

The background is a vibrant yellow. It is decorated with several abstract geometric shapes in shades of blue, teal, and white. These include circles, semi-circles, and rounded rectangular shapes, some of which are layered or overlapping. The shapes are scattered across the page, creating a modern and dynamic visual effect.

Appendix A21.3

Air Quality Cumulative Modelling Results

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Appendix A21.3: Air Quality Cumulative Modelling Results

This appendix provides all results produced by the detailed modelling of the local air quality traffic impacts associated with the cumulative construction and operational phases of the Proposed Scheme.

1. Construction Traffic Assessment

1.1 'Do Minimum' Scenario

Predicted annual mean concentrations of NO₂, PM₁₀, PM_{2.5} and the number of exceedances of the 24-hour PM₁₀ limit value objective, at all modelled existing air quality sensitive receptors in the cumulative 2024 DM scenario are listed in Table 1.1. Locations of these receptors are shown in Figure 7.6 to Figure 7.9 in Volume 3 of this EIAR.

Table 1.1: Predicted 2024 Do Minimum Cumulative Construction Pollutant Statistics At All Modelled Receptor Locations

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. (µg/m ³)			No. of PM ₁₀ days > 50µg/m ³
		NO ₂	PM ₁₀	PM _{2.5}	
v	711573,733164	25.1	14.8	10.5	<1
AQ2	711617,733215	26.0	14.9	10.6	<1
AQ3	711479,733044	26.1	14.9	10.5	<1
AQ4	711529,733103	23.7	14.6	10.3	<1
AQ5	711744,733353	25.1	14.7	10.4	<1
AQ6	711788,733405	29.1	15.2	10.7	<1
AQ7	711655,733256	26.0	14.9	10.6	<1
AQ8	711709,733316	27.8	15.1	10.7	<1
AQ9	710482,734288	22.4	14.4	10.3	<1
AQ10	710412,734377	25.3	14.8	10.5	<1
AQ11	710743,734255	23.2	14.6	10.4	<1
AQ12	710591,734250	24.0	14.7	10.4	<1
AQ13	711420,732967	26.6	14.9	10.6	<1
AQ14	711448,733003	26.3	14.9	10.5	<1
AQ15	710301,734414	23.8	14.6	10.4	<1
AQ16	710167,734378	24.3	14.7	10.4	<1
AQ17	712683,733590	34.0	15.7	11.1	1
AQ18	712586,733581	27.8	15.2	10.7	<1
AQ19	714548,733909	33.2	15.8	11.1	1
AQ20	714074,733971	35.8	16.4	10.9	1
AQ21	710006,733711	25.0	14.7	10.5	<1
AQ22	713922,733930	31.9	15.7	10.8	1
AQ23	711152,733751	26.5	15.1	10.7	<1
AQ24	714639,733879	29.2	15.3	10.8	<1
AQ25	711023,733796	26.2	15.1	10.7	<1
AQ26	714418,733927	31.8	15.7	10.8	1
AQ27	714222,733972	31.9	15.6	10.6	1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ28	711509,733706	24.8	14.8	10.5	<1
AQ29	712433,733615	29.5	15.6	11.0	1
AQ30	711952,733684	34.6	16.0	11.2	1
AQ31	712134,733556	25.8	15.0	10.6	<1
AQ32	711823,733441	27.2	14.9	10.6	<1
AQ33	712039,733706	32.9	16.0	11.2	1
AQ34	709494,733745	24.3	14.7	10.4	<1
AQ35	711974,733459	23.5	14.5	10.3	<1
AQ36	712119,733722	28.5	15.3	10.8	<1
AQ37	714275,734283	38.7	16.8	11.7	1
AQ38	711859,733546	25.3	14.7	10.4	<1
AQ39	713568,733329	21.5	14.3	10.2	1
AQ40	714209,734360	39.9	17.4	12.0	1
AQ41	712270,733559	27.5	15.2	10.7	<1
AQ42	707523,734192	29.1	15.8	11.1	1
AQ43	711835,733497	30.0	15.2	10.8	<1
AQ44	711291,733715	25.1	14.8	10.5	<1
AQ45	709606,733982	21.8	14.3	10.2	<1
AQ46	709773,734036	21.8	14.3	10.2	<1
AQ47	712519,734405	22.1	14.4	10.2	<1
AQ48	711372,732946	26.7	14.9	10.6	<1
AQ49	707338,734219	26.4	15.3	10.8	<1
AQ50	708131,734901	23.7	14.7	10.4	<1
AQ51	704960,735129	22.6	14.5	10.3	<1
AQ52	704614,735049	33.4	17.1	11.9	1
AQ53	705162,735005	23.6	14.6	10.4	<1
AQ54	705065,734953	22.6	14.5	10.3	<1
AQ55	713641,733402	20.9	14.2	10.1	1
AQ56	704735,735146	33.3	17.0	11.8	1
AQ57	704805,735186	30.8	16.4	11.4	1
AQ58	705636,735138	21.5	14.3	10.2	<1
AQ59	705497,734993	21.4	14.3	10.2	<1
AQ60	705568,735266	21.8	14.4	10.2	<1
AQ61	705635,735192	21.6	14.4	10.2	<1
AQ62	705328,734927	21.3	14.3	10.2	<1
AQ63	705246,734992	23.4	14.6	10.4	<1
AQ64	705521,734872	21.2	14.3	10.2	1
AQ65	705465,734905	21.6	14.3	10.2	<1
AQ66	707561,734786	44.0	19.6	13.3	3

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ67	707572,734863	42.6	19.3	13.2	3
AQ68	707511,734336	45.8	19.6	13.4	3
AQ69	707529,734444	43.0	18.9	13.0	2
AQ70	705509,735407	23.3	14.7	10.4	<1
AQ71	705552,735346	22.1	14.5	10.3	<1
AQ72	707598,734938	38.1	18.1	12.5	2
AQ73	707610,735064	39.0	18.4	12.6	2
AQ74	712522,733793	25.7	14.9	10.6	<1
AQ75	712655,733738	28.1	15.2	10.7	<1
AQ76	713275,733271	24.6	14.7	10.5	<1
AQ77	712664,733808	29.8	15.5	11.0	1
AQ78	708018,734592	23.8	14.7	10.4	<1
AQ79	708015,734809	23.5	14.6	10.4	<1
AQ80	707970,734663	23.5	14.6	10.4	<1
AQ81	707983,734457	22.9	14.6	10.3	<1
AQ82	713796,733377	21.8	14.3	10.2	1
AQ83	713698,733360	21.6	14.3	10.2	1
AQ84	713998,733504	23.4	14.5	10.3	<1
AQ85	713878,733394	21.3	14.2	10.1	1
AQ86	713368,733290	22.0	14.3	10.2	<1
AQ87	713265,733178	22.8	14.5	10.3	<1
AQ88	713645,733351	21.7	14.3	10.2	1
AQ89	713454,733307	22.0	14.3	10.2	<1
AQ90	714347,734350	44.4	16.9	11.8	1
AQ91	714725,734188	34.5	16.2	11.3	1
AQ92	714368,734464	32.3	15.8	11.1	1
AQ93	714359,734405	35.1	15.9	11.2	1
AQ94	714468,734260	38.2	16.4	11.5	1
AQ95	714343,734277	36.8	16.2	11.4	1
AQ96	714621,734210	31.0	15.6	11.0	1
AQ97	714541,734243	35.7	16.3	11.4	1
AQ98	714149,734288	35.2	16.6	11.5	1
AQ99	713988,734291	33.2	16.2	11.3	1
AQ100	712660,734173	25.2	14.8	10.5	<1
AQ101	712665,734117	25.2	14.8	10.5	<1
AQ102	714453,734516	29.4	15.3	10.8	<1
AQ103	714394,734525	34.7	16.2	11.3	1
AQ104	714513,734508	30.1	15.5	10.9	1
AQ105	712134,734311	22.0	14.4	10.2	<1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ106	712657,734412	24.1	14.6	10.4	<1
AQ107	711849,734221	21.7	14.3	10.2	<1
AQ108	711986,734256	21.8	14.4	10.2	<1
AQ109	712657,734256	24.5	14.7	10.4	<1
AQ110	712659,734211	24.7	14.7	10.5	<1
AQ111	712657,734368	23.9	14.6	10.4	<1
AQ112	712628,734308	23.5	14.6	10.3	<1
AQ113	712640,733998	33.7	16.0	11.3	1
AQ114	706712,735162	62.9	25.5	16.8	13
AQ115	708093,735425	22.6	14.6	10.3	<1
AQ116	709913,734509	27.8	15.5	10.9	1
AQ117	708787,734911	29.2	15.5	10.9	1
AQ118	706710,735200	27.3	15.7	11.0	1
AQ119	706757,735214	25.8	15.3	10.8	<1
AQ120	708531,735210	23.1	14.5	10.3	<1
AQ121	706626,735222	26.8	15.5	10.9	1
AQ122	706684,735242	24.9	15.1	10.7	<1
AQ123	708550,735186	23.1	14.5	10.3	<1
AQ124	705078,735295	22.7	14.6	10.3	<1
AQ125	708568,735172	23.3	14.6	10.3	<1
AQ126	704964,735299	25.3	15.0	10.6	<1
AQ127	708542,735155	23.5	14.6	10.4	<1
AQ128	709752,734615	28.0	15.5	10.9	1
AQ129	708592,735114	23.8	14.6	10.4	<1
AQ130	708580,735160	23.5	14.6	10.4	<1
AQ131	708574,735129	23.7	14.6	10.4	<1
AQ132	709709,734629	28.6	15.6	11.0	1
AQ133	710059,734073	24.9	15.0	10.6	<1
AQ134	708019,735428	22.9	14.6	10.4	<1
AQ135	705003,735207	24.1	14.7	10.4	<1
AQ136	710152,734102	28.7	15.8	11.1	1
AQ137	710189,734090	27.2	15.4	10.9	<1
AQ138	710141,734112	28.6	15.7	11.0	1
AQ139	713467,734221	40.5	16.8	11.7	1
AQ140	710019,734148	25.7	15.1	10.7	<1
AQ141	705039,735153	24.2	14.7	10.4	<1
AQ142	705030,735186	23.5	14.6	10.4	<1
AQ143	710027,734116	25.0	15.0	10.6	<1
AQ144	705056,735139	23.7	14.6	10.4	<1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ145	708029,735187	30.6	16.2	11.3	1
AQ146	712176,733810	28.5	15.3	10.8	<1
AQ147	709999,734159	25.1	15.0	10.6	<1
AQ148	709991,734176	25.4	15.0	10.6	<1
AQ149	707970,735211	31.4	16.4	11.4	1
AQ150	709975,734187	25.6	15.0	10.6	<1
AQ151	708145,735365	22.8	14.6	10.4	<1
AQ152	708229,735368	22.5	14.5	10.3	<1
AQ153	708165,735351	22.7	14.6	10.4	<1
AQ154	708225,735215	31.6	16.3	11.4	1
AQ155	708080,735166	30.2	16.1	11.3	1
AQ156	708348,735316	23.7	14.7	10.4	<1
AQ157	708875,734886	27.7	15.3	10.8	<1
AQ158	708991,734863	26.1	15.1	10.7	<1
AQ159	712632,734083	23.6	14.6	10.4	<1
AQ160	711892,733766	26.6	15.1	10.7	<1
AQ161	711919,733775	27.3	15.2	10.7	<1
AQ162	711911,733769	26.9	15.1	10.7	<1
AQ163	708822,734900	28.5	15.4	10.9	<1
AQ164	712250,733819	27.4	15.2	10.7	<1
AQ165	708123,735150	30.2	16.1	11.2	1
AQ166	712292,733821	27.5	15.2	10.8	<1
AQ167	710137,734139	26.5	15.3	10.8	<1
AQ168	708418,735158	26.2	15.0	10.6	<1
AQ169	708380,735160	36.9	16.6	11.6	1
AQ170	710095,734185	27.2	15.4	10.9	<1
AQ171	708418,735196	25.0	14.8	10.5	<1
AQ172	708439,735178	25.2	14.8	10.5	<1
AQ173	707075,735296	24.2	14.9	10.6	<1
AQ174	708004,735396	23.2	14.7	10.4	<1
AQ175	708649,735108	23.6	14.6	10.4	<1
AQ176	705058,735196	22.7	14.5	10.3	<1
AQ177	707168,735297	25.2	15.1	10.7	<1
AQ178	708640,735068	24.7	14.8	10.5	<1
AQ179	705061,735239	22.6	14.5	10.3	<1
AQ180	705931,735337	27.8	15.8	11.0	1
AQ181	707961,735396	23.4	14.7	10.4	<1
AQ182	708020,735392	23.1	14.7	10.4	<1
AQ183	707947,735302	35.1	17.2	11.9	1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ184	708063,735383	23.0	14.6	10.4	<1
AQ185	708739,735053	23.5	14.6	10.4	<1
AQ186	708688,735065	24.3	14.7	10.4	<1
AQ187	708667,735040	26.3	15.0	10.6	<1
AQ188	705905,735353	28.4	15.9	11.1	1
AQ189	707983,735394	23.3	14.7	10.4	<1
AQ190	708052,735422	22.8	14.6	10.4	<1
AQ191	709184,734854	27.5	15.5	10.9	1
AQ192	705859,735376	29.4	16.1	11.3	1
AQ193	705748,735491	44.1	19.9	13.5	3
AQ194	705790,735395	29.6	16.2	11.3	1
AQ195	708559,734981	29.8	15.6	11.0	1
AQ196	705821,735385	29.2	16.1	11.3	1
AQ197	711326,733940	25.1	15.0	10.6	<1
AQ198	708211,735117	30.8	16.1	11.3	1
AQ199	709135,734852	25.7	15.1	10.7	<1
AQ200	708740,735014	32.2	16.1	11.3	1
AQ201	709868,734543	28.1	15.6	11.0	1
AQ202	708752,734925	30.6	15.7	11.1	1
AQ203	709081,734854	25.4	15.0	10.6	<1
AQ204	707976,735434	23.1	14.7	10.4	<1
AQ205	707832,735427	24.1	14.9	10.5	<1
AQ206	707759,735430	25.1	15.1	10.7	<1
AQ207	707784,735434	24.6	15.0	10.6	<1
AQ208	706224,735234	29.7	16.2	11.3	1
AQ209	709783,734594	28.3	15.6	11.0	1
AQ210	708007,735435	22.9	14.6	10.4	<1
AQ211	709793,734590	28.2	15.6	11.0	1
AQ212	709830,734567	28.3	15.6	11.0	1
AQ213	704993,735219	24.2	14.8	10.5	<1
AQ214	704958,735265	25.2	15.0	10.6	<1
AQ215	710082,734318	23.7	14.7	10.4	<1
AQ216	709369,734803	27.5	15.5	10.9	1
AQ217	706313,735231	36.6	17.7	12.2	1
AQ218	710050,734315	23.4	14.7	10.4	<1
AQ219	710070,734334	23.4	14.6	10.4	<1
AQ220	710098,734333	24.2	14.7	10.4	<1
AQ221	710025,734324	28.4	15.6	11.0	1
AQ222	713485,734217	47.5	17.8	12.4	1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ223	705700,735402	28.4	15.9	11.1	1
AQ224	708271,735353	22.6	14.5	10.3	<1
AQ225	704889,735221	24.3	14.9	10.5	<1
AQ226	705251,735348	22.3	14.5	10.3	<1
AQ227	708477,735206	24.0	14.7	10.4	<1
AQ228	708285,735291	23.0	14.6	10.4	<1
AQ229	711740,733729	25.1	14.9	10.5	<1
AQ230	708458,735196	24.7	14.8	10.5	<1
AQ231	709181,734938	31.9	16.3	11.4	1
AQ232	711728,733724	25.1	14.9	10.5	<1
AQ233	708318,735296	23.3	14.6	10.4	<1
AQ234	705285,735327	22.0	14.5	10.3	<1
AQ235	708523,735169	23.5	14.6	10.4	<1
AQ236	708499,735188	23.7	14.6	10.4	<1
AQ237	705313,735337	22.0	14.5	10.3	<1
AQ238	705304,735370	22.4	14.6	10.3	<1
AQ239	704774,735396	23.8	14.8	10.5	<1
AQ240	707871,735233	31.9	16.5	11.5	1
AQ241	708453,735002	27.9	15.3	10.8	<1
AQ242	707818,735235	32.5	16.7	11.6	1
AQ243	704779,735362	24.5	14.9	10.6	<1
AQ244	705013,735352	25.8	15.2	10.7	<1
AQ245	708480,734997	28.3	15.4	10.8	<1
AQ246	705054,735366	24.9	15.0	10.6	<1
AQ247	705119,735341	22.9	14.6	10.4	<1
AQ248	708475,735236	24.3	14.7	10.4	<1
AQ249	705078,735377	24.7	15.0	10.6	<1
AQ250	712163,733806	28.6	15.3	10.8	<1
AQ251	705109,735307	22.6	14.6	10.3	<1
AQ252	708508,735225	23.4	14.6	10.4	<1
AQ253	710065,734284	23.2	14.6	10.4	<1
AQ254	707650,735133	26.7	15.5	10.9	1
AQ255	708393,735293	24.0	14.7	10.4	<1
AQ256	708418,735279	24.0	14.7	10.4	<1
AQ257	710054,734265	28.9	15.7	11.0	1
AQ258	705141,735311	22.4	14.5	10.3	<1
AQ259	712153,733803	28.8	15.3	10.8	<1
AQ260	707677,735166	26.3	15.4	10.8	<1
AQ261	708014,735279	34.8	17.1	11.9	1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ262	705171,735309	22.2	14.5	10.3	<1
AQ263	707937,735216	30.9	16.3	11.4	1
AQ264	708403,735253	23.7	14.7	10.4	<1
AQ265	705195,735338	22.4	14.5	10.3	<1
AQ266	708056,735259	35.5	17.3	12.0	1
AQ267	710040,734304	29.1	15.7	11.0	1
AQ268	707705,735196	26.4	15.4	10.8	<1
AQ269	708295,735006	23.8	14.6	10.4	<1
AQ270	708272,735045	25.1	14.8	10.5	<1
AQ271	708257,735027	25.1	14.8	10.5	<1
AQ272	705462,735402	23.0	14.7	10.4	<1
AQ273	704653,735547	25.6	15.1	10.6	<1
AQ274	708315,735018	23.7	14.6	10.4	<1
AQ275	705632,735443	35.1	17.5	12.1	1
AQ276	705566,735426	30.0	16.3	11.4	1
AQ277	707354,735162	35.6	17.4	12.0	1
AQ278	705537,735444	32.8	16.9	11.8	1
AQ279	706809,735208	26.1	15.4	10.8	<1
AQ280	707907,735318	34.3	17.1	11.8	1
AQ281	705368,735428	30.4	16.4	11.4	1
AQ282	707918,735396	23.6	14.8	10.5	<1
AQ283	706863,735218	25.7	15.3	10.8	<1
AQ284	707924,735431	23.3	14.7	10.4	<1
AQ285	706896,735213	26.3	15.4	10.9	<1
AQ286	705454,735442	33.2	17.0	11.8	1
AQ287	707684,735392	38.9	18.4	12.6	2
AQ288	705410,735439	32.5	16.9	11.7	1
AQ289	706954,735237	25.3	15.2	10.7	<1
AQ290	705595,735443	34.1	17.3	12.0	1
AQ291	704757,735427	23.1	14.6	10.4	<1
AQ292	707021,735259	25.0	15.1	10.7	<1
AQ293	705127,735399	24.8	15.1	10.6	<1
AQ294	705101,735390	24.9	15.1	10.6	<1
AQ295	707739,735396	26.0	15.3	10.8	<1
AQ296	705229,735312	22.0	14.5	10.3	<1
AQ297	712333,733829	27.6	15.3	10.8	<1
AQ298	704754,735469	23.1	14.6	10.4	<1
AQ299	707718,735396	35.6	17.5	12.1	1
AQ300	712316,733824	27.4	15.2	10.7	<1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ301	710215,734080	26.7	15.3	10.8	<1
AQ302	712322,733827	27.5	15.2	10.8	<1
AQ303	707810,735397	24.7	15.0	10.6	<1
AQ304	711226,733964	24.7	14.9	10.6	<1
AQ305	712619,733877	29.3	15.4	10.9	<1
AQ306	712391,733830	27.0	15.1	10.7	<1
AQ307	707776,735397	25.2	15.2	10.7	<1
AQ308	705328,735334	22.0	14.5	10.3	<1
AQ309	712662,733866	34.7	16.3	11.4	1
AQ310	710238,734073	26.5	15.3	10.8	<1
AQ311	705330,735380	22.6	14.6	10.4	<1
AQ312	712642,733891	33.4	16.0	11.2	1
AQ313	705401,735375	22.4	14.6	10.3	<1
AQ314	712663,733853	33.8	16.2	11.3	1
AQ315	708232,735081	23.7	14.7	10.4	<1
AQ316	705373,735381	22.5	14.6	10.4	<1
AQ317	710006,734349	28.6	15.7	11.0	1
AQ318	708554,734911	22.2	14.4	10.3	<1
AQ319	709429,734873	21.8	14.4	10.2	<1
AQ320	713665,734152	22.0	14.3	10.2	<1
AQ321	708993,734994	23.2	14.6	10.4	<1
AQ322	713642,734180	27.1	15.0	10.6	<1
AQ323	707538,735505	37.7	18.0	12.4	2
AQ324	707224,735286	26.6	15.4	10.8	<1
AQ325	707428,735363	26.4	15.4	10.8	<1
AQ326	709478,734906	21.4	14.3	10.2	<1
AQ327	710051,733896	21.5	14.3	10.2	1
AQ328	709932,734587	22.9	14.5	10.3	<1
AQ329	710023,733980	21.4	14.3	10.2	1
AQ330	713830,734509	27.5	15.1	10.7	<1
AQ331	710135,733835	21.7	14.3	10.2	<1
AQ332	713842,734486	27.8	15.1	10.7	<1
AQ333	705912,735231	21.6	14.4	10.2	<1
AQ334	706732,735035	23.0	14.6	10.4	<1
AQ335	706154,735052	22.0	14.4	10.3	<1
AQ336	711875,733641	23.6	14.6	10.4	<1
AQ337	706002,735340	30.6	16.4	11.4	1
AQ338	706244,735176	23.5	14.8	10.5	<1
AQ339	706095,735132	21.7	14.4	10.2	<1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ340	713761,734083	21.5	14.2	10.2	1
AQ341	706122,735276	28.5	15.9	11.1	1
AQ342	709801,734669	22.9	14.5	10.3	<1
AQ343	706331,735066	25.8	15.2	10.7	<1
AQ344	712386,733811	26.2	15.0	10.6	<1
AQ345	708603,734805	21.4	14.3	10.2	1
AQ346	708681,734825	21.4	14.3	10.2	<1
AQ347	708438,735336	22.3	14.4	10.3	<1
AQ348	708533,734804	21.6	14.3	10.2	<1
AQ349	704516,735527	24.5	14.9	10.5	<1
AQ350	704247,735536	22.9	14.6	10.3	<1
AQ351	703952,735546	25.6	14.9	10.6	<1
AQ352	703817,735477	22.7	14.5	10.3	<1
AQ353	704077,735584	24.7	14.9	10.5	<1
AQ354	703633,735440	23.4	14.6	10.4	<1
AQ355	703569,735450	24.6	14.8	10.5	<1
AQ356	703438,735446	25.2	14.9	10.6	<1
AQ357	703452,735425	24.5	14.8	10.5	<1
AQ358	703538,735445	26.4	15.0	10.6	<1
AQ359	703532,735430	23.5	14.6	10.4	<1
AQ360	703190,735316	25.9	15.0	10.6	<1
AQ361	703197,735268	28.5	15.4	10.9	<1
AQ362	703153,735131	27.2	15.1	10.7	<1
AQ363	703179,735132	26.3	15.0	10.6	<1
AQ364	703195,735134	26.0	15.0	10.6	<1
AQ365	703436,735155	22.1	14.5	10.3	<1
AQ366	703039,735103	29.3	15.7	11.0	1
AQ367	702905,735052	26.8	15.3	10.8	<1
AQ368	702860,734633	32.6	17.0	11.8	1
AQ369	703206,734939	25.0	14.9	10.6	<1
AQ370	703187,734859	22.2	14.5	10.3	<1
AQ371	703503,734485	30.2	16.4	11.4	1
AQ372	703219,734605	39.2	17.9	12.3	2
AQ373	704043,734615	30.8	16.5	11.5	1
AQ374	704424,734884	32.5	16.9	11.8	1
AQ375	704127,734766	34.2	17.4	12.0	1
AQ376	706289,734872	24.4	14.9	10.5	<1
AQ377	706273,734748	23.3	14.7	10.4	<1
AQ378	706194,734293	23.7	14.8	10.5	<1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ379	706243,734510	23.0	14.6	10.4	<1
AQ380	706662,734322	22.7	14.5	10.3	<1
AQ381	706703,734320	23.1	14.6	10.4	<1
AQ382	706642,734236	21.8	14.4	10.2	<1
AQ383	706608,734245	21.9	14.4	10.2	<1
AQ384	706721,734254	23.1	14.6	10.4	<1
AQ385	706297,734272	22.0	14.4	10.3	<1
Air Quality Limit Value Objective		40	40	25	35

