

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 partially cut off by the edges of the page. The shapes are arranged in a non-repeating, organic pattern.

Appendix A21.3

Air Quality Cumulative Modelling Results

Contents

Appendix A21.3: Air Quality Cumulative Modelling Results.....	1
1. Construction Traffic Assessment.....	1
1.1 'Do Minimum' Scenario.....	1
1.2 'Do Something' Scenario.....	7
1.3 Comparison of Do Something with Do Minimum	13
2. Operational Traffic Assessment	21
2.1 'Do Minimum' Scenario.....	21
2.2 'Do Something' Scenario.....	27
2.3 Comparison of Do Something with Do Minimum	33
3. Design Traffic Assessment	41
3.1 Do Minimum' Scenario	41
3.2 'Do Something' Scenario.....	47
3.3 Comparison of Do Something with Do Minimum	53

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 Figures 7.6-7.9 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 > 50 µg/m ³³
		NO ₂	PM ₁₀	PM _{2.5}	
AQ1	718095,733887	27.4	15.2	10.8	<1
AQ2	718105,733878	28.6	15.5	10.9	<1
AQ3	718110,734000	21.1	14.2	10.1	1
AQ4	718121,733982	21.1	14.2	10.1	1
AQ5	718688,734009	21.9	14.4	10.2	<1
AQ6	718932,733934	28.8	15.6	11.0	1
AQ9	717126,734113	65.9	21.4	14.7	5
AQ10	718150,733807	33.2	16.3	11.4	1
AQ11	718369,734083	22.6	14.5	10.3	<1
AQ12	718357,734077	22.0	14.4	10.2	<1
AQ13	718081,734146	21.6	14.3	10.2	<1
AQ14	718058,734151	21.5	14.3	10.2	<1
AQ15	716817,734197	23.8	14.6	10.4	<1
AQ16	717993,734183	21.8	14.4	10.2	<1
AQ17	717993,734100	21.3	14.2	10.2	1
AQ18	717993,734092	21.3	14.2	10.2	1
AQ19	717979,734171	21.3	14.3	10.2	1
AQ20	718451,734065	22.5	14.5	10.3	<1
AQ21	718624,734029	22.3	14.4	10.2	<1
AQ22	718009,733942	23.2	14.5	10.3	<1
AQ23	716893,734342	24.1	14.6	10.4	<1
AQ24	716776,734355	26.5	15.0	10.6	<1
AQ25	718003,733958	22.3	14.4	10.2	<1
AQ26	718514,734052	22.5	14.5	10.3	<1
AQ27	717993,733991	21.8	14.3	10.2	<1
AQ28	717991,734011	21.7	14.3	10.2	<1
AQ29	717972,734020	21.2	14.2	10.1	1

AQ30	716610,734325	24.7	14.6	10.4	<1
AQ31	716573,734328	24.3	14.6	10.4	<1
AQ32	716517,734403	29.9	15.5	11.0	1
AQ33	716531,734318	23.7	14.5	10.3	<1
AQ34	716511,734364	24.5	14.6	10.4	<1
AQ35	716493,734244	25.3	14.7	10.4	<1
AQ36	718073,733877	33.5	16.3	11.4	1
AQ37	718040,733867	41.3	17.6	12.2	1
AQ38	718208,733724	24.3	14.7	10.4	<1
AQ39	718256,733718	29.7	15.5	10.9	1
AQ40	718278,733702	29.5	15.5	10.9	1
AQ41	716627,734293	27.2	14.9	10.6	<1
AQ42	716620,734256	29.5	15.2	10.8	<1
AQ43	716605,734253	28.2	15.0	10.7	<1
AQ44	716603,734235	28.5	15.1	10.7	<1
AQ45	716593,734302	24.5	14.6	10.4	<1
AQ46	716538,734237	25.3	14.7	10.4	<1
AQ47	716565,734255	27.3	14.9	10.6	<1
AQ48	718230,733739	29.8	15.6	11.0	1
AQ49	717848,733841	30.5	15.6	11.0	1
AQ50	717789,733835	36.4	16.5	11.6	1
AQ51	718328,733638	23.0	14.5	10.3	<1
AQ52	718119,733857	32.0	16.1	11.3	1
AQ53	718114,733825	26.2	15.1	10.6	<1
AQ54	718059,733858	33.3	16.2	11.4	1
AQ55	718200,733766	29.2	15.6	10.9	1
AQ56	718139,733823	33.5	16.3	11.4	1
AQ57	717973,733842	36.7	16.6	11.6	1
AQ58	716505,734261	27.1	14.9	10.6	<1
AQ59	716450,734247	24.9	14.7	10.4	<1
AQ60	716431,734255	24.6	14.6	10.4	<1
AQ61	716388,734272	29.8	15.2	10.8	<1
AQ62	716388,734258	24.9	14.6	10.4	<1
AQ63	716679,734355	25.7	14.8	10.5	<1
AQ64	716453,734415	26.3	14.9	10.6	<1
AQ65	716508,734334	25.1	14.7	10.4	<1
AQ66	718032,733851	35.8	16.5	11.6	1
AQ67	716764,734356	28.8	15.3	10.8	<1
AQ68	716400,734428	29.2	15.2	10.8	<1
AQ69	716793,734180	23.4	14.5	10.3	<1
AQ70	716393,734347	28.0	15.0	10.6	<1
AQ71	716756,734187	24.2	14.6	10.4	<1

AQ72	716912,734157	23.4	14.5	10.3	<1
AQ73	716665,734319	26.2	14.9	10.5	<1
AQ74	716751,734286	25.2	14.7	10.5	<1
AQ75	716643,734241	27.9	15.0	10.7	<1
AQ76	716743,734210	26.1	14.9	10.6	<1
AQ77	716633,734220	29.1	15.3	10.8	<1
AQ78	716614,734223	28.5	15.2	10.7	<1
AQ79	718334,733630	23.0	14.5	10.3	<1
AQ80	718298,733622	21.6	14.3	10.2	1
AQ81	718263,733678	25.5	14.9	10.5	<1
AQ82	718266,733669	24.6	14.7	10.5	<1
AQ83	718099,734143	21.9	14.4	10.2	<1
AQ84	717307,734299	26.4	14.9	10.6	<1
AQ85	717331,734295	27.7	15.1	10.7	<1
AQ86	718889,733743	22.9	14.6	10.3	<1
AQ87	716579,734071	48.7	18.8	13.0	2
AQ88	716590,734091	55.4	19.1	13.2	3
AQ89	716784,734031	35.6	16.2	11.4	1
AQ90	716887,734000	35.7	16.0	11.3	1
AQ91	716880,733976	32.1	15.6	11.0	1
AQ92	716900,733998	36.9	16.1	11.3	1
AQ93	716897,733972	33.4	15.7	11.1	1
AQ94	716781,734007	30.5	15.4	10.9	<1
AQ95	716655,734047	31.6	15.7	11.0	1
AQ96	716696,734057	34.5	16.2	11.4	1
AQ97	716573,734109	70.4	21.2	14.6	5
AQ98	716554,734102	46.3	18.2	12.6	2
AQ99	716981,733981	35.2	16.2	11.4	1
AQ101	717558,733852	27.7	15.2	10.7	<1
AQ102	717444,733895	37.0	16.5	11.6	1
AQ103	717676,733827	28.0	15.2	10.8	<1
AQ104	717280,733904	37.4	16.3	11.5	1
AQ105	716945,733963	30.2	15.4	10.8	<1
AQ106	716174,734420	49.0	17.5	12.2	1
AQ107	716258,734278	27.3	14.9	10.6	<1
AQ108	716370,734161	39.8	16.9	11.8	1
AQ109	716422,734146	50.8	18.4	12.8	2
AQ110	716370,734136	33.6	15.9	11.2	1
AQ111	716366,734259	25.9	14.7	10.4	<1
AQ112	716382,734156	41.5	17.0	11.9	1
AQ113	716709,734158	26.2	14.9	10.6	<1
AQ114	716743,734065	33.8	16.1	11.3	1

AQ115	716766,734275	25.4	14.8	10.5	<1
AQ116	716148,734545	42.3	16.8	11.7	1
AQ157	716483,734551	43.1	16.7	11.7	1
AQ118	716322,734693	40.1	17.4	12.1	1
AQ169	717097,734499	46.3	17.5	12.2	1
AQ120	716011,734277	30.3	14.8	10.5	<1
AQ121	715934,734356	31.7	15.1	10.7	<1
AQ122	715921,734470	39.2	15.5	11.0	1
AQ123	716946,735011	26.6	15.1	10.7	<1
AQ124	716933,734994	25.8	14.9	10.5	<1
AQ125	717007,734904	22.6	14.4	10.3	<1
AQ126	717103,734844	24.8	14.7	10.4	<1
AQ127	717025,734920	24.9	14.8	10.5	<1
AQ128	716563,735038	39.0	16.8	11.7	1
AQ129	716520,734962	37.9	16.7	11.6	1
AQ130	717092,734810	25.2	14.7	10.4	<1
AQ131	717110,734771	25.7	14.8	10.5	<1
AQ132	717315,734130	23.8	14.6	10.4	<1
AQ133	717108,733931	41.5	16.9	11.8	1
AQ134	716853,733851	24.2	14.6	10.4	<1
AQ135	716868,733825	23.3	14.5	10.3	<1
AQ136	716900,733822	22.5	14.4	10.2	<1
AQ137	716902,733757	22.9	14.4	10.2	<1
AQ138	716912,733806	22.7	14.4	10.2	<1
AQ139	716934,733722	22.8	14.4	10.3	<1
AQ140	716917,733759	23.2	14.4	10.3	<1
AQ141	716967,733702	22.8	14.4	10.3	<1
AQ142	716901,733716	22.2	14.3	10.2	<1
AQ143	716955,733680	22.6	14.4	10.2	<1
AQ144	716983,733664	23.6	14.5	10.3	<1
AQ145	717003,733677	23.2	14.5	10.3	<1
AQ146	717021,733947	31.2	15.6	11.0	1
AQ147	716326,734258	26.0	14.7	10.4	<1
AQ117	716430,734745	36.4	16.3	11.5	1
AQ149	716314,734151	37.3	16.5	11.5	1
AQ150	716024,734299	30.9	14.9	10.5	<1
AQ151	716619,734369	26.3	14.9	10.6	<1
AQ152	716221,734265	37.4	16.2	11.4	1
AQ153	717134,733956	57.4	19.7	13.6	3
AQ154	717114,733969	71.9	22.5	15.3	7
AQ155	716595,734109	54.8	18.6	13.0	2
AQ156	716605,734086	45.8	17.6	12.3	1

