.00001437				0.000000162	0.000000162
WC22a117	Area	830121.3	841892.6	101.5	7.7	0	-26	0.00001437				0.000000162	0.000000162
WC22b101	Area	831457.4	841686.4	159.3	68.8	0	-29	0.00001437				0.000000162	0.000000162
WC22b102	Area	831600	841574.7	189.3	62.6	0	-46	0.00001437				0.000000162	0.000000162
WC22b103	Area	831536.5	841514	99	167.4	0	49	0.00001437				0.000000162	0.000000162
WC22b104	Area	831327.7	841741.5	107.6	70.7	0	-15	0.00001437				0.000000162	0.000000162
WC22b105	Area	831360.3	841618.9	213.9	119.7	0	-23	0.00001437				0.000000162	0.000000162
WC22b106	Area	831319	841527.4	183.1	75.3	0	-22	0.00001437				0.000000162	0.000000162
WC22b107	Area	831471.5	841440.4	138.1	93.7	0	-41	0.00001437				0.000000162	0.000000162
WC22c101	Area	831893.1	841396.2	218.7	45.1	0	-71	0.00001437				0.000000162	0.000000162
WC22c102	Area	832023	841444.2	50.3	227.8	0	-71	0.00001437				0.000000162	0.000000162
WC22c103	Area	831992.9	841472.8	23.3	188	0	-71	0.00001437				0.000000162	0.000000162
WC22c104	Area	831919.2	841477.8	34.6	51.3	0	-71	0.00001437				0.000000162	0.000000162
WC22c105	Area	831941.5	841372.3	27.6	26.4	0	-71	0.00001437				0.000000162	0.000000162
WC22c106	Area	831798.1	841086.1	191.7	102	0	-70	0.00001437				0.000000162	0.000000162
WC22c107	Area	831710.2	841104.4	119	48.6	0	-70	0.00001437				0.000000162	0.000000162
WC22c108	Area	831644.6	841390.2	135.4	76	0	-59	0.00001437				0.000000162	0.000000162
WC22c109	Area	831722.3	841258.1	162.8	79.9	0	-60	0.00001437				0.000000162	0.000000162
WC22c110	Area	831608.6	841274.7	262.6	94.1	0	-60	0.00001437				0.000000162	0.000000162
WC22c111	Area	831705.9	841413.4	115.3	45	0	-63	0.00001437				0.000000162	0.000000162
WC22c112	Area	831857.7	840977.7	50.7	63.9	0	-70	0.00001437				0.000000162	0.000000162
WC22c113	Area	831461.3	841272.5	50.9	75	0	-30	0.00001437				0.000000162	0.000000162
WC22c114	Area	831488.8	841205.4	50.9	95.7	0	-30	0.00001437				0.000000162	0.000000162
WC22c115	Area	831528	841180.4	39.1	49.1	0	-30	0.00001437				0.000000162	0.000000162

Project: 25278 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	refer to Appendix 3.2 for Justification
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):	0.000001135	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):	0.000018920	calculated, 12 working hours per day

Project: 25278 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	refer to Appendix 3.2 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)	0.0000001617	calculated, 24-hour emission

Mitigated (Day Time)

Active operating area (%):	6	refer to Appendix 3.2 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)	0.0000000128	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)	0.0000026953	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)	0.0000002129	calculated, 24-hour emission

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2018, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC07a101	Area	833351.3	840202.8	163.5	74.6	0	-61.0	0.00001892				0.00000021	0.00000270
WC19a101	Area	832022.9	841510.3	19.6	62	0	-66.0	0.00001892				0.00000021	0.00000270
WC19a102	Area	832009.2	841525.6	33.7	18.5	0	23.0	0.00001892				0.00000021	0.00000270
WC21c101	Area	830705.7	841999.1	74.6	36.3	0	-76.0	0.00001892				0.00000021	0.00000270
WC21c102	Area	830805.8	841934.1	254.2	35	0	-74.0	0.00001892				0.00000021	0.00000270
WC21c103	Area	830861.6	841933.4	221.7	69.6	0	-74.0	0.00001892				0.00000021	0.00000270
WC21c104	Area	830929	841959.7	208.7	74.6	0	-74.0	0.00001892				0.00000021	0.00000270
WC21c105	Area	830752.4	841979	137.5	38.8	0	-74.0	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA Annual TSP concentration calculation - 2018, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC07a101	Area	833351.3	840202.8	163.5	74.6	0	-61.0	0.00000114				0.000000013	0.000000162
WC19a101	Area	832022.9	841510.3	19.6	62	0	-66.0	0.00000114				0.000000013	0.000000162
WC19a102	Area	832009.2	841525.6	33.7	18.5	0	23.0	0.00000114				0.000000013	0.000000162
WC21c101	Area	830705.7	841999.1	74.6	36.3	0	-76.0	0.00000114				0.000000013	0.000000162
WC21c102	Area	830805.8	841934.1	254.2	35	0	-74.0	0.00000114				0.000000013	0.000000162
WC21c103	Area	830861.6	841933.4	221.7	69.6	0	-74.0	0.00000114				0.000000013	0.000000162
WC21c104	Area	830929	841959.7	208.7	74.6	0	-74.0	0.00000114				0.000000013	0.000000162
WC21c105	Area	830752.4	841979	137.5	38.8	0	-74.0	0.00000114				0.000000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2021, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC03d101	Area	831172.5	841543.4	51.8	68.3	0	-13	0.00001892				0.00000021	0.00000270
WC03d102	Area	831084.1	841551.9	23.9	53.9	0	-9	0.00001892				0.00000021	0.00000270
WC03d103	Area	831118.3	841533.7	47.7	26.9	0	-8	0.00001892				0.00000021	0.00000270
WC03d104	Area	831055.7	841522.6	18.7	76.5	0	-7	0.00001892				0.00000021	0.00000270
WC03d105	Area	831019.3	841495	12.6	46	0	83	0.00001892				0.00000021	0.00000270
WC03d106	Area	830956.1	841499.8	11	79.2	0	89	0.00001892				0.00000021	0.00000270
WC03d107	Area	830863.6	841489.6	10.5	104.6	0	-79	0.00001892				0.00000021	0.00000270
WC03d108	Area	830743.5	841444.2	10.2	150.9	0	-64	0.00001892				0.00000021	0.00000270
WC03d109	Area	830634.5	841378.7	11.1	102.5	0	-51	0.00001892				0.00000021	0.00000270
WC03d110	Area	830566.3	841299.1	13.6	103.3	0	-31	0.00001892				0.00000021	0.00000270
WC03d111	Area	830504.2	841283.3	13.6	74.6	0	55	0.00001892				0.00000021	0.00000270
WC03d112	Area	831069.4	841619.6	22.1	116.6	0	-7	0.00001892				0.00000021	0.00000270
WC03d113	Area	831070.5	841729.9	22.1	98.8	0	4	0.00001892				0.00000021	0.00000270
WC03d114	Area	831059.6	841806.3	53.2	12.3	0	-83	0.00001892				0.00000021	0.00000270
WC03d115	Area	831059.8	841842.9	18.4	169	0	-84	0.00001892				0.00000021	0.00000270
WC03d116	Area	831053.4	841856.2	7.6	128	0	-84	0.00001892				0.00000021	0.00000270
WC03d117	Area	831051.8	841863.7	7.2	99.5	0	-84	0.00001892				0.00000021	0.00000270
WC03d118	Area	831049.2	841871.7	8.3	78.2	0	-84	0.00001892				0.00000021	0.00000270
WC03d119	Area	830923	841823.8	21.6	103.8	0	-74	0.00001892				0.00000021	0.00000270
WC03d120	Area	830847.8	841798.4	23.9	51.3	0	-64	0.00001892				0.00000021	0.00000270
WC03d121	Area	830799.7	841761.2	18.1	65.7	0	-53	0.00001892				0.00000021	0.00000270
WC03d122	Area	830714.8	841675.3	13	173.3	0	-43	0.00001892				0.00000021	0.00000270
WC03d123	Area	830633	841594.2	11.9	55.3	0	-52	0.00001892				0.00000021	0.00000270
WC03d124	Area	830580.1	841571.7	24.4	54.6	0	-68	0.00001892				0.00000021	0.00000270
WC03d125	Area	830518.6	841554.5	23.9	68.9	0	-79	0.00001892				0.00000021	0.00000270
WC03d126	Area	830462.4	841546.9	21.9	22.6	0	-90	0.00001892				0.00000021	0.00000270
WC03d127	Area	830410.5	841555.9	21.8	78.2	0	77	0.00001892				0.00000021	0.00000270
WC03d128	Area	830334.5	841586.7	20.4	81.2	0	60	0.00001892				0.00000021	0.00000270
WC03d129	Area	830284	841624.9	23.2	41	0	49	0.00001892				0.00000021	0.00000270
WC03d130	Area	830248.2	841667.1	22.3	65.3	0	36	0.00001892				0.00000021	0.00000270
WC03d131	Area	830211.8	841728.7	74.4	22.5	0	-61	0.00001892				0.00000021	0.00000270
WC03d132	Area	830166.4	841742.6	7	42.7	0	-63	0.00001892				0.00000021	0.00000270
WC03d133	Area	830179.4	841772.9	34	8.5	0	-63	0.00001892				0.00000021	0.00000270
WC03d134	Area	830187.7	841772.1	24.6	5	0	-62	0.00001892				0.00000021	0.00000270
WC03d135	Area	830193.1	841771.2	17.8	3.6	0	-62	0.00001892				0.00000021	0.00000270
WC03d136	Area	830198.9	841769.3	8.9	4.6	0	-61	0.00001892				0.00000021	0.00000270
WC03e101	Area	831337	841453.1	125.5	21.6	0	-32	0.00001892				0.00000021	0.00000270
WC03e102	Area	831443.5	841376.2	134.1	27	0	-41	0.00001892				0.00000021	0.00000270
WC03e103	Area	831540.8	841249.6	180.5	26.4	0	-61	0.00001892				0.00000021	0.00000270
WC03e104	Area	831613.1	841130.2	96.1	28.3	0	-54	0.00001892				0.00000021	0.00000270
WC03e105	Area	831685.3	841045.5	124	23.1	0	-48	0.00001892				0.00000021	0.00000270
WC03e106	Area	831809.9	840941.4	197.5	21.6	0	-35	0.00001892				0.00000021	0.00000270
WC03e107	Area	831911.4	840855.4	65.4	17.6	0	-52	0.00001892				0.00000021	0.00000270
WC03e108	Area	831238.2	841502.8	92	21.8	0	-19	0.00001892				0.00000021	0.00000270
WC03f101	Area	831942.2	840787.1	69.2	23	0	-65	0.00001892				0.00000021	0.00000270
WC03f102	Area	831991.7	840709.2	111.4	23.2	0	-53	0.00001892				0.00000021	0.00000270
WC03f103	Area	832084.2	840630.7	126.1	21.3	0	-30	0.00001892				0.00000021	0.00000270
WC03f104	Area	832173.8	840594.8	61.9	20.8	0	-7	0.00001892				0.00000021	0.00000270
WC03f105	Area	832271.1	840585.6	132	25.1	0	-3	0.00001892				0.00000021	0.00000270
WC03f106	Area	832441.9	840578.1	210.1	20.9	0	-3	0.00001892				0.00000021	0.00000270
WC03f107	Area	831959.9	840817.4	34	30.4	0	-57	0.00001892				0.00000021	0.00000270
WC06a101	Area	832933.3	840560.1	494.4	91.3	0	-88	0.00001892				0.00000021	0.00000270
WC06a102	Area	833012.7	840523.3	415.1	59	0	-88	0.00001892				0.00000021	0.00000270