In the cumulative 2024 DM scenario annual mean concentrations of NO_2 are above the relevant national air quality limit value objective in some areas; six exceedances were modelled at receptors on the N4 Lucan Road, the M50 south of the Chapelizod Bypass and the R148 Wolfe Tone Quay. Annual mean NO_2 concentrations did not exceed $60\mu\text{g}/\text{m}^3$, indicating that exceedances of the NO_2 1-hour mean is unlikely to occur. Annual mean PM_{10} concentrations are below the relevant national air quality limit value objective for all modelled receptors. At all receptors, modelling of the maximum 24-hour PM_{10} concentration indicated that there is likely to be no more than three exceedance of the $50\mu\text{g}/\text{m}^3$ ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean $\text{PM}_{2.5}$ concentrations are also below the relevant national air quality limit value objective for all modelled receptors.

1.2 ‘Do Something’ Scenario

Predicted annual mean concentrations of NO₂, PM₁₀, PM_{2.5} and the number of exceedances of the 24 hour PM₁₀ objective, at all modelled existing air quality sensitive receptors in the cumulative 2024 DS scenario are listed in Table 1.2. Locations of these receptors are shown in Figures 7.6-7.9 in Volume 3 of this EIAR.

Table 1.2: Predicted Cumulative 2024 Do Something Construction Scenario Pollutant Statistics At All Modelled Receptor Locations

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. (µg/m ³)			No. of PM ₁₀ days > 50µg/m ³
		NO ₂	PM ₁₀	PM _{2.5}	
AQ1	711573,733164	24.2	14.7	10.4	<1
AQ2	711617,733215	25.0	14.8	10.5	<1
AQ3	711479,733044	25.1	14.8	10.5	<1
AQ4	711529,733103	23.2	14.5	10.3	<1
AQ5	711744,733353	25.1	14.6	10.4	<1
AQ6	711788,733405	29.2	15.0	10.6	<1
AQ7	711655,733256	25.0	14.8	10.5	<1
AQ8	711709,733316	27.5	14.9	10.6	<1
AQ9	710482,734288	22.6	14.5	10.3	<1
AQ10	710412,734377	25.7	14.8	10.5	<1
AQ11	710743,734255	23.5	14.7	10.4	<1
AQ12	710591,734250	24.5	14.8	10.5	<1
AQ13	711420,732967	25.7	14.8	10.5	<1
AQ14	711448,733003	25.4	14.8	10.5	<1
AQ15	710301,734414	23.9	14.6	10.4	<1
AQ16	710167,734378	24.4	14.7	10.4	<1
AQ17	712683,733590	35.0	15.8	11.1	1
AQ18	712586,733581	28.2	15.2	10.8	<1
AQ19	714548,733909	32.5	15.7	11.1	1
AQ20	714074,733971	35.8	16.4	11.5	1
AQ21	710006,733711	24.2	14.6	10.4	<1
AQ22	713922,733930	32.0	15.6	11.0	1
AQ23	711152,733751	26.3	15.1	10.7	<1
AQ24	714639,733879	28.9	15.3	10.8	<1
AQ25	711023,733796	26.1	15.1	10.7	<1
AQ26	714418,733927	31.8	15.7	11.1	1
AQ27	714222,733972	31.9	15.6	11.0	1
AQ28	711509,733706	24.8	14.8	10.5	<1
AQ29	712433,733615	29.8	15.6	11.0	1
AQ30	711952,733684	30.7	15.4	10.9	<1
AQ31	712134,733556	26.0	15.0	10.6	<1
AQ32	711823,733441	27.2	14.8	10.5	<1
AQ33	712039,733706	29.7	15.5	10.9	1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ34	709494,733745	24.3	14.7	10.4	<1
AQ35	711974,733459	23.5	14.5	10.3	<1
AQ36	712119,733722	27.0	15.1	10.7	<1
AQ37	714275,734283	39.9	16.9	11.8	1
AQ38	711859,733546	24.1	14.5	10.3	<1
AQ39	713568,733329	22.3	14.3	10.2	<1
AQ40	714209,734360	41.6	17.7	12.3	1
AQ41	712270,733559	27.7	15.2	10.7	<1
AQ42	707523,734192	29.3	15.8	11.1	1
AQ43	711835,733497	27.8	14.9	10.5	<1
AQ44	711291,733715	25.1	14.8	10.5	<1
AQ45	709606,733982	22.3	14.4	10.3	<1
AQ46	709773,734036	22.0	14.4	10.2	<1
AQ47	712519,734405	22.3	14.4	10.2	<1
AQ48	711372,732946	25.9	14.8	10.5	<1
AQ49	707338,734219	26.6	15.3	10.8	<1
AQ50	708131,734901	23.8	14.7	10.4	<1
AQ51	704960,735129	22.7	14.5	10.3	<1
AQ52	704614,735049	33.6	17.2	11.9	1
AQ53	705162,735005	23.6	14.6	10.4	<1
AQ54	705065,734953	22.6	14.5	10.3	<1
AQ55	713641,733402	21.3	14.2	10.1	1
AQ56	704735,735146	33.6	17.1	11.8	1
AQ57	704805,735186	31.0	16.4	11.5	1
AQ58	705636,735138	21.5	14.3	10.2	<1
AQ59	705497,734993	21.4	14.3	10.2	<1
AQ60	705568,735266	21.8	14.4	10.2	<1
AQ61	705635,735192	21.6	14.4	10.2	<1
AQ62	705328,734927	21.4	14.3	10.2	<1
AQ63	705246,734992	23.4	14.6	10.4	<1
AQ64	705521,734872	21.2	14.3	10.2	1
AQ65	705465,734905	21.6	14.3	10.2	<1
AQ66	707561,734786	44.9	19.7	13.4	3
AQ67	707572,734863	43.5	19.4	13.3	3
AQ68	707511,734336	47.3	19.8	13.5	3
AQ69	707529,734444	44.4	19.1	13.1	3
AQ70	705509,735407	23.3	14.7	10.4	<1
AQ71	705552,735346	22.1	14.5	10.3	<1
AQ72	707598,734938	39.0	18.3	12.6	2