AQ148	716318,734174	51.2	18.6	12.7	2
AQ158	716525,734547	37.9	16.5	11.5	1
AQ159	716629,734540	35.4	16.4	11.4	1
AQ160	716653,734538	35.4	16.4	11.5	1
AQ161	716689,734531	37.3	16.6	11.6	1
AQ162	716771,734524	43.6	17.0	11.9	1
AQ163	716787,734538	39.1	16.6	11.6	1
AQ164	716817,734521	39.4	16.8	11.7	1
AQ165	716895,734515	38.3	16.7	11.7	1
AQ166	716927,734513	37.9	16.6	11.6	1
AQ167	716961,734509	38.3	16.5	11.6	1
AQ168	717030,734505	38.3	16.5	11.6	1
AQ119	716485,734869	48.2	18.4	12.7	2
AQ170	717207,734488	35.5	16.3	11.4	1
AQ171	717264,734486	33.4	16.1	11.3	1
AQ172	717308,734481	34.3	16.3	11.4	1
AQ173	717326,734479	35.0	16.4	11.5	1
AQ174	717383,734475	33.2	16.2	11.3	1
AQ175	717405,734476	32.3	16.0	11.2	1
AQ176	717472,734472	32.1	16.0	11.2	1
AQ177	717528,734467	30.8	15.9	11.1	1
AQ178	717565,734460	24.4	14.8	10.5	<1
AQ179	717650,734451	24.7	14.9	10.5	<1
AQ180	717678,734448	25.2	14.9	10.6	<1
AQ181	717736,734441	31.2	15.8	11.1	1
AQ182	717801,734432	32.3	16.0	11.2	1
AQ183	717855,734430	27.9	15.3	10.8	<1
AQ184	717907,734429	24.9	14.9	10.5	<1
AQ185	717958,734433	24.2	14.8	10.5	<1
AQ186	718008,734444	25.5	15.0	10.6	<1
AQ187	718026,734539	24.8	14.9	10.6	<1
AQ188	716872,734344	23.5	14.5	10.3	<1
AQ189	716921,734338	23.4	14.5	10.3	<1
AQ190	716945,734337	23.9	14.6	10.4	<1
AQ191	716959,734334	24.1	14.6	10.4	<1
AQ192	716996,734330	23.0	14.4	10.3	<1
AQ193	717046,734325	23.2	14.5	10.3	<1
AQ194	717084,734321	24.2	14.6	10.4	<1
AQ195	717119,734316	33.6	15.8	11.1	1
AQ196	717149,734312	38.0	16.5	11.6	1
AQ197	717170,734309	37.8	16.5	11.6	1
AQ198	717236,734306	25.1	14.7	10.5	<1

AQ199	717278,734303	25.3	14.8	10.5	<1
AQ200	717385,734289	25.3	14.8	10.5	<1
AQ201	717451,734283	26.1	14.9	10.6	<1
AQ202	717473,734279	27.1	15.1	10.7	<1
AQ203	717557,734268	23.3	14.5	10.3	<1
AQ204	717618,734264	22.7	14.5	10.3	<1
AQ205	717671,734261	22.7	14.5	10.3	<1
AQ206	717761,734253	22.4	14.4	10.3	<1
AQ207	717798,734247	21.8	14.3	10.2	<1
AQ208	717936,734196	21.0	14.2	10.1	1
AQ209	717960,734185	21.1	14.2	10.1	1
AQ210	718005,734163	21.7	14.3	10.2	<1
AQ211	718118,734136	21.7	14.4	10.2	<1
AQ212	718139,734130	21.7	14.4	10.2	<1
AQ213	718162,734126	21.6	14.4	10.2	<1
AQ214	718190,734118	21.6	14.3	10.2	<1
AQ215	718259,734106	21.7	14.4	10.2	<1
AQ216	718302,734096	21.8	14.4	10.2	<1
AQ217	718183,733744	24.0	14.7	10.4	<1
AQ218	718303,734097	21.9	14.4	10.2	<1
AQ219	718210,734040	21.0	14.2	10.1	1
AQ220	718207,734118	21.7	14.4	10.2	<1
AQ221	718331,734089	21.9	14.4	10.2	<1
AQ222	718197,734035	21.0	14.2	10.1	1
AQ223	716424,734351	24.3	14.6	10.4	<1
AQ224	716475,734363	23.8	14.5	10.3	<1
AQ225	716473,734342	23.9	14.5	10.3	<1
AQ226	716450,734396	24.2	14.6	10.4	<1
AQ227	716427,734382	24.1	14.5	10.3	<1
AQ228	718618,733503	22.3	14.4	10.3	<1
AQ229	718313,733658	23.7	14.6	10.4	<1
AQ230	718524,733520	21.8	14.3	10.2	1
AQ231	718510,733542	21.5	14.2	10.1	1
AQ232	718394,733621	22.1	14.4	10.2	<1
AQ233	718924,733817	22.3	14.4	10.2	<1
AQ234	718686,733534	23.6	14.7	10.4	<1
AQ235	718324,733674	23.4	14.6	10.3	<1
AQ236	718594,733497	22.6	14.5	10.3	<1
AQ237	718836,733692	22.7	14.5	10.3	<1
AQ238	718769,733633	22.1	14.4	10.3	<1
AQ239	718913,733904	23.4	14.6	10.4	<1
AQ240	718423,733590	21.9	14.3	10.2	<1

AQ241	718723,733585	22.3	14.5	10.3	<1
AQ242	718661,733518	23.3	14.6	10.4	<1
AQ243	718920,733790	22.4	14.5	10.2	<1
AQ244	718713,733581	22.0	14.4	10.2	<1
AQ245	718325,733692	22.2	14.4	10.2	<1
AQ246	718437,733560	21.8	14.3	10.2	1
AQ247	718699,733568	22.0	14.4	10.2	<1
AQ248	718460,733525	22.1	14.3	10.2	<1
AQ249	718452,733538	22.0	14.3	10.2	<1
AQ250	718383,733643	23.2	14.5	10.3	<1
AQ251	718801,733984	23.2	14.6	10.4	<1
AQ252	718832,733973	24.0	14.7	10.4	<1
Air Quality Limit Value Objective		40	40	25	35

In the 2024 DM scenario annual mean concentrations of NO₂ are above the relevant national air quality limit value objective in some areas; 21 exceedances were modelled at receptors on Amiens St, Pearse St, Macken St, Tara St, Bridge St and North Wall Quay. Annual mean NO₂ concentrations exceed 60µg/m³ at three receptors on Pearse St and Macken St, indicating that exceedances of the NO₂ 1-hour mean may occur. Annual mean PM₁₀ concentrations are below the relevant national air quality limit value objective in 2019 for all modelled receptors. At all receptors, modelling of the maximum 24-hour PM₁₀ concentration indicated that there is likely to be no more than seven exceedances of the 50µg/m³ ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean 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 > 50 µg/m ³
		NO ₂	PM ₁₀	PM _{2.5}	
AQ1	718095,733887	27.2	15.2	10.8	<1
AQ2	718105,733878	28.4	15.4	10.9	<1
AQ3	718110,734000	21.1	14.2	10.1	1
AQ4	718121,733982	21.0	14.2	10.1	1
AQ5	718688,734009	22.2	14.4	10.2	<1
AQ6	718932,733934	31.0	15.9	11.1	1
AQ9	717126,734113	66.2	21.5	14.8	5
AQ10	718150,733807	32.8	16.2	11.4	1
AQ11	718369,734083	22.8	14.5	10.3	<1
AQ12	718357,734077	22.1	14.4	10.2	<1
AQ13	718081,734146	21.6	14.3	10.2	<1

AQ14	718058,734151	21.6	14.3	10.2	<1
AQ15	716817,734197	24.4	14.7	10.5	<1
AQ16	717993,734183	21.9	14.4	10.2	<1
AQ17	717993,734100	21.3	14.2	10.2	1
AQ18	717993,734092	21.3	14.2	10.2	1
AQ19	717979,734171	21.4	14.3	10.2	1
AQ20	718451,734065	22.7	14.5	10.3	<1
AQ21	718624,734029	22.6	14.5	10.3	<1
AQ22	718009,733942	23.0	14.5	10.3	<1
AQ23	716893,734342	24.4	14.7	10.4	<1
AQ24	716776,734355	26.7	15.0	10.6	<1
AQ25	718003,733958	22.2	14.4	10.3	<1
AQ26	718514,734052	22.8	14.5	10.3	<1
AQ27	717993,733991	21.8	14.3	10.2	<1
AQ28	717991,734011	21.7	14.3	10.2	1
AQ29	717972,734020	21.2	14.2	10.2	1
AQ30	716610,734325	24.9	14.7	10.4	<1
AQ31	716573,734328	24.5	14.6	10.4	<1
AQ32	716517,734403	30.5	15.6	11.0	1
AQ33	716531,734318	23.9	14.5	10.3	<1
AQ34	716511,734364	24.7	14.6	10.4	<1
AQ35	716493,734244	25.7	14.8	10.5	<1
AQ36	718073,733877	33.1	16.2	11.4	1
AQ37	718040,733867	40.5	17.5	12.2	1
AQ38	718208,733724	24.2	14.7	10.5	<1
AQ39	718256,733718	29.4	15.5	11.3	1
AQ40	718278,733702	29.3	15.4	11.3	<1
AQ41	716627,734293	27.6	15.0	10.6	<1
AQ42	716620,734256	30.0	15.3	10.8	<1
AQ43	716605,734253	28.6	15.1	10.7	<1
AQ44	716603,734235	29.0	15.2	10.7	<1
AQ45	716593,734302	24.7	14.6	10.4	<1
AQ46	716538,734237	25.6	14.7	10.5	<1
AQ47	716565,734255	27.7	15.0	10.6	<1
AQ48	718230,733739	29.5	15.6	11.1	1
AQ49	717848,733841	30.1	15.5	11.4	1
AQ50	717789,733835	35.9	16.4	12.2	1
AQ51	718328,733638	22.9	14.5	10.3	<1
AQ52	718119,733857	31.7	16.0	11.2	1
AQ53	718114,733825	26.1	15.0	10.6	<1
AQ54	718059,733858	32.9	16.1	11.3	1
AQ55	718200,733766	29.0	15.5	10.9	1