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC06a103	Area	833071.3	840363.5	92	44.8	0	-88	0.00001892				0.00000021	0.00000270
WC06a104	Area	833107	840331.4	24	37.5	0	0	0.00001892				0.00000021	0.00000270
WC06a105	Area	832904.3	840288.8	29.2	31.8	0	-86	0.00001892				0.00000021	0.00000270
WC06a106	Area	832909.8	840832	47.2	48.6	0	-88	0.00001892				0.00000021	0.00000270
WC06b101	Area	832604.4	840407.6	144.1	21.3	0	-21	0.00001892				0.00000021	0.00000270
WC06b102	Area	832768.7	840342.6	176.6	114.9	0	4	0.00001892				0.00000021	0.00000270
WC06c101	Area	832534.3	840640.4	201	18.4	0	-67	0.00001892				0.00000021	0.00000270
WC06c102	Area	832533.4	840462.6	22.2	176.3	0	-21	0.00001892				0.00000021	0.00000270
WC06c103	Area	832605.9	840622.5	16.1	83.2	0	-42	0.00001892				0.00000021	0.00000270
WC06c104	Area	832677.8	840672.5	21.3	87	0	-73	0.00001892				0.00000021	0.00000270
WC06c105	Area	832765.3	840678.8	83.2	21.8	0	-10	0.00001892				0.00000021	0.00000270
WC06c106	Area	832829.9	840657.6	43.9	20.4	0	-38	0.00001892				0.00000021	0.00000270
WC06c107	Area	832482.9	840330.2	27.5	105.7	0	-21	0.00001892				0.00000021	0.00000270
WC07b101	Area	832999.1	840300.1	15.6	145.4	0	-86	0.00001892				0.00000021	0.00000270
WC07b102	Area	833021.9	840775.9	95	24.3	0	-54	0.00001892				0.00000021	0.00000270
WC07b103	Area	833070	840672.1	126.9	24.2	0	-75	0.00001892				0.00000021	0.00000270
WC07b104	Area	833115.4	840527.6	168.2	62.7	0	-85	0.00001892				0.00000021	0.00000270
WC07b105	Area	833214	840349	219.1	66.9	0	-42	0.00001892				0.00000021	0.00000270
WC07b106	Area	833173.6	840267.1	121.2	106	0	-41	0.00001892				0.00000021	0.00000270
WC07b107	Area	833087.1	840285.9	24.5	30.5	0	57	0.00001892				0.00000021	0.00000270
WC07b108	Area	833276.6	840163.8	147.4	92.5	0	-61	0.00001892				0.00000021	0.00000270
WC07b109	Area	832967.3	840829.4	51.4	30	0	-32	0.00001892				0.00000021	0.00000270
WC07b110	Area	833063.5	840795.2	88.8	8.7	0	-54	0.00001892				0.00000021	0.00000270
WC07b111	Area	833128	840663.2	94.9	19.8	0	-78	0.00001892				0.00000021	0.00000270
WC07b112	Area	833101.7	840734.4	51.9	15.8	0	-63	0.00001892				0.00000021	0.00000270
WC07c102	Area	832631.6	839687.4	127.5	15.3	0	-50	0.00001892				0.00000021	0.00000270
WC07c103	Area	832664.4	839612.2	18.1	166.7	0	-42	0.00001892				0.00000021	0.00000270
WC07c104	Area	832715.2	839603.6	61.3	14.4	0	-42	0.00001892				0.00000021	0.00000270
WC07c105	Area	833251	839075.5	23.4	160.3	0	-1	0.00001892				0.00000021	0.00000270
WC07c106	Area	833236	839206	21.7	96.4	0	17	0.00001892				0.00000021	0.00000270
WC07c107	Area	833180.7	839346.6	21.9	194.3	0	24	0.00001892				0.00000021	0.00000270
WC07c108	Area	833137.9	839487.9	22.1	87.5	0	5	0.00001892				0.00000021	0.00000270
WC07c109	Area	833171.9	839659.4	22.1	105.6	0	-24	0.00001892				0.00000021	0.00000270
WC07c110	Area	833143.4	839572	22.1	74	0	-10	0.00001892				0.00000021	0.00000270
WC07c111	Area	833343.3	840062.7	75.1	126.6	0	-70	0.00001892				0.00000021	0.00000270
WC07c112	Area	833365.4	839954.6	126.3	61.2	0	-89	0.00001892				0.00000021	0.00000270
WC07c113	Area	833283.7	839787.5	58.4	224.7	0	-38	0.00001892				0.00000021	0.00000270
WC07c114	Area	833263.7	839926.4	196.7	27.5	0	-90	0.00001892				0.00000021	0.00000270
WC07d101	Area	833249.6	838955.5	28.3	75.1	0	-1	0.00001892				0.00000021	0.00000270
WC07d102	Area	833246.2	838858.5	116.9	12.5	0	-85	0.00001892				0.00000021	0.00000270
WC07d103	Area	833267.9	838743	116.9	12.5	0	-74	0.00001892				0.00000021	0.00000270
WC07d104	Area	833295.8	838661	54.9	12.5	0	-65	0.00001892				0.00000021	0.00000270
WC07d105	Area	833265.7	838878.8	76	12.5	0	-78	0.00001892				0.00000021	0.00000270
WC07d106	Area	833294.7	838800.9	88.5	12.5	0	-62	0.00001892				0.00000021	0.00000270
WC07d107	Area	833345.5	838727.3	88.5	12.5	0	-48	0.00001892				0.00000021	0.00000270
WC07d108	Area	833537.7	838572.8	402.9	9.3	0	-38	0.00001892				0.00000021	0.00000270
WC07d109	Area	833729.1	838420.2	86.5	5.3	0	-38	0.00001892				0.00000021	0.00000270
WC07d110	Area	833811.4	838323.1	169.3	4.1	0	-55	0.00001892				0.00000021	0.00000270
WC07d111	Area	833877.3	838210.8	92.4	4.6	0	-68	0.00001892				0.00000021	0.00000270
WC07d112	Area	833908.5	838118.6	102.2	4.6	0	-75	0.00001892				0.00000021	0.00000270
WC07d113	Area	833918.9	837909.9	4.6	117.5	0	-10	0.00001892				0.00000021	0.00000270
WC07d114	Area	833332.1	838599	87.3	12.5	0	-56	0.00001892				0.00000021	0.00000270
WC07d115	Area	833378.2	838539.9	55.2	22	0	-43	0.00001892				0.00000021	0.00000270
WC07d116	Area	833427.5	838503.1	64.7	19.6	0	-33	0.00001892				0.00000021	0.00000270
WC07d117	Area	833498.7	838464.4	91.4	23.8	0	-30	0.00001892				0.00000021	0.00000270
WC07d118	Area	833749.3	838300.2	121.7	31.6	0	-48	0.00001892				0.00000021	0.00000270
WC07d119	Area	833808.9	838209.3	85.6	31.1	0	-68	0.00001892				0.00000021	0.00000270

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC07d120	Area	833817.7	838066.2	195.2	7.6	0	-88	0.00001892				0.00000021	0.00000270
WC07d121	Area	833767.7	837976.5	7.6	34.1	0	74	0.00001892				0.00000021	0.00000270
WC07d122	Area	833097.2	838958.3	76.5	9.8	0	-68	0.00001892				0.00000021	0.00000270
WC07d123	Area	833116.2	838857.4	128	15.4	0	-83	0.00001892				0.00000021	0.00000270
WC07d124	Area	833277.9	838554.6	7.1	41.7	0	-61	0.00001892				0.00000021	0.00000270
WC07d125	Area	833321.5	838564.6	44.6	7.4	0	-3	0.00001892				0.00000021	0.00000270
WC07d126	Area	833585.9	838425.9	91.4	40.4	0	-34	0.00001892				0.00000021	0.00000270
WC07d127	Area	833664.3	838372.3	91.4	40.4	0	-34	0.00001892				0.00000021	0.00000270
WC07d128	Area	833800.9	837971.9	7.5	29.7	0	90	0.00001892				0.00000021	0.00000270
WC07d129	Area	833854.7	838033	275.3	13.4	0	-83	0.00001892				0.00000021	0.00000270
WC07d130	Area	833924.8	838037.7	61.2	4.6	0	-85	0.00001892				0.00000021	0.00000270
WC07d131	Area	833929.4	837988.2	38	4.1	0	-90	0.00001892				0.00000021	0.00000270
WC07d132	Area	833930.7	837919.8	6.2	77.8	0	-10	0.00001892				0.00000021	0.00000270
WC08a101	Area	830220.8	841586.7	300.8	57.6	0	-55	0.00001892				0.00000021	0.00000270
WC08a102	Area	830410.1	841427	187.5	54.7	0	-55	0.00001892				0.00000021	0.00000270
WC08a103	Area	830466.1	841447.7	94.9	58.2	0	-55	0.00001892				0.00000021	0.00000270
WC08a104	Area	830517.4	841475.2	39.1	56.6	0	-55	0.00001892				0.00000021	0.00000270
WC13a101	Area	831432.9	842508.3	153	93.7	0	-90	0.00001892				0.00000021	0.00000270
WC13b101	Area	833690.5	838719.3	116.9	53.2	0	-22	0.00001892				0.00000021	0.00000270
WC13c101	Area	831272.5	842557.5	3.9	22.3	0	-73	0.00001892				0.00000021	0.00000270
WC13c102	Area	831297.8	842563.1	3.8	29.1	0	-81	0.00001892				0.00000021	0.00000270
WC13c103	Area	831322	842563.6	18.8	4.1	0	-10	0.00001892				0.00000021	0.00000270
WC13c104	Area	831339.1	842557.8	16.3	4.1	0	-28	0.00001892				0.00000021	0.00000270
WC13c105	Area	831358	842551.8	22.6	4	0	-11	0.00001892				0.00000021	0.00000270
WC13c106	Area	831377.3	842549.8	4	15.6	0	-90	0.00001892				0.00000021	0.00000270
WC28a101	Area	832250.5	840500.6	26.6	127.3	0	-17	0.00001892				0.00000021	0.00000270
WC28a102	Area	832283.9	840670	139	16.4	0	82	0.00001892				0.00000021	0.00000270
WC28a103	Area	832293.3	840792.8	52.5	99.1	0	-10	0.00001892				0.00000021	0.00000270
WC28b101	Area	832401	840808	96.5	116.8	0	-69	0.00001892				0.00000021	0.00000270
WC28b102	Area	832716.9	840895.1	44.4	197.2	0	-78	0.00001892				0.00000021	0.00000270
WC28b103	Area	832859.1	840909.7	82.1	24.2	0	-3	0.00001892				0.00000021	0.00000270
WC28b104	Area	832965.1	840914	120.4	4.8	0	0	0.00001892				0.00000021	0.00000270
WC28b105	Area	833076.7	840926.8	5.9	104.7	0	-75	0.00001892				0.00000021	0.00000270
WC28b106	Area	833171	840955.1	92.3	5.4	0	29	0.00001892				0.00000021	0.00000270
WC28b107	Area	833001.9	840839.5	62.8	21.9	0	-45	0.00001892				0.00000021	0.00000270
WC28b108	Area	833101.7	840667	75.3	23.9	0	-75	0.00001892				0.00000021	0.00000270
WC28b109	Area	832941	840881	21.7	79	0	60	0.00001892				0.00000021	0.00000270
WC28b110	Area	833043.7	840791.5	60.7	18.5	0	-56	0.00001892				0.00000021	0.00000270
WC28b111	Area	833076.8	840734.7	66.6	18.5	0	-68	0.00001892				0.00000021	0.00000270
WC28b112	Area	832538.4	840849.7	45.4	163	0	-77	0.00001892				0.00000021	0.00000270
WC33c101	Area	831166.3	841668.4	156.7	83	0	-8	0.00001892				0.00000021	0.00000270
WC33c102	Area	831175.6	841750.2	182.1	57.3	0	-1	0.00001892				0.00000021	0.00000270
WC33c103	Area	831333.5	841731.5	124	48.5	0	-15	0.00001892				0.00000021	0.00000270
WC33c104	Area	831311.7	841648.7	115.9	112.1	0	-20	0.00001892				0.00000021	0.00000270
WC33d101	Area	832777.9	840760.3	153.7	93.7	0	8	0.00001892				0.00000021	0.00000270
WC33d102	Area	832827.6	840701.4	31.2	56.9	0	-86	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA Annual TSP concentration calculation - 2021, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC03d101	Area	831172.5	841543.4	51.8	68.3	0	-13	0.00000114				0.000000013	0.000000162
WC03d102	Area	831084.1	841551.9	23.9	53.9	0	-9	0.00000114				0.000000013	0.000000162
WC03d103	Area	831118.3	841533.7	47.7	26.9	0	-8	0.00000114				0.000000013	0.000000162
WC03d104	Area	831055.7	841522.6	18.7	76.5	0	-7	0.00000114				0.000000013	0.000000162
WC03d105	Area	831019.3	841495	12.6	46	0	83	0.00000114				0.000000013	0.000000162
WC03d106	Area	830956.1	841499.8	11	79.2	0	89	0.00000114				0.000000013	0.000000162
WC03d107	Area	830863.6	841489.6	10.5	104.6	0	-79	0.00000114				0.000000013	0.000000162
WC03d108	Area	830743.5	841444.2	10.2	150.9	0	-64	0.00000114				0.000000013	0.000000162
WC03d109	Area	830634.5	841378.7	11.1	102.5	0	-51	0.00000114				0.000000013	0.000000162
WC03d110	Area	830566.3	841299.1	13.6	103.3	0	-31	0.00000114				0.000000013	0.000000162
WC03d111	Area	830504.2	841283.3	13.6	74.6	0	55	0.00000114				0.000000013	0.000000162
WC03d112	Area	831069.4	841619.6	22.1	116.6	0	-7	0.00000114				0.000000013	0.000000162
WC03d113	Area	831070.5	841729.9	22.1	98.8	0	4	0.00000114				0.000000013	0.000000162
WC03d114	Area	831059.6	841806.3	53.2	12.3	0	-83	0.00000114				0.000000013	0.000000162
WC03d115	Area	831059.8	841842.9	18.4	169	0	-84	0.00000114				0.000000013	0.000000162
WC03d116	Area	831053.4	841856.2	7.6	128	0	-84	0.00000114				0.000000013	0.000000162
WC03d117	Area	831051.8	841863.7	7.2	99.5	0	-84	0.00000114				0.000000013	0.000000162
WC03d118	Area	831049.2	841871.7	8.3	78.2	0	-84	0.00000114				0.000000013	0.000000162
WC03d119	Area	830923	841823.8	21.6	103.8	0	-74	0.00000114				0.000000013	0.000000162
WC03d120	Area	830847.8	841798.4	23.9	51.3	0	-64	0.00000114				0.000000013	0.000000162
WC03d121	Area	830799.7	841761.2	18.1	65.7	0	-53	0.00000114				0.000000013	0.000000162
WC03d122	Area	830714.8	841675.3	13	173.3	0	-43	0.00000114				0.000000013	0.000000162
WC03d123	Area	830633	841594.2	11.9	55.3	0	-52	0.00000114				0.000000013	0.000000162
WC03d124	Area	830580.1	841571.7	24.4	54.6	0	-68	0.00000114				0.000000013	0.000000162
WC03d125	Area	830518.6	841554.5	23.9	68.9	0	-79	0.00000114				0.000000013	0.000000162
WC03d126	Area	830462.4	841546.9	21.9	22.6	0	-90	0.00000114				0.000000013	0.000000162
WC03d127	Area	830410.5	841555.9	21.8	78.2	0	77	0.00000114				0.000000013	0.000000162
WC03d128	Area	830334.5	841586.7	20.4	81.2	0	60	0.00000114				0.000000013	0.000000162
WC03d129	Area	830284	841624.9	23.2	41	0	49	0.00000114				0.000000013	0.000000162
WC03d130	Area	830248.2	841667.1	22.3	65.3	0	36	0.00000114				0.000000013	0.000000162
WC03d131	Area	830211.8	841728.7	74.4	22.5	0	-61	0.00000114				0.000000013	0.000000162
WC03d132	Area	830166.4	841742.6	7	42.7	0	-63	0.00000114				0.000000013	0.000000162
WC03d133	Area	830179.4	841772.9	34	8.5	0	-63	0.00000114				0.000000013	0.000000162
WC03d134	Area	830187.7	841772.1	24.6	5	0	-62	0.00000114				0.000000013	0.000000162
WC03d135	Area	830193.1	841771.2	17.8	3.6	0	-62	0.00000114				0.000000013	0.000000162
WC03d136	Area	830198.9	841769.3	8.9	4.6	0	-61	0.00000114				0.000000013	0.000000162
WC03e101	Area	831337	841453.1	125.5	21.6	0	-32	0.00000114				0.000000013	0.000000162
WC03e102	Area	831443.5	841376.2	134.1	27	0	-41	0.00000114				0.000000013	0.000000162
WC03e103	Area	831540.8	841249.6	180.5	26.4	0	-61	0.00000114				0.000000013	0.000000162
WC03e104	Area	831613.1	841130.2	96.1	28.3	0	-54	0.00000114				0.000000013	0.000000162
WC03e105	Area	831685.3	841045.5	124	23.1	0	-48	0.00000114				0.000000013	0.000000162
WC03e106	Area	831809.9	840941.4	197.5	21.6	0	-35	0.00000114				0.000000013	0.000000162
WC03e107	Area	831911.4	840855.4	65.4	17.6	0	-52	0.00000114				0.000000013	0.000000162
WC03e108	Area	831238.2	841502.8	92	21.8	0	-19	0.00000114				0.000000013	0.000000162
WC03f101	Area	831942.2	840787.1	69.2	23	0	-65	0.00000114				0.000000013	0.000000162
WC03f102	Area	831991.7	840709.2	111.4	23.2	0	-53	0.00000114				0.000000013	0.000000162
WC03f103	Area	832084.2	840630.7	126.1	21.3	0	-30	0.00000114				0.000000013	0.000000162
WC03f104	Area	832173.8	840594.8	61.9	20.8	0	-7	0.00000114				0.000000013	0.000000162
WC03f105	Area	832271.1	840585.6	132	25.1	0	-3	0.00000114				0.000000013	0.000000162
WC03f106	Area	832441.9	840578.1	210.1	20.9	0	-3	0.00000114				0.000000013	0.000000162
WC03f107	Area	831959.9	840817.4	34	30.4	0	-57	0.00000114				0.000000013	0.000000162
WC06a101	Area	832933.3	840560.1	494.4	91.3	0	-88	0.00000114				0.000000013	0.000000162
WC06a102	Area	833012.7	840523.3	415.1	59	0	-88	0.00000114				0.000000013	0.000000162