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ73	707610,735064	40.1	18.5	12.7	2
AQ74	712522,733793	25.6	14.9	10.5	<1
AQ75	712655,733738	29.1	15.3	10.8	<1
AQ76	713275,733271	25.6	14.9	10.6	<1
AQ77	712664,733808	30.7	15.7	11.0	1
AQ78	708018,734592	24.0	14.7	10.4	<1
AQ79	708015,734809	23.6	14.7	10.4	<1
AQ80	707970,734663	23.6	14.7	10.4	<1
AQ81	707983,734457	23.1	14.6	10.4	<1
AQ82	713796,733377	22.6	14.4	10.2	<1
AQ83	713698,733360	22.3	14.3	10.2	<1
AQ84	713998,733504	24.7	14.7	10.4	<1
AQ85	713878,733394	21.8	14.3	10.2	1
AQ86	713368,733290	22.7	14.4	10.3	<1
AQ87	713265,733178	23.4	14.5	10.3	<1
AQ88	713645,733351	22.4	14.4	10.2	<1
AQ89	713454,733307	22.9	14.4	10.3	<1
AQ90	714347,734350	45.0	16.9	11.9	1
AQ91	714725,734188	34.8	16.2	11.4	1
AQ92	714368,734464	31.4	15.6	11.0	1
AQ93	714359,734405	34.7	15.8	11.2	1
AQ94	714468,734260	38.1	16.4	11.5	1
AQ95	714343,734277	37.2	16.3	11.4	1
AQ96	714621,734210	31.2	15.6	11.0	1
AQ97	714541,734243	35.8	16.3	11.4	1
AQ98	714149,734288	36.4	16.8	11.7	1
AQ99	713988,734291	34.3	16.4	11.5	1
AQ100	712660,734173	25.4	14.8	10.5	<1
AQ101	712665,734117	25.5	14.9	10.5	<1
AQ102	714453,734516	28.9	15.3	10.8	<1
AQ103	714394,734525	33.3	15.9	11.2	1
AQ104	714513,734508	29.2	15.3	10.8	<1
AQ105	712134,734311	22.3	14.4	10.3	<1
AQ106	712657,734412	24.3	14.7	10.4	<1
AQ107	711849,734221	21.9	14.4	10.2	<1
AQ108	711986,734256	22.0	14.4	10.2	<1
AQ109	712657,734256	24.7	14.7	10.5	<1
AQ110	712659,734211	24.9	14.8	10.5	<1
AQ111	712657,734368	24.1	14.6	10.4	<1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ112	712628,734308	23.6	14.6	10.4	<1
AQ113	712640,733998	34.4	16.1	11.3	1
AQ114	708093,735425	22.7	14.6	10.4	<1
AQ115	709913,734509	28.5	15.6	11.0	1
AQ116	708787,734911	29.8	15.6	11.0	1
AQ117	706710,735200	27.4	15.7	11.0	1
AQ118	706757,735214	25.8	15.3	10.8	<1
AQ119	708531,735210	23.3	14.6	10.3	<1
AQ120	706626,735222	26.8	15.5	10.9	1
AQ121	706684,735242	24.9	15.1	10.7	<1
AQ122	708550,735186	23.3	14.6	10.3	<1
AQ123	705078,735295	22.7	14.6	10.4	<1
AQ124	708568,735172	23.5	14.6	10.4	<1
AQ125	704964,735299	25.3	15.0	10.6	<1
AQ126	708542,735155	23.7	14.6	10.4	<1
AQ127	709752,734615	28.6	15.6	11.0	1
AQ128	708592,735114	24.1	14.7	10.4	<1
AQ129	708580,735160	23.6	14.6	10.4	<1
AQ130	708574,735129	23.9	14.6	10.4	<1
AQ131	709709,734629	29.2	15.7	11.0	1
AQ132	710059,734073	25.2	15.0	10.6	<1
AQ133	708019,735428	23.0	14.7	10.4	<1
AQ134	705003,735207	24.2	14.7	10.5	<1
AQ135	710152,734102	29.4	15.9	11.1	1
AQ136	710189,734090	27.7	15.5	10.9	1
AQ137	710141,734112	29.3	15.9	11.1	1
AQ138	710019,734148	26.0	15.2	10.7	<1
AQ139	705039,735153	24.3	14.7	10.5	<1
AQ140	705030,735186	23.6	14.7	10.4	<1
AQ141	710027,734116	25.3	15.0	10.6	<1
AQ142	705056,735139	23.8	14.7	10.4	<1
AQ143	708029,735187	31.1	16.3	11.4	1
AQ144	712176,733810	28.4	15.3	10.8	<1
AQ145	709999,734159	25.4	15.0	10.6	<1
AQ146	709991,734176	25.7	15.1	10.6	<1
AQ147	707970,735211	32.0	16.5	11.5	1
AQ148	709975,734187	25.8	15.1	10.6	<1
AQ149	708145,735365	22.9	14.6	10.4	<1
AQ150	708229,735368	22.6	14.6	10.3	<1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ151	708165,735351	22.8	14.6	10.4	<1
AQ152	708225,735215	32.2	16.4	11.5	1
AQ153	708080,735166	30.7	16.2	11.3	1
AQ154	708348,735316	23.9	14.7	10.4	<1
AQ155	708875,734886	28.2	15.4	10.8	<1
AQ156	708991,734863	26.5	15.2	10.7	<1
AQ157	712632,734083	23.8	14.6	10.4	<1
AQ158	711892,733766	26.5	15.1	10.7	<1
AQ159	711919,733775	27.1	15.2	10.7	<1
AQ160	711911,733769	26.8	15.1	10.7	<1
AQ161	708822,734900	29.0	15.5	10.9	1
AQ162	712250,733819	27.4	15.2	10.7	<1
AQ163	708123,735150	30.7	16.1	11.3	1
AQ164	712292,733821	27.5	15.2	10.8	<1
AQ165	710137,734139	27.0	15.4	10.8	<1
AQ166	708418,735158	26.5	15.0	10.6	<1
AQ167	708380,735160	37.8	16.7	11.7	1
AQ168	710095,734185	27.7	15.5	10.9	1
AQ169	708418,735196	25.3	14.8	10.5	<1
AQ170	708439,735178	25.5	14.9	10.5	<1
AQ171	707075,735296	24.2	14.9	10.6	<1
AQ172	708004,735396	23.3	14.7	10.4	<1
AQ173	708649,735108	23.8	14.6	10.4	<1
AQ174	705058,735196	22.8	14.5	10.3	<1
AQ175	707168,735297	25.3	15.1	10.7	<1
AQ176	708640,735068	25.1	14.8	10.5	<1
AQ177	705061,735239	22.6	14.5	10.3	<1
AQ178	705931,735337	27.8	15.8	11.0	1
AQ179	707961,735396	23.5	14.8	10.5	<1
AQ180	708020,735392	23.2	14.7	10.4	<1
AQ181	707947,735302	35.8	17.3	12.0	1
AQ182	708063,735383	23.1	14.7	10.4	<1
AQ183	708739,735053	23.8	14.6	10.4	<1
AQ184	708688,735065	24.6	14.7	10.5	<1
AQ185	708667,735040	26.8	15.1	10.7	<1
AQ186	705905,735353	28.4	15.9	11.1	1
AQ187	707983,735394	23.4	14.7	10.4	<1
AQ188	708052,735422	22.9	14.6	10.4	<1
AQ189	709184,734854	27.9	15.6	10.9	1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days > $50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ190	705859,735376	29.4	16.1	11.3	1
AQ191	705748,735491	44.1	19.9	13.5	3
AQ192	705790,735395	29.6	16.2	11.3	1
AQ193	708559,734981	30.5	15.7	11.0	1
AQ194	705821,735385	29.2	16.1	11.3	1
AQ195	711326,733940	25.4	15.0	10.6	<1
AQ196	708211,735117	31.4	16.2	11.3	1
AQ197	709135,734852	26.1	15.2	10.7	<1
AQ198	708740,735014	33.2	16.2	11.4	1
AQ199	709868,734543	28.9	15.7	11.0	1
AQ200	708752,734925	31.4	15.8	11.1	1
AQ201	709081,734854	25.8	15.1	10.7	<1
AQ202	707976,735434	23.2	14.7	10.4	<1
AQ203	707832,735427	24.2	14.9	10.6	<1
AQ204	707759,735430	25.2	15.2	10.7	<1
AQ205	707784,735434	24.8	15.1	10.6	<1
AQ206	706224,735234	29.8	16.2	11.3	1
AQ207	709783,734594	29.0	15.7	11.1	1
AQ208	708007,735435	23.0	14.7	10.4	<1
AQ209	709793,734590	28.9	15.7	11.0	1
AQ210	709830,734567	29.0	15.8	11.1	1
AQ211	704993,735219	24.3	14.8	10.5	<1
AQ212	704958,735265	25.2	15.0	10.6	<1
AQ213	710082,734318	23.7	14.7	10.4	<1
AQ214	709369,734803	28.1	15.6	11.0	1
AQ215	706313,735231	36.6	17.7	12.2	1
AQ216	710050,734315	23.6	14.7	10.4	<1
AQ217	710070,734334	23.5	14.6	10.4	<1
AQ218	710098,734333	24.3	14.7	10.4	<1
AQ219	710025,734324	29.0	15.7	11.0	1
AQ220	705700,735402	28.4	15.9	11.1	1
AQ221	708271,735353	22.7	14.6	10.3	<1
AQ222	704889,735221	24.3	14.9	10.5	<1
AQ223	705251,735348	22.3	14.5	10.3	<1
AQ224	708477,735206	24.2	14.7	10.4	<1
AQ225	708285,735291	23.1	14.6	10.4	<1
AQ226	711740,733729	25.1	14.9	10.5	<1
AQ227	708458,735196	24.9	14.8	10.5	<1
AQ228	709181,734938	32.7	16.5	11.5	1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM ₁₀ days > 50 $\mu\text{g}/\text{m}^3$
		NO ₂	PM ₁₀	PM _{2.5}	
AQ229	711728,733724	25.0	14.9	10.5	<1
AQ230	708318,735296	23.4	14.7	10.4	<1
AQ231	705285,735327	22.0	14.5	10.3	<1
AQ232	708523,735169	23.7	14.6	10.4	<1
AQ233	708499,735188	23.9	14.6	10.4	<1
AQ234	705313,735337	22.0	14.5	10.3	<1
AQ235	705304,735370	22.5	14.6	10.3	<1
AQ236	704774,735396	23.8	14.8	10.5	<1
AQ237	707871,735233	32.4	16.6	11.6	1
AQ238	708453,735002	28.5	15.4	10.9	<1
AQ239	707818,735235	33.1	16.8	11.7	1
AQ240	704779,735362	24.5	14.9	10.6	<1
AQ241	705013,735352	25.7	15.2	10.7	<1
AQ242	708480,734997	28.8	15.4	10.9	<1
AQ243	705054,735366	24.8	15.0	10.6	<1
AQ244	705119,735341	22.9	14.6	10.4	<1
AQ245	708475,735236	24.5	14.8	10.5	<1
AQ246	705078,735377	24.7	15.0	10.6	<1
AQ247	712163,733806	28.4	15.3	10.8	<1
AQ248	705109,735307	22.6	14.6	10.3	<1
AQ249	708508,735225	23.5	14.6	10.4	<1
AQ250	710065,734284	23.4	14.7	10.4	<1
AQ251	707650,735133	27.0	15.5	10.9	1
AQ252	708393,735293	24.1	14.7	10.5	<1
AQ253	708418,735279	24.1	14.7	10.5	<1
AQ254	710054,734265	29.4	15.8	11.1	1
AQ255	705141,735311	22.4	14.5	10.3	<1
AQ256	712153,733803	28.4	15.3	10.8	<1
AQ257	707677,735166	26.6	15.5	10.9	<1
AQ258	708014,735279	35.5	17.3	12.0	1
AQ259	705171,735309	22.2	14.5	10.3	<1
AQ260	707937,735216	31.4	16.4	11.4	1
AQ261	708403,735253	23.8	14.7	10.4	<1
AQ262	705195,735338	22.4	14.5	10.3	<1
AQ263	708056,735259	36.3	17.4	12.1	1
AQ264	710040,734304	29.5	15.8	11.1	1
AQ265	707705,735196	26.7	15.5	10.9	<1
AQ266	708295,735006	24.1	14.6	10.4	<1
AQ267	708272,735045	25.5	14.8	10.5	<1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ268	708257,735027	25.5	14.8	10.5	<1
AQ269	705462,735402	23.0	14.7	10.4	<1
AQ270	704653,735547	25.3	15.0	10.6	<1
AQ271	708315,735018	24.0	14.6	10.4	<1
AQ272	705632,735443	35.0	17.5	12.1	1
AQ273	705566,735426	30.0	16.3	11.4	1
AQ274	707354,735162	35.8	17.4	12.1	1
AQ275	705537,735444	32.7	16.9	11.8	1
AQ276	706809,735208	26.2	15.4	10.8	<1
AQ277	707907,735318	35.0	17.2	11.9	1
AQ278	705368,735428	30.4	16.4	11.4	1
AQ279	707918,735396	23.8	14.8	10.5	<1
AQ280	706863,735218	25.7	15.3	10.8	<1
AQ281	707924,735431	23.4	14.7	10.5	<1
AQ282	706896,735213	26.3	15.4	10.9	<1
AQ283	705454,735442	33.1	17.0	11.8	1
AQ284	707684,735392	39.5	18.5	12.7	2
AQ285	705410,735439	32.4	16.9	11.7	1
AQ286	706954,735237	25.4	15.2	10.7	<1
AQ287	705595,735443	34.1	17.3	12.0	1
AQ288	704757,735427	23.1	14.6	10.4	<1
AQ289	707021,735259	25.0	15.1	10.7	<1
AQ290	705127,735399	24.8	15.1	10.6	<1
AQ291	705101,735390	24.9	15.1	10.6	<1
AQ292	707739,735396	26.3	15.4	10.8	<1
AQ293	705229,735312	22.0	14.5	10.3	<1
AQ294	712333,733829	27.6	15.3	10.8	<1
AQ295	704754,735469	23.0	14.6	10.4	<1
AQ296	707718,735396	36.1	17.6	12.2	1
AQ297	712316,733824	27.4	15.2	10.8	<1
AQ298	710215,734080	27.2	15.4	10.9	<1
AQ299	712322,733827	27.6	15.3	10.8	<1
AQ300	707810,735397	24.9	15.1	10.6	<1
AQ301	711226,733964	24.9	15.0	10.6	<1
AQ302	712619,733877	29.9	15.5	10.9	1
AQ303	712391,733830	27.0	15.2	10.7	<1
AQ304	707776,735397	25.4	15.2	10.7	<1
AQ305	705328,735334	22.0	14.5	10.3	<1
AQ306	712662,733866	36.1	16.5	11.5	1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days > $50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ307	710238,734073	26.9	15.4	10.8	<1
AQ308	705330,735380	22.6	14.6	10.4	<1
AQ309	712642,733891	34.5	16.1	11.3	1
AQ310	705401,735375	22.4	14.6	10.3	<1
AQ311	712663,733853	35.1	16.4	11.5	1
AQ312	708232,735081	23.9	14.7	10.4	<1
AQ313	705373,735381	22.5	14.6	10.4	<1
AQ314	710006,734349	29.4	15.8	11.1	1
AQ315	708554,734911	22.5	14.5	10.3	<1
AQ316	709429,734873	21.9	14.4	10.2	<1
AQ317	713665,734152	22.1	14.3	10.2	<1
AQ318	708993,734994	23.4	14.6	10.4	<1
AQ319	713642,734180	27.4	15.0	10.6	<1
AQ320	707538,735505	37.9	18.1	12.4	2
AQ321	707224,735286	26.7	15.4	10.9	<1
AQ322	707428,735363	26.5	15.4	10.8	<1
AQ323	709478,734906	21.5	14.3	10.2	<1
AQ324	710051,733896	21.5	14.3	10.2	1
AQ325	709932,734587	23.1	14.6	10.3	<1
AQ326	710023,733980	21.4	14.3	10.2	1
AQ327	713830,734509	28.2	15.2	10.8	<1
AQ328	710135,733835	21.6	14.3	10.2	<1
AQ329	713842,734486	28.6	15.3	10.8	<1
AQ330	705912,735231	21.6	14.4	10.2	<1
AQ331	706732,735035	23.0	14.7	10.4	<1
AQ332	706154,735052	22.0	14.5	10.3	<1
AQ333	711875,733641	22.7	14.4	10.3	<1
AQ334	706002,735340	30.6	16.4	11.4	1
AQ335	706244,735176	23.5	14.8	10.5	<1
AQ336	706095,735132	21.8	14.4	10.2	<1
AQ337	713761,734083	21.6	14.3	10.2	1
AQ338	706122,735276	28.5	15.9	11.1	1
AQ339	709801,734669	23.1	14.6	10.3	<1
AQ340	706331,735066	25.8	15.2	10.7	<1
AQ341	712386,733811	26.1	15.0	10.6	<1
AQ342	708603,734805	21.5	14.3	10.2	<1
AQ343	708681,734825	21.6	14.3	10.2	<1
AQ344	708438,735336	22.4	14.5	10.3	<1
AQ345	708533,734804	21.9	14.4	10.2	<1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ346	704516,735527	24.3	14.9	10.5	<1
AQ347	704247,735536	22.8	14.5	10.3	<1
AQ348	703952,735546	25.4	14.9	10.5	<1
AQ349	703817,735477	22.6	14.5	10.3	<1
AQ350	704077,735584	24.4	14.8	10.5	<1
AQ351	703633,735440	23.4	14.6	10.4	<1
AQ352	703569,735450	24.6	14.7	10.5	<1
AQ353	703438,735446	25.4	14.9	10.6	<1
AQ354	703452,735425	24.6	14.8	10.5	<1
AQ355	703538,735445	26.3	15.0	10.6	<1
AQ356	703532,735430	23.4	14.6	10.4	<1
AQ357	703190,735316	26.1	15.1	10.7	<1
AQ358	703197,735268	28.9	15.5	10.9	1
AQ359	703153,735131	27.7	15.1	10.7	<1
AQ360	703179,735132	26.6	15.0	10.6	<1
AQ361	703195,735134	26.3	15.0	10.6	<1
AQ362	703436,735155	22.3	14.5	10.3	<1
AQ363	703039,735103	30.0	15.8	11.1	1
AQ364	702905,735052	27.2	15.4	10.8	<1
AQ365	702860,734633	32.9	17.0	11.8	1
AQ366	703206,734939	25.1	14.9	10.6	<1
AQ367	703187,734859	22.3	14.5	10.3	<1
AQ368	703503,734485	30.3	16.4	11.4	1
AQ369	703219,734605	39.5	18.0	12.4	2
AQ370	704043,734615	30.9	16.6	11.5	1
AQ371	704424,734884	32.7	17.0	11.8	1
AQ372	704127,734766	34.4	17.4	12.0	1
AQ373	706289,734872	24.5	14.9	10.5	<1
AQ374	706273,734748	23.4	14.7	10.4	<1
AQ375	706194,734293	23.7	14.8	10.5	<1
AQ376	706243,734510	23.1	14.7	10.4	<1
AQ377	706662,734322	22.7	14.5	10.3	<1
AQ378	706703,734320	23.2	14.6	10.4	<1
AQ379	706642,734236	21.8	14.4	10.2	<1
AQ380	706608,734245	21.9	14.4	10.2	<1
AQ381	706721,734254	23.1	14.6	10.4	<1
AQ382	706297,734272	22.1	14.4	10.3	<1
AQ383	706953,734248	23.2	14.6	10.4	<1
AQ384	706750,734841	22.1	14.4	10.3	<1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $> 50\mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ385	706885,734617	21.7	14.4	10.2	<1
Air Quality Limit Value Objective		40	40	25	35