AQ56	718139,733823	33.2	16.3	11.4	1
AQ57	717973,733842	36.1	16.5	11.7	1
AQ58	716505,734261	27.5	15.0	10.6	<1
AQ59	716450,734247	25.2	14.7	10.4	<1
AQ60	716431,734255	24.9	14.7	10.4	<1
AQ61	716388,734272	30.5	15.3	10.8	<1
AQ62	716388,734258	25.1	14.7	10.4	<1
AQ63	716679,734355	26.0	14.9	10.5	<1
AQ64	716453,734415	26.6	14.9	10.6	<1
AQ65	716508,734334	25.2	14.7	10.4	<1
AQ66	718032,733851	35.3	16.4	11.6	1
AQ67	716764,734356	29.1	15.4	10.9	<1
AQ68	716400,734428	29.5	15.3	10.8	<1
AQ69	716793,734180	23.9	14.6	10.4	<1
AQ70	716393,734347	28.5	15.1	10.7	<1
AQ71	716756,734187	24.8	14.7	10.5	<1
AQ72	716912,734157	23.8	14.6	10.4	<1
AQ73	716665,734319	26.5	14.9	10.6	<1
AQ74	716751,734286	25.3	14.8	10.5	<1
AQ75	716643,734241	28.3	15.1	10.7	<1
AQ76	716743,734210	26.8	15.0	10.7	<1
AQ77	716633,734220	29.6	15.4	10.9	<1
AQ78	716614,734223	28.8	15.2	10.8	<1
AQ79	718334,733630	23.0	14.4	10.3	<1
AQ80	718298,733622	21.6	14.3	10.2	1
AQ81	718263,733678	25.4	14.8	10.7	<1
AQ82	718266,733669	24.6	14.7	10.6	<1
AQ83	718099,734143	22.0	14.4	10.3	<1
AQ84	717307,734299	26.1	14.9	10.6	<1
AQ85	717331,734295	27.5	15.1	10.7	<1
AQ86	718889,733743	23.2	14.6	10.3	<1
AQ87	716579,734071	49.9	19.0	13.1	2
AQ88	716590,734091	57.2	19.3	13.4	3
AQ89	716784,734031	37.6	16.5	11.9	1
AQ90	716887,734000	37.0	16.2	11.8	1
AQ91	716880,733976	32.8	15.7	11.3	1
AQ92	716900,733998	38.2	16.3	11.8	1
AQ93	716897,733972	34.2	15.8	11.4	1
AQ94	716781,734007	31.5	15.6	11.3	1
AQ95	716655,734047	32.8	15.8	11.2	1
AQ96	716696,734057	36.3	16.5	11.6	1
AQ97	716573,734109	71.8	21.4	14.7	5

AQ98	716554,734102	47.7	18.4	12.8	2
AQ99	716981,733981	36.6	16.4	11.6	1
AQ101	717558,733852	27.6	15.1	11.0	<1
AQ102	717444,733895	37.0	16.5	11.6	1
AQ103	717676,733827	27.9	15.2	11.1	<1
AQ104	717280,733904	37.4	16.3	11.5	1
AQ105	716945,733963	30.9	15.4	11.0	<1
AQ106	716174,734420	50.6	17.8	12.4	1
AQ107	716258,734278	27.6	15.0	10.6	<1
AQ108	716370,734161	41.2	17.1	11.9	1
AQ109	716422,734146	53.2	18.8	13.0	2
AQ110	716370,734136	34.6	16.0	11.3	1
AQ111	716366,734259	26.2	14.7	10.5	<1
AQ112	716382,734156	43.1	17.2	12.0	1
AQ113	716709,734158	27.2	15.1	10.7	<1
AQ114	716743,734065	35.9	16.5	11.6	1
AQ115	716766,734275	25.6	14.8	10.5	<1
AQ116	716148,734545	42.7	16.8	11.7	1
AQ157	716483,734551	39.3	16.2	11.4	1
AQ118	716322,734693	41.9	17.7	12.3	1
AQ169	717097,734499	42.9	16.5	11.6	1
AQ120	716011,734277	30.4	14.8	10.5	<1
AQ121	715934,734356	31.7	15.1	10.6	<1
AQ122	715921,734470	39.1	15.5	11.0	1
AQ123	716946,735011	28.0	15.3	10.8	<1
AQ124	716933,734994	26.6	15.0	10.6	<1
AQ125	717007,734904	23.2	14.5	10.3	<1
AQ126	717103,734844	25.9	14.8	10.5	<1
AQ127	717025,734920	26.4	15.0	10.6	<1
AQ128	716563,735038	41.5	17.2	12.0	1
AQ129	716520,734962	40.3	17.1	11.9	1
AQ130	717092,734810	25.7	14.7	10.5	<1
AQ131	717110,734771	25.7	14.7	10.5	<1
AQ132	717315,734130	23.8	14.5	10.3	<1
AQ133	717108,733931	41.7	16.9	11.9	1
AQ134	716853,733851	24.4	14.6	10.5	<1
AQ135	716868,733825	23.3	14.5	10.3	<1
AQ136	716900,733822	22.5	14.4	10.2	<1
AQ137	716902,733757	22.9	14.4	10.3	<1
AQ138	716912,733806	22.7	14.4	10.2	<1
AQ139	716934,733722	22.9	14.4	10.3	<1
AQ140	716917,733759	23.2	14.4	10.3	<1

AQ141	716967,733702	22.9	14.4	10.3	<1
AQ142	716901,733716	22.2	14.3	10.2	<1
AQ143	716955,733680	22.6	14.4	10.2	<1
AQ144	716983,733664	23.7	14.5	10.3	<1
AQ145	717003,733677	23.3	14.5	10.3	<1
AQ146	717021,733947	31.8	15.7	11.1	1
AQ147	716326,734258	26.3	14.7	10.5	<1
AQ117	716430,734745	38.4	16.7	11.7	1
AQ149	716314,734151	38.5	16.7	11.7	1
AQ150	716024,734299	30.9	14.9	10.4	<1
AQ151	716619,734369	26.7	15.0	10.6	<1
AQ152	716221,734265	38.5	16.3	11.5	1
AQ153	717134,733956	56.6	19.5	13.4	3
AQ154	717114,733969	70.1	22.0	15.0	6
AQ155	716595,734109	56.0	18.8	13.1	2
AQ156	716605,734086	47.7	17.9	12.5	2
AQ148	716318,734174	53.5	19.0	13.1	2
AQ158	716525,734547	37.3	16.0	11.3	1
AQ159	716629,734540	34.0	15.8	11.1	1
AQ160	716653,734538	33.8	15.8	11.1	1
AQ161	716689,734531	35.3	16.0	11.2	1
AQ162	716771,734524	41.1	16.2	11.4	1
AQ163	716787,734538	36.4	15.9	11.2	1
AQ164	716817,734521	34.9	15.9	11.2	1
AQ165	716895,734515	33.5	15.7	11.1	1
AQ166	716927,734513	33.3	15.7	11.1	1
AQ167	716961,734509	34.0	15.6	11.0	1
AQ168	717030,734505	34.4	15.6	11.0	1
AQ119	716485,734869	52.6	19.2	13.2	3
AQ170	717207,734488	33.8	15.6	11.0	1
AQ171	717264,734486	32.0	15.5	10.9	<1
AQ172	717308,734481	32.2	15.6	11.0	1
AQ173	717326,734479	31.9	15.6	11.0	1
AQ174	717383,734475	30.1	15.5	10.9	1
AQ175	717405,734476	29.5	15.4	10.9	<1
AQ176	717472,734472	29.6	15.4	10.9	<1
AQ177	717528,734467	28.0	15.3	10.8	<1
AQ178	717565,734460	23.1	14.5	10.3	<1
AQ179	717650,734451	23.3	14.5	10.3	<1
AQ180	717678,734448	23.7	14.6	10.3	<1
AQ181	717736,734441	29.2	15.0	10.6	<1
AQ182	717801,734432	30.2	15.1	10.7	<1

AQ183	717855,734430	26.3	14.8	10.5	<1
AQ184	717907,734429	23.9	14.5	10.3	<1
AQ185	717958,734433	23.8	14.5	10.3	<1
AQ186	718008,734444	25.8	14.9	10.6	<1
AQ187	718026,734539	25.1	14.9	10.5	<1
AQ188	716872,734344	23.7	14.6	10.4	<1
AQ189	716921,734338	23.6	14.5	10.3	<1
AQ190	716945,734337	24.2	14.6	10.4	<1
AQ191	716959,734334	24.4	14.6	10.4	<1
AQ192	716996,734330	23.1	14.4	10.3	<1
AQ193	717046,734325	23.1	14.4	10.3	<1
AQ194	717084,734321	24.0	14.5	10.3	<1
AQ195	717119,734316	32.8	15.6	11.0	1
AQ196	717149,734312	36.4	16.2	11.4	1
AQ197	717170,734309	36.1	16.2	11.4	1
AQ198	717236,734306	24.8	14.7	10.4	<1
AQ199	717278,734303	25.1	14.7	10.5	<1
AQ200	717385,734289	25.2	14.8	10.5	<1
AQ201	717451,734283	26.0	14.9	10.6	<1
AQ202	717473,734279	27.1	15.1	10.7	<1
AQ203	717557,734268	23.2	14.5	10.3	<1
AQ204	717618,734264	22.7	14.4	10.3	<1
AQ205	717671,734261	22.6	14.4	10.3	<1
AQ206	717761,734253	22.4	14.4	10.3	<1
AQ207	717798,734247	21.8	14.3	10.2	<1
AQ208	717936,734196	21.1	14.2	10.1	1
AQ209	717960,734185	21.2	14.2	10.1	1
AQ210	718005,734163	21.8	14.3	10.2	<1
AQ211	718118,734136	21.8	14.4	10.2	<1
AQ212	718139,734130	21.8	14.4	10.2	<1
AQ213	718162,734126	21.7	14.4	10.2	<1
AQ214	718190,734118	21.7	14.4	10.2	<1
AQ215	718259,734106	21.9	14.4	10.2	<1
AQ216	718302,734096	22.0	14.4	10.2	<1
AQ217	718183,733744	24.0	14.7	10.4	<1
AQ218	718303,734097	22.0	14.4	10.3	<1
AQ219	718210,734040	21.0	14.2	10.1	1
AQ220	718207,734118	21.8	14.4	10.2	<1
AQ221	718331,734089	22.1	14.4	10.2	<1
AQ222	718197,734035	21.0	14.2	10.1	1
AQ223	716424,734351	24.5	14.6	10.4	<1
AQ224	716475,734363	23.9	14.5	10.3	<1

AQ225	716473,734342	24.1	14.5	10.3	<1
AQ226	716450,734396	24.4	14.6	10.4	<1
AQ227	716427,734382	24.3	14.6	10.4	<1
AQ228	718618,733503	22.4	14.5	10.3	<1
AQ229	718313,733658	23.6	14.6	10.4	<1
AQ230	718524,733520	21.8	14.3	10.2	1
AQ231	718510,733542	21.5	14.2	10.2	1
AQ232	718394,733621	22.0	14.3	10.2	<1
AQ233	718924,733817	22.7	14.5	10.3	<1
AQ234	718686,733534	23.9	14.8	10.5	<1
AQ235	718324,733674	23.3	14.6	10.4	<1
AQ236	718594,733497	22.7	14.5	10.3	<1
AQ237	718836,733692	22.9	14.6	10.3	<1
AQ238	718769,733633	22.3	14.5	10.3	<1
AQ239	718913,733904	24.0	14.7	10.4	<1
AQ240	718423,733590	21.9	14.3	10.2	<1
AQ241	718723,733585	22.4	14.5	10.3	<1
AQ242	718661,733518	23.5	14.7	10.4	<1
AQ243	718920,733790	22.7	14.5	10.3	<1
AQ244	718713,733581	22.2	14.4	10.3	<1
AQ245	718325,733692	22.1	14.4	10.2	<1
AQ246	718437,733560	21.8	14.3	10.2	1
AQ247	718699,733568	22.2	14.4	10.3	<1
AQ248	718460,733525	22.1	14.3	10.2	<1
AQ249	718452,733538	22.0	14.3	10.2	<1
AQ250	718383,733643	23.1	14.5	10.3	<1
AQ251	718801,733984	23.7	14.6	10.4	<1
AQ252	718832,733973	24.6	14.8	10.5	<1
Air Quality Limit Value Objective		40	40	25	35