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC06a103	Area	833071.3	840363.5	92	44.8	0	-88	0.00000114				0.000000013	0.000000162
WC06a104	Area	833107	840331.4	24	37.5	0	0	0.00000114				0.000000013	0.000000162
WC06a105	Area	832904.3	840288.8	29.2	31.8	0	-86	0.00000114				0.000000013	0.000000162
WC06a106	Area	832909.8	840832	47.2	48.6	0	-88	0.00000114				0.000000013	0.000000162
WC06b101	Area	832604.4	840407.6	144.1	21.3	0	-21	0.00000114				0.000000013	0.000000162
WC06b102	Area	832768.7	840342.6	176.6	114.9	0	4	0.00000114				0.000000013	0.000000162
WC06c101	Area	832534.3	840640.4	201	18.4	0	-67	0.00000114				0.000000013	0.000000162
WC06c102	Area	832533.4	840462.6	22.2	176.3	0	-21	0.00000114				0.000000013	0.000000162
WC06c103	Area	832605.9	840622.5	16.1	83.2	0	-42	0.00000114				0.000000013	0.000000162
WC06c104	Area	832677.8	840672.5	21.3	87	0	-73	0.00000114				0.000000013	0.000000162
WC06c105	Area	832765.3	840678.8	83.2	21.8	0	-10	0.00000114				0.000000013	0.000000162
WC06c106	Area	832829.9	840657.6	43.9	20.4	0	-38	0.00000114				0.000000013	0.000000162
WC06c107	Area	832482.9	840330.2	27.5	105.7	0	-21	0.00000114				0.000000013	0.000000162
WC07b101	Area	832999.1	840300.1	15.6	145.4	0	-86	0.00000114				0.000000013	0.000000162
WC07b102	Area	833021.9	840775.9	95	24.3	0	-54	0.00000114				0.000000013	0.000000162
WC07b103	Area	833070	840672.1	126.9	24.2	0	-75	0.00000114				0.000000013	0.000000162
WC07b104	Area	833115.4	840527.6	168.2	62.7	0	-85	0.00000114				0.000000013	0.000000162
WC07b105	Area	833214	840349	219.1	66.9	0	-42	0.00000114				0.000000013	0.000000162
WC07b106	Area	833173.6	840267.1	121.2	106	0	-41	0.00000114				0.000000013	0.000000162
WC07b107	Area	833087.1	840285.9	24.5	30.5	0	57	0.00000114				0.000000013	0.000000162
WC07b108	Area	833276.6	840163.8	147.4	92.5	0	-61	0.00000114				0.000000013	0.000000162
WC07b109	Area	832967.3	840829.4	51.4	30	0	-32	0.00000114				0.000000013	0.000000162
WC07b110	Area	833063.5	840795.2	88.8	8.7	0	-54	0.00000114				0.000000013	0.000000162
WC07b111	Area	833128	840663.2	94.9	19.8	0	-78	0.00000114				0.000000013	0.000000162
WC07b112	Area	833101.7	840734.4	51.9	15.8	0	-63	0.00000114				0.000000013	0.000000162
WC07c102	Area	832631.6	839687.4	127.5	15.3	0	-50	0.00000114				0.000000013	0.000000162
WC07c103	Area	832664.4	839612.2	18.1	166.7	0	-42	0.00000114				0.000000013	0.000000162
WC07c104	Area	832715.2	839603.6	61.3	14.4	0	-42	0.00000114				0.000000013	0.000000162
WC07c105	Area	833251	839075.5	23.4	160.3	0	-1	0.00000114				0.000000013	0.000000162
WC07c106	Area	833236	839206	21.7	96.4	0	17	0.00000114				0.000000013	0.000000162
WC07c107	Area	833180.7	839346.6	21.9	194.3	0	24	0.00000114				0.000000013	0.000000162
WC07c108	Area	833137.9	839487.9	22.1	87.5	0	5	0.00000114				0.000000013	0.000000162
WC07c109	Area	833171.9	839659.4	22.1	105.6	0	-24	0.00000114				0.000000013	0.000000162
WC07c110	Area	833143.4	839572	22.1	74	0	-10	0.00000114				0.000000013	0.000000162
WC07c111	Area	833343.3	840062.7	75.1	126.6	0	-70	0.00000114				0.000000013	0.000000162
WC07c112	Area	833365.4	839954.6	126.3	61.2	0	-89	0.00000114				0.000000013	0.000000162
WC07c113	Area	833283.7	839787.5	58.4	224.7	0	-38	0.00000114				0.000000013	0.000000162
WC07c114	Area	833263.7	839926.4	196.7	27.5	0	-90	0.00000114				0.000000013	0.000000162
WC07d101	Area	833249.6	838955.5	28.3	75.1	0	-1	0.00000114				0.000000013	0.000000162
WC07d102	Area	833246.2	838858.5	116.9	12.5	0	-85	0.00000114				0.000000013	0.000000162
WC07d103	Area	833267.9	838743	116.9	12.5	0	-74	0.00000114				0.000000013	0.000000162
WC07d104	Area	833295.8	838661	54.9	12.5	0	-65	0.00000114				0.000000013	0.000000162
WC07d105	Area	833265.7	838878.8	76	12.5	0	-78	0.00000114				0.000000013	0.000000162
WC07d106	Area	833294.7	838800.9	88.5	12.5	0	-62	0.00000114				0.000000013	0.000000162
WC07d107	Area	833345.5	838727.3	88.5	12.5	0	-48	0.00000114				0.000000013	0.000000162
WC07d108	Area	833537.7	838572.8	402.9	9.3	0	-38	0.00000114				0.000000013	0.000000162
WC07d109	Area	833729.1	838420.2	86.5	5.3	0	-38	0.00000114				0.000000013	0.000000162
WC07d110	Area	833811.4	838323.1	169.3	4.1	0	-55	0.00000114				0.000000013	0.000000162
WC07d111	Area	833877.3	838210.8	92.4	4.6	0	-68	0.00000114				0.000000013	0.000000162
WC07d112	Area	833908.5	838118.6	102.2	4.6	0	-75	0.00000114				0.000000013	0.000000162
WC07d113	Area	833918.9	837909.9	4.6	117.5	0	-10	0.00000114				0.000000013	0.000000162
WC07d114	Area	833332.1	838599	87.3	12.5	0	-56	0.00000114				0.000000013	0.000000162
WC07d115	Area	833378.2	838539.9	55.2	22	0	-43	0.00000114				0.000000013	0.000000162
WC07d116	Area	833427.5	838503.1	64.7	19.6	0	-33	0.00000114				0.000000013	0.000000162
WC07d117	Area	833498.7	838464.4	91.4	23.8	0	-30	0.00000114				0.000000013	0.000000162
WC07d118	Area	833749.3	838300.2	121.7	31.6	0	-48	0.00000114				0.000000013	0.000000162
WC07d119	Area	833808.9	838209.3	85.6	31.1	0	-68	0.00000114				0.000000013	0.000000162