In the cumulative 2024 DS scenario annual mean concentrations of NO_2 are above the relevant national air quality limit value objective in some areas; eight exceedances were modelled at receptors on the N4 Lucan Road, the M50 south of the Chapelizod Bypass and the R148 Wolfe Tone Quay. This is a reduction from six exceedances in the DM scenario. Annual mean NO_2 concentrations did not exceed $60\mu\text{g}/\text{m}^3$, indicating that exceedances of the NO_2 1-hour mean are unlikely to occur. Annual mean PM_{10} concentrations are below the relevant national air quality limit value objective for all modelled receptors. At all receptors, modelling of the maximum 24-hour PM_{10} concentration indicated that there is likely to be no more than three exceedance of the $50\mu\text{g}/\text{m}^3$ ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean $\text{PM}_{2.5}$ concentrations are also below the relevant national air quality limit value objective for all modelled receptors.

1.3 Comparison of Do Something with Do Minimum

Table 1.3 provides the predicted change in and impact on pollutant concentrations, between the cumulative DM and DS in 2024. Pollutant concentrations have been outlined to one decimal place, where '<0.1' is reported, the pollutant concentration is considered to be less than this amount (i.e. two or more decimal places).

Table 1.3: Predicted Changes in Cumulative Construction DM and DS and Impact Significance Criteria At All Modelled Receptor Locations

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. (µg/m³)			Change in No. of PM10 days >50 µg/m³	Impact on Annual Mean Conc.		
		NO ₂	PM ₁₀	PM _{2.5}		NO ₂	PM ₁₀	PM _{2.5}
AQ1	721010,729635	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ2	721010,729636	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ3	721010,729637	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ4	721010,729638	-0.6	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ5	721010,729639	<0.1	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ6	721010,729640	0.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ7	721010,729641	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ8	721010,729642	-0.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ9	721010,729643	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ10	721010,729644	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ11	721010,729645	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ12	721010,729646	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ13	721010,729647	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ14	721010,729648	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ15	721010,729649	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ16	721010,729650	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ17	721010,729651	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ18	721010,729652	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ19	721010,729653	-0.6	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ20	721010,729654	0.1	<0.1	0.5	<1	Negligible	Negligible	Negligible
AQ21	721010,729655	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ22	721010,729656	0.1	<0.1	0.2	<1	Negligible	Negligible	Negligible
AQ23	721010,729657	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ24	721010,729658	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ25	721010,729659	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ26	721010,729660	<0.1	<0.1	0.3	<1	Negligible	Negligible	Negligible
AQ27	721010,729661	<0.1	<0.1	0.4	<1	Negligible	Negligible	Negligible
AQ28	721010,729662	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ29	721010,729663	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ30	721010,729664	-3.9	-0.6	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ31	721010,729665	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ32	721010,729666	-0.1	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ33	721010,729667	-3.2	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO ₂	PM ₁₀	PM _{2.5}		NO ₂	PM ₁₀	PM _{2.5}
AQ34	721010,729668	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ35	721010,729669	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ36	721010,729670	-1.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ37	721010,729671	1.2	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ38	721010,729672	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ39	721010,729673	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ40	721010,729674	1.7	0.3	0.2	<1	Slight Adverse	Negligible	Negligible
AQ41	721010,729675	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ42	721010,729676	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ43	721010,729677	-2.2	-0.3	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ44	721010,729678	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ45	721010,729679	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ46	721010,729680	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ47	721010,729681	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ48	721010,729682	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ49	721010,729683	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ50	721010,729684	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ51	721010,729685	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ52	721010,729686	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ53	721010,729687	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ54	721010,729688	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ55	721010,729689	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ56	721010,729690	0.3	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ57	721010,729691	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ58	721010,729692	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ59	721010,729693	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ60	721010,729694	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ61	721010,729695	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ62	721010,729696	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ63	721010,729697	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ64	721010,729698	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ65	721010,729699	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ66	721010,729700	0.9	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ67	721010,729701	0.9	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ68	721010,729702	1.5	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ69	721010,729703	1.5	0.2	0.1	1	Slight Adverse	Negligible	Negligible
AQ70	721010,729704	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ71	721010,729705	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ72	721010,729706	0.9	0.1	0.1	<1	Slight Adverse	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO ₂	PM ₁₀	PM _{2.5}		NO ₂	PM ₁₀	PM _{2.5}
AQ73	721010,729707	1.0	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ74	721010,729708	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ75	721010,729709	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ76	721010,729710	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ77	721010,729711	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ78	721010,729712	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ79	721010,729713	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ80	721010,729714	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ81	721010,729715	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ82	721010,729716	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ83	721010,729717	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ84	721010,729718	1.3	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ85	721010,729719	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ86	721010,729720	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ87	721010,729721	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ88	721010,729722	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ89	721010,729723	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ90	721010,729724	0.5	<0.1	<0.1	<1	Slight Adverse	Negligible	Negligible
AQ91	721010,729725	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ92	721010,729726	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ93	721010,729727	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ94	721010,729728	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ95	721010,729729	0.4	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ96	721010,729730	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ97	721010,729731	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ98	721010,729732	1.3	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ99	721010,729733	1.1	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ100	721010,729734	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ101	721010,729735	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ102	721010,729736	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ103	721010,729737	-1.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ104	721010,729738	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ105	721010,729739	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ106	721010,729740	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ107	721010,729741	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ108	721010,729742	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ109	721010,729743	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ110	721010,729744	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ111	721010,729745	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No. of PM10 days $>50 \mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO ₂	PM ₁₀	PM _{2.5}		NO ₂	PM ₁₀	PM _{2.5}
AQ112	721010,729746	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ113	721010,729747	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ114	721010,729748	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ115	721010,729749	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ116	721010,729750	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ117	721010,729751	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ118	721010,729752	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ119	721010,729753	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ120	721010,729754	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ121	721010,729755	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ122	721010,729756	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ123	721010,729757	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ124	721010,729758	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ125	721010,729759	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ126	721010,729760	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ127	721010,729761	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ128	721010,729762	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ129	721010,729763	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ130	721010,729764	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ131	721010,729765	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ132	721010,729766	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ133	721010,729767	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ134	721010,729768	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ135	721010,729769	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ136	721010,729770	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ137	721010,729771	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ138	721010,729772	0.3	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ139	721010,729773	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ140	721010,729774	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ141	721010,729775	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ142	721010,729776	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ143	721010,729777	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ144	721010,729778	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ145	721010,729779	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ146	721010,729780	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ147	721010,729781	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ148	721010,729782	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ149	721010,729783	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ150	721010,729784	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No. of PM10 days $>50 \mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO ₂	PM ₁₀	PM _{2.5}		NO ₂	PM ₁₀	PM _{2.5}
AQ151	721010,729785	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ152	721010,729786	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ153	721010,729787	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ154	721010,729788	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ155	721010,729789	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ156	721010,729790	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ157	721010,729791	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ158	721010,729792	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ159	721010,729793	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ160	721010,729794	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ161	721010,729795	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ162	721010,729796	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ163	721010,729797	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ164	721010,729798	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ165	721010,729799	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ166	721010,729800	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ167	721010,729801	0.9	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ168	721010,729802	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ169	721010,729803	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ170	721010,729804	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ171	721010,729805	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ172	721010,729806	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ173	721010,729807	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ174	721010,729808	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ175	721010,729809	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ176	721010,729810	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ177	721010,729811	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ178	721010,729812	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ179	721010,729813	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ180	721010,729814	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ181	721010,729815	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ182	721010,729816	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ183	721010,729817	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ184	721010,729818	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ185	721010,729819	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ186	721010,729820	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ187	721010,729821	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ188	721010,729822	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ189	721010,729823	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO ₂	PM ₁₀	PM _{2.5}		NO ₂	PM ₁₀	PM _{2.5}
AQ190	721010,729824	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ191	721010,729825	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ192	721010,729826	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ193	721010,729827	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ194	721010,729828	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ195	721010,729829	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ196	721010,729830	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ197	721010,729831	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ198	721010,729832	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ199	721010,729833	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ200	721010,729834	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ201	721010,729835	0.3	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ202	721010,729836	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ203	721010,729837	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ204	721010,729838	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ205	721010,729839	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ206	721010,729840	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ207	721010,729841	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ208	721010,729842	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ209	721010,729843	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ210	721010,729844	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ211	721010,729845	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ212	721010,729846	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ213	721010,729847	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ214	721010,729848	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ215	721010,729849	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ216	721010,729850	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ217	721010,729851	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ218	721010,729852	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ219	721010,729853	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ220	721010,729854	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ221	721010,729855	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ222	721010,729856	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ223	721010,729857	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ224	721010,729858	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ225	721010,729859	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ226	721010,729860	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ227	721010,729861	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ228	721010,729862	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO ₂	PM ₁₀	PM _{2.5}		NO ₂	PM ₁₀	PM _{2.5}
AQ229	721010,729863	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ230	721010,729864	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ231	721010,729865	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ232	721010,729866	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ233	721010,729867	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ234	721010,729868	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ235	721010,729869	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ236	721010,729870	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ237	721010,729871	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ238	721010,729872	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ239	721010,729873	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ240	721010,729874	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ241	721010,729875	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ242	721010,729876	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ243	721010,729877	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ244	721010,729878	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ245	721010,729879	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ246	721010,729880	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ247	721010,729881	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ248	721010,729882	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ249	721010,729883	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ250	721010,729884	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ251	721010,729885	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ252	721010,729886	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ253	721010,729887	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ254	721010,729888	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ255	721010,729889	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ256	721010,729890	-0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ257	721010,729891	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ258	721010,729892	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ259	721010,729893	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ260	721010,729894	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ261	721010,729895	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ262	721010,729896	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ263	721010,729897	0.8	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ264	721010,729898	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ265	721010,729899	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ266	721010,729900	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ267	721010,729901	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO ₂	PM ₁₀	PM _{2.5}		NO ₂	PM ₁₀	PM _{2.5}
AQ268	721010,729902	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ269	721010,729903	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ270	721010,729904	-0.2	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ271	721010,729905	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ272	721010,729906	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ273	721010,729907	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ274	721010,729908	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ275	721010,729909	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ276	721010,729910	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ277	721010,729911	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ278	721010,729912	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ279	721010,729913	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ280	721010,729914	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ281	721010,729915	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ282	721010,729916	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ283	721010,729917	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ284	721010,729918	0.6	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ285	721010,729919	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ286	721010,729920	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ287	721010,729921	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ288	721010,729922	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ289	721010,729923	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ290	721010,729924	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ291	721010,729925	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ292	721010,729926	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ293	721010,729927	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ294	721010,729928	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ295	721010,729929	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ296	721010,729930	0.5	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ297	721010,729931	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ298	721010,729932	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ299	721010,729933	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ300	721010,729934	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ301	721010,729935	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ302	721010,729936	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ303	721010,729937	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ304	721010,729938	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ305	721010,729939	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ306	721010,729940	1.4	0.2	0.1	<1	Slight Adverse	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO ₂	PM ₁₀	PM _{2.5}		NO ₂	PM ₁₀	PM _{2.5}
AQ307	721010,729941	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ308	721010,729942	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ309	721010,729943	1.1	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ310	721010,729944	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ311	721010,729945	1.3	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ312	721010,729946	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ313	721010,729947	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ314	721010,729948	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ315	721010,729949	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ316	721010,729950	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ317	721010,729951	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ318	721010,729952	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ319	721010,729953	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ320	721010,729954	0.3	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ321	721010,729955	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ322	721010,729956	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ323	721010,729957	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ324	721010,729958	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ325	721010,729959	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ326	721010,729960	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ327	721010,729961	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ328	721010,729962	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ329	721010,729963	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ330	721010,729964	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ331	721010,729965	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ332	721010,729966	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ333	721010,729967	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ334	721010,729968	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ335	721010,729969	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ336	721010,729970	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ337	721010,729971	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ338	721010,729972	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ339	721010,729973	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ340	721010,729974	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ341	721010,729975	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ342	721010,729976	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ343	721010,729977	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ344	721010,729978	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ345	721010,729979	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO ₂	PM ₁₀	PM _{2.5}		NO ₂	PM ₁₀	PM _{2.5}
AQ346	721010,729980	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ347	721010,729981	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ348	721010,729982	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ349	721010,729983	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ350	721010,729984	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ351	721010,729985	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ352	721010,729986	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ353	721010,729987	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ354	721010,729988	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ355	721010,729989	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ356	721010,729990	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ357	721010,729991	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ358	721010,729992	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ359	721010,729993	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ360	721010,729994	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ361	721010,729995	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ362	721010,729996	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ363	721010,729997	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ364	721010,729998	0.4	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ365	721010,729999	0.3	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ366	721010,730000	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ367	721010,730001	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ368	721010,730002	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ369	721010,730003	0.3	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ370	721010,730004	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ371	721010,730005	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ372	721010,730006	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ373	721010,730007	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ374	721010,730008	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ375	721010,730009	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ376	721010,730010	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ377	721010,730011	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ378	721010,730012	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ379	721010,730013	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ380	721010,730014	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ381	721010,730015	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ382	721010,730016	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ383	721010,730017	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ384	721010,730018	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO ₂	PM ₁₀	PM _{2.5}		NO ₂	PM ₁₀	PM _{2.5}
AQ385	721010,730019	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible

The significance of the changes in the concentration of each of the ambient receptors has been determined in the context of the TII significance criteria (TII 2011), as described in Section 7.2.4.1.4 in Chapter 7 (Air Quality). The majority of modelled receptors are estimated to experience a negligible impact due to the Proposed Scheme in terms of the annual mean NO₂ concentration. A slightly beneficial impact is estimated at three receptors. All beneficial impacts are modelled along the Proposed Scheme. A slight adverse impact is expected at 16 receptors. The Proposed Scheme is overall neutral in terms of annual mean PM₁₀ and PM_{2.5} concentrations, with all receptors experiencing a negligible impact.

2. Operational Traffic Assessment

2.1 ‘Do Minimum’ Scenario

Predicted annual mean concentrations of NO₂, PM₁₀, PM_{2.5} and the number of exceedances of the 24-hour PM₁₀ objective, at all modelled existing air quality sensitive receptors in the cumulative 2028 DM scenario are listed in Table 2.1. Locations of these receptors are shown in Figures 7.3 – 7.5 in Volume 3 of this EIAR.