In the cumulative 2024 DS scenario annual mean concentrations of NO₂ are above the relevant national air quality limit value objective in some areas; 23 exceedances were modelled at receptors on Amiens St, Pearse St, Macken St, Tara St, Bridge St and North Wall Quay. This is an increase from 21 exceedances in the DM scenario. Annual mean NO₂ concentrations exceed 60µg/m³ at three receptors on Pearse St and Macken St, indicating that exceedances of the NO₂ 1-hour mean may occur. Annual mean PM₁₀ concentrations are below the relevant national air quality limit value objective for all modelled receptors. At all receptors, modelling of the maximum 24-hour PM₁₀ concentration indicated that there is likely to be no more than six exceedance of the 50µg/m³ ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean 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. ($\mu\text{g}/\text{m}^3$)			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}	$\text{PM}_{2.5}$
AQ1	718095,733887	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ2	718105,733878	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ3	718110,734000	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ4	718121,733982	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ5	718688,734009	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ6	718932,733934	2.2	0.3	0.2	<1	Slight Adverse	Negligible	Negligible
AQ9	717126,734113	0.2	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ10	718150,733807	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ11	718369,734083	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ12	718357,734077	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ13	718081,734146	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ14	718058,734151	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ15	716817,734197	0.6	0.1	0.2	<1	Negligible	Negligible	Negligible
AQ16	717993,734183	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ17	717993,734100	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ18	717993,734092	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ19	717979,734171	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ20	718451,734065	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ21	718624,734029	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ22	718009,733942	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ23	716893,734342	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ24	716776,734355	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ25	718003,733958	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ26	718514,734052	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ27	717993,733991	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ28	717991,734011	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ29	717972,734020	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ30	716610,734325	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ31	716573,734328	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ32	716517,734403	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ33	716531,734318	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ34	716511,734364	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ35	716493,734244	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ36	718073,733877	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ37	718040,733867	-0.7	-0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ38	718208,733724	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ39	718256,733718	-0.3	<0.1	0.4	<1	Negligible	Negligible	Negligible
AQ40	718278,733702	-0.2	<0.1	0.4	<1	Negligible	Negligible	Negligible

AQ41	716627,734293	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ42	716620,734256	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ43	716605,734253	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ44	716603,734235	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ45	716593,734302	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ46	716538,734237	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ47	716565,734255	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ48	718230,733739	-0.3	-0.1	0.1	<1	Negligible	Negligible	Negligible
AQ49	717848,733841	-0.3	-0.1	0.4	<1	Negligible	Negligible	Negligible
AQ50	717789,733835	-0.5	-0.1	0.7	<1	Slight Beneficial	Negligible	Negligible
AQ51	718328,733638	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ52	718119,733857	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ53	718114,733825	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ54	718059,733858	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ55	718200,733766	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ56	718139,733823	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ57	717973,733842	-0.6	-0.1	0.1	<1	Slight Beneficial	Negligible	Negligible
AQ58	716505,734261	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ59	716450,734247	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ60	716431,734255	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ61	716388,734272	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ62	716388,734258	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ63	716679,734355	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ64	716453,734415	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ65	716508,734334	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ66	718032,733851	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ67	716764,734356	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ68	716400,734428	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ69	716793,734180	0.4	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ70	716393,734347	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ71	716756,734187	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ72	716912,734157	0.4	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ73	716665,734319	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ74	716751,734286	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ75	716643,734241	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ76	716743,734210	0.7	0.1	0.2	<1	Negligible	Negligible	Negligible
AQ77	716633,734220	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ78	716614,734223	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ79	718334,733630	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ80	718298,733622	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ81	718263,733678	-0.1	<0.1	0.2	<1	Negligible	Negligible	Negligible
AQ82	718266,733669	-0.1	<0.1	0.1	<1	Negligible	Negligible	Negligible

AQ83	718099,734143	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ84	717307,734299	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ85	717331,734295	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ86	718889,733743	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ87	716579,734071	1.1	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ88	716590,734091	1.8	0.3	0.2	<1	Slight Adverse	Negligible	Negligible
AQ89	716784,734031	2.0	0.3	0.6	<1	Slight Adverse	Negligible	Negligible
AQ90	716887,734000	1.3	0.2	0.5	<1	Slight Adverse	Negligible	Negligible
AQ91	716880,733976	0.8	0.1	0.3	<1	Negligible	Negligible	Negligible
AQ92	716900,733998	1.2	0.2	0.5	<1	Slight Adverse	Negligible	Negligible
AQ93	716897,733972	0.7	0.1	0.3	<1	Negligible	Negligible	Negligible
AQ94	716781,734007	1.1	0.1	0.4	<1	Negligible	Negligible	Negligible
AQ95	716655,734047	1.2	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ96	716696,734057	1.8	0.3	0.2	<1	Slight Adverse	Negligible	Negligible
AQ97	716573,734109	1.4	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ98	716554,734102	1.3	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ99	716981,733981	1.4	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ101	717558,733852	-0.1	<0.1	0.2	<1	Negligible	Negligible	Negligible
AQ102	717444,733895	<0.1	<0.1	0.1	<1	Negligible	Negligible	Negligible
AQ103	717676,733827	-0.2	<0.1	0.3	<1	Negligible	Negligible	Negligible
AQ104	717280,733904	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ105	716945,733963	0.7	0.1	0.2	<1	Negligible	Negligible	Negligible
AQ106	716174,734420	1.5	0.3	0.2	<1	Slight Adverse	Negligible	Negligible
AQ107	716258,734278	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ108	716370,734161	1.4	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ109	716422,734146	2.4	0.4	0.2	<1	Moderate Adverse	Negligible	Negligible
AQ110	716370,734136	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ111	716366,734259	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ112	716382,734156	1.6	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ113	716709,734158	1.0	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ114	716743,734065	2.1	0.4	0.3	<1	Slight Adverse	Negligible	Negligible
AQ115	716766,734275	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ116	716148,734545	0.5	<0.1	<0.1	<1	Slight Adverse	Negligible	Negligible
AQ157	716483,734551	-3.8	-0.5	-0.3	<1	Moderate Beneficial	Negligible	Negligible
AQ118	716322,734693	1.8	0.3	0.2	<1	Slight Adverse	Negligible	Negligible
AQ169	717097,734499	-3.5	-1.0	-0.6	1	Moderate Beneficial	Negligible	Negligible
AQ120	716011,734277	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ121	715934,734356	<0.1	<0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ122	715921,734470	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ123	716946,735011	1.4	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ124	716933,734994	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ125	717007,734904	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible

AQ126	717103,734844	1.1	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ127	717025,734920	1.6	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ128	716563,735038	2.5	0.4	0.3	<1	Moderate Adverse	Negligible	Negligible
AQ129	716520,734962	2.4	0.4	0.3	<1	Moderate Adverse	Negligible	Negligible
AQ130	717092,734810	0.6	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ131	717110,734771	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ132	717315,734130	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ133	717108,733931	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ134	716853,733851	0.2	<0.1	0.1	<1	Negligible	Negligible	Negligible
AQ135	716868,733825	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ136	716900,733822	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ137	716902,733757	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ138	716912,733806	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ139	716934,733722	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ140	716917,733759	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ141	716967,733702	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ142	716901,733716	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ143	716955,733680	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ144	716983,733664	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ145	717003,733677	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ146	717021,733947	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ147	716326,734258	0.3	<0.1	0.1	<1	Negligible	Negligible	Negligible
AQ117	716430,734745	2.1	0.3	0.2	<1	Moderate Adverse	Negligible	Negligible
AQ149	716314,734151	1.3	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ150	716024,734299	0.1	<0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ151	716619,734369	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ152	716221,734265	1.1	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ153	717134,733956	-0.8	-0.2	-0.1	<1	Slight Beneficial	Negligible	Negligible
AQ154	717114,733969	-1.8	-0.5	-0.3	-1	Slight Beneficial	Negligible	Negligible
AQ155	716595,734109	1.2	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ156	716605,734086	2.0	0.3	0.2	1	Slight Adverse	Negligible	Negligible
AQ148	716318,734174	2.3	0.3	0.4	<1	Moderate Adverse	Negligible	Negligible
AQ158	716525,734547	-0.6	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ159	716629,734540	-1.5	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ160	716653,734538	-1.6	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ161	716689,734531	-1.9	-0.6	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ162	716771,734524	-2.5	-0.8	-0.5	<1	Moderate Beneficial	Negligible	Negligible
AQ163	716787,734538	-2.7	-0.6	-0.4	<1	Moderate Beneficial	Negligible	Negligible
AQ164	716817,734521	-4.5	-0.9	-0.6	<1	Moderate Beneficial	Negligible	Negligible
AQ165	716895,734515	-4.8	-0.9	-0.6	<1	Moderate Beneficial	Negligible	Negligible
AQ166	716927,734513	-4.6	-0.9	-0.5	<1	Moderate Beneficial	Negligible	Negligible
AQ167	716961,734509	-4.3	-0.9	-0.5	<1	Moderate Beneficial	Negligible	Negligible

AQ168	717030,734505	-3.9	-0.9	-0.5	<1	Moderate Beneficial	Negligible	Negligible
AQ119	716485,734869	4.5	0.8	0.5	<1	Substantial Adverse	Negligible	Negligible
AQ170	717207,734488	-1.6	-0.7	-0.4	<1	Negligible	Negligible	Negligible
AQ171	717264,734486	-1.5	-0.7	-0.4	<1	Negligible	Negligible	Negligible
AQ172	717308,734481	-2.1	-0.7	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ173	717326,734479	-3.0	-0.8	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ174	717383,734475	-3.1	-0.7	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ175	717405,734476	-2.8	-0.6	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ176	717472,734472	-2.5	-0.6	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ177	717528,734467	-2.8	-0.6	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ178	717565,734460	-1.3	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ179	717650,734451	-1.4	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ180	717678,734448	-1.5	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ181	717736,734441	-2.0	-0.8	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ182	717801,734432	-2.2	-0.9	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ183	717855,734430	-1.6	-0.6	-0.3	<1	Negligible	Negligible	Negligible
AQ184	717907,734429	-1.0	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ185	717958,734433	-0.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ186	718008,734444	0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ187	718026,734539	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ188	716872,734344	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ189	716921,734338	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ190	716945,734337	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ191	716959,734334	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ192	716996,734330	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ193	717046,734325	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ194	717084,734321	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ195	717119,734316	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ196	717149,734312	-1.6	-0.3	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ197	717170,734309	-1.7	-0.3	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ198	717236,734306	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ199	717278,734303	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ200	717385,734289	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ201	717451,734283	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ202	717473,734279	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ203	717557,734268	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ204	717618,734264	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ205	717671,734261	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ206	717761,734253	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ207	717798,734247	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ208	717936,734196	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ209	717960,734185	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible

AQ210	718005,734163	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ211	718118,734136	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ212	718139,734130	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ213	718162,734126	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ214	718190,734118	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ215	718259,734106	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ216	718302,734096	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ217	718183,733744	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ218	718303,734097	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ219	718210,734040	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ220	718207,734118	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ221	718331,734089	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ222	718197,734035	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ223	716424,734351	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ224	716475,734363	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ225	716473,734342	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ226	716450,734396	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ227	716427,734382	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ228	718618,733503	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ229	718313,733658	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ230	718524,733520	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ231	718510,733542	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ232	718394,733621	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ233	718924,733817	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ234	718686,733534	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ235	718324,733674	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ236	718594,733497	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ237	718836,733692	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ238	718769,733633	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ239	718913,733904	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ240	718423,733590	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ241	718723,733585	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ242	718661,733518	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ243	718920,733790	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ244	718713,733581	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ245	718325,733692	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ246	718437,733560	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ247	718699,733568	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ248	718460,733525	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ249	718452,733538	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ250	718383,733643	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ251	718801,733984	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible

AQ252	718832,733973	0.6	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 17 receptors and a moderate beneficial impact at nine receptors. All beneficial impacts are modelled along the Proposed Scheme due to the diversion of traffic off these routes. A slight adverse impact is expected at 20 receptors, a moderate adverse impact at five receptors on Pearse St and a substantial adverse impact at one receptor on Amiens St. These localised moderate and substantial adverse impacts are considered negative, significant and short-term as NO₂ concentrations exceed the limit value but only occur during the short-term construction phase. 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	718095,733887	27.7	15.3	10.7	<1
AQ2	718105,733878	28.9	15.5	10.9	1
AQ3	718110,734000	21.3	14.2	10.1	1
AQ4	718121,733982	21.2	14.2	10.1	1
AQ5	718688,734009	21.7	14.3	10.2	<1
AQ6	718932,733934	27.5	15.4	10.8	<1
AQ9	717126,734113	64.9	20.6	14.0	4
AQ10	718150,733807	33.5	16.3	11.4	1
AQ11	718369,734083	22.2	14.4	10.2	<1
AQ12	718357,734077	21.9	14.3	10.2	<1
AQ13	718081,734146	21.6	14.3	10.2	<1
AQ14	718058,734151	21.6	14.3	10.2	<1
AQ15	716817,734197	24.2	14.6	10.4	<1
AQ16	717993,734183	21.9	14.3	10.2	<1
AQ17	717993,734100	21.4	14.2	10.1	1
AQ18	717993,734092	21.4	14.2	10.1	1
AQ19	717979,734171	21.4	14.3	10.2	1
AQ20	718451,734065	21.9	14.3	10.2	<1
AQ21	718624,734029	22.0	14.4	10.2	<1
AQ22	718009,733942	23.6	14.6	10.4	<1
AQ23	716893,734342	24.5	14.7	10.4	<1
AQ24	716776,734355	27.6	15.0	10.6	<1
AQ25	718003,733958	22.5	14.4	10.2	<1
AQ26	718514,734052	21.9	14.3	10.2	<1
AQ27	717993,733991	21.9	14.3	10.2	<1
AQ28	717991,734011	21.8	14.3	10.2	<1
AQ29	717972,734020	21.3	14.2	10.1	1
AQ30	716610,734325	25.0	14.7	10.4	<1
AQ31	716573,734328	24.5	14.6	10.4	<1
AQ32	716517,734403	30.3	15.5	10.9	1
AQ33	716531,734318	23.9	14.5	10.3	<1

AQ34	716511,734364	24.7	14.6	10.4	<1
AQ35	716493,734244	25.5	14.8	10.5	<1
AQ36	718073,733877	33.9	16.3	11.4	1
AQ37	718040,733867	42.1	17.7	12.2	1
AQ38	718208,733724	24.4	14.7	10.4	<1
AQ39	718256,733718	29.9	15.5	10.9	1
AQ40	718278,733702	29.7	15.5	10.9	1
AQ41	716627,734293	27.6	14.9	10.6	<1
AQ42	716620,734256	30.0	15.2	10.8	<1
AQ43	716605,734253	28.6	15.1	10.7	<1
AQ44	716603,734235	29.0	15.2	10.7	<1
AQ45	716593,734302	24.7	14.6	10.4	<1
AQ46	716538,734237	25.5	14.8	10.4	<1
AQ47	716565,734255	27.6	15.0	10.6	<1
AQ48	718230,733739	30.0	15.7	11.0	1
AQ49	717848,733841	30.9	15.6	11.0	1
AQ50	717789,733835	37.1	16.6	11.5	1
AQ51	718328,733638	23.1	14.5	10.3	<1
AQ52	718119,733857	32.3	16.1	11.2	1
AQ53	718114,733825	26.4	15.1	10.6	<1
AQ54	718059,733858	33.7	16.3	11.3	1
AQ55	718200,733766	29.4	15.6	10.9	1
AQ56	718139,733823	33.9	16.4	11.4	1
AQ57	717973,733842	36.5	16.7	11.6	1
AQ58	716505,734261	27.3	15.0	10.6	<1
AQ59	716450,734247	25.0	14.7	10.4	<1
AQ60	716431,734255	24.7	14.7	10.4	<1
AQ61	716388,734272	30.1	15.4	10.8	<1
AQ62	716388,734258	24.9	14.7	10.4	<1
AQ63	716679,734355	26.1	14.8	10.5	<1
AQ64	716453,734415	26.4	14.9	10.5	<1
AQ65	716508,734334	25.4	14.7	10.4	<1
AQ66	718032,733851	35.9	16.6	11.5	1
AQ67	716764,734356	30.3	15.4	10.9	<1
AQ68	716400,734428	29.0	15.2	10.7	<1
AQ69	716793,734180	23.7	14.5	10.3	<1
AQ70	716393,734347	28.2	15.0	10.6	<1
AQ71	716756,734187	24.6	14.7	10.4	<1
AQ72	716912,734157	23.7	14.5	10.3	<1
AQ73	716665,734319	26.6	14.9	10.5	<1
AQ74	716751,734286	25.9	14.8	10.5	<1
AQ75	716643,734241	28.4	15.1	10.7	<1

AQ76	716743,734210	26.9	15.0	10.6	<1
AQ77	716633,734220	29.7	15.4	10.8	<1
AQ78	716614,734223	28.9	15.2	10.7	<1
AQ79	718334,733630	23.2	14.5	10.3	<1
AQ80	718298,733622	21.7	14.3	10.2	1
AQ81	718263,733678	25.6	14.9	10.5	<1
AQ82	718266,733669	24.7	14.7	10.4	<1
AQ83	718099,734143	21.9	14.4	10.2	<1
AQ84	717307,734299	27.4	15.0	10.6	<1
AQ85	717331,734295	29.0	15.2	10.7	<1
AQ86	718889,733743	23.0	14.5	10.3	<1
AQ87	716579,734071	48.1	17.4	12.1	1
AQ88	716590,734091	57.7	18.6	12.8	2
AQ89	716784,734031	37.0	16.4	11.4	1
AQ90	716887,734000	37.1	16.2	11.3	1
AQ91	716880,733976	33.3	15.7	11.0	1
AQ92	716900,733998	38.5	16.3	11.4	1
AQ93	716897,733972	34.9	15.9	11.1	1
AQ94	716781,734007	31.5	15.6	10.9	1
AQ95	716655,734047	32.4	15.6	11.0	1
AQ96	716696,734057	35.7	16.3	11.4	1
AQ97	716573,734109	75.8	21.0	14.3	5
AQ98	716554,734102	47.3	17.8	12.3	1
AQ99	716981,733981	35.9	16.4	11.4	1
AQ101	717558,733852	28.3	15.2	10.7	<1
AQ102	717444,733895	38.7	16.6	11.6	1
AQ103	717676,733827	28.6	15.3	10.8	<1
AQ104	717280,733904	38.6	16.4	11.4	1
AQ105	716945,733963	30.9	15.5	10.9	<1
AQ148	716318,734174	50.9	18.6	12.8	2
AQ107	716258,734278	27.4	15.1	10.6	<1
AQ108	716370,734161	39.4	16.9	11.7	1
AQ109	716422,734146	50.4	18.5	12.7	2
AQ110	716370,734136	33.3	15.9	11.1	1
AQ111	716366,734259	26.0	14.8	10.5	<1
AQ112	716382,734156	41.0	17.0	11.8	1
AQ113	716709,734158	26.8	15.0	10.6	<1
AQ114	716743,734065	35.0	16.3	11.4	1
AQ115	716766,734275	26.2	14.8	10.5	<1
AQ116	716148,734545	40.3	16.7	11.6	1
AQ117	716430,734745	35.2	16.1	11.3	1
AQ118	716322,734693	39.0	16.7	11.6	1

AQ119	716485,734869	46.0	18.2	12.5	2
AQ120	716011,734277	26.7	14.7	10.4	<1
AQ121	715934,734356	27.2	14.9	10.5	<1
AQ122	715921,734470	34.2	15.4	10.9	<1
AQ123	716946,735011	29.4	15.4	10.8	<1
AQ124	716933,734994	27.8	15.1	10.7	<1
AQ125	717007,734904	23.5	14.5	10.3	<1
AQ126	717103,734844	25.9	14.8	10.5	<1
AQ127	717025,734920	27.2	15.1	10.7	<1
AQ128	716563,735038	37.2	16.7	11.6	1
AQ129	716520,734962	36.9	16.5	11.5	1
AQ130	717092,734810	25.5	14.7	10.4	<1
AQ131	717110,734771	25.9	14.7	10.5	<1
AQ132	717315,734130	24.5	14.6	10.4	<1
AQ133	717108,733931	42.1	17.0	11.8	1
AQ134	716853,733851	24.7	14.6	10.4	<1
AQ135	716868,733825	23.7	14.5	10.3	<1
AQ136	716900,733822	23.0	14.4	10.2	<1
AQ137	716902,733757	23.8	14.5	10.3	<1
AQ138	716912,733806	23.6	14.5	10.3	<1
AQ139	716934,733722	23.7	14.5	10.3	<1
AQ140	716917,733759	24.4	14.5	10.3	<1
AQ141	716967,733702	23.7	14.5	10.3	<1
AQ142	716901,733716	22.6	14.4	10.2	<1
AQ143	716955,733680	23.1	14.4	10.3	<1
AQ144	716983,733664	24.5	14.6	10.4	<1
AQ145	717003,733677	24.1	14.6	10.3	<1
AQ146	717021,733947	31.7	15.7	11.0	1
AQ147	716326,734258	26.1	14.8	10.5	<1
AQ156	716605,734086	47.5	17.3	12.0	1
AQ149	716314,734151	36.7	16.5	11.5	1
AQ150	716024,734299	27.1	14.8	10.5	<1
AQ151	716619,734369	26.7	14.9	10.5	<1
AQ152	716221,734265	38.0	16.4	11.4	1
AQ153	717134,733956	58.5	19.7	13.5	3
AQ154	717114,733969	73.2	22.6	15.1	7
AQ155	716595,734109	58.4	18.5	12.7	2
AQ106	716174,734420	52.2	18.0	12.5	2
AQ157	716483,734551	42.8	16.7	11.6	1
AQ158	716525,734547	38.1	16.6	11.5	1
AQ159	716629,734540	36.0	16.5	11.5	1
AQ160	716653,734538	35.9	16.5	11.5	1