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC07d120	Area	833817.7	838066.2	195.2	7.6	0	-88	0.00000114				0.000000013	0.000000162
WC07d121	Area	833767.7	837976.5	7.6	34.1	0	74	0.00000114				0.000000013	0.000000162
WC07d122	Area	833097.2	838958.3	76.5	9.8	0	-68	0.00000114				0.000000013	0.000000162
WC07d123	Area	833116.2	838857.4	128	15.4	0	-83	0.00000114				0.000000013	0.000000162
WC07d124	Area	833277.9	838554.6	7.1	41.7	0	-61	0.00000114				0.000000013	0.000000162
WC07d125	Area	833321.5	838564.6	44.6	7.4	0	-3	0.00000114				0.000000013	0.000000162
WC07d126	Area	833585.9	838425.9	91.4	40.4	0	-34	0.00000114				0.000000013	0.000000162
WC07d127	Area	833664.3	838372.3	91.4	40.4	0	-34	0.00000114				0.000000013	0.000000162
WC07d128	Area	833800.9	837971.9	7.5	29.7	0	90	0.00000114				0.000000013	0.000000162
WC07d129	Area	833854.7	838033	275.3	13.4	0	-83	0.00000114				0.000000013	0.000000162
WC07d130	Area	833924.8	838037.7	61.2	4.6	0	-85	0.00000114				0.000000013	0.000000162
WC07d131	Area	833929.4	837988.2	38	4.1	0	-90	0.00000114				0.000000013	0.000000162
WC07d132	Area	833930.7	837919.8	6.2	77.8	0	-10	0.00000114				0.000000013	0.000000162
WC08a101	Area	830220.8	841586.7	300.8	57.6	0	-55	0.00000114				0.000000013	0.000000162
WC08a102	Area	830410.1	841427	187.5	54.7	0	-55	0.00000114				0.000000013	0.000000162
WC08a103	Area	830466.1	841447.7	94.9	58.2	0	-55	0.00000114				0.000000013	0.000000162
WC08a104	Area	830517.4	841475.2	39.1	56.6	0	-55	0.00000114				0.000000013	0.000000162
WC13a101	Area	831432.9	842508.3	153	93.7	0	-90	0.00000114				0.000000013	0.000000162
WC13b101	Area	833690.5	838719.3	116.9	53.2	0	-22	0.00000114				0.000000013	0.000000162
WC13c101	Area	831272.5	842557.5	3.9	22.3	0	-73	0.00000114				0.000000013	0.000000162
WC13c102	Area	831297.8	842563.1	3.8	29.1	0	-81	0.00000114				0.000000013	0.000000162
WC13c103	Area	831322	842563.6	18.8	4.1	0	-10	0.00000114				0.000000013	0.000000162
WC13c104	Area	831339.1	842557.8	16.3	4.1	0	-28	0.00000114				0.000000013	0.000000162
WC13c105	Area	831358	842551.8	22.6	4	0	-11	0.00000114				0.000000013	0.000000162
WC13c106	Area	831377.3	842549.8	4	15.6	0	-90	0.00000114				0.000000013	0.000000162
WC28a101	Area	832250.5	840500.6	26.6	127.3	0	-17	0.00000114				0.000000013	0.000000162
WC28a102	Area	832283.9	840670	139	16.4	0	82	0.00000114				0.000000013	0.000000162
WC28a103	Area	832293.3	840792.8	52.5	99.1	0	-10	0.00000114				0.000000013	0.000000162
WC28b101	Area	832401	840808	96.5	116.8	0	-69	0.00000114				0.000000013	0.000000162
WC28b102	Area	832716.9	840895.1	44.4	197.2	0	-78	0.00000114				0.000000013	0.000000162
WC28b103	Area	832859.1	840909.7	82.1	24.2	0	-3	0.00000114				0.000000013	0.000000162
WC28b104	Area	832965.1	840914	120.4	4.8	0	0	0.00000114				0.000000013	0.000000162
WC28b105	Area	833076.7	840926.8	5.9	104.7	0	-75	0.00000114				0.000000013	0.000000162
WC28b106	Area	833171	840955.1	92.3	5.4	0	29	0.00000114				0.000000013	0.000000162
WC28b107	Area	833001.9	840839.5	62.8	21.9	0	-45	0.00000114				0.000000013	0.000000162
WC28b108	Area	833101.7	840667	75.3	23.9	0	-75	0.00000114				0.000000013	0.000000162
WC28b109	Area	832941	840881	21.7	79	0	60	0.00000114				0.000000013	0.000000162
WC28b110	Area	833043.7	840791.5	60.7	18.5	0	-56	0.00000114				0.000000013	0.000000162
WC28b111	Area	833076.8	840734.7	66.6	18.5	0	-68	0.00000114				0.000000013	0.000000162
WC28b112	Area	832538.4	840849.7	45.4	163	0	-77	0.00000114				0.000000013	0.000000162
WC33c101	Area	831166.3	841668.4	156.7	83	0	-8	0.00000114				0.000000013	0.000000162
WC33c102	Area	831175.6	841750.2	182.1	57.3	0	-1	0.00000114				0.000000013	0.000000162
WC33c103	Area	831333.5	841731.5	124	48.5	0	-15	0.00000114				0.000000013	0.000000162
WC33c104	Area	831311.7	841648.7	115.9	112.1	0	-20	0.00000114				0.000000013	0.000000162
WC33d101	Area	832777.9	840760.3	153.7	93.7	0	8	0.00000114				0.000000013	0.000000162
WC33d102	Area	832827.6	840701.4	31.2	56.9	0	-86	0.00000114				0.000000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA 1-hr & 24-hr (Tier 1) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC14a101	Area	830187.6	840306.5	50	218.4	0	-87	0.00001892				0.00000021	0.00000270
WC14a102	Area	830428.2	840250	266.4	50	0	-27	0.00001892				0.00000021	0.00000270
WC14a103	Area	830611.1	840144.3	155.4	75.2	0	-27	0.00001892				0.00000021	0.00000270
WC14b101	Area	830721	840099.6	81.2	56.4	0	-27	0.00001892				0.00000021	0.00000270
WC14b102	Area	830794.5	840121.1	54.9	56.9	0	27	0.00001892				0.00000021	0.00000270
WC14b103	Area	830781.6	840267.6	217.2	25.6	0	-86	0.00001892				0.00000021	0.00000270
WC14b104	Area	830790.8	840397.7	91.5	37.1	0	-3	0.00001892				0.00000021	0.00000270
WC14b105	Area	830775.5	840453.3	62.6	36	0	83	0.00001892				0.00000021	0.00000270
WC14b106	Area	830800	840517.7	63.9	32	0	59	0.00001892				0.00000021	0.00000270
WC14b107	Area	830861.4	840588.8	120.9	24	0	46	0.00001892				0.00000021	0.00000270
WC14b108	Area	830721.4	840402.5	40.9	21.9	0	-28	0.00001892				0.00000021	0.00000270
WC14b109	Area	830799.3	840423	17.2	12	0	-3	0.00001892				0.00000021	0.00000270
WC14b110	Area	830851.6	840385.6	23.4	22.3	0	-18	0.00001892				0.00000021	0.00000270
WC14b111	Area	830865.7	840403.8	7.2	17.4	0	-33	0.00001892				0.00000021	0.00000270
WC14c101	Area	832057.1	840887.5	91.5	43.4	0	-40	0.00001892				0.00000021	0.00000270
WC14c102	Area	832134.7	840833.4	91.5	43.4	0	-30	0.00001892				0.00000021	0.00000270
WC14c103	Area	832213.3	840791.5	79	56.3	0	-21	0.00001892				0.00000021	0.00000270
WC14c104	Area	831897.2	841161	228.5	48.3	0	-71	0.00001892				0.00000021	0.00000270
WC14c105	Area	831978.1	840985	144.8	49.9	0	-58	0.00001892				0.00000021	0.00000270
WC14c106	Area	831975.1	840863.7	6.4	92.2	0	-47	0.00001892				0.00000021	0.00000270
WC14d101	Area	831821.9	841415.6	297.4	68.3	0	-71	0.00001892				0.00000021	0.00000270
WC14d102	Area	831655.2	841663.4	266.3	38.3	0	-45	0.00001892				0.00000021	0.00000270
WC14d103	Area	831702.1	841501.2	17.3	96	0	-60	0.00001892				0.00000021	0.00000270
WC14d104	Area	831513.7	841797.6	120.1	49.6	0	-48	0.00001892				0.00000021	0.00000270
WC14e101	Area	831543	841907.2	6.1	40.8	0	-73	0.00001892				0.00000021	0.00000270
WC14e102	Area	831048.3	841917.9	88	60.8	0	-4	0.00001892				0.00000021	0.00000270
WC14e103	Area	830981.7	842007.1	120.1	14.1	0	-60	0.00001892				0.00000021	0.00000270
WC14e104	Area	831194.2	841854.9	89.5	23.8	0	-2	0.00001892				0.00000021	0.00000270
WC14e105	Area	831117.2	841874.5	57.1	7.4	0	-14	0.00001892				0.00000021	0.00000270
WC14e106	Area	831508.5	841886.7	5.9	37.4	0	-47	0.00001892				0.00000021	0.00000270
WC14e107	Area	831283.3	841845.5	84.5	23.8	0	-10	0.00001892				0.00000021	0.00000270
WC14e108	Area	831368.7	841826.3	87.3	23.8	0	-17	0.00001892				0.00000021	0.00000270
WC14e109	Area	831138	841957.9	89.5	3.4	0	17	0.00001892				0.00000021	0.00000270
WC14e110	Area	831226	841971.4	89.5	3.4	0	2	0.00001892				0.00000021	0.00000270
WC14e111	Area	831313.8	841962	89.5	3.4	0	-14	0.00001892				0.00000021	0.00000270
WC14e112	Area	831395.8	841928.7	88.3	3.4	0	-30	0.00001892				0.00000021	0.00000270
WC14e113	Area	831461.7	841887.4	64.9	8.8	0	-33	0.00001892				0.00000021	0.00000270
WC15a101	Area	832664.5	840531.8	54.9	248.8	0	-19	0.00001892				0.00000021	0.00000270
WC15a102	Area	832644.3	840314.9	48.7	117.3	0	-7	0.00001892				0.00000021	0.00000270
WC15a103	Area	832754.6	840535.1	103.6	241.5	0	-17	0.00001892				0.00000021	0.00000270
WC15a104	Area	832821.8	840490.3	29.4	166.6	0	-9	0.00001892				0.00000021	0.00000270
WC15a105	Area	832606.6	840525.4	47.5	165.6	0	-19	0.00001892				0.00000021	0.00000270
WC15a106	Area	832536.1	840353.8	49.7	123	0	-21	0.00001892				0.00000021	0.00000270
WC15a107	Area	832581	840330.8	50.2	132.6	0	-21	0.00001892				0.00000021	0.00000270
WC15b101	Area	832398.5	840639.5	210.5	91.6	0	-4	0.00001892				0.00000021	0.00000270
WC15b102	Area	832626.9	840732.7	213	121.6	0	22	0.00001892				0.00000021	0.00000270
WC15b103	Area	832460.7	840702.8	57	34.1	0	0	0.00001892				0.00000021	0.00000270
WC15b104	Area	832803.6	840779.1	115.6	138.5	0	4	0.00001892				0.00000021	0.00000270
WC15b105	Area	832835.8	840699	25.1	62.1	0	-86	0.00001892				0.00000021	0.00000270
WC15c101	Area	831902.9	840696.8	53.2	118.8	0	-34	0.00001892				0.00000021	0.00000270
WC15c102	Area	831879.2	840739.2	31.4	134.4	0	-34	0.00001892				0.00000021	0.00000270
WC15c103	Area	832377.5	840414.6	222.5	84.8	0	-29	0.00001892				0.00000021	0.00000270
WC15c104	Area	832394.5	840485.1	244.1	53.8	0	-29	0.00001892				0.00000021	0.00000270