Table 2.1: Predicted Cumulative 2028 Do Minimum Operational Scenario Pollutant Statistics At All Modelled Receptor Locations

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. (µg/m ³)			No. of PM ₁₀ days >50 µg/m ³
		NO ₂	PM ₁₀	PM _{2.5}	
AQ1	711573,733164	24.9	14.7	10.4	<1
AQ2	711617,733215	25.7	14.9	10.5	<1
AQ3	711479,733044	25.9	14.8	10.5	<1
AQ4	711529,733103	23.6	14.5	10.3	<1
AQ5	711744,733353	24.8	14.7	10.4	<1
AQ6	711788,733405	28.4	15.1	10.7	<1
AQ7	711655,733256	25.8	14.9	10.5	<1
AQ8	711709,733316	27.2	15.0	10.6	<1
AQ9	710482,734288	22.4	14.4	10.3	<1
AQ10	710412,734377	25.1	14.7	10.4	<1
AQ11	710743,734255	23.2	14.6	10.3	<1
AQ12	710591,734250	24.0	14.7	10.4	<1
AQ13	711420,732967	26.5	14.8	10.5	<1
AQ14	711448,733003	26.2	14.8	10.5	<1
AQ15	710301,734414	23.6	14.5	10.3	<1
AQ16	710167,734378	24.1	14.6	10.4	<1
AQ17	712683,733590	34.0	15.6	11.0	1
AQ18	712586,733581	27.5	15.1	10.7	<1
AQ19	714548,733909	33.1	15.8	11.1	1
AQ20	714074,733971	35.0	16.3	11.4	1
AQ21	710006,733711	25.2	14.7	10.4	<1
AQ22	713922,733930	31.5	15.6	11.0	1
AQ23	711152,733751	26.6	15.1	10.7	<1
AQ24	714639,733879	29.1	15.3	10.8	<1
AQ25	711023,733796	26.3	15.1	10.7	<1
AQ26	714418,733927	32.2	15.7	11.0	1
AQ27	714222,733972	31.3	15.6	10.9	1
AQ28	711509,733706	24.8	14.8	10.5	<1
AQ29	712433,733615	28.8	15.5	10.9	1
AQ30	711952,733684	33.9	16.0	11.2	1
AQ31	712134,733556	25.6	14.9	10.5	<1
AQ32	711823,733441	26.8	14.9	10.5	<1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM ₁₀ days >50 $\mu\text{g}/\text{m}^3$
		NO ₂	PM ₁₀	PM _{2.5}	
AQ33	712039,733706	32.3	15.9	11.1	1
AQ34	709494,733745	24.3	14.7	10.4	<1
AQ35	711974,733459	23.3	14.5	10.3	<1
AQ36	712119,733722	28.2	15.2	10.7	<1
AQ37	714275,734283	37.7	16.7	11.6	1
AQ38	711859,733546	25.3	14.7	10.4	<1
AQ39	713568,733329	21.9	14.3	10.2	1
AQ40	714209,734360	38.7	17.3	11.9	1
AQ41	712270,733559	27.0	15.1	10.7	<1
AQ42	707523,734192	29.8	15.8	11.0	1
AQ43	711835,733497	30.0	15.2	10.7	<1
AQ44	711291,733715	25.1	14.8	10.5	<1
AQ45	709606,733982	21.9	14.3	10.2	<1
AQ46	709773,734036	21.9	14.3	10.2	<1
AQ47	712519,734405	22.1	14.3	10.2	<1
AQ48	711372,732946	26.5	14.8	10.5	<1
AQ49	707338,734219	26.5	15.2	10.7	<1
AQ50	708131,734901	23.8	14.7	10.4	<1
AQ51	704960,735129	22.9	14.5	10.3	<1
AQ52	704614,735049	33.3	16.9	11.7	1
AQ53	705162,735005	24.1	14.7	10.4	<1
AQ54	705065,734953	23.0	14.6	10.3	<1
AQ55	713641,733402	21.1	14.2	10.1	1
AQ56	704735,735146	33.1	16.8	11.6	1
AQ57	704805,735186	30.8	16.2	11.3	1
AQ58	705636,735138	21.6	14.3	10.2	<1
AQ59	705497,734993	21.5	14.3	10.2	<1
AQ60	705568,735266	21.9	14.4	10.2	<1
AQ61	705635,735192	21.6	14.3	10.2	<1
AQ62	705328,734927	21.5	14.3	10.2	<1
AQ63	705246,734992	23.8	14.7	10.4	<1
AQ64	705521,734872	21.3	14.3	10.2	1
AQ65	705465,734905	21.7	14.3	10.2	<1
AQ66	707561,734786	45.0	19.4	13.1	3
AQ67	707572,734863	44.4	19.2	13.0	3
AQ68	707511,734336	47.2	19.5	13.2	3
AQ69	707529,734444	43.9	18.8	12.8	2
AQ70	705509,735407	23.3	14.7	10.4	<1
AQ71	705552,735346	22.2	14.5	10.3	<1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ72	707598,734938	39.9	18.1	12.4	2
AQ73	707610,735064	41.0	18.3	12.5	2
AQ74	712522,733793	25.6	14.9	10.5	<1
AQ75	712655,733738	28.3	15.2	10.7	<1
AQ76	713275,733271	25.3	14.8	10.5	<1
AQ77	712664,733808	30.0	15.5	10.9	1
AQ78	708018,734592	23.8	14.7	10.4	<1
AQ79	708015,734809	23.5	14.6	10.4	<1
AQ80	707970,734663	23.5	14.6	10.4	<1
AQ81	707983,734457	22.9	14.5	10.3	<1
AQ82	713796,733377	22.2	14.3	10.2	<1
AQ83	713698,733360	22.0	14.3	10.2	1
AQ84	713998,733504	24.1	14.6	10.3	<1
AQ85	713878,733394	21.5	14.2	10.1	1
AQ86	713368,733290	22.3	14.3	10.2	<1
AQ87	713265,733178	23.2	14.5	10.3	<1
AQ88	713645,733351	22.0	14.3	10.2	1
AQ89	713454,733307	22.4	14.3	10.2	<1
AQ90	714347,734350	42.6	16.8	11.7	1
AQ91	714725,734188	34.1	16.1	11.3	1
AQ92	714368,734464	32.4	15.8	11.1	1
AQ93	714359,734405	34.7	15.9	11.2	1
AQ94	714468,734260	37.4	16.3	11.4	1
AQ95	714343,734277	36.0	16.2	11.3	1
AQ96	714621,734210	30.5	15.6	10.9	1
AQ97	714541,734243	34.9	16.2	11.3	1
AQ98	714149,734288	34.4	16.5	11.4	1
AQ99	713988,734291	32.5	16.1	11.2	1
AQ100	712660,734173	25.2	14.8	10.5	<1
AQ101	712665,734117	25.2	14.8	10.5	<1
AQ102	714453,734516	29.5	15.3	10.8	<1
AQ103	714394,734525	35.2	16.2	11.3	1
AQ104	714513,734508	30.4	15.5	10.9	<1
AQ105	712134,734311	22.0	14.4	10.2	<1
AQ106	712657,734412	24.1	14.6	10.4	<1
AQ107	711849,734221	21.7	14.3	10.2	<1
AQ108	711986,734256	21.8	14.4	10.2	<1
AQ109	712657,734256	24.6	14.7	10.4	<1
AQ110	712659,734211	24.8	14.7	10.4	<1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. (µg/m ³)			No. of PM ₁₀ days >50 µg/m ³
		NO ₂	PM ₁₀	PM _{2.5}	
AQ111	712657,734368	24.0	14.6	10.4	<1
AQ112	712628,734308	23.5	14.5	10.3	<1
AQ113	712640,733998	33.7	16.0	11.2	1
AQ114	708093,735425	22.6	14.5	10.3	<1
AQ115	709913,734509	27.8	15.5	10.9	1
AQ116	708787,734911	29.5	15.5	10.9	1
AQ117	706710,735200	27.3	15.6	10.9	1
AQ118	706757,735214	25.8	15.3	10.7	<1
AQ119	708531,735210	23.2	14.5	10.3	<1
AQ120	706626,735222	26.8	15.5	10.8	<1
AQ121	706684,735242	24.9	15.1	10.6	<1
AQ122	708550,735186	23.2	14.5	10.3	<1
AQ123	705078,735295	22.8	14.6	10.3	<1
AQ124	708568,735172	23.4	14.5	10.3	<1
AQ125	704964,735299	25.6	15.0	10.6	<1
AQ126	708542,735155	23.6	14.6	10.3	<1
AQ127	709752,734615	28.0	15.5	10.9	1
AQ128	708592,735114	23.9	14.6	10.4	<1
AQ129	708580,735160	23.5	14.6	10.3	<1
AQ130	708574,735129	23.7	14.6	10.4	<1
AQ131	709709,734629	28.5	15.6	10.9	1
AQ132	710059,734073	25.0	14.9	10.5	<1
AQ133	708019,735428	23.0	14.6	10.4	<1
AQ134	705003,735207	24.5	14.8	10.4	<1
AQ135	710152,734102	28.8	15.7	11.0	1
AQ136	710189,734090	27.3	15.4	10.8	<1
AQ137	710141,734112	28.7	15.7	11.0	1
AQ138	710019,734148	25.8	15.1	10.6	<1
AQ139	705039,735153	24.8	14.8	10.5	<1
AQ140	705030,735186	23.9	14.7	10.4	<1
AQ141	710027,734116	25.1	15.0	10.6	<1
AQ142	705056,735139	24.2	14.7	10.4	<1
AQ143	708029,735187	30.8	16.1	11.2	1
AQ144	712176,733810	28.3	15.3	10.8	<1
AQ145	709999,734159	25.2	15.0	10.6	<1
AQ146	709991,734176	25.5	15.0	10.6	<1
AQ147	707970,735211	31.6	16.3	11.3	1
AQ148	709975,734187	25.6	15.0	10.6	<1
AQ149	708145,735365	22.8	14.6	10.3	<1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM ₁₀ days >50 $\mu\text{g}/\text{m}^3$
		NO ₂	PM ₁₀	PM _{2.5}	
AQ150	708229,735368	22.6	14.5	10.3	<1
AQ151	708165,735351	22.8	14.6	10.3	<1
AQ152	708225,735215	31.8	16.3	11.3	1
AQ153	708080,735166	30.3	16.0	11.2	1
AQ154	708348,735316	23.7	14.7	10.4	<1
AQ155	708875,734886	28.0	15.3	10.8	<1
AQ156	708991,734863	26.2	15.1	10.6	<1
AQ157	712632,734083	23.6	14.6	10.3	<1
AQ158	711892,733766	26.5	15.1	10.6	<1
AQ159	711919,733775	27.1	15.2	10.7	<1
AQ160	711911,733769	26.8	15.1	10.7	<1
AQ161	708822,734900	28.8	15.4	10.8	<1
AQ162	712250,733819	27.3	15.2	10.7	<1
AQ163	708123,735150	30.3	16.0	11.2	1
AQ164	712292,733821	27.4	15.2	10.7	<1
AQ165	710137,734139	26.6	15.3	10.7	<1
AQ166	708418,735158	26.1	14.9	10.5	<1
AQ167	708380,735160	37.0	16.5	11.5	1
AQ168	710095,734185	27.3	15.4	10.8	<1
AQ169	708418,735196	25.0	14.8	10.5	<1
AQ170	708439,735178	25.2	14.8	10.5	<1
AQ171	707075,735296	24.2	14.9	10.5	<1
AQ172	708004,735396	23.3	14.7	10.4	<1
AQ173	708649,735108	23.7	14.6	10.3	<1
AQ174	705058,735196	23.0	14.5	10.3	<1
AQ175	707168,735297	25.1	15.1	10.6	<1
AQ176	708640,735068	24.8	14.7	10.4	<1
AQ177	705061,735239	22.8	14.5	10.3	<1
AQ178	705931,735337	27.8	15.7	11.0	1
AQ179	707961,735396	23.5	14.7	10.4	<1
AQ180	708020,735392	23.2	14.7	10.4	<1
AQ181	707947,735302	35.3	17.1	11.8	1
AQ182	708063,735383	23.0	14.6	10.4	<1
AQ183	708739,735053	23.6	14.6	10.3	<1
AQ184	708688,735065	24.4	14.7	10.4	<1
AQ185	708667,735040	26.4	15.0	10.6	<1
AQ186	705905,735353	28.4	15.8	11.0	1
AQ187	707983,735394	23.4	14.7	10.4	<1
AQ188	708052,735422	22.9	14.6	10.3	<1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ189	709184,734854	27.5	15.5	10.9	<1
AQ190	705859,735376	29.4	16.0	11.2	1
AQ191	705748,735491	44.1	19.7	13.3	3
AQ192	705790,735395	29.6	16.1	11.2	1
AQ193	708559,734981	29.8	15.5	10.9	1
AQ194	705821,735385	29.2	16.0	11.2	1
AQ195	711326,733940	25.1	15.0	10.6	<1
AQ196	708211,735117	31.0	16.0	11.2	1
AQ197	709135,734852	25.8	15.1	10.6	<1
AQ198	708740,735014	32.5	16.0	11.2	1
AQ199	709868,734543	28.2	15.6	10.9	1
AQ200	708752,734925	31.0	15.7	11.0	1
AQ201	709081,734854	25.5	15.0	10.6	<1
AQ202	707976,735434	23.2	14.7	10.4	<1
AQ203	707832,735427	24.1	14.9	10.5	<1
AQ204	707759,735430	25.2	15.1	10.6	<1
AQ205	707784,735434	24.7	15.0	10.6	<1
AQ206	706224,735234	29.8	16.1	11.2	1
AQ207	709783,734594	28.3	15.6	10.9	1
AQ208	708007,735435	23.0	14.6	10.4	<1
AQ209	709793,734590	28.2	15.6	10.9	1
AQ210	709830,734567	28.3	15.6	10.9	1
AQ211	704993,735219	24.7	14.8	10.5	<1
AQ212	704958,735265	25.6	15.0	10.6	<1
AQ213	710082,734318	23.6	14.6	10.4	<1
AQ214	709369,734803	27.6	15.5	10.9	1
AQ215	706313,735231	36.7	17.5	12.0	1
AQ216	710050,734315	23.4	14.6	10.4	<1
AQ217	710070,734334	23.4	14.6	10.4	<1
AQ218	710098,734333	24.1	14.7	10.4	<1
AQ219	710025,734324	28.5	15.6	10.9	1
AQ220	705700,735402	28.4	15.8	11.0	1
AQ221	708271,735353	22.6	14.5	10.3	<1
AQ222	704889,735221	24.5	14.8	10.5	<1
AQ223	705251,735348	22.3	14.5	10.3	<1
AQ224	708477,735206	24.0	14.6	10.4	<1
AQ225	708285,735291	23.0	14.6	10.3	<1
AQ226	711740,733729	25.1	14.8	10.5	<1
AQ227	708458,735196	24.6	14.7	10.4	<1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM ₁₀ days >50 $\mu\text{g}/\text{m}^3$
		NO ₂	PM ₁₀	PM _{2.5}	
AQ228	709181,734938	31.8	16.3	11.3	1
AQ229	711728,733724	25.0	14.8	10.5	<1
AQ230	708318,735296	23.3	14.6	10.4	<1
AQ231	705285,735327	22.0	14.4	10.3	<1
AQ232	708523,735169	23.6	14.6	10.3	<1
AQ233	708499,735188	23.7	14.6	10.4	<1
AQ234	705313,735337	22.1	14.5	10.3	<1
AQ235	705304,735370	22.5	14.5	10.3	<1
AQ236	704774,735396	23.9	14.8	10.4	<1
AQ237	707871,735233	32.1	16.4	11.4	1
AQ238	708453,735002	28.0	15.3	10.8	<1
AQ239	707818,735235	32.9	16.6	11.5	1
AQ240	704779,735362	24.6	14.9	10.5	<1
AQ241	705013,735352	25.9	15.1	10.7	<1
AQ242	708480,734997	28.4	15.3	10.8	<1
AQ243	705054,735366	24.9	15.0	10.6	<1
AQ244	705119,735341	23.0	14.6	10.4	<1
AQ245	708475,735236	24.3	14.7	10.4	<1
AQ246	705078,735377	24.8	15.0	10.6	<1
AQ247	712163,733806	28.4	15.3	10.8	<1
AQ248	705109,735307	22.7	14.5	10.3	<1
AQ249	708508,735225	23.4	14.6	10.3	<1
AQ250	710065,734284	23.2	14.6	10.4	<1
AQ251	707650,735133	27.2	15.5	10.8	<1
AQ252	708393,735293	23.9	14.7	10.4	<1
AQ253	708418,735279	24.0	14.7	10.4	<1
AQ254	710054,734265	28.9	15.7	11.0	1
AQ255	705141,735311	22.5	14.5	10.3	<1
AQ256	712153,733803	28.5	15.3	10.8	<1
AQ257	707677,735166	26.7	15.4	10.8	<1
AQ258	708014,735279	35.0	17.0	11.8	1
AQ259	705171,735309	22.3	14.5	10.3	<1
AQ260	707937,735216	31.1	16.2	11.3	1
AQ261	708403,735253	23.7	14.6	10.4	<1
AQ262	705195,735338	22.4	14.5	10.3	<1
AQ263	708056,735259	35.8	17.2	11.9	1
AQ264	710040,734304	29.1	15.7	11.0	1
AQ265	707705,735196	26.7	15.4	10.8	<1
AQ266	708295,735006	24.0	14.6	10.4	<1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ267	708272,735045	25.5	14.8	10.5	<1
AQ268	708257,735027	25.6	14.8	10.5	<1
AQ269	705462,735402	23.0	14.7	10.4	<1
AQ270	704653,735547	25.8	15.1	10.6	<1
AQ271	708315,735018	23.9	14.6	10.4	<1
AQ272	705632,735443	35.1	17.4	11.9	1
AQ273	705566,735426	30.1	16.2	11.3	1
AQ274	707354,735162	36.4	17.4	11.9	1
AQ275	705537,735444	32.8	16.8	11.6	1
AQ276	706809,735208	26.2	15.3	10.8	<1
AQ277	707907,735318	34.6	17.0	11.7	1
AQ278	705368,735428	30.5	16.3	11.3	1
AQ279	707918,735396	23.7	14.8	10.4	<1
AQ280	706863,735218	25.7	15.2	10.7	<1
AQ281	707924,735431	23.4	14.7	10.4	<1
AQ282	706896,735213	26.3	15.4	10.8	<1
AQ283	705454,735442	33.2	16.9	11.7	1
AQ284	707684,735392	39.2	18.1	12.4	2
AQ285	705410,735439	32.5	16.7	11.6	1
AQ286	706954,735237	25.4	15.2	10.7	<1
AQ287	705595,735443	34.2	17.1	11.8	1
AQ288	704757,735427	23.1	14.6	10.4	<1
AQ289	707021,735259	25.0	15.1	10.6	<1
AQ290	705127,735399	24.8	15.0	10.6	<1
AQ291	705101,735390	24.9	15.0	10.6	<1
AQ292	707739,735396	26.1	15.3	10.7	<1
AQ293	705229,735312	22.1	14.4	10.3	<1
AQ294	712333,733829	27.5	15.2	10.7	<1
AQ295	704754,735469	23.1	14.6	10.4	<1
AQ296	707718,735396	35.9	17.4	11.9	1
AQ297	712316,733824	27.3	15.2	10.7	<1
AQ298	710215,734080	26.8	15.3	10.8	<1
AQ299	712322,733827	27.5	15.2	10.7	<1
AQ300	707810,735397	24.8	15.0	10.6	<1
AQ301	711226,733964	24.7	14.9	10.5	<1
AQ302	712619,733877	29.3	15.4	10.8	<1
AQ303	712391,733830	26.9	15.1	10.7	<1
AQ304	707776,735397	25.3	15.1	10.6	<1
AQ305	705328,735334	22.0	14.4	10.3	<1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ306	712662,733866	35.1	16.3	11.4	1
AQ307	710238,734073	26.6	15.3	10.7	<1
AQ308	705330,735380	22.6	14.6	10.3	<1
AQ309	712642,733891	33.5	15.9	11.2	1
AQ310	705401,735375	22.4	14.5	10.3	<1
AQ311	712663,733853	34.1	16.2	11.3	1
AQ312	708232,735081	23.8	14.6	10.4	<1
AQ313	705373,735381	22.6	14.6	10.3	<1
AQ314	710006,734349	28.7	15.7	11.0	1
AQ315	708554,734911	22.2	14.4	10.2	<1
AQ316	709429,734873	21.8	14.4	10.2	<1
AQ317	713665,734152	21.9	14.3	10.2	<1
AQ318	708993,734994	23.3	14.6	10.3	<1
AQ319	713642,734180	26.9	15.0	10.6	<1
AQ320	707538,735505	37.1	17.7	12.1	1
AQ321	707224,735286	26.4	15.3	10.8	<1
AQ322	707428,735363	26.0	15.3	10.7	<1
AQ323	709478,734906	21.4	14.3	10.2	1
AQ324	710051,733896	21.6	14.3	10.2	1
AQ325	709932,734587	22.8	14.5	10.3	<1
AQ326	710023,733980	21.4	14.3	10.2	1
AQ327	713830,734509	27.6	15.1	10.7	<1
AQ328	710135,733835	21.8	14.3	10.2	<1
AQ329	713842,734486	27.8	15.1	10.7	<1
AQ330	705912,735231	21.6	14.4	10.2	<1
AQ331	706732,735035	23.1	14.6	10.4	<1
AQ332	706154,735052	22.1	14.4	10.3	<1
AQ333	711875,733641	23.6	14.6	10.3	<1
AQ334	706002,735340	30.6	16.3	11.3	1
AQ335	706244,735176	23.6	14.8	10.4	<1
AQ336	706095,735132	21.8	14.4	10.2	<1
AQ337	713761,734083	21.5	14.2	10.1	1
AQ338	706122,735276	28.5	15.8	11.0	1
AQ339	709801,734669	22.8	14.5	10.3	<1
AQ340	706331,735066	26.0	15.2	10.7	<1
AQ341	712386,733811	26.1	15.0	10.6	<1
AQ342	708603,734805	21.4	14.3	10.2	1
AQ343	708681,734825	21.5	14.3	10.2	1
AQ344	708438,735336	22.3	14.4	10.3	<1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM ₁₀ days >50 $\mu\text{g}/\text{m}^3$
		NO ₂	PM ₁₀	PM _{2.5}	
AQ345	708533,734804	21.6	14.3	10.2	1
AQ346	704516,735527	24.8	14.9	10.6	<1
AQ347	704247,735536	23.0	14.6	10.3	<1
AQ348	703952,735546	25.7	15.0	10.6	<1
AQ349	703817,735477	22.7	14.5	10.3	<1
AQ350	704077,735584	25.1	14.9	10.5	<1
AQ351	703633,735440	23.6	14.6	10.4	<1
AQ352	703569,735450	24.9	14.8	10.5	<1
AQ353	703438,735446	23.4	14.6	10.4	<1
AQ354	703452,735425	23.4	14.6	10.3	<1
AQ355	703538,735445	26.7	15.1	10.6	<1
AQ356	703532,735430	23.6	14.6	10.4	<1
AQ357	703190,735316	23.6	14.6	10.4	<1
AQ358	703197,735268	25.2	14.9	10.5	<1
AQ359	703153,735131	25.4	14.8	10.5	<1
AQ360	703179,735132	25.4	14.8	10.5	<1
AQ361	703195,735134	25.5	14.9	10.5	<1
AQ362	703436,735155	22.0	14.4	10.2	<1
AQ363	703039,735103	25.3	15.0	10.6	<1
AQ364	702905,735052	24.1	14.8	10.5	<1
AQ365	702860,734633	32.7	16.8	11.6	1
AQ366	703206,734939	25.4	14.9	10.5	<1
AQ367	703187,734859	22.3	14.5	10.3	<1
AQ368	703503,734485	30.1	16.2	11.3	1
AQ369	703219,734605	39.4	17.8	12.2	1
AQ370	704043,734615	30.7	16.4	11.4	1
AQ371	704424,734884	32.4	16.7	11.6	1
AQ372	704127,734766	34.3	17.2	11.8	1
AQ373	706289,734872	24.4	14.8	10.5	<1
AQ374	706273,734748	23.1	14.7	10.4	<1
AQ375	706194,734293	23.5	14.7	10.4	<1
AQ376	706243,734510	22.8	14.6	10.3	<1
AQ377	706662,734322	22.6	14.5	10.3	<1
AQ378	706703,734320	23.0	14.5	10.3	<1
AQ379	706642,734236	21.8	14.4	10.2	<1
AQ380	706608,734245	22.0	14.4	10.2	<1
AQ381	706721,734254	23.0	14.5	10.3	<1
AQ382	706297,734272	22.2	14.4	10.2	<1
AQ383	706953,734248	23.0	14.6	10.3	<1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ384	706750,734841	22.3	14.5	10.3	<1
AQ385	706885,734617	21.8	14.4	10.2	<1
Air Quality Limit Value Objective		40	40	25	35