AQ161	716689,734531	38.1	16.8	11.6	1
AQ162	716771,734524	47.9	17.2	11.9	1
AQ163	716787,734538	42.4	16.7	11.6	1
AQ164	716817,734521	41.9	17.0	11.8	1
AQ165	716895,734515	40.4	16.9	11.7	1
AQ166	716927,734513	40.1	16.8	11.7	1
AQ167	716961,734509	40.7	16.8	11.7	1
AQ168	717030,734505	40.7	16.7	11.6	1
AQ169	717097,734499	49.0	17.7	12.2	1
AQ170	717207,734488	36.0	16.5	11.5	1
AQ171	717264,734486	33.9	16.2	11.3	1
AQ172	717308,734481	35.0	16.4	11.4	1
AQ173	717326,734479	35.7	16.5	11.5	1
AQ174	717383,734475	33.5	16.2	11.3	1
AQ175	717405,734476	32.6	16.1	11.2	1
AQ176	717472,734472	32.5	16.1	11.2	1
AQ177	717528,734467	31.0	15.9	11.1	1
AQ178	717565,734460	24.5	14.8	10.5	<1
AQ179	717650,734451	24.7	14.9	10.5	<1
AQ180	717678,734448	25.3	15.0	10.6	<1
AQ181	717736,734441	31.4	15.9	11.1	1
AQ182	717801,734432	32.6	16.0	11.2	1
AQ183	717855,734430	28.1	15.3	10.8	<1
AQ184	717907,734429	24.9	14.9	10.5	<1
AQ185	717958,734433	24.3	14.8	10.4	<1
AQ186	718008,734444	25.5	15.0	10.6	<1
AQ187	718026,734539	24.8	14.9	10.5	<1
AQ188	716872,734344	23.8	14.5	10.3	<1
AQ189	716921,734338	23.7	14.5	10.3	<1
AQ190	716945,734337	24.3	14.6	10.4	<1
AQ191	716959,734334	24.5	14.6	10.4	<1
AQ192	716996,734330	23.3	14.5	10.3	<1
AQ193	717046,734325	23.5	14.5	10.3	<1
AQ194	717084,734321	24.7	14.6	10.4	<1
AQ195	717119,734316	35.4	15.9	11.1	1
AQ196	717149,734312	40.8	16.6	11.6	1
AQ197	717170,734309	40.5	16.6	11.6	1
AQ198	717236,734306	25.8	14.7	10.5	<1
AQ199	717278,734303	26.1	14.8	10.5	<1
AQ200	717385,734289	26.0	14.9	10.5	<1
AQ201	717451,734283	27.0	15.0	10.6	<1
AQ202	717473,734279	28.3	15.1	10.7	<1

AQ203	717557,734268	23.7	14.6	10.3	<1
AQ204	717618,734264	23.1	14.5	10.3	<1
AQ205	717671,734261	23.0	14.5	10.3	<1
AQ206	717761,734253	22.7	14.4	10.3	<1
AQ207	717798,734247	22.0	14.3	10.2	<1
AQ208	717936,734196	21.1	14.2	10.1	1
AQ209	717960,734185	21.2	14.2	10.1	1
AQ210	718005,734163	21.8	14.3	10.2	<1
AQ211	718118,734136	21.8	14.4	10.2	<1
AQ212	718139,734130	21.8	14.4	10.2	<1
AQ213	718162,734126	21.7	14.3	10.2	<1
AQ214	718190,734118	21.6	14.3	10.2	<1
AQ215	718259,734106	21.8	14.4	10.2	<1
AQ216	718302,734096	21.9	14.4	10.2	<1
AQ217	718183,733744	24.2	14.7	10.4	<1
AQ218	718303,734097	21.9	14.4	10.2	<1
AQ219	718210,734040	21.1	14.2	10.1	1
AQ220	718207,734118	21.8	14.4	10.2	<1
AQ221	718331,734089	22.0	14.4	10.2	<1
AQ222	718197,734035	21.1	14.2	10.1	1
AQ223	716424,734351	24.4	14.6	10.3	<1
AQ224	716475,734363	23.8	14.5	10.3	<1
AQ225	716473,734342	24.0	14.5	10.3	<1
AQ226	716450,734396	24.2	14.6	10.3	<1
AQ227	716427,734382	24.1	14.6	10.3	<1
AQ228	718618,733503	22.5	14.4	10.2	<1
AQ229	718313,733658	23.8	14.6	10.4	<1
AQ230	718524,733520	21.8	14.3	10.2	1
AQ231	718510,733542	21.5	14.2	10.1	1
AQ232	718394,733621	22.1	14.3	10.2	<1
AQ233	718924,733817	22.2	14.4	10.2	<1
AQ234	718686,733534	24.1	14.6	10.4	<1
AQ235	718324,733674	23.4	14.5	10.3	<1
AQ236	718594,733497	22.9	14.4	10.3	<1
AQ237	718836,733692	22.9	14.5	10.3	<1
AQ238	718769,733633	22.3	14.4	10.2	<1
AQ239	718913,733904	22.9	14.6	10.3	<1
AQ240	718423,733590	21.9	14.3	10.2	<1
AQ241	718723,733585	22.5	14.4	10.2	<1
AQ242	718661,733518	23.7	14.6	10.3	<1
AQ243	718920,733790	22.3	14.4	10.2	<1
AQ244	718713,733581	22.2	14.4	10.2	<1

AQ245	718325,733692	22.2	14.4	10.2	<1
AQ246	718437,733560	21.8	14.3	10.2	1
AQ247	718699,733568	22.2	14.4	10.2	<1
AQ248	718460,733525	22.2	14.3	10.2	<1
AQ249	718452,733538	22.1	14.3	10.2	1
AQ250	718383,733643	23.1	14.5	10.3	<1
AQ251	718801,733984	22.6	14.5	10.3	<1
AQ252	718832,733973	23.3	14.6	10.4	<1
Air Quality Limit Value Objective		40	40	25	35

In the cumulative 2028 DM scenario annual mean concentrations of NO₂ are above the relevant national air quality limit value objective in some areas; 28 exceedances were modelled at receptors on Amiens St, Pearse St, Macken St, Tara St, Bridge St and North Wall Quay. Annual mean NO₂ concentrations exceed 60µg/m³ at three receptors on Pearse St, indicating that exceedances of the NO₂ 1-hour mean may occur. Annual mean PM₁₀ concentrations are below the relevant national air quality limit value objectives for all modelled receptors. At all receptors, modelling of the maximum 24-hour PM₁₀ concentration indicated that there is likely to be no more than seven exceedance of the 50µg/m³ ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean 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

DS (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	718095,733887	28.3	15.3	10.8	<1
AQ2	718105,733878	29.6	15.6	10.9	1
AQ3	718110,734000	21.3	14.2	10.1	1
AQ4	718121,733982	21.2	14.2	10.1	1
AQ5	718688,734009	22.4	14.4	10.2	<1
AQ6	718932,733934	29.9	15.4	10.8	<1
AQ9	717126,734113	45.0	17.3	12.0	1
AQ10	718150,733807	34.8	16.5	11.5	1
AQ11	718369,734083	23.0	14.5	10.3	<1
AQ12	718357,734077	22.2	14.4	10.2	<1
AQ13	718081,734146	21.7	14.3	10.2	<1
AQ14	718058,734151	21.6	14.3	10.2	<1
AQ15	716817,734197	24.5	14.6	10.4	<1
AQ16	717993,734183	21.9	14.3	10.2	<1
AQ17	717993,734100	21.4	14.2	10.1	1

AQ18	717993,734092	21.4	14.2	10.1	1
AQ19	717979,734171	21.4	14.3	10.1	1
AQ20	718451,734065	23.0	14.5	10.3	<1
AQ21	718624,734029	23.1	14.5	10.3	<1
AQ22	718009,733942	23.8	14.6	10.4	<1
AQ23	716893,734342	23.1	14.5	10.3	<1
AQ24	716776,734355	24.5	14.6	10.4	<1
AQ25	718003,733958	22.6	14.4	10.2	<1
AQ26	718514,734052	23.0	14.5	10.3	<1
AQ27	717993,733991	21.9	14.3	10.2	<1
AQ28	717991,734011	21.8	14.3	10.2	1
AQ29	717972,734020	21.3	14.2	10.1	1
AQ30	716610,734325	24.1	14.5	10.3	<1
AQ31	716573,734328	24.1	14.5	10.3	<1
AQ32	716517,734403	24.8	14.7	10.4	<1
AQ33	716531,734318	23.9	14.5	10.3	<1
AQ34	716511,734364	24.0	14.5	10.3	<1
AQ35	716493,734244	27.3	15.1	10.6	<1
AQ36	718073,733877	35.1	16.5	11.5	1
AQ37	718040,733867	43.9	17.9	12.3	2
AQ38	718208,733724	24.8	14.8	10.5	<1
AQ39	718256,733718	30.9	15.7	11.0	1
AQ40	718278,733702	30.7	15.6	11.0	1
AQ41	716627,734293	26.0	14.7	10.4	<1
AQ42	716620,734256	29.3	15.1	10.7	<1
AQ43	716605,734253	30.0	15.3	10.8	<1
AQ44	716603,734235	30.8	15.5	10.9	<1
AQ45	716593,734302	24.4	14.6	10.4	<1
AQ46	716538,734237	26.9	15.0	10.6	<1
AQ47	716565,734255	30.1	15.4	10.8	<1
AQ48	718230,733739	31.0	15.8	11.1	1
AQ49	717848,733841	31.3	15.7	11.0	1
AQ50	717789,733835	37.7	16.7	11.6	1
AQ51	718328,733638	23.7	14.5	10.3	<1
AQ52	718119,733857	33.4	16.2	11.3	1
AQ53	718114,733825	26.9	15.1	10.7	<1
AQ54	718059,733858	35.0	16.4	11.4	1
AQ55	718200,733766	30.3	15.7	11.0	1
AQ56	718139,733823	35.1	16.6	11.5	1
AQ57	717973,733842	37.6	16.8	11.7	1
AQ58	716505,734261	30.2	15.5	10.9	<1
AQ59	716450,734247	26.6	15.0	10.6	<1