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC15c105	Area	832447.6	840510.9	160.7	39.7	0	-29	0.00001892				0.00000021	0.00000270
WC15c106	Area	831946.2	840554.3	118	63.5	0	-34	0.00001892				0.00000021	0.00000270
WC15c107	Area	832494.9	840530	36.1	82.1	0	62	0.00001892				0.00000021	0.00000270
WC15c108	Area	831942.3	840657.3	53.2	95.2	0	-34	0.00001892				0.00000021	0.00000270
WC15c109	Area	831985.2	840624.2	54.7	86.2	0	-34	0.00001892				0.00000021	0.00000270
WC15c110	Area	832031	840594.2	54.7	85.5	0	-34	0.00001892				0.00000021	0.00000270
WC15c111	Area	832070.8	840555.2	54.7	106.5	0	-34	0.00001892				0.00000021	0.00000270
WC15c112	Area	832119.2	840529.1	54.7	116.6	0	-34	0.00001892				0.00000021	0.00000270
WC15c113	Area	832175.3	840515.2	54.1	112	0	-34	0.00001892				0.00000021	0.00000270
WC15c114	Area	832071.3	840735.7	46.6	101.8	0	-20	0.00001892				0.00000021	0.00000270
WC15c115	Area	832113.4	840700.6	49.9	114.7	0	-19	0.00001892				0.00000021	0.00000270
WC15c116	Area	832031.2	840762.5	45.6	93	0	-20	0.00001892				0.00000021	0.00000270
WC15c117	Area	831998.4	840792.5	33.1	78.1	0	-20	0.00001892				0.00000021	0.00000270
WC15c118	Area	832159.9	840671	52.5	114.7	0	-19	0.00001892				0.00000021	0.00000270
WC15c119	Area	832223.1	840658.5	73.9	98.5	0	-19	0.00001892				0.00000021	0.00000270
WC22a101	Area	831175.8	841756.2	182.1	69.3	0	-1	0.00001892				0.00000021	0.00000270
WC22a102	Area	831166.5	841670.6	156.4	78.6	0	-8	0.00001892				0.00000021	0.00000270
WC22a103	Area	831156.9	841606.9	151.2	46.5	0	-10	0.00001892				0.00000021	0.00000270
WC22a104	Area	831126.2	841569.5	46.9	34.7	0	-10	0.00001892				0.00000021	0.00000270
WC22a105	Area	831002.7	841771.1	25.8	103	0	-84	0.00001892				0.00000021	0.00000270
WC22a106	Area	830913.9	841749.9	23.2	73.8	0	-69	0.00001892				0.00000021	0.00000270
WC22a107	Area	830840.5	841712.5	24.6	85.1	0	-58	0.00001892				0.00000021	0.00000270
WC22a108	Area	830757	841623.9	19.7	148.6	0	-42	0.00001892				0.00000021	0.00000270
WC22a109	Area	830685.9	841583.6	70.2	7	0	-42	0.00001892				0.00000021	0.00000270
WC22a110	Area	830673.3	841547.9	8	63	0	-46	0.00001892				0.00000021	0.00000270
WC22a111	Area	830615.6	841497.6	12.8	90.1	0	-48	0.00001892				0.00000021	0.00000270
WC22a112	Area	830557.1	841427.5	13	90.8	0	-35	0.00001892				0.00000021	0.00000270
WC22a113	Area	830512	841348	10.6	90.6	0	-25	0.00001892				0.00000021	0.00000270
WC22a114	Area	830076.4	841810.2	54.6	69.6	0	-90	0.00001892				0.00000021	0.00000270
WC22a115	Area	830087.4	841747.3	65.4	93.4	0	-90	0.00001892				0.00000021	0.00000270
WC22a116	Area	830186.5	841832.8	58.2	73	0	-18	0.00001892				0.00000021	0.00000270
WC22a117	Area	830121.3	841892.6	101.5	7.7	0	-26	0.00001892				0.00000021	0.00000270
WC22b101	Area	831457.4	841686.4	159.3	68.8	0	-29	0.00001892				0.00000021	0.00000270
WC22b102	Area	831600	841574.7	189.3	62.6	0	-46	0.00001892				0.00000021	0.00000270
WC22b103	Area	831536.5	841514	99	167.4	0	49	0.00001892				0.00000021	0.00000270
WC22b104	Area	831327.7	841741.5	107.6	70.7	0	-15	0.00001892				0.00000021	0.00000270
WC22b105	Area	831360.3	841618.9	213.9	119.7	0	-23	0.00001892				0.00000021	0.00000270
WC22b106	Area	831319	841527.4	183.1	75.3	0	-22	0.00001892				0.00000021	0.00000270
WC22b107	Area	831471.5	841440.4	138.1	93.7	0	-41	0.00001892				0.00000021	0.00000270
WC22c101	Area	831893.1	841396.2	218.7	45.1	0	-71	0.00001892				0.00000021	0.00000270
WC22c102	Area	832023	841444.2	50.3	227.8	0	-71	0.00001892				0.00000021	0.00000270
WC22c103	Area	831992.9	841472.8	23.3	188	0	-71	0.00001892				0.00000021	0.00000270
WC22c104	Area	831919.2	841477.8	34.6	51.3	0	-71	0.00001892				0.00000021	0.00000270
WC22c105	Area	831941.5	841372.3	27.6	26.4	0	-71	0.00001892				0.00000021	0.00000270
WC22c106	Area	831798.1	841086.1	191.7	102	0	-70	0.00001892				0.00000021	0.00000270
WC22c107	Area	831710.2	841104.4	119	48.6	0	-70	0.00001892				0.00000021	0.00000270
WC22c108	Area	831644.6	841390.2	135.4	76	0	-59	0.00001892				0.00000021	0.00000270
WC22c109	Area	831722.3	841258.1	162.8	79.9	0	-60	0.00001892				0.00000021	0.00000270
WC22c110	Area	831608.6	841274.7	262.6	94.1	0	-60	0.00001892				0.00000021	0.00000270
WC22c111	Area	831705.9	841413.4	115.3	45	0	-63	0.00001892				0.00000021	0.00000270
WC22c112	Area	831857.7	840977.7	50.7	63.9	0	-70	0.00001892				0.00000021	0.00000270
WC22c113	Area	831461.3	841272.5	50.9	75	0	-30	0.00001892				0.00000021	0.00000270
WC22c114	Area	831488.8	841205.4	50.9	95.7	0	-30	0.00001892				0.00000021	0.00000270
WC22c115	Area	831528	841180.4	39.1	49.1	0	-30	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA Annual TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC14a101	Area	830187.6	840306.5	50	218.4	0	-87	0.00000114				0.000000013	0.000000162
WC14a102	Area	830428.2	840250	266.4	50	0	-27	0.00000114				0.000000013	0.000000162
WC14a103	Area	830611.1	840144.3	155.4	75.2	0	-27	0.00000114				0.000000013	0.000000162
WC14b101	Area	830721	840099.6	81.2	56.4	0	-27	0.00000114				0.000000013	0.000000162
WC14b102	Area	830794.5	840121.1	54.9	56.9	0	27	0.00000114				0.000000013	0.000000162
WC14b103	Area	830781.6	840267.6	217.2	25.6	0	-86	0.00000114				0.000000013	0.000000162
WC14b104	Area	830790.8	840397.7	91.5	37.1	0	-3	0.00000114				0.000000013	0.000000162
WC14b105	Area	830775.5	840453.3	62.6	36	0	83	0.00000114				0.000000013	0.000000162
WC14b106	Area	830800	840517.7	63.9	32	0	59	0.00000114				0.000000013	0.000000162
WC14b107	Area	830861.4	840588.8	120.9	24	0	46	0.00000114				0.000000013	0.000000162
WC14b108	Area	830721.4	840402.5	40.9	21.9	0	-28	0.00000114				0.000000013	0.000000162
WC14b109	Area	830799.3	840423	17.2	12	0	-3	0.00000114				0.000000013	0.000000162
WC14b110	Area	830851.6	840385.6	23.4	22.3	0	-18	0.00000114				0.000000013	0.000000162
WC14b111	Area	830865.7	840403.8	7.2	17.4	0	-33	0.00000114				0.000000013	0.000000162
WC14c101	Area	832057.1	840887.5	91.5	43.4	0	-40	0.00000114				0.000000013	0.000000162
WC14c102	Area	832134.7	840833.4	91.5	43.4	0	-30	0.00000114				0.000000013	0.000000162
WC14c103	Area	832213.3	840791.5	79	56.3	0	-21	0.00000114				0.000000013	0.000000162
WC14c104	Area	831897.2	841161	228.5	48.3	0	-71	0.00000114				0.000000013	0.000000162
WC14c105	Area	831978.1	840985	144.8	49.9	0	-58	0.00000114				0.000000013	0.000000162
WC14c106	Area	831975.1	840863.7	6.4	92.2	0	-47	0.00000114				0.000000013	0.000000162
WC14d101	Area	831821.9	841415.6	297.4	68.3	0	-71	0.00000114				0.000000013	0.000000162
WC14d102	Area	831655.2	841663.4	266.3	38.3	0	-45	0.00000114				0.000000013	0.000000162
WC14d103	Area	831702.1	841501.2	17.3	96	0	-60	0.00000114				0.000000013	0.000000162
WC14d104	Area	831513.7	841797.6	120.1	49.6	0	-48	0.00000114				0.000000013	0.000000162
WC14e101	Area	831543	841907.2	6.1	40.8	0	-73	0.00000114				0.000000013	0.000000162
WC14e102	Area	831048.3	841917.9	88	60.8	0	-4	0.00000114				0.000000013	0.000000162
WC14e103	Area	830981.7	842007.1	120.1	14.1	0	-60	0.00000114				0.000000013	0.000000162
WC14e104	Area	831194.2	841854.9	89.5	23.8	0	-2	0.00000114				0.000000013	0.000000162
WC14e105	Area	831117.2	841874.5	57.1	7.4	0	-14	0.00000114				0.000000013	0.000000162
WC14e106	Area	831508.5	841886.7	5.9	37.4	0	-47	0.00000114				0.000000013	0.000000162
WC14e107	Area	831283.3	841845.5	84.5	23.8	0	-10	0.00000114				0.000000013	0.000000162
WC14e108	Area	831368.7	841826.3	87.3	23.8	0	-17	0.00000114				0.000000013	0.000000162
WC14e109	Area	831138	841957.9	89.5	3.4	0	17	0.00000114				0.000000013	0.000000162
WC14e110	Area	831226	841971.4	89.5	3.4	0	2	0.00000114				0.000000013	0.000000162
WC14e111	Area	831313.8	841962	89.5	3.4	0	-14	0.00000114				0.000000013	0.000000162
WC14e112	Area	831395.8	841928.7	88.3	3.4	0	-30	0.00000114				0.000000013	0.000000162
WC14e113	Area	831461.7	841887.4	64.9	8.8	0	-33	0.00000114				0.000000013	0.000000162
WC15a101	Area	832664.5	840531.8	54.9	248.8	0	-19	0.00000114				0.000000013	0.000000162
WC15a102	Area	832644.3	840314.9	48.7	117.3	0	-7	0.00000114				0.000000013	0.000000162
WC15a103	Area	832754.6	840535.1	103.6	241.5	0	-17	0.00000114				0.000000013	0.000000162
WC15a104	Area	832821.8	840490.3	29.4	166.6	0	-9	0.00000114				0.000000013	0.000000162
WC15a105	Area	832606.6	840525.4	47.5	165.6	0	-19	0.00000114				0.000000013	0.000000162
WC15a106	Area	832536.1	840353.8	49.7	123	0	-21	0.00000114				0.000000013	0.000000162
WC15a107	Area	832581	840330.8	50.2	132.6	0	-21	0.00000114				0.000000013	0.000000162
WC15b101	Area	832398.5	840639.5	210.5	91.6	0	-4	0.00000114				0.000000013	0.000000162
WC15b102	Area	832626.9	840732.7	213	121.6	0	22	0.00000114				0.000000013	0.000000162
WC15b103	Area	832460.7	840702.8	57	34.1	0	0	0.00000114				0.000000013	0.000000162
WC15b104	Area	832803.6	840779.1	115.6	138.5	0	4	0.00000114				0.000000013	0.000000162
WC15b105	Area	832835.8	840699	25.1	62.1	0	-86	0.00000114				0.000000013	0.000000162
WC15c101	Area	831902.9	840696.8	53.2	118.8	0	-34	0.00000114				0.000000013	0.000000162
WC15c102	Area	831879.2	840739.2	31.4	134.4	0	-34	0.00000114				0.000000013	0.000000162
WC15c103	Area	832377.5	840414.6	222.5	84.8	0	-29	0.00000114				0.000000013	0.000000162
WC15c104	Area	832394.5	840485.1	244.1	53.8	0	-29	0.00000114				0.000000013	0.000000162