In the cumulative 2028 DS scenario annual mean concentrations of NO_2 are above the relevant national air quality limit value objective in some areas; seven exceedances were modelled at receptors on the N4 Lucan Road, the M50 south of the Chapelizod Bypass and the R148 Wolfe Tone Quay. Annual mean NO_2 concentrations did not exceed $60 \mu\text{g}/\text{m}^3$, indicating that exceedances of the NO_2 1-hour mean is unlikely to occur. Annual mean PM_{10} concentrations are below the relevant national air quality limit value objectives for all modelled receptors. At all receptors, modelling of the maximum 24-hour PM_{10} concentration indicated that there is likely to be no more than three exceedance of the $50 \mu\text{g}/\text{m}^3$ ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean $\text{PM}_{2.5}$ concentrations are also below the relevant national air quality limit value limit value objectives for all modelled receptors.

2.2 ‘Do Something’ Scenario

Predicted annual mean concentrations of NO₂, PM₁₀, PM_{2.5} and the number of exceedances of the 24-hour PM₁₀ objective, at all modelled existing air quality sensitive receptors in the cumulative 2028 DS scenario are listed in Table 2.2. Locations of these receptors are shown in Figures 7.3 – 7.5 in Volume 3 of this EIAR.

Table 2.2: Predicted Cumulative 2028 Do Something Operational Scenario Pollutant Statistics At All Modelled Receptor Locations

Receptor	Receptor Location (ITM)	DS (2028)			No. of PM ₁₀ days >50 µg/m ³
		Annual Mean Conc. (µg/m ³)			
		NO ₂	PM ₁₀	PM _{2.5}	
AQ1	711573,733164	23.5	14.6	10.3	<1
AQ2	711617,733215	24.1	14.7	10.4	<1
AQ3	711479,733044	24.3	14.7	10.4	<1
AQ4	711529,733103	22.6	14.4	10.3	<1
AQ5	711744,733353	23.6	14.5	10.3	<1
AQ6	711788,733405	26.3	14.8	10.5	<1
AQ7	711655,733256	24.1	14.7	10.4	<1
AQ8	711709,733316	25.4	14.8	10.5	<1
AQ9	710482,734288	22.5	14.5	10.3	<1
AQ10	710412,734377	25.4	14.8	10.5	<1
AQ11	710743,734255	23.4	14.6	10.4	<1
AQ12	710591,734250	24.2	14.8	10.4	<1
AQ13	711420,732967	25.0	14.7	10.4	<1
AQ14	711448,733003	24.6	14.7	10.4	<1
AQ15	710301,734414	24.0	14.6	10.3	<1
AQ16	710167,734378	24.6	14.7	10.4	<1
AQ17	712683,733590	33.5	15.6	11.0	1
AQ18	712586,733581	26.4	14.9	10.6	<1
AQ19	714548,733909	29.3	15.1	10.6	<1
AQ20	714074,733971	32.8	15.8	11.1	1
AQ21	710006,733711	22.5	14.3	10.2	<1
AQ22	713922,733930	30.3	15.3	10.8	<1
AQ23	711152,733751	23.3	14.6	10.3	<1
AQ24	714639,733879	26.5	14.8	10.5	<1
AQ25	711023,733796	23.0	14.6	10.3	<1
AQ26	714418,733927	29.7	15.3	10.8	<1
AQ27	714222,733972	29.3	15.1	10.7	<1
AQ28	711509,733706	23.4	14.6	10.3	<1
AQ29	712433,733615	26.9	15.1	10.7	<1
AQ30	711952,733684	28.1	15.1	10.7	<1
AQ31	712134,733556	24.9	14.8	10.5	<1
AQ32	711823,733441	24.6	14.6	10.4	<1
AQ33	712039,733706	29.4	15.3	10.8	<1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ34	709494,733745	23.9	14.5	10.3	<1
AQ35	711974,733459	22.4	14.3	10.2	<1
AQ36	712119,733722	27.2	15.0	10.6	<1
AQ37	714275,734283	39.7	16.8	11.7	1
AQ38	711859,733546	23.2	14.4	10.3	<1
AQ39	713568,733329	23.6	14.5	10.3	<1
AQ40	714209,734360	40.5	17.5	12.1	1
AQ41	712270,733559	25.7	14.9	10.5	<1
AQ42	707523,734192	29.9	15.7	11.0	1
AQ43	711835,733497	25.9	14.7	10.4	<1
AQ44	711291,733715	23.5	14.5	10.3	<1
AQ45	709606,733982	21.9	14.3	10.2	<1
AQ46	709773,734036	21.8	14.3	10.2	<1
AQ47	712519,734405	22.3	14.4	10.2	<1
AQ48	711372,732946	25.1	14.7	10.4	<1
AQ49	707338,734219	26.1	15.1	10.7	<1
AQ50	708131,734901	23.7	14.6	10.4	<1
AQ51	704960,735129	22.7	14.5	10.3	<1
AQ52	704614,735049	32.1	16.7	11.5	1
AQ53	705162,735005	24.6	14.7	10.4	<1
AQ54	705065,734953	23.0	14.6	10.3	<1
AQ55	713641,733402	21.9	14.3	10.2	1
AQ56	704735,735146	31.8	16.5	11.5	1
AQ57	704805,735186	29.8	16.0	11.2	1
AQ58	705636,735138	21.6	14.3	10.2	<1
AQ59	705497,734993	21.7	14.3	10.2	<1
AQ60	705568,735266	21.8	14.4	10.2	<1
AQ61	705635,735192	21.6	14.3	10.2	<1
AQ62	705328,734927	21.6	14.3	10.2	<1
AQ63	705246,734992	24.4	14.8	10.4	<1
AQ64	705521,734872	21.4	14.3	10.2	1
AQ65	705465,734905	22.0	14.4	10.2	<1
AQ66	707561,734786	46.3	19.6	13.2	3
AQ67	707572,734863	45.9	19.3	13.1	3
AQ68	707511,734336	48.7	19.5	13.2	3
AQ69	707529,734444	45.3	18.9	12.8	2
AQ70	705509,735407	23.1	14.7	10.4	<1
AQ71	705552,735346	22.0	14.4	10.3	<1
AQ72	707598,734938	41.2	18.2	12.4	2