AQ60	716431,734255	26.2	14.9	10.5	<1
AQ61	716388,734272	35.4	16.1	11.2	1
AQ62	716388,734258	26.3	14.8	10.5	<1
AQ63	716679,734355	24.0	14.5	10.3	<1
AQ64	716453,734415	25.4	14.7	10.4	<1
AQ65	716508,734334	25.3	14.7	10.4	<1
AQ66	718032,733851	37.1	16.8	11.6	1
AQ67	716764,734356	26.4	14.8	10.5	<1
AQ68	716400,734428	32.1	15.6	11.0	1
AQ69	716793,734180	24.0	14.6	10.3	<1
AQ70	716393,734347	32.3	15.6	11.0	1
AQ71	716756,734187	25.0	14.7	10.4	<1
AQ72	716912,734157	23.2	14.4	10.3	<1
AQ73	716665,734319	24.6	14.6	10.3	<1
AQ74	716751,734286	24.4	14.6	10.4	<1
AQ75	716643,734241	27.9	15.0	10.6	<1
AQ76	716743,734210	27.4	15.0	10.6	<1
AQ77	716633,734220	30.2	15.5	10.9	<1
AQ78	716614,734223	29.5	15.3	10.8	<1
AQ79	718334,733630	23.7	14.5	10.3	<1
AQ80	718298,733622	22.0	14.3	10.2	<1
AQ81	718263,733678	26.2	14.9	10.6	<1
AQ82	718266,733669	25.3	14.8	10.5	<1
AQ83	718099,734143	22.0	14.4	10.2	<1
AQ84	717307,734299	25.3	14.6	10.4	<1
AQ85	717331,734295	25.7	14.7	10.4	<1
AQ86	718889,733743	22.9	14.5	10.3	<1
AQ87	716579,734071	50.6	17.7	12.2	1
AQ88	716590,734091	60.2	18.9	13.0	2
AQ89	716784,734031	39.2	16.6	11.6	1
AQ90	716887,734000	38.5	16.4	11.4	1
AQ91	716880,733976	34.2	15.8	11.1	1
AQ92	716900,733998	39.4	16.4	11.5	1
AQ93	716897,733972	35.9	16.0	11.2	1
AQ94	716781,734007	32.2	15.6	11.0	1
AQ95	716655,734047	33.9	15.7	11.1	1
AQ96	716696,734057	37.4	16.5	11.5	1
AQ97	716573,734109	76.6	21.4	14.5	5
AQ98	716554,734102	48.6	18.0	12.4	2
AQ99	716981,733981	39.2	16.9	11.7	1
AQ101	717558,733852	28.4	15.2	10.7	<1
AQ102	717444,733895	38.4	16.6	11.5	1

AQ103	717676,733827	28.8	15.3	10.8	<1
AQ104	717280,733904	38.3	16.3	11.4	1
AQ105	716945,733963	32.0	15.6	11.0	1
AQ148	716318,734174	53.9	19.0	13.0	2
AQ107	716258,734278	27.3	15.0	10.6	<1
AQ108	716370,734161	40.8	17.1	11.9	1
AQ109	716422,734146	51.5	18.9	12.9	2
AQ110	716370,734136	34.0	16.0	11.2	1
AQ111	716366,734259	27.6	14.8	10.5	<1
AQ112	716382,734156	42.2	17.3	12.0	1
AQ113	716709,734158	27.6	15.1	10.6	<1
AQ114	716743,734065	36.8	16.5	11.5	1
AQ115	716766,734275	25.5	14.7	10.4	<1
AQ116	716148,734545	42.0	16.8	11.7	1
AQ117	716430,734745	36.2	16.3	11.4	1
AQ118	716322,734693	40.7	16.9	11.8	1
AQ119	716485,734869	47.2	18.4	12.6	2
AQ120	716011,734277	26.5	14.7	10.4	<1
AQ121	715934,734356	27.2	14.9	10.5	<1
AQ122	715921,734470	34.8	15.4	10.9	<1
AQ123	716946,735011	29.9	15.5	10.9	1
AQ124	716933,734994	27.3	15.0	10.6	<1
AQ125	717007,734904	23.7	14.6	10.3	<1
AQ126	717103,734844	26.7	15.0	10.6	<1
AQ127	717025,734920	28.4	15.3	10.8	<1
AQ128	716563,735038	38.5	16.8	11.7	1
AQ129	716520,734962	37.7	16.6	11.6	1
AQ130	717092,734810	26.2	14.8	10.5	<1
AQ131	717110,734771	26.6	14.8	10.5	<1
AQ132	717315,734130	25.7	14.7	10.4	<1
AQ133	717108,733931	43.1	17.0	11.8	1
AQ134	716853,733851	25.0	14.6	10.4	<1
AQ135	716868,733825	23.7	14.5	10.3	<1
AQ136	716900,733822	22.5	14.3	10.2	<1
AQ137	716902,733757	22.7	14.4	10.2	<1
AQ138	716912,733806	22.7	14.4	10.2	<1
AQ139	716934,733722	22.5	14.4	10.2	<1
AQ140	716917,733759	23.0	14.4	10.2	<1
AQ141	716967,733702	22.5	14.4	10.2	<1
AQ142	716901,733716	22.1	14.3	10.2	<1
AQ143	716955,733680	22.4	14.3	10.2	<1
AQ144	716983,733664	22.9	14.4	10.2	<1

AQ145	717003,733677	22.7	14.4	10.2	<1
AQ146	717021,733947	33.1	15.8	11.1	1
AQ147	716326,734258	26.8	14.8	10.5	<1
AQ156	716605,734086	50.3	17.5	12.2	1
AQ149	716314,734151	38.4	16.7	11.6	1
AQ150	716024,734299	26.7	14.7	10.4	<1
AQ151	716619,734369	23.6	14.5	10.3	<1
AQ152	716221,734265	38.5	16.5	11.5	1
AQ153	717134,733956	55.6	19.0	13.0	2
AQ154	717114,733969	67.1	20.9	14.2	5
AQ155	716595,734109	59.4	18.8	12.9	2
AQ106	716174,734420	56.5	18.5	12.8	2
AQ157	716483,734551	42.3	16.8	11.7	1
AQ158	716525,734547	37.1	16.5	11.5	1
AQ159	716629,734540	34.2	16.3	11.3	1
AQ160	716653,734538	34.4	16.3	11.4	1
AQ161	716689,734531	36.5	16.6	11.5	1
AQ162	716771,734524	44.3	16.7	11.6	1
AQ163	716787,734538	38.2	16.1	11.3	1
AQ164	716817,734521	35.8	16.3	11.4	1
AQ165	716895,734515	34.2	16.2	11.3	1
AQ166	716927,734513	34.5	16.1	11.3	1
AQ167	716961,734509	36.9	16.1	11.3	1
AQ168	717030,734505	37.7	16.1	11.3	1
AQ169	717097,734499	46.9	17.2	11.9	1
AQ170	717207,734488	35.4	16.2	11.3	1
AQ171	717264,734486	33.5	15.9	11.1	1
AQ172	717308,734481	34.8	16.0	11.2	1
AQ173	717326,734479	36.3	16.1	11.3	1
AQ174	717383,734475	34.9	15.9	11.1	1
AQ175	717405,734476	33.8	15.7	11.1	1
AQ176	717472,734472	33.6	15.7	11.0	1
AQ177	717528,734467	30.7	15.6	10.9	1
AQ178	717565,734460	24.3	14.7	10.4	<1
AQ179	717650,734451	24.5	14.7	10.4	<1
AQ180	717678,734448	25.0	14.8	10.4	<1
AQ181	717736,734441	29.8	15.5	10.9	<1
AQ182	717801,734432	30.7	15.6	10.9	1
AQ183	717855,734430	27.0	15.0	10.6	<1
AQ184	717907,734429	24.2	14.6	10.4	<1
AQ185	717958,734433	22.9	14.4	10.2	<1
AQ186	718008,734444	24.3	14.5	10.3	<1

AQ187	718026,734539	24.3	14.7	10.4	<1
AQ188	716872,734344	22.8	14.4	10.2	<1
AQ189	716921,734338	22.7	14.4	10.2	<1
AQ190	716945,734337	22.8	14.4	10.2	<1
AQ191	716959,734334	22.8	14.4	10.2	<1
AQ192	716996,734330	22.6	14.4	10.2	<1
AQ193	717046,734325	23.1	14.4	10.2	<1
AQ194	717084,734321	24.4	14.5	10.3	<1
AQ195	717119,734316	35.0	15.7	11.0	1
AQ196	717149,734312	40.5	16.4	11.5	1
AQ197	717170,734309	40.3	16.4	11.5	1
AQ198	717236,734306	25.0	14.6	10.4	<1
AQ199	717278,734303	24.9	14.6	10.4	<1
AQ200	717385,734289	23.6	14.5	10.3	<1
AQ201	717451,734283	24.1	14.5	10.3	<1
AQ202	717473,734279	25.0	14.6	10.4	<1
AQ203	717557,734268	22.4	14.3	10.2	<1
AQ204	717618,734264	22.1	14.3	10.2	<1
AQ205	717671,734261	22.0	14.3	10.2	1
AQ206	717761,734253	21.8	14.3	10.2	1
AQ207	717798,734247	21.5	14.2	10.1	1
AQ208	717936,734196	21.1	14.2	10.1	1
AQ209	717960,734185	21.2	14.2	10.1	1
AQ210	718005,734163	21.9	14.3	10.2	<1
AQ211	718118,734136	21.9	14.3	10.2	<1
AQ212	718139,734130	21.9	14.3	10.2	<1
AQ213	718162,734126	21.8	14.3	10.2	<1
AQ214	718190,734118	21.7	14.3	10.2	<1
AQ215	718259,734106	21.9	14.4	10.2	<1
AQ216	718302,734096	22.0	14.4	10.2	<1
AQ217	718183,733744	24.5	14.7	10.4	<1
AQ218	718303,734097	22.0	14.4	10.2	<1
AQ219	718210,734040	21.1	14.2	10.1	1
AQ220	718207,734118	21.9	14.4	10.2	<1
AQ221	718331,734089	22.0	14.4	10.2	<1
AQ222	718197,734035	21.1	14.2	10.1	1
AQ223	716424,734351	25.1	14.7	10.4	<1
AQ224	716475,734363	23.7	14.5	10.3	<1
AQ225	716473,734342	24.2	14.6	10.3	<1
AQ226	716450,734396	24.1	14.5	10.3	<1
AQ227	716427,734382	24.6	14.6	10.4	<1
AQ228	718618,733503	22.3	14.4	10.2	<1

AQ229	718313,733658	24.7	14.7	10.4	<1
AQ230	718524,733520	21.8	14.3	10.2	1
AQ231	718510,733542	21.5	14.2	10.1	1
AQ232	718394,733621	22.1	14.3	10.2	<1
AQ233	718924,733817	22.4	14.4	10.2	<1
AQ234	718686,733534	23.7	14.6	10.4	<1
AQ235	718324,733674	23.5	14.5	10.3	<1
AQ236	718594,733497	22.6	14.4	10.3	<1
AQ237	718836,733692	22.8	14.4	10.3	<1
AQ238	718769,733633	22.2	14.4	10.2	<1
AQ239	718913,733904	23.8	14.6	10.3	<1
AQ240	718423,733590	21.9	14.3	10.2	<1
AQ241	718723,733585	22.3	14.4	10.2	<1
AQ242	718661,733518	23.3	14.6	10.3	<1
AQ243	718920,733790	22.4	14.4	10.2	<1
AQ244	718713,733581	22.0	14.3	10.2	<1
AQ245	718325,733692	22.3	14.4	10.2	<1
AQ246	718437,733560	21.9	14.3	10.2	1
AQ247	718699,733568	22.0	14.4	10.2	<1
AQ248	718460,733525	22.2	14.3	10.2	<1
AQ249	718452,733538	22.1	14.3	10.2	<1
AQ250	718383,733643	22.9	14.5	10.3	<1
AQ251	718801,733984	23.6	14.5	10.3	<1
AQ252	718832,733973	24.5	14.7	10.4	<1
Air Quality Limit Value Objective		40	40	25	35