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC15c105	Area	832447.6	840510.9	160.7	39.7	0	-29	0.00000114				0.000000013	0.000000162
WC15c106	Area	831946.2	840554.3	118	63.5	0	-34	0.00000114				0.000000013	0.000000162
WC15c107	Area	832494.9	840530	36.1	82.1	0	62	0.00000114				0.000000013	0.000000162
WC15c108	Area	831942.3	840657.3	53.2	95.2	0	-34	0.00000114				0.000000013	0.000000162
WC15c109	Area	831985.2	840624.2	54.7	86.2	0	-34	0.00000114				0.000000013	0.000000162
WC15c110	Area	832031	840594.2	54.7	85.5	0	-34	0.00000114				0.000000013	0.000000162
WC15c111	Area	832070.8	840555.2	54.7	106.5	0	-34	0.00000114				0.000000013	0.000000162
WC15c112	Area	832119.2	840529.1	54.7	116.6	0	-34	0.00000114				0.000000013	0.000000162
WC15c113	Area	832175.3	840515.2	54.1	112	0	-34	0.00000114				0.000000013	0.000000162
WC15c114	Area	832071.3	840735.7	46.6	101.8	0	-20	0.00000114				0.000000013	0.000000162
WC15c115	Area	832113.4	840700.6	49.9	114.7	0	-19	0.00000114				0.000000013	0.000000162
WC15c116	Area	832031.2	840762.5	45.6	93	0	-20	0.00000114				0.000000013	0.000000162
WC15c117	Area	831998.4	840792.5	33.1	78.1	0	-20	0.00000114				0.000000013	0.000000162
WC15c118	Area	832159.9	840671	52.5	114.7	0	-19	0.00000114				0.000000013	0.000000162
WC15c119	Area	832223.1	840658.5	73.9	98.5	0	-19	0.00000114				0.000000013	0.000000162
WC22a101	Area	831175.8	841756.2	182.1	69.3	0	-1	0.00000114				0.000000013	0.000000162
WC22a102	Area	831166.5	841670.6	156.4	78.6	0	-8	0.00000114				0.000000013	0.000000162
WC22a103	Area	831156.9	841606.9	151.2	46.5	0	-10	0.00000114				0.000000013	0.000000162
WC22a104	Area	831126.2	841569.5	46.9	34.7	0	-10	0.00000114				0.000000013	0.000000162
WC22a105	Area	831002.7	841771.1	25.8	103	0	-84	0.00000114				0.000000013	0.000000162
WC22a106	Area	830913.9	841749.9	23.2	73.8	0	-69	0.00000114				0.000000013	0.000000162
WC22a107	Area	830840.5	841712.5	24.6	85.1	0	-58	0.00000114				0.000000013	0.000000162
WC22a108	Area	830757	841623.9	19.7	148.6	0	-42	0.00000114				0.000000013	0.000000162
WC22a109	Area	830685.9	841583.6	70.2	7	0	-42	0.00000114				0.000000013	0.000000162
WC22a110	Area	830673.3	841547.9	8	63	0	-46	0.00000114				0.000000013	0.000000162
WC22a111	Area	830615.6	841497.6	12.8	90.1	0	-48	0.00000114				0.000000013	0.000000162
WC22a112	Area	830557.1	841427.5	13	90.8	0	-35	0.00000114				0.000000013	0.000000162
WC22a113	Area	830512	841348	10.6	90.6	0	-25	0.00000114				0.000000013	0.000000162
WC22a114	Area	830076.4	841810.2	54.6	69.6	0	-90	0.00000114				0.000000013	0.000000162
WC22a115	Area	830087.4	841747.3	65.4	93.4	0	-90	0.00000114				0.000000013	0.000000162
WC22a116	Area	830186.5	841832.8	58.2	73	0	-18	0.00000114				0.000000013	0.000000162
WC22a117	Area	830121.3	841892.6	101.5	7.7	0	-26	0.00000114				0.000000013	0.000000162
WC22b101	Area	831457.4	841686.4	159.3	68.8	0	-29	0.00000114				0.000000013	0.000000162
WC22b102	Area	831600	841574.7	189.3	62.6	0	-46	0.00000114				0.000000013	0.000000162
WC22b103	Area	831536.5	841514	99	167.4	0	49	0.00000114				0.000000013	0.000000162
WC22b104	Area	831327.7	841741.5	107.6	70.7	0	-15	0.00000114				0.000000013	0.000000162
WC22b105	Area	831360.3	841618.9	213.9	119.7	0	-23	0.00000114				0.000000013	0.000000162
WC22b106	Area	831319	841527.4	183.1	75.3	0	-22	0.00000114				0.000000013	0.000000162
WC22b107	Area	831471.5	841440.4	138.1	93.7	0	-41	0.00000114				0.000000013	0.000000162
WC22c101	Area	831893.1	841396.2	218.7	45.1	0	-71	0.00000114				0.000000013	0.000000162
WC22c102	Area	832023	841444.2	50.3	227.8	0	-71	0.00000114				0.000000013	0.000000162
WC22c103	Area	831992.9	841472.8	23.3	188	0	-71	0.00000114				0.000000013	0.000000162
WC22c104	Area	831919.2	841477.8	34.6	51.3	0	-71	0.00000114				0.000000013	0.000000162
WC22c105	Area	831941.5	841372.3	27.6	26.4	0	-71	0.00000114				0.000000013	0.000000162
WC22c106	Area	831798.1	841086.1	191.7	102	0	-70	0.00000114				0.000000013	0.000000162
WC22c107	Area	831710.2	841104.4	119	48.6	0	-70	0.00000114				0.000000013	0.000000162
WC22c108	Area	831644.6	841390.2	135.4	76	0	-59	0.00000114				0.000000013	0.000000162
WC22c109	Area	831722.3	841258.1	162.8	79.9	0	-60	0.00000114				0.000000013	0.000000162
WC22c110	Area	831608.6	841274.7	262.6	94.1	0	-60	0.00000114				0.000000013	0.000000162
WC22c111	Area	831705.9	841413.4	115.3	45	0	-63	0.00000114				0.000000013	0.000000162
WC22c112	Area	831857.7	840977.7	50.7	63.9	0	-70	0.00000114				0.000000013	0.000000162
WC22c113	Area	831461.3	841272.5	50.9	75	0	-30	0.00000114				0.000000013	0.000000162
WC22c114	Area	831488.8	841205.4	50.9	95.7	0	-30	0.00000114				0.000000013	0.000000162
WC22c115	Area	831528	841180.4	39.1	49.1	0	-30	0.00000114				0.000000013	0.000000162

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA 1-hr & 24-hr (Tier 2) TSP concentration calculation - 2018, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC07a101	Area	833351.3	840202.8	163.5	74.6	0	-61	0.00001892				0.00000021	0.00000270
WC19a101	Area	832022.9	841510.3	19.6	62	0	-66	0.00001892				0.00000021	0.00000270
WC19a102	Area	832009.2	841525.6	33.7	18.5	0	23	0.00001892				0.00000021	0.00000270
WC21c101	Area	830705.7	841999.1	74.6	36.3	0	-76	0.00001892				0.00000021	0.00000270
WC21c102	Area	830743	841976.3	137.5	19.4	0	-74	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA 1-hr & 24-hr (Tier 2) TSP concentration calculation - 2021, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC03d101	Area	831172.5	841543.4	51.8	68.3	0	-13	0.00001892				0.00000021	0.00000270
WC03d102	Area	831084.1	841551.9	23.9	53.9	0	-9	0.00001892				0.00000021	0.00000270
WC03d103	Area	831118.3	841533.7	47.7	26.9	0	-8	0.00001892				0.00000021	0.00000270
WC03d104	Area	831055.7	841522.6	18.7	76.5	0	-7	0.00001892				0.00000021	0.00000270
WC03d105	Area	831019.3	841495	12.6	46	0	83	0.00001892				0.00000021	0.00000270
WC03d106	Area	830956.1	841499.8	11	79.2	0	89	0.00001892				0.00000021	0.00000270
WC03d107	Area	830863.6	841489.6	10.5	104.6	0	-79	0.00001892				0.00000021	0.00000270
WC03d108	Area	830743.5	841444.2	10.2	150.9	0	-64	0.00001892				0.00000021	0.00000270
WC03d109	Area	830634.5	841378.7	11.1	102.5	0	-51	0.00001892				0.00000021	0.00000270
WC03d110	Area	830566.3	841299.1	13.6	103.3	0	-31	0.00001892				0.00000021	0.00000270
WC03d111	Area	830504.2	841283.3	13.6	74.6	0	55	0.00001892				0.00000021	0.00000270
WC03d112	Area	831069.4	841619.6	22.1	116.6	0	-7	0.00001892				0.00000021	0.00000270
WC03d113	Area	831070.5	841729.9	22.1	98.8	0	4	0.00001892				0.00000021	0.00000270
WC03d114	Area	831059.6	841806.3	53.2	12.3	0	-83	0.00001892				0.00000021	0.00000270
WC03d115	Area	831059.8	841842.9	18.4	169	0	-84	0.00001892				0.00000021	0.00000270
WC03d116	Area	831053.4	841856.2	7.6	128	0	-84	0.00001892				0.00000021	0.00000270
WC03d117	Area	831051.8	841863.7	7.2	99.5	0	-84	0.00001892				0.00000021	0.00000270
WC03d118	Area	831049.2	841871.7	8.3	78.2	0	-84	0.00001892				0.00000021	0.00000270
WC03d119	Area	830923	841823.8	21.6	103.8	0	-74	0.00001892				0.00000021	0.00000270
WC03d120	Area	830847.8	841798.4	23.9	51.3	0	-64	0.00001892				0.00000021	0.00000270
WC03d121	Area	830799.7	841761.2	18.1	65.7	0	-53	0.00001892				0.00000021	0.00000270
WC03d122	Area	830714.8	841675.3	13	173.3	0	-43	0.00001892				0.00000021	0.00000270
WC03d123	Area	830633	841594.2	11.9	55.3	0	-52	0.00001892				0.00000021	0.00000270
WC03d124	Area	830580.1	841571.7	24.4	54.6	0	-68	0.00001892				0.00000021	0.00000270
WC03d125	Area	830518.6	841554.5	23.9	68.9	0	-79	0.00001892				0.00000021	0.00000270
WC03d126	Area	830462.4	841546.9	21.9	22.6	0	-90	0.00001892				0.00000021	0.00000270
WC03d127	Area	830410.5	841555.9	21.8	78.2	0	77	0.00001892				0.00000021	0.00000270
WC03d128	Area	830334.5	841586.7	20.4	81.2	0	60	0.00001892				0.00000021	0.00000270
WC03d129	Area	830284	841624.9	23.2	41	0	49	0.00001892				0.00000021	0.00000270
WC03d130	Area	830248.2	841667.1	22.3	65.3	0	36	0.00001892				0.00000021	0.00000270
WC03d131	Area	830211.8	841728.7	74.4	22.5	0	-61	0.00001892				0.00000021	0.00000270
WC03d132	Area	830166.4	841742.6	7	42.7	0	-63	0.00001892				0.00000021	0.00000270
WC03d133	Area	830179.4	841772.9	34	8.5	0	-63	0.00001892				0.00000021	0.00000270
WC03d134	Area	830187.7	841772.1	24.6	5	0	-62	0.00001892				0.00000021	0.00000270
WC03d135	Area	830193.1	841771.2	17.8	3.6	0	-62	0.00001892				0.00000021	0.00000270
WC03d136	Area	830198.9	841769.3	8.9	4.6	0	-61	0.00001892				0.00000021	0.00000270
WC03e101	Area	831337	841453.1	125.5	21.6	0	-32	0.00001892				0.00000021	0.00000270
WC03e102	Area	831443.5	841376.2	134.1	27	0	-41	0.00001892				0.00000021	0.00000270
WC03e103	Area	831540.8	841249.6	180.5	26.4	0	-61	0.00001892				0.00000021	0.00000270
WC03e104	Area	831613.1	841130.2	96.1	28.3	0	-54	0.00001892				0.00000021	0.00000270
WC03e105	Area	831685.3	841045.5	124	23.1	0	-48	0.00001892				0.00000021	0.00000270
WC03e106	Area	831809.9	840941.4	197.5	21.6	0	-35	0.00001892				0.00000021	0.00000270
WC03e107	Area	831911.4	840855.4	65.4	17.6	0	-52	0.00001892				0.00000021	0.00000270
WC03e108	Area	831238.2	841502.8	92	21.8	0	-19	0.00001892				0.00000021	0.00000270
WC03f101	Area	831942.2	840787.1	69.2	23	0	-65	0.00001892				0.00000021	0.00000270
WC03f102	Area	831991.7	840709.2	111.4	23.2	0	-53	0.00001892				0.00000021	0.00000270
WC03f103	Area	832084.2	840630.7	126.1	21.3	0	-30	0.00001892				0.00000021	0.00000270
WC03f104	Area	832173.8	840594.8	61.9	20.8	0	-7	0.00001892				0.00000021	0.00000270
WC03f105	Area	832271.1	840585.6	132	25.1	0	-3	0.00001892				0.00000021	0.00000270
WC03f106	Area	832441.9	840578.1	210.1	20.9	0	-3	0.00001892				0.00000021	0.00000270
WC03f107	Area	831959.9	840817.4	34	30.4	0	-57	0.00001892				0.00000021	0.00000270
WC06a101	Area	832905.7	840559.3	494.4	36.2	0	-88	0.00001892				0.00000021	0.00000270
WC06a102	Area	832989	840335.3	40.4	116.5	0	-88	0.00001892				0.00000021	0.00000270