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ73	707610,735064	42.4	18.5	12.6	2
AQ74	712522,733793	25.1	14.8	10.5	<1
AQ75	712655,733738	28.3	15.1	10.7	<1
AQ76	713275,733271	27.0	15.0	10.6	<1
AQ77	712664,733808	29.9	15.5	10.9	1
AQ78	708018,734592	23.4	14.6	10.3	<1
AQ79	708015,734809	23.4	14.6	10.4	<1
AQ80	707970,734663	23.3	14.6	10.3	<1
AQ81	707983,734457	22.7	14.5	10.3	<1
AQ82	713796,733377	24.3	14.6	10.3	<1
AQ83	713698,733360	23.7	14.5	10.3	<1
AQ84	713998,733504	28.1	15.0	10.6	<1
AQ85	713878,733394	22.9	14.4	10.2	<1
AQ86	713368,733290	23.9	14.5	10.3	<1
AQ87	713265,733178	24.0	14.6	10.4	<1
AQ88	713645,733351	23.8	14.5	10.3	<1
AQ89	713454,733307	24.5	14.6	10.4	<1
AQ90	714347,734350	46.5	16.7	11.7	1
AQ91	714725,734188	32.2	15.8	11.1	1
AQ92	714368,734464	30.3	15.3	10.8	<1
AQ93	714359,734405	33.7	15.5	10.9	1
AQ94	714468,734260	34.1	16.0	11.2	1
AQ95	714343,734277	35.3	16.1	11.3	1
AQ96	714621,734210	29.3	15.4	10.8	<1
AQ97	714541,734243	32.9	16.0	11.2	1
AQ98	714149,734288	34.0	16.3	11.4	1
AQ99	713988,734291	32.2	16.0	11.2	1
AQ100	712660,734173	26.0	14.8	10.5	<1
AQ101	712665,734117	25.8	14.8	10.5	<1
AQ102	714453,734516	28.4	15.1	10.6	<1
AQ103	714394,734525	32.5	15.5	10.9	<1
AQ104	714513,734508	28.0	15.1	10.6	<1
AQ105	712134,734311	22.1	14.4	10.2	<1
AQ106	712657,734412	24.3	14.6	10.4	<1
AQ107	711849,734221	21.8	14.3	10.2	<1
AQ108	711986,734256	21.9	14.4	10.2	<1
AQ109	712657,734256	24.7	14.7	10.4	<1
AQ110	712659,734211	25.1	14.7	10.4	<1
AQ111	712657,734368	24.1	14.6	10.4	<1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ112	712628,734308	23.6	14.5	10.3	<1
AQ113	712640,733998	34.2	15.9	11.2	1
AQ114	708093,735425	22.8	14.6	10.3	<1
AQ115	709913,734509	29.0	15.7	11.0	1
AQ116	708787,734911	32.2	15.7	11.0	1
AQ117	706710,735200	27.5	15.6	10.9	1
AQ118	706757,735214	26.0	15.3	10.7	<1
AQ119	708531,735210	23.6	14.6	10.3	<1
AQ120	706626,735222	27.0	15.5	10.9	1
AQ121	706684,735242	25.0	15.1	10.6	<1
AQ122	708550,735186	23.7	14.6	10.3	<1
AQ123	705078,735295	22.6	14.5	10.3	<1
AQ124	708568,735172	24.0	14.6	10.4	<1
AQ125	704964,735299	25.2	14.9	10.6	<1
AQ126	708542,735155	24.2	14.6	10.4	<1
AQ127	709752,734615	29.1	15.7	11.0	1
AQ128	708592,735114	24.6	14.7	10.4	<1
AQ129	708580,735160	24.1	14.6	10.4	<1
AQ130	708574,735129	24.4	14.7	10.4	<1
AQ131	709709,734629	29.7	15.8	11.0	1
AQ132	710059,734073	25.1	14.9	10.6	<1
AQ133	708019,735428	23.2	14.6	10.4	<1
AQ134	705003,735207	24.4	14.7	10.4	<1
AQ135	710152,734102	29.7	15.9	11.1	1
AQ136	710189,734090	28.0	15.6	10.9	1
AQ137	710141,734112	29.7	15.9	11.1	1
AQ138	710019,734148	26.1	15.1	10.7	<1
AQ139	705039,735153	24.3	14.7	10.4	<1
AQ140	705030,735186	23.7	14.6	10.4	<1
AQ141	710027,734116	25.2	15.0	10.6	<1
AQ142	705056,735139	23.7	14.7	10.4	<1
AQ143	708029,735187	31.8	16.3	11.3	1
AQ144	712176,733810	27.8	15.2	10.7	<1
AQ145	709999,734159	25.4	15.0	10.6	<1
AQ146	709991,734176	25.7	15.0	10.6	<1
AQ147	707970,735211	32.7	16.5	11.5	1
AQ148	709975,734187	25.7	15.0	10.6	<1
AQ149	708145,735365	23.0	14.6	10.4	<1
AQ150	708229,735368	22.7	14.5	10.3	<1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ151	708165,735351	23.0	14.6	10.3	<1
AQ152	708225,735215	33.1	16.5	11.4	1
AQ153	708080,735166	31.3	16.2	11.3	1
AQ154	708348,735316	23.8	14.7	10.4	<1
AQ155	708875,734886	30.0	15.4	10.9	<1
AQ156	708991,734863	27.6	15.2	10.7	<1
AQ157	712632,734083	23.9	14.6	10.3	<1
AQ158	711892,733766	25.6	14.9	10.5	<1
AQ159	711919,733775	26.3	15.0	10.6	<1
AQ160	711911,733769	25.9	14.9	10.6	<1
AQ161	708822,734900	31.2	15.6	10.9	1
AQ162	712250,733819	26.7	15.1	10.6	<1
AQ163	708123,735150	31.3	16.1	11.3	1
AQ164	712292,733821	26.7	15.1	10.6	<1
AQ165	710137,734139	27.2	15.4	10.8	<1
AQ166	708418,735158	26.7	15.0	10.6	<1
AQ167	708380,735160	38.7	16.7	11.6	1
AQ168	710095,734185	28.1	15.5	10.9	1
AQ169	708418,735196	25.4	14.8	10.5	<1
AQ170	708439,735178	25.6	14.8	10.5	<1
AQ171	707075,735296	24.4	14.9	10.5	<1
AQ172	708004,735396	23.5	14.7	10.4	<1
AQ173	708649,735108	24.3	14.7	10.4	<1
AQ174	705058,735196	22.8	14.5	10.3	<1
AQ175	707168,735297	25.5	15.1	10.6	<1
AQ176	708640,735068	25.8	14.8	10.5	<1
AQ177	705061,735239	22.6	14.5	10.3	<1
AQ178	705931,735337	27.3	15.6	10.9	1
AQ179	707961,735396	23.7	14.8	10.4	<1
AQ180	708020,735392	23.5	14.7	10.4	<1
AQ181	707947,735302	37.0	17.4	12.0	1
AQ182	708063,735383	23.3	14.7	10.4	<1
AQ183	708739,735053	24.4	14.7	10.4	<1
AQ184	708688,735065	25.3	14.8	10.5	<1
AQ185	708667,735040	28.1	15.1	10.7	<1
AQ186	705905,735353	27.9	15.7	11.0	1
AQ187	707983,735394	23.6	14.7	10.4	<1
AQ188	708052,735422	23.1	14.6	10.4	<1
AQ189	709184,734854	28.7	15.6	11.0	1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ190	705859,735376	28.8	15.9	11.1	1
AQ191	705748,735491	42.4	19.2	13.0	3
AQ192	705790,735395	28.9	15.9	11.1	1
AQ193	708559,734981	31.5	15.7	11.0	1
AQ194	705821,735385	28.6	15.9	11.1	1
AQ195	711326,733940	25.2	15.0	10.6	<1
AQ196	708211,735117	32.0	16.1	11.3	1
AQ197	709135,734852	26.7	15.2	10.7	<1
AQ198	708740,735014	35.7	16.3	11.4	1
AQ199	709868,734543	29.4	15.8	11.0	1
AQ200	708752,734925	34.1	15.9	11.2	1
AQ201	709081,734854	26.4	15.1	10.7	<1
AQ202	707976,735434	23.3	14.7	10.4	<1
AQ203	707832,735427	24.4	14.9	10.5	<1
AQ204	707759,735430	25.4	15.1	10.6	<1
AQ205	707784,735434	25.0	15.0	10.6	<1
AQ206	706224,735234	29.5	16.0	11.1	1
AQ207	709783,734594	29.7	15.8	11.1	1
AQ208	708007,735435	23.1	14.6	10.4	<1
AQ209	709793,734590	29.6	15.8	11.1	1
AQ210	709830,734567	29.7	15.8	11.1	1
AQ211	704993,735219	24.5	14.8	10.4	<1
AQ212	704958,735265	25.3	14.9	10.5	<1
AQ213	710082,734318	23.7	14.7	10.4	<1
AQ214	709369,734803	28.8	15.7	11.0	1
AQ215	706313,735231	36.6	17.5	12.0	1
AQ216	710050,734315	23.7	14.7	10.4	<1
AQ217	710070,734334	23.6	14.6	10.4	<1
AQ218	710098,734333	24.4	14.7	10.4	<1
AQ219	710025,734324	29.4	15.8	11.0	1
AQ220	705700,735402	27.8	15.7	11.0	1
AQ221	708271,735353	22.8	14.5	10.3	<1
AQ222	704889,735221	24.2	14.8	10.5	<1
AQ223	705251,735348	22.2	14.5	10.3	<1
AQ224	708477,735206	24.5	14.7	10.4	<1
AQ225	708285,735291	23.2	14.6	10.4	<1
AQ226	711740,733729	23.9	14.7	10.4	<1
AQ227	708458,735196	25.0	14.8	10.5	<1
AQ228	709181,734938	33.9	16.6	11.5	1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM ₁₀ days >50 $\mu\text{g}/\text{m}^3$
		NO ₂	PM ₁₀	PM _{2.5}	
AQ229	711728,733724	23.8	14.6	10.4	<1
AQ230	708318,735296	23.5	14.6	10.4	<1
AQ231	705285,735327	21.9	14.4	10.2	<1
AQ232	708523,735169	24.2	14.6	10.4	<1
AQ233	708499,735188	24.3	14.7	10.4	<1
AQ234	705313,735337	21.9	14.4	10.2	<1
AQ235	705304,735370	22.3	14.5	10.3	<1
AQ236	704774,735396	23.9	14.7	10.4	<1
AQ237	707871,735233	33.1	16.6	11.5	1
AQ238	708453,735002	29.2	15.4	10.8	<1
AQ239	707818,735235	33.8	16.8	11.6	1
AQ240	704779,735362	24.3	14.9	10.5	<1
AQ241	705013,735352	25.1	15.0	10.6	<1
AQ242	708480,734997	29.6	15.5	10.9	<1
AQ243	705054,735366	24.4	14.9	10.5	<1
AQ244	705119,735341	22.8	14.6	10.3	<1
AQ245	708475,735236	24.5	14.7	10.4	<1
AQ246	705078,735377	24.3	14.9	10.5	<1
AQ247	712163,733806	27.8	15.2	10.7	<1
AQ248	705109,735307	22.5	14.5	10.3	<1
AQ249	708508,735225	23.8	14.6	10.4	<1
AQ250	710065,734284	23.5	14.6	10.4	<1
AQ251	707650,735133	27.7	15.5	10.9	1
AQ252	708393,735293	24.0	14.7	10.4	<1
AQ253	708418,735279	24.1	14.7	10.4	<1
AQ254	710054,734265	29.8	15.8	11.1	1
AQ255	705141,735311	22.3	14.5	10.3	<1
AQ256	712153,733803	27.9	15.2	10.7	<1
AQ257	707677,735166	27.2	15.4	10.8	<1
AQ258	708014,735279	36.8	17.4	12.0	1
AQ259	705171,735309	22.1	14.5	10.3	<1
AQ260	707937,735216	32.0	16.3	11.4	1
AQ261	708403,735253	23.9	14.7	10.4	<1
AQ262	705195,735338	22.3	14.5	10.3	<1
AQ263	708056,735259	37.6	17.5	12.0	1
AQ264	710040,734304	29.8	15.8	11.1	1
AQ265	707705,735196	27.1	15.4	10.8	<1
AQ266	708295,735006	24.1	14.6	10.4	<1
AQ267	708272,735045	25.6	14.8	10.5	<1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ268	708257,735027	25.5	14.8	10.5	<1
AQ269	705462,735402	22.8	14.6	10.4	<1
AQ270	704653,735547	26.3	15.2	10.7	<1
AQ271	708315,735018	24.1	14.6	10.4	<1
AQ272	705632,735443	33.9	17.1	11.8	1
AQ273	705566,735426	29.3	16.0	11.2	1
AQ274	707354,735162	36.9	17.4	12.0	1
AQ275	705537,735444	31.8	16.6	11.5	1
AQ276	706809,735208	26.3	15.4	10.8	<1
AQ277	707907,735318	36.2	17.3	11.9	1
AQ278	705368,735428	29.6	16.1	11.2	1
AQ279	707918,735396	24.0	14.8	10.5	<1
AQ280	706863,735218	25.9	15.3	10.7	<1
AQ281	707924,735431	23.6	14.7	10.4	<1
AQ282	706896,735213	26.5	15.4	10.8	<1
AQ283	705454,735442	32.2	16.7	11.5	1
AQ284	707684,735392	40.2	18.3	12.5	2
AQ285	705410,735439	31.5	16.5	11.4	1
AQ286	706954,735237	25.6	15.2	10.7	<1
AQ287	705595,735443	33.0	16.9	11.6	1
AQ288	704757,735427	23.2	14.6	10.4	<1
AQ289	707021,735259	25.2	15.1	10.6	<1
AQ290	705127,735399	24.4	14.9	10.5	<1
AQ291	705101,735390	24.4	14.9	10.5	<1
AQ292	707739,735396	26.5	15.3	10.8	<1
AQ293	705229,735312	21.9	14.4	10.2	<1
AQ294	712333,733829	26.9	15.1	10.7	<1
AQ295	704754,735469	23.3	14.6	10.4	<1
AQ296	707718,735396	36.8	17.5	12.0	1
AQ297	712316,733824	26.7	15.1	10.6	<1
AQ298	710215,734080	27.5	15.5	10.8	<1
AQ299	712322,733827	26.8	15.1	10.7	<1
AQ300	707810,735397	25.1	15.0	10.6	<1
AQ301	711226,733964	24.7	14.9	10.5	<1
AQ302	712619,733877	29.3	15.3	10.8	<1
AQ303	712391,733830	26.3	15.0	10.6	<1
AQ304	707776,735397	25.7	15.2	10.7	<1
AQ305	705328,735334	21.9	14.4	10.2	<1
AQ306	712662,733866	35.3	16.2	11.3	1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ307	710238,734073	27.1	15.4	10.8	<1
AQ308	705330,735380	22.4	14.5	10.3	<1
AQ309	712642,733891	33.6	15.8	11.1	1
AQ310	705401,735375	22.2	14.5	10.3	<1
AQ311	712663,733853	34.2	16.1	11.3	1
AQ312	708232,735081	24.1	14.7	10.4	<1
AQ313	705373,735381	22.4	14.5	10.3	<1
AQ314	710006,734349	29.9	15.9	11.1	1
AQ315	708554,734911	22.4	14.4	10.2	<1
AQ316	709429,734873	22.1	14.4	10.2	<1
AQ317	713665,734152	22.1	14.3	10.2	1
AQ318	708993,734994	24.2	14.6	10.4	<1
AQ319	713642,734180	27.6	15.0	10.6	<1
AQ320	707538,735505	37.3	17.7	12.2	1
AQ321	707224,735286	26.9	15.3	10.8	<1
AQ322	707428,735363	26.3	15.3	10.7	<1
AQ323	709478,734906	21.6	14.3	10.2	<1
AQ324	710051,733896	21.1	14.2	10.1	1
AQ325	709932,734587	23.3	14.6	10.3	<1
AQ326	710023,733980	21.2	14.2	10.1	1
AQ327	713830,734509	28.5	15.2	10.7	<1
AQ328	710135,733835	21.1	14.2	10.1	1
AQ329	713842,734486	28.9	15.2	10.7	<1
AQ330	705912,735231	21.6	14.4	10.2	<1
AQ331	706732,735035	23.2	14.6	10.4	<1
AQ332	706154,735052	22.2	14.4	10.3	<1
AQ333	711875,733641	22.0	14.3	10.2	<1
AQ334	706002,735340	29.9	16.1	11.2	1
AQ335	706244,735176	23.6	14.7	10.4	<1
AQ336	706095,735132	21.8	14.4	10.2	<1
AQ337	713761,734083	21.4	14.2	10.1	1
AQ338	706122,735276	28.2	15.7	11.0	1
AQ339	709801,734669	23.4	14.6	10.4	<1
AQ340	706331,735066	27.0	15.3	10.8	<1
AQ341	712386,733811	25.5	14.9	10.5	<1
AQ342	708603,734805	21.6	14.3	10.2	1
AQ343	708681,734825	21.7	14.3	10.2	<1
AQ344	708438,735336	22.5	14.4	10.3	<1
AQ345	708533,734804	21.7	14.3	10.2	<1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ346	704516,735527	25.1	15.0	10.6	<1
AQ347	704247,735536	23.2	14.6	10.4	<1
AQ348	703952,735546	26.0	15.0	10.6	<1
AQ349	703817,735477	22.7	14.5	10.3	<1
AQ350	704077,735584	25.5	15.0	10.6	<1
AQ351	703633,735440	24.2	14.7	10.4	<1
AQ352	703569,735450	25.8	14.9	10.6	<1
AQ353	703438,735446	23.8	14.6	10.4	<1
AQ354	703452,735425	23.9	14.7	10.4	<1
AQ355	703538,735445	28.0	15.3	10.7	<1
AQ356	703532,735430	24.2	14.7	10.4	<1
AQ357	703190,735316	23.9	14.7	10.4	<1
AQ358	703197,735268	25.6	14.9	10.5	<1
AQ359	703153,735131	24.8	14.7	10.4	<1
AQ360	703179,735132	25.0	14.8	10.5	<1
AQ361	703195,735134	25.2	14.8	10.5	<1
AQ362	703436,735155	21.6	14.4	10.2	<1
AQ363	703039,735103	25.1	15.0	10.6	<1
AQ364	702905,735052	23.9	14.8	10.4	<1
AQ365	702860,734633	32.3	16.7	11.6	1
AQ366	703206,734939	25.4	14.9	10.5	<1
AQ367	703187,734859	22.3	14.4	10.3	<1
AQ368	703503,734485	29.3	16.0	11.2	1
AQ369	703219,734605	38.2	17.6	12.1	1
AQ370	704043,734615	29.7	16.2	11.2	1
AQ371	704424,734884	31.3	16.5	11.4	1
AQ372	704127,734766	33.0	16.9	11.7	1
AQ373	706289,734872	24.7	14.9	10.5	<1
AQ374	706273,734748	23.6	14.7	10.4	<1
AQ375	706194,734293	23.9	14.7	10.4	<1
AQ376	706243,734510	23.3	14.6	10.4	<1
AQ377	706662,734322	22.5	14.4	10.3	<1
AQ378	706703,734320	22.6	14.5	10.3	<1
AQ379	706642,734236	21.8	14.3	10.2	<1
AQ380	706608,734245	21.9	14.3	10.2	<1
AQ381	706721,734254	22.7	14.5	10.3	<1
AQ382	706297,734272	22.3	14.4	10.2	<1
AQ383	706953,734248	22.7	14.5	10.3	<1
AQ384	706750,734841	22.1	14.4	10.2	<1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			No. of PM_{10} days $>50 \mu\text{g}/\text{m}^3$
		NO_2	PM_{10}	$\text{PM}_{2.5}$	
AQ385	706885,734617	21.7	14.3	10.2	<1
Air Quality Limit Value Objective		40	40	25	35

In the cumulative 2028 DS scenario annual mean concentrations of NO_2 are above the relevant national air quality limit value objective in some areas; 10 exceedances were modelled at receptors on the N4 Lucan Road, the M50 south of the Chapelizod Bypass and the R148 Wolfe Tone Quay. This is an increase from seven exceedances in the DM scenario. Annual mean NO_2 concentrations did not exceed $60 \mu\text{g}/\text{m}^3$, indicating that exceedances of the NO_2 1-hour mean is unlikely to occur. Annual mean PM_{10} concentrations are below the relevant national air quality limit value objective for all modelled receptors. At all receptors, modelling of the maximum 24-hour PM_{10} concentration indicated that there is likely to be no more than three exceedance of the $50 \mu\text{g}/\text{m}^3$ ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean $\text{PM}_{2.5}$ concentrations are also below the relevant national air quality limit value objective for all modelled receptors.

2.3 Comparison of Do Something with Do Minimum

Table 2.3 provides the predicted change in and impact on pollutant concentrations, between the cumulative DM and DS in 2028. Pollutant concentrations have been outlined to one decimal place, where '<0.1' is reported, the pollutant concentration is considered to be less than this amount (i.e. two or more decimal places).

Table 2.3: Predicted Changes in Cumulative Operational DM and DS and Impact Significance Criteria At All Modelled Receptor Locations

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. (µg/m ³)			Change in No of PM ₁₀ days > 50 µg/m ³	Impact on Annual Mean Conc.		
		NO ₂	PM ₁₀	PM _{2.5}		NO ₂	PM ₁₀	PM _{2.5}
AQ1	721010,729635	-1.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ2	721010,729636	-1.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ3	721010,729637	-1.6	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ4	721010,729638	-1.0	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ5	721010,729639	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ6	721010,729640	-2.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ7	721010,729641	-1.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ8	721010,729642	-1.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ9	721010,729643	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ10	721010,729644	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ11	721010,729645	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ12	721010,729646	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ13	721010,729647	-1.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ14	721010,729648	-1.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ15	721010,729649	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ16	721010,729650	0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ17	721010,729651	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ18	721010,729652	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ19	721010,729653	-3.8	-0.8	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ20	721010,729654	-2.2	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ21	721010,729655	-2.6	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ22	721010,729656	-1.2	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ23	721010,729657	-3.3	-0.6	-0.3	<1	Negligible	Negligible	Negligible
AQ24	721010,729658	-2.5	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ25	721010,729659	-3.3	-0.6	-0.3	<1	Negligible	Negligible	Negligible
AQ26	721010,729660	-2.5	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ27	721010,729661	-2.0	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ28	721010,729662	-1.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ29	721010,729663	-2.0	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ30	721010,729664	-5.8	-0.8	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ31	721010,729665	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ32	721010,729666	-2.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ33	721010,729667	-2.9	-0.6	-0.3	<1	Slight Beneficial	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No of PM_{10} days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO_2	PM_{10}	$\text{PM}_{2.5}$		NO_2	PM_{10}	$\text{PM}_{2.5}$
AQ34	721010,729668	-0.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ35	721010,729669	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ36	721010,729670	-1.0	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ37	721010,729671	2.0	0.2	0.1	<1	Moderate Adverse	Negligible	Negligible
AQ38	721010,729672	-2.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ39	721010,729673	1.8	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ40	721010,729674	1.9	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ41	721010,729675	-1.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ42	721010,729676	0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ43	721010,729677	-4.1	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ44	721010,729678	-1.6	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ45	721010,729679	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ46	721010,729680	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ47	721010,729681	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ48	721010,729682	-1.4	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ49	721010,729683	-0.4	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ50	721010,729684	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ51	721010,729685	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ52	721010,729686	-1.2	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ53	721010,729687	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ54	721010,729688	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ55	721010,729689	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ56	721010,729690	-1.3	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ57	721010,729691	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ58	721010,729692	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ59	721010,729693	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ60	721010,729694	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ61	721010,729695	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ62	721010,729696	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ63	721010,729697	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ64	721010,729698	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ65	721010,729699	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ66	721010,729700	1.3	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ67	721010,729701	1.5	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ68	721010,729702	1.5	0.1	<0.1	<1	Slight Adverse	Negligible	Negligible
AQ69	721010,729703	1.4	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ70	721010,729704	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ71	721010,729705	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ72	721010,729706	1.3	0.1	0.1	<1	Slight Adverse	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No of PM_{10} days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO_2	PM_{10}	$\text{PM}_{2.5}$		NO_2	PM_{10}	$\text{PM}_{2.5}$
AQ73	721010,729707	1.4	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ74	721010,729708	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ75	721010,729709	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ76	721010,729710	1.7	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ77	721010,729711	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ78	721010,729712	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ79	721010,729713	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ80	721010,729714	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ81	721010,729715	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ82	721010,729716	2.1	0.2	0.2	<1	Negligible	Negligible	Negligible
AQ83	721010,729717	1.8	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ84	721010,729718	4.0	0.5	0.3	<1	Negligible	Negligible	Negligible
AQ85	721010,729719	1.4	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ86	721010,729720	1.6	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ87	721010,729721	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ88	721010,729722	1.8	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ89	721010,729723	2.1	0.3	0.2	<1	Negligible	Negligible	Negligible
AQ90	721010,729724	3.9	-0.1	<0.1	<1	Moderate Adverse	Negligible	Negligible
AQ91	721010,729725	-1.9	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ92	721010,729726	-2.1	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ93	721010,729727	-1.0	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ94	721010,729728	-3.3	-0.2	-0.2	<1	Moderate Beneficial	Negligible	Negligible
AQ95	721010,729729	-0.7	-0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ96	721010,729730	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ97	721010,729731	-2.0	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ98	721010,729732	-0.4	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ99	721010,729733	-0.2	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ100	721010,729734	0.8	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ101	721010,729735	0.6	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ102	721010,729736	-1.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ103	721010,729737	-2.8	-0.7	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ104	721010,729738	-2.4	-0.4	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ105	721010,729739	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ106	721010,729740	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ107	721010,729741	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ108	721010,729742	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ109	721010,729743	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ110	721010,729744	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ111	721010,729745	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No of PM_{10} days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO_2	PM_{10}	$\text{PM}_{2.5}$		NO_2	PM_{10}	$\text{PM}_{2.5}$
AQ112	721010,729746	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ113	721010,729747	0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ114	721010,729748	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ115	721010,729749	1.2	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ116	721010,729750	2.7	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ117	721010,729751	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ118	721010,729752	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ119	721010,729753	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ120	721010,729754	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ121	721010,729755	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ122	721010,729756	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ123	721010,729757	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ124	721010,729758	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ125	721010,729759	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ126	721010,729760	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ127	721010,729761	1.2	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ128	721010,729762	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ129	721010,729763	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ130	721010,729764	0.7	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ131	721010,729765	1.1	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ132	721010,729766	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ133	721010,729767	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ134	721010,729768	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ135	721010,729769	0.9	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ136	721010,729770	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ137	721010,729771	0.9	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ138	721010,729772	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ139	721010,729773	-0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ140	721010,729774	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ141	721010,729775	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ142	721010,729776	-0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ143	721010,729777	1.0	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ144	721010,729778	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ145	721010,729779	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ146	721010,729780	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ147	721010,729781	1.1	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ148	721010,729782	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ149	721010,729783	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ150	721010,729784	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible

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		NO_2	PM_{10}	$\text{PM}_{2.5}$		NO_2	PM_{10}	$\text{PM}_{2.5}$
AQ151	721010,729785	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ152	721010,729786	1.3	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ153	721010,729787	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ154	721010,729788	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ155	721010,729789	2.1	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ156	721010,729790	1.4	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ157	721010,729791	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ158	721010,729792	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ159	721010,729793	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ160	721010,729794	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ161	721010,729795	2.5	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ162	721010,729796	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ163	721010,729797	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ164	721010,729798	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ165	721010,729799	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ166	721010,729800	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ167	721010,729801	1.7	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ168	721010,729802	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ169	721010,729803	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ170	721010,729804	0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ171	721010,729805	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ172	721010,729806	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ173	721010,729807	0.7	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ174	721010,729808	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ175	721010,729809	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ176	721010,729810	1.1	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ177	721010,729811	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ178	721010,729812	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ179	721010,729813	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ180	721010,729814	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ181	721010,729815	1.7	0.3	0.2	<1	Slight Adverse	Negligible	Negligible
AQ182	721010,729816	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ183	721010,729817	0.8	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ184	721010,729818	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ185	721010,729819	1.7	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ186	721010,729820	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ187	721010,729821	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ188	721010,729822	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ189	721010,729823	1.1	0.2	0.1	<1	Negligible	Negligible	Negligible

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		NO_2	PM_{10}	$\text{PM}_{2.5}$		NO_2	PM_{10}	$\text{PM}_{2.5}$
AQ190	721010,729824	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ191	721010,729825	-1.7	-0.4	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ192	721010,729826	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ193	721010,729827	1.7	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ194	721010,729828	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ195	721010,729829	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ196	721010,729830	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ197	721010,729831	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ198	721010,729832	3.2	0.3	0.2	<1	Slight Adverse	Negligible	Negligible
AQ199	721010,729833	1.2	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ200	721010,729834	3.2	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ201	721010,729835	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ202	721010,729836	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ203	721010,729837	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ204	721010,729838	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ205	721010,729839	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ206	721010,729840	-0.3	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ207	721010,729841	1.3	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ208	721010,729842	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ209	721010,729843	1.3	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ210	721010,729844	1.4	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ211	721010,729845	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ212	721010,729846	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ213	721010,729847	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ214	721010,729848	1.3	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ215	721010,729849	<0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ216	721010,729850	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ217	721010,729851	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ218	721010,729852	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ219	721010,729853	1.0	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ220	721010,729854	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ221	721010,729855	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ222	721010,729856	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ223	721010,729857	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ224	721010,729858	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ225	721010,729859	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ226	721010,729860	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ227	721010,729861	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ228	721010,729862	2.1	0.3	0.2	<1	Slight Adverse	Negligible	Negligible

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		NO_2	PM_{10}	$\text{PM}_{2.5}$		NO_2	PM_{10}	$\text{PM}_{2.5}$
AQ229	721010,729863	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ230	721010,729864	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ231	721010,729865	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ232	721010,729866	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ233	721010,729867	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ234	721010,729868	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ235	721010,729869	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ236	721010,729870	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ237	721010,729871	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ238	721010,729872	1.2	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ239	721010,729873	0.9	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ240	721010,729874	-0.2	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ241	721010,729875	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ242	721010,729876	1.3	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ243	721010,729877	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ244	721010,729878	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ245	721010,729879	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ246	721010,729880	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ247	721010,729881	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ248	721010,729882	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ249	721010,729883	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ250	721010,729884	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ251	721010,729885	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ252	721010,729886	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ253	721010,729887	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ254	721010,729888	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ255	721010,729889	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ256	721010,729890	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ257	721010,729891	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ258	721010,729892	1.8	0.3	0.2	<1	Slight Adverse	Negligible	Negligible
AQ259	721010,729893	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ260	721010,729894	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ261	721010,729895	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ262	721010,729896	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ263	721010,729897	1.9	0.3	0.2	<1	Slight Adverse	Negligible	Negligible
AQ264	721010,729898	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ265	721010,729899	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ266	721010,729900	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ267	721010,729901	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No of PM_{10} days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO_2	PM_{10}	$\text{PM}_{2.5}$		NO_2	PM_{10}	$\text{PM}_{2.5}$
AQ268	721010,729902	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ269	721010,729903	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ270	721010,729904	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ271	721010,729905	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ272	721010,729906	-1.2	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ273	721010,729907	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ274	721010,729908	0.4	<0.1	<0.1	<1	Slight Adverse	Negligible	Negligible
AQ275	721010,729909	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ276	721010,729910	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ277	721010,729911	1.5	0.3	0.2	<1	Slight Adverse	Negligible	Negligible
AQ278	721010,729912	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ279	721010,729913	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ280	721010,729914	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ281	721010,729915	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ282	721010,729916	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ283	721010,729917	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ284	721010,729918	1.0	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ285	721010,729919	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ286	721010,729920	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ287	721010,729921	-1.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ288	721010,729922	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ289	721010,729923	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ290	721010,729924	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ291	721010,729925	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ292	721010,729926	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ293	721010,729927	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ294	721010,729928	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ295	721010,729929	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ296	721010,729930	0.9	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ297	721010,729931	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ298	721010,729932	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ299	721010,729933	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ300	721010,729934	0.3	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ301	721010,729935	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ302	721010,729936	-0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ303	721010,729937	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ304	721010,729938	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ305	721010,729939	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ306	721010,729940	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No of PM_{10} days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO_2	PM_{10}	$\text{PM}_{2.5}$		NO_2	PM_{10}	$\text{PM}_{2.5}$
AQ307	721010,729941	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ308	721010,729942	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ309	721010,729943	0.1	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ310	721010,729944	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ311	721010,729945	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ312	721010,729946	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ313	721010,729947	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ314	721010,729948	1.2	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ315	721010,729949	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ316	721010,729950	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ317	721010,729951	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ318	721010,729952	0.9	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ319	721010,729953	0.7	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ320	721010,729954	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ321	721010,729955	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ322	721010,729956	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ323	721010,729957	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ324	721010,729958	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ325	721010,729959	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ326	721010,729960	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ327	721010,729961	0.9	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ328	721010,729962	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ329	721010,729963	1.1	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ330	721010,729964	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ331	721010,729965	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ332	721010,729966	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ333	721010,729967	-1.6	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ334	721010,729968	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ335	721010,729969	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ336	721010,729970	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ337	721010,729971	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ338	721010,729972	-0.3	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ339	721010,729973	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ340	721010,729974	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ341	721010,729975	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ342	721010,729976	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ343	721010,729977	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ344	721010,729978	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ345	721010,729979	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No of PM_{10} days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO_2	PM_{10}	$\text{PM}_{2.5}$		NO_2	PM_{10}	$\text{PM}_{2.5}$
AQ346	721010,729980	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ347	721010,729981	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ348	721010,729982	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ349	721010,729983	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ350	721010,729984	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ351	721010,729985	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ352	721010,729986	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ353	721010,729987	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ354	721010,729988	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ355	721010,729989	1.3	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ356	721010,729990	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ357	721010,729991	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ358	721010,729992	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ359	721010,729993	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ360	721010,729994	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ361	721010,729995	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ362	721010,729996	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ363	721010,729997	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ364	721010,729998	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ365	721010,729999	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ366	721010,730000	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ367	721010,730001	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ368	721010,730002	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ369	721010,730003	-1.2	-0.2	-0.1	<1	Slight Beneficial	Negligible	Negligible
AQ370	721010,730004	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ371	721010,730005	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ372	721010,730006	-1.3	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ373	721010,730007	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ374	721010,730008	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ375	721010,730009	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ376	721010,730010	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ377	721010,730011	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ378	721010,730012	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ379	721010,730013	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ380	721010,730014	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ381	721010,730015	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ382	721010,730016	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ383	721010,730017	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ384	721010,730018	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ($\mu\text{g}/\text{m}^3$)			Change in No of PM_{10} days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO_2	PM_{10}	$\text{PM}_{2.5}$		NO_2	PM_{10}	$\text{PM}_{2.5}$
AQ385	721010,730019	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible

The significance of the changes in the concentration of each of the ambient receptors has been determined in the context of the TII significance criteria (TII 2011), as described in Section 7.2.4.1.4 in Chapter 7 (Air Quality). The majority of modelled receptors are estimated to experience a negligible impact due to the Proposed Scheme in terms of the annual mean NO_2 concentration. A slightly beneficial impact is estimated at 13 receptors and a moderate beneficial impact at one receptors due to the diversion of traffic off the Proposed Scheme routes. A slight adverse impact is expected at 21 receptors and a moderate adverse impact at two receptors on the R148 Wolfe Tone Quay and Victoria Quay. These localised moderate adverse impacts are considered negative, significant and short-term as NO_2 concentrations exceed the limit value but will decrease below the limit by 2043 due to reductions in emissions between 2028 and 2043 from advancements in engine technology and the addition of a higher percentage of electric vehicles to the fleet. The Proposed Scheme is overall neutral in terms of annual mean PM_{10} and $\text{PM}_{2.5}$ concentrations, with all receptors experiencing a negligible impact.



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