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC06a103	Area	833072	840337.5	40.1	44.8	0	-88	0.00001892				0.00000021	0.00000270
WC06a104	Area	833107	840331.4	24	37.5	0	0	0.00001892				0.00000021	0.00000270
WC06a105	Area	832904.3	840288.8	29.2	31.8	0	-86	0.00001892				0.00000021	0.00000270
WC06a106	Area	832900.6	840831.8	47.2	30	0	-88	0.00001892				0.00000021	0.00000270
WC06b101	Area	832638.7	840394.5	70.8	21.3	0	-21	0.00001892				0.00000021	0.00000270
WC06b102	Area	832766.3	840390.4	174.3	19.1	0	4	0.00001892				0.00000021	0.00000270
WC06c101	Area	832539.4	840642.6	201	7.3	0	-67	0.00001892				0.00000021	0.00000270
WC06c102	Area	832540.8	840459.8	6.5	176.3	0	-21	0.00001892				0.00000021	0.00000270
WC06c103	Area	832609.6	840619.2	6.2	83.2	0	-42	0.00001892				0.00000021	0.00000270
WC06c104	Area	832680.3	840664.5	4.6	87	0	-73	0.00001892				0.00000021	0.00000270
WC06c105	Area	832763.9	840670.5	83.2	5	0	-10	0.00001892				0.00000021	0.00000270
WC06c106	Area	832825.2	840651.5	43.9	5	0	-38	0.00001892				0.00000021	0.00000270
WC06c107	Area	832491.4	840326.9	9.2	105.7	0	-21	0.00001892				0.00000021	0.00000270
WC07b101	Area	832999.1	840300.1	15.6	145.4	0	-86	0.00001892				0.00000021	0.00000270
WC07b102	Area	833116.3	840516.2	191.1	62.7	0	-85	0.00001892				0.00000021	0.00000270
WC07b103	Area	833199.7	840338.1	212.1	31.5	0	-42	0.00001892				0.00000021	0.00000270
WC07b104	Area	833216.5	840229.4	36	106	0	-41	0.00001892				0.00000021	0.00000270
WC07b105	Area	833129.2	840258.3	24.5	131.2	0	57	0.00001892				0.00000021	0.00000270
WC07b106	Area	833300.3	840177	147.4	38.2	0	-61	0.00001892				0.00000021	0.00000270
WC07b107	Area	833063.5	840795.2	88.8	8.7	0	-54	0.00001892				0.00000021	0.00000270
WC07b108	Area	833128	840663.2	94.9	19.8	0	-78	0.00001892				0.00000021	0.00000270
WC07b109	Area	833101.7	840734.4	51.9	15.8	0	-63	0.00001892				0.00000021	0.00000270
WC07c102	Area	832631.6	839687.4	127.5	15.3	0	-50	0.00001892				0.00000021	0.00000270
WC07c103	Area	832664.4	839612.2	18.1	166.7	0	-42	0.00001892				0.00000021	0.00000270
WC07c104	Area	832715.2	839603.6	61.3	14.4	0	-42	0.00001892				0.00000021	0.00000270
WC07c105	Area	833251	839075.5	23.4	160.3	0	-1	0.00001892				0.00000021	0.00000270
WC07c106	Area	833236	839206	21.7	96.4	0	17	0.00001892				0.00000021	0.00000270
WC07c107	Area	833180.7	839346.6	21.9	194.3	0	24	0.00001892				0.00000021	0.00000270
WC07c108	Area	833137.9	839487.9	22.1	87.5	0	5	0.00001892				0.00000021	0.00000270
WC07c109	Area	833171.9	839659.4	22.1	105.6	0	-24	0.00001892				0.00000021	0.00000270
WC07c110	Area	833143.4	839572	22.1	74	0	-10	0.00001892				0.00000021	0.00000270
WC07c111	Area	833373.3	840073.8	74.4	62.6	0	-70	0.00001892				0.00000021	0.00000270
WC07c112	Area	833350.1	839959.2	136	30.6	0	-89	0.00001892				0.00000021	0.00000270
WC07c113	Area	833283.7	839787.5	58.4	224.7	0	-38	0.00001892				0.00000021	0.00000270
WC07c114	Area	833270.6	839926.4	196.7	13.8	0	-90	0.00001892				0.00000021	0.00000270
WC07d101	Area	833249.6	838955.5	28.3	75.1	0	-1	0.00001892				0.00000021	0.00000270
WC07d102	Area	833246.2	838858.5	116.9	12.5	0	-85	0.00001892				0.00000021	0.00000270
WC07d103	Area	833267.9	838743	116.9	12.5	0	-74	0.00001892				0.00000021	0.00000270
WC07d104	Area	833295.8	838661	54.9	12.5	0	-65	0.00001892				0.00000021	0.00000270
WC07d105	Area	833265.7	838878.8	76	12.5	0	-78	0.00001892				0.00000021	0.00000270
WC07d106	Area	833294.7	838800.9	88.5	12.5	0	-62	0.00001892				0.00000021	0.00000270
WC07d107	Area	833345.5	838727.3	88.5	12.5	0	-48	0.00001892				0.00000021	0.00000270
WC07d108	Area	833537.7	838572.8	402.9	9.3	0	-38	0.00001892				0.00000021	0.00000270
WC07d109	Area	833729.1	838420.2	86.5	5.3	0	-38	0.00001892				0.00000021	0.00000270
WC07d110	Area	833811.4	838323.1	169.3	4.1	0	-55	0.00001892				0.00000021	0.00000270
WC07d111	Area	833877.3	838210.8	92.4	4.6	0	-68	0.00001892				0.00000021	0.00000270
WC07d112	Area	833908.5	838118.6	102.2	4.6	0	-75	0.00001892				0.00000021	0.00000270
WC07d113	Area	833918.9	837909.9	4.6	117.5	0	-10	0.00001892				0.00000021	0.00000270
WC07d114	Area	833332.1	838599	87.3	12.5	0	-56	0.00001892				0.00000021	0.00000270
WC07d115	Area	833378.2	838539.9	55.2	22	0	-43	0.00001892				0.00000021	0.00000270
WC07d116	Area	833427.5	838503.1	64.7	19.6	0	-33	0.00001892				0.00000021	0.00000270
WC07d117	Area	833498.7	838464.4	91.4	23.8	0	-30	0.00001892				0.00000021	0.00000270
WC07d118	Area	833749.3	838300.2	121.7	31.6	0	-48	0.00001892				0.00000021	0.00000270
WC07d119	Area	833808.9	838209.3	85.6	31.1	0	-68	0.00001892				0.00000021	0.00000270
WC07d120	Area	833817.7	838066.2	195.2	7.6	0	-88	0.00001892				0.00000021	0.00000270
WC07d121	Area	833767.7	837976.5	7.6	34.1	0	74	0.00001892				0.00000021	0.00000270
WC07d122	Area	833097.2	838958.3	76.5	9.8	0	-68	0.00001892				0.00000021	0.00000270

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC07d123	Area	833116.2	838857.4	128	15.4	0	-83	0.00001892				0.00000021	0.00000270
WC07d124	Area	833277.9	838554.6	7.1	41.7	0	-61	0.00001892				0.00000021	0.00000270
WC07d125	Area	833321.5	838564.6	44.6	7.4	0	-3	0.00001892				0.00000021	0.00000270
WC07d126	Area	833585.9	838425.9	91.4	40.4	0	-34	0.00001892				0.00000021	0.00000270
WC07d127	Area	833664.3	838372.3	91.4	40.4	0	-34	0.00001892				0.00000021	0.00000270
WC07d128	Area	833800.9	837971.9	7.5	29.7	0	90	0.00001892				0.00000021	0.00000270
WC07d129	Area	833854.7	838033	275.3	13.4	0	-83	0.00001892				0.00000021	0.00000270
WC07d130	Area	833924.8	838037.7	61.2	4.6	0	-85	0.00001892				0.00000021	0.00000270
WC07d131	Area	833929.4	837988.2	38	4.1	0	-90	0.00001892				0.00000021	0.00000270
WC07d132	Area	833930.7	837919.8	6.2	77.8	0	-10	0.00001892				0.00000021	0.00000270
WC08a101	Area	830220.8	841586.7	300.8	57.6	0	-55	0.00001892				0.00000021	0.00000270
WC08a102	Area	830410.1	841427	187.5	54.7	0	-55	0.00001892				0.00000021	0.00000270
WC08a103	Area	830466.1	841447.7	94.9	58.2	0	-55	0.00001892				0.00000021	0.00000270
WC08a104	Area	830517.4	841475.2	39.1	56.6	0	-55	0.00001892				0.00000021	0.00000270
WC13a101	Area	831432.9	842508.3	153	93.7	0	-90	0.00001892				0.00000021	0.00000270
WC13b101	Area	833690.5	838719.3	116.9	53.2	0	-22	0.00001892				0.00000021	0.00000270
WC13c101	Area	831272.5	842557.5	3.9	22.3	0	-73	0.00001892				0.00000021	0.00000270
WC13c102	Area	831297.8	842563.1	3.8	29.1	0	-81	0.00001892				0.00000021	0.00000270
WC13c103	Area	831322	842563.6	18.8	4.1	0	-10	0.00001892				0.00000021	0.00000270
WC13c104	Area	831339.1	842557.8	16.3	4.1	0	-28	0.00001892				0.00000021	0.00000270
WC13c105	Area	831358	842551.8	22.6	4	0	-11	0.00001892				0.00000021	0.00000270
WC13c106	Area	831377.3	842549.8	4	15.6	0	-90	0.00001892				0.00000021	0.00000270
WC28a101	Area	832250.5	840500.6	26.6	127.3	0	-17	0.00001892				0.00000021	0.00000270
WC28a102	Area	832283.9	840670	139	16.4	0	82	0.00001892				0.00000021	0.00000270
WC28a103	Area	832293.3	840792.8	52.5	99.1	0	-10	0.00001892				0.00000021	0.00000270
WC28b101	Area	832390.8	840834	40.6	116.8	0	-69	0.00001892				0.00000021	0.00000270
WC28b102	Area	832712.7	840908	17.4	200	0	-78	0.00001892				0.00000021	0.00000270
WC28b103	Area	832857.3	840917.6	86.5	8.7	0	-3	0.00001892				0.00000021	0.00000270
WC28b104	Area	832965.1	840914	120.4	4.8	0	0	0.00001892				0.00000021	0.00000270
WC28b105	Area	833076.7	840926.8	5.9	104.7	0	-75	0.00001892				0.00000021	0.00000270
WC28b106	Area	833171	840955.1	92.3	5.4	0	29	0.00001892				0.00000021	0.00000270
WC28b107	Area	832534.9	840864.2	15.8	163	0	-77	0.00001892				0.00000021	0.00000270
WC33c101	Area	831382.2	841718.3	23	48.5	0	-15	0.00001892				0.00000021	0.00000270
WC33c102	Area	831355.7	841637	25.1	120.6	0	-20	0.00001892				0.00000021	0.00000270
WC33d101	Area	832777.9	840760.3	153.7	93.7	0	8	0.00001892				0.00000021	0.00000270
WC33d102	Area	832827.6	840701.4	31.2	56.9	0	-86	0.00001892				0.00000021	0.00000270

Location and Details of Worksites for Fugitive Dust Assessment

FLN NDA 1-hr & 24-hr (Tier 2) TSP concentration calculation - 2025, Mitigated

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height	Angle / Width	Emission Rate (g/s/sq.m)					
		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
WC14a101	Area	830187.6	840306.5	50	218.4	0	-87	0.00001892				0.00000021	0.00000270
WC14a102	Area	830428.2	840250	266.4	50	0	-27	0.00001892				0.00000021	0.00000270
WC14a103	Area	830611.1	840144.3	155.4	75.2	0	-27	0.00001892				0.00000021	0.00000270
WC14b101	Area	830721	840099.6	81.2	56.4	0	-27	0.00001892				0.00000021	0.00000270
WC14b102	Area	830794.5	840121.1	54.9	56.9	0	27	0.00001892				0.00000021	0.00000270
WC14b103	Area	830781.6	840267.6	217.2	25.6	0	-86	0.00001892				0.00000021	0.00000270
WC14b104	Area	830790.8	840397.7	91.5	37.1	0	-3	0.00001892				0.00000021	0.00000270
WC14b105	Area	830775.5	840453.3	62.6	36	0	83	0.00001892				0.00000021	0.00000270
WC14b106	Area	830800	840517.7	63.9	32	0	59	0.00001892				0.00000021	0.00000270
WC14b107	Area	830861.4	840588.8	120.9	24	0	46	0.00001892				0.00000021	0.00000270
WC14b108	Area	830721.4	840402.5	40.9	21.9	0	-28	0.00001892				0.00000021	0.00000270
WC14b109	Area	830799.3	840423	17.2	12	0	-3	0.00001892				0.00000021	0.00000270
WC14b110	Area	830851.6	840385.6	23.4	22.3	0	-18	0.00001892				0.00000021	0.00000270
WC14b111	Area	830865.7	840403.8	7.2	17.4	0	-33	0.00001892				0.00000021	0.00000270
WC14c101	Area	832067.5	840900.2	91.5	10.6	0	-40	0.00001892				0.00000021	0.00000270
WC14c102	Area	832142.9	840847.3	91.5	11	0	-30	0.00001892				0.00000021	0.00000270
WC14c103	Area	832220.7	840811.3	79	14.1	0	-21	0.00001892				0.00000021	0.00000270
WC14c104	Area	831915.5	841166.2	230.5	10.3	0	-71	0.00001892				0.00000021	0.00000270
WC14c105	Area	831993.7	840994.7	144.8	13.2	0	-58	0.00001892				0.00000021	0.00000270
WC14d101	Area	831821.9	841415.6	297.4	68.3	0	-71	0.00001892				0.00000021	0.00000270
WC14d102	Area	831655.2	841663.4	266.3	38.3	0	-45	0.00001892				0.00000021	0.00000270
WC14d103	Area	831702.1	841501.2	17.3	96	0	-60	0.00001892				0.00000021	0.00000270
WC14d104	Area	831513.7	841797.6	120.1	49.6	0	-48	0.00001892				0.00000021	0.00000270
WC14e101	Area	831543	841907.2	6.1	40.8	0	-73	0.00001892				0.00000021	0.00000270
WC14e102	Area	831008.2	841920.5	7.5	60.8	0	-4	0.00001892				0.00000021	0.00000270
WC14e103	Area	830978.6	842005.3	120.1	7.1	0	-60	0.00001892				0.00000021	0.00000270
WC14e104	Area	831192.5	841861.8	93.5	10.1	0	-2	0.00001892				0.00000021	0.00000270
WC14e105	Area	831077	841877.1	136.4	6.4	0	-14	0.00001892				0.00000021	0.00000270
WC14e106	Area	831508.5	841886.7	5.9	37.4	0	-47	0.00001892				0.00000021	0.00000270
WC14e107	Area	831283	841852.7	87.5	9.8	0	-10	0.00001892				0.00000021	0.00000270
WC14e108	Area	831369.6	841832.8	89.3	10.8	0	-17	0.00001892				0.00000021	0.00000270
WC14e109	Area	831138	841957.9	89.5	3.4	0	17	0.00001892				0.00000021	0.00000270
WC14e110	Area	831226	841971.4	89.5	3.4	0	2	0.00001892				0.00000021	0.00000270
WC14e111	Area	831313.8	841962	89.5	3.4	0	-14	0.00001892				0.00000021	0.00000270
WC14e112	Area	831395.8	841928.7	88.3	3.4	0	-30	0.00001892				0.00000021	0.00000270
WC14e113	Area	831461.7	841887.4	64.9	8.8	0	-33	0.00001892				0.00000021	0.00000270
WC15a101	Area	832664.5	840531.8	54.9	248.8	0	-19	0.00001892				0.00000021	0.00000270
WC15a102	Area	832644.3	840314.9	48.7	117.3	0	-7	0.00001892				0.00000021	0.00000270
WC15a103	Area	832754.6	840535.1	103.6	241.5	0	-17	0.00001892				0.00000021	0.00000270
WC15a104	Area	832821.8	840490.3	29.4	166.6	0	-9	0.00001892				0.00000021	0.00000270
WC15a105	Area	832606.6	840525.4	47.5	165.6	0	-19	0.00001892				0.00000021	0.00000270
WC15a106	Area	832536.1	840353.8	49.7	123	0	-21	0.00001892				0.00000021	0.00000270
WC15a107	Area	832581	840330.8	50.2	132.6	0	-21	0.00001892				0.00000021	0.00000270
WC15b101	Area	832400.8	840675.7	210.5	19	0	-4	0.00001892				0.00000021	0.00000270
WC15b102	Area	832602.1	840769.5	231.7	34.9	0	22	0.00001892				0.00000021	0.00000270
WC15b103	Area	832460.7	840702.8	57	34.1	0	0	0.00001892				0.00000021	0.00000270
WC15b104	Area	832769.8	840830.6	109.6	31.4	0	4	0.00001892				0.00000021	0.00000270
WC15b105	Area	832845.8	840769.1	163.5	31.9	0	-86	0.00001892				0.00000021	0.00000270
WC15c101	Area	831877.6	840658.7	53.2	27.3	0	-34	0.00001892				0.00000021	0.00000270
WC15c102	Area	831845.6	840688.6	31.4	12.8	0	-34	0.00001892				0.00000021	0.00000270
WC15c103	Area	832363.8	840390.1	222.5	28.7	0	-29	0.00001892				0.00000021	0.00000270
WC15c104	Area	831946.2	840554.3	118	63.5	0	-34	0.00001892				0.00000021	0.00000270
WC15c105	Area	831923.6	840629	53.2	27.5	0	-34	0.00001892				0.00000021	0.00000270

Source ID	Source Type	Coordinates of centroid		Dimension (m)		Height (m)	Angle / Width (deg / m)	Emission Rate (g/s/sq.m)					
		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
WC15c106	Area	831968.8	840599.5	54.7	26.8	0	-34	0.00001892				0.00000021	0.00000270
WC15c107	Area	832014.6	840569.5	54.7	26.1	0	-34	0.00001892				0.00000021	0.00000270
WC15c108	Area	832054.4	840529.7	53.9	45.9	0	-34	0.00001892				0.00000021	0.00000270
WC15c109	Area	832099.6	840499.7	54.7	45.9	0	-34	0.00001892				0.00000021	0.00000270
WC15c110	Area	832151	840478.7	54.1	24.4	0	-34	0.00001892				0.00000021	0.00000270
WC15c111	Area	832086.2	840777.5	46.6	13	0	-20	0.00001892				0.00000021	0.00000270
WC15c112	Area	832128.7	840745.6	49.9	19.6	0	-19	0.00001892				0.00000021	0.00000270
WC15c113	Area	832043.6	840799.9	47.3	14.3	0	-20	0.00001892				0.00000021	0.00000270
WC15c114	Area	832007.4	840818	33.1	24.1	0	-20	0.00001892				0.00000021	0.00000270
WC15c115	Area	832175.4	840716.6	52.5	18.3	0	-19	0.00001892				0.00000021	0.00000270
WC15c116	Area	832235	840693.5	73.9	24.6	0	-19	0.00001892				0.00000021	0.00000270
WC22a101	Area	831176.8	841778.6	181	24.4	0	-1	0.00001892				0.00000021	0.00000270
WC22a102	Area	831154	841589.8	151.2	11.8	0	-10	0.00001892				0.00000021	0.00000270
WC22a103	Area	831126.2	841569.5	46.9	34.7	0	-10	0.00001892				0.00000021	0.00000270
WC22a104	Area	831002.7	841771.1	25.8	103	0	-84	0.00001892				0.00000021	0.00000270
WC22a105	Area	830913.9	841749.9	23.2	73.8	0	-69	0.00001892				0.00000021	0.00000270
WC22a106	Area	830840.5	841712.5	24.6	85.1	0	-58	0.00001892				0.00000021	0.00000270
WC22a107	Area	830757	841623.9	19.7	148.6	0	-42	0.00001892				0.00000021	0.00000270
WC22a108	Area	830685.9	841583.6	70.2	7	0	-42	0.00001892				0.00000021	0.00000270
WC22a109	Area	830673.3	841547.9	8	63	0	-46	0.00001892				0.00000021	0.00000270
WC22a110	Area	830615.6	841497.6	12.8	90.1	0	-48	0.00001892				0.00000021	0.00000270
WC22a111	Area	830557.1	841427.5	13	90.8	0	-35	0.00001892				0.00000021	0.00000270
WC22a112	Area	830512	841348	10.6	90.6	0	-25	0.00001892				0.00000021	0.00000270
WC22a113	Area	830076.4	841810.2	54.6	69.6	0	-90	0.00001892				0.00000021	0.00000270
WC22a114	Area	830087.4	841747.3	65.4	93.4	0	-90	0.00001892				0.00000021	0.00000270
WC22a115	Area	830186.5	841832.8	58.2	73	0	-18	0.00001892				0.00000021	0.00000270
WC22a116	Area	830121.3	841892.6	101.5	7.7	0	-26	0.00001892				0.00000021	0.00000270
WC22b101	Area	831463	841707.4	170	26.7	0	-29	0.00001892				0.00000021	0.00000270
WC22b102	Area	831609.2	841591	200.1	26.6	0	-46	0.00001892				0.00000021	0.00000270
WC22b103	Area	831333.7	841763.5	107.6	25.2	0	-15	0.00001892				0.00000021	0.00000270
WC22b104	Area	831309.8	841505.1	183.1	27.1	0	-22	0.00001892				0.00000021	0.00000270
WC22b105	Area	831450.8	841419.7	142.2	35.3	0	-41	0.00001892				0.00000021	0.00000270
WC22c101	Area	831992.9	841472.8	23.3	188	0	-71	0.00001892				0.00000021	0.00000270
WC22c102	Area	831919.2	841477.8	34.6	51.3	0	-71	0.00001892				0.00000021	0.00000270
WC22c103	Area	831798.1	841086.1	191.7	102	0	-70	0.00001892				0.00000021	0.00000270
WC22c104	Area	831710.2	841104.4	119	48.6	0	-70	0.00001892				0.00000021	0.00000270
WC22c105	Area	831644.6	841390.2	135.4	76	0	-59	0.00001892				0.00000021	0.00000270
WC22c106	Area	831722.3	841258.1	162.8	79.9	0	-60	0.00001892				0.00000021	0.00000270
WC22c107	Area	831608.6	841274.7	262.6	94.1	0	-60	0.00001892				0.00000021	0.00000270
WC22c108	Area	831705.9	841413.4	115.3	45	0	-63	0.00001892				0.00000021	0.00000270
WC22c109	Area	831857.7	840977.7	50.7	63.9	0	-70	0.00001892				0.00000021	0.00000270
WC22c110	Area	831461.3	841272.5	50.9	75	0	-30	0.00001892				0.00000021	0.00000270
WC22c111	Area	831488.8	841205.4	50.9	95.7	0	-30	0.00001892				0.00000021	0.00000270
WC22c112	Area	831528	841180.4	39.1	49.1	0	-30	0.00001892				0.00000021	0.00000270