In the cumulative 2028 DS scenario annual mean concentrations of NO₂ are above the relevant national air quality limit value objective in some areas; 24 exceedances were modelled at receptors on Amiens St, Pearse St, Macken St, Tara St, Bridge St and North Wall Quay. This is a decrease from the 28 exceedances modelled in the DM scenario. Annual mean NO₂ concentrations exceed 60µg/m³ at three receptors on Pearse St, indicating that exceedances of the NO₂ 1-hour mean may occur. Annual mean PM₁₀ concentrations are below the relevant national air quality limit value objective for all modelled receptors. At all receptors, modelling of the maximum 24-hour PM₁₀ concentration indicated that there is likely to be no more than five exceedance of the 50µg/m³ ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean 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. ($\mu\text{g}/\text{m}^3$)			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}	$\text{PM}_{2.5}$
AQ1	718095,733887	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ2	718105,733878	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ3	718110,734000	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ4	718121,733982	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ5	718688,734009	0.7	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ6	718932,733934	2.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ9	717126,734113	-20.0	-3.3	-2.0	-3	Substantial Beneficial	Negligible	Negligible
AQ10	718150,733807	1.2	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ11	718369,734083	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ12	718357,734077	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ13	718081,734146	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ14	718058,734151	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ15	716817,734197	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ16	717993,734183	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ17	717993,734100	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ18	717993,734092	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ19	717979,734171	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ20	718451,734065	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ21	718624,734029	1.1	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ22	718009,733942	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ23	716893,734342	-1.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ24	716776,734355	-3.1	-0.4	-0.3	<1	Negligible	Negligible	Negligible
AQ25	718003,733958	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ26	718514,734052	1.1	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ27	717993,733991	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ28	717991,734011	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ29	717972,734020	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ30	716610,734325	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ31	716573,734328	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ32	716517,734403	-5.5	-0.9	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ33	716531,734318	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ34	716511,734364	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ35	716493,734244	1.9	0.3	0.2	<1	Negligible	Negligible	Negligible
AQ36	718073,733877	1.2	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ37	718040,733867	1.8	0.2	0.1	1	Slight Adverse	Negligible	Negligible
AQ38	718208,733724	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ39	718256,733718	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ40	718278,733702	0.9	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}	$\text{PM}_{2.5}$
AQ41	716627,734293	-1.7	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ42	716620,734256	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ43	716605,734253	1.4	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ44	716603,734235	1.8	0.3	0.2	<1	Negligible	Negligible	Negligible
AQ45	716593,734302	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ46	716538,734237	1.4	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ47	716565,734255	2.5	0.4	0.2	<1	Slight Adverse	Negligible	Negligible
AQ48	718230,733739	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ49	717848,733841	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ50	717789,733835	0.5	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ51	718328,733638	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ52	718119,733857	1.1	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ53	718114,733825	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ54	718059,733858	1.2	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ55	718200,733766	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ56	718139,733823	1.2	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ57	717973,733842	1.1	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ58	716505,734261	2.8	0.4	0.2	<1	Slight Adverse	Negligible	Negligible
AQ59	716450,734247	1.6	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ60	716431,734255	1.5	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ61	716388,734272	5.3	0.7	0.4	<1	Slight Adverse	Negligible	Negligible
AQ62	716388,734258	1.4	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ63	716679,734355	-2.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ64	716453,734415	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ65	716508,734334	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ66	718032,733851	1.2	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ67	716764,734356	-4.0	-0.6	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ68	716400,734428	3.1	0.4	0.3	<1	Slight Adverse	Negligible	Negligible
AQ69	716793,734180	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ70	716393,734347	4.1	0.6	0.4	<1	Slight Adverse	Negligible	Negligible
AQ71	716756,734187	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ72	716912,734157	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ73	716665,734319	-2.0	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ74	716751,734286	-1.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ75	716643,734241	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ76	716743,734210	0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ77	716633,734220	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ78	716614,734223	0.6	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}	$\text{PM}_{2.5}$
AQ79	718334,733630	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ80	718298,733622	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ81	718263,733678	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ82	718266,733669	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ83	718099,734143	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ84	717307,734299	-2.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ85	717331,734295	-3.3	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ86	718889,733743	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ87	716579,734071	2.6	0.3	0.2	<1	Moderate Adverse	Negligible	Negligible
AQ88	716590,734091	2.5	0.4	0.2	<1	Moderate Adverse	Negligible	Negligible
AQ89	716784,734031	2.2	0.3	0.2	<1	Moderate Adverse	Negligible	Negligible
AQ90	716887,734000	1.3	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ91	716880,733976	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ92	716900,733998	0.9	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ93	716897,733972	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ94	716781,734007	0.7	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ95	716655,734047	1.4	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ96	716696,734057	1.7	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ97	716573,734109	0.8	0.4	0.3	<1	Slight Adverse	Negligible	Negligible
AQ98	716554,734102	1.3	0.2	0.1	1	Slight Adverse	Negligible	Negligible
AQ99	716981,733981	3.4	0.5	0.3	<1	Moderate Adverse	Negligible	Negligible
AQ101	717558,733852	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ102	717444,733895	-0.2	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ103	717676,733827	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ104	717280,733904	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ105	716945,733963	1.1	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ148	716318,734174	3.0	0.4	0.3	<1	Moderate Adverse	Negligible	Negligible
AQ107	716258,734278	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ108	716370,734161	1.5	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ109	716422,734146	1.1	0.4	0.2	<1	Slight Adverse	Negligible	Negligible
AQ110	716370,734136	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ111	716366,734259	1.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ112	716382,734156	1.1	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ113	716709,734158	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ114	716743,734065	1.8	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ115	716766,734275	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ116	716148,734545	1.7	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ117	716430,734745	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 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}	$\text{PM}_{2.5}$
AQ118	716322,734693	1.7	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ119	716485,734869	1.3	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ120	716011,734277	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ121	715934,734356	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ122	715921,734470	0.7	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ123	716946,735011	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ124	716933,734994	-0.6	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ125	717007,734904	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ126	717103,734844	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ127	717025,734920	1.1	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ128	716563,735038	1.3	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ129	716520,734962	0.8	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ130	717092,734810	0.7	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ131	717110,734771	0.7	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ132	717315,734130	1.2	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ133	717108,733931	1.0	<0.1	<0.1	<1	Slight Adverse	Negligible	Negligible
AQ134	716853,733851	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ135	716868,733825	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ136	716900,733822	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ137	716902,733757	-1.0	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ138	716912,733806	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ139	716934,733722	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ140	716917,733759	-1.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ141	716967,733702	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ142	716901,733716	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ143	716955,733680	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ144	716983,733664	-1.6	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ145	717003,733677	-1.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ146	717021,733947	1.4	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ147	716326,734258	0.7	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ156	716605,734086	2.8	0.3	0.2	<1	Moderate Adverse	Negligible	Negligible
AQ149	716314,734151	1.7	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ150	716024,734299	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ151	716619,734369	-3.0	-0.4	-0.3	<1	Negligible	Negligible	Negligible
AQ152	716221,734265	0.5	0.1	<0.1	<1	Slight Adverse	Negligible	Negligible
AQ153	717134,733956	-2.9	-0.7	-0.4	-1	Moderate Beneficial	Negligible	Negligible
AQ154	717114,733969	-6.1	-1.6	-0.9	-2	Substantial Beneficial	Negligible	Negligible
AQ155	716595,734109	1.1	0.3	0.2	<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}	$\text{PM}_{2.5}$
AQ106	716174,734420	4.3	0.5	0.3	<1	Substantial Adverse	Negligible	Negligible
AQ157	716483,734551	-0.5	<0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ158	716525,734547	-1.0	-0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ159	716629,734540	-1.7	-0.2	-0.1	<1	Slight Beneficial	Negligible	Negligible
AQ160	716653,734538	-1.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ161	716689,734531	-1.6	-0.2	-0.1	<1	Slight Beneficial	Negligible	Negligible
AQ162	716771,734524	-3.6	-0.4	-0.3	<1	Moderate Beneficial	Negligible	Negligible
AQ163	716787,734538	-4.3	-0.6	-0.4	<1	Substantial Beneficial	Negligible	Negligible
AQ164	716817,734521	-6.1	-0.7	-0.4	<1	Substantial Beneficial	Negligible	Negligible
AQ165	716895,734515	-6.3	-0.7	-0.5	<1	Substantial Beneficial	Negligible	Negligible
AQ166	716927,734513	-5.6	-0.7	-0.4	<1	Substantial Beneficial	Negligible	Negligible
AQ167	716961,734509	-3.8	-0.7	-0.4	<1	Moderate Beneficial	Negligible	Negligible
AQ168	717030,734505	-2.9	-0.6	-0.4	<1	Moderate Beneficial	Negligible	Negligible
AQ169	717097,734499	-2.1	-0.4	-0.3	<1	Moderate Beneficial	Negligible	Negligible
AQ170	717207,734488	-0.6	-0.3	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ171	717264,734486	-0.4	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ172	717308,734481	-0.2	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ173	717326,734479	0.5	-0.4	-0.2	<1	Slight Adverse	Negligible	Negligible
AQ174	717383,734475	1.4	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ175	717405,734476	1.3	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ176	717472,734472	1.1	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ177	717528,734467	-0.3	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ178	717565,734460	-0.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ179	717650,734451	-0.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ180	717678,734448	-0.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ181	717736,734441	-1.7	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ182	717801,734432	-1.9	-0.4	-0.3	<1	Negligible	Negligible	Negligible
AQ183	717855,734430	-1.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ184	717907,734429	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ185	717958,734433	-1.4	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ186	718008,734444	-1.2	-0.4	-0.3	<1	Negligible	Negligible	Negligible
AQ187	718026,734539	-0.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ188	716872,734344	-1.0	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ189	716921,734338	-1.0	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ190	716945,734337	-1.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ191	716959,734334	-1.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ192	716996,734330	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ193	717046,734325	-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 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}	$\text{PM}_{2.5}$
AQ194	717084,734321	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ195	717119,734316	-0.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ196	717149,734312	-0.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ197	717170,734309	-0.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ198	717236,734306	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ199	717278,734303	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ200	717385,734289	-2.5	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ201	717451,734283	-2.9	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ202	717473,734279	-3.3	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ203	717557,734268	-1.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ204	717618,734264	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ205	717671,734261	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ206	717761,734253	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ207	717798,734247	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ208	717936,734196	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ209	717960,734185	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ210	718005,734163	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ211	718118,734136	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ212	718139,734130	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ213	718162,734126	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ214	718190,734118	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ215	718259,734106	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ216	718302,734096	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ217	718183,733744	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ218	718303,734097	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ219	718210,734040	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ220	718207,734118	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ221	718331,734089	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ222	718197,734035	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ223	716424,734351	0.7	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ224	716475,734363	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ225	716473,734342	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ226	716450,734396	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ227	716427,734382	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ228	718618,733503	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ229	718313,733658	0.9	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ230	718524,733520	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ231	718510,733542	<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}	$\text{PM}_{2.5}$
AQ232	718394,733621	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ233	718924,733817	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ234	718686,733534	-0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ235	718324,733674	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ236	718594,733497	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ237	718836,733692	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ238	718769,733633	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ239	718913,733904	0.9	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ240	718423,733590	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ241	718723,733585	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ242	718661,733518	-0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ243	718920,733790	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ244	718713,733581	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ245	718325,733692	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ246	718437,733560	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ247	718699,733568	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ248	718460,733525	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ249	718452,733538	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ250	718383,733643	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ251	718801,733984	1.0	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ252	718832,733973	1.2	<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 seven receptors, a moderate beneficial impact at five receptors and a substantial beneficial impact at six receptors due to the diversion of traffic off the Proposed Scheme routes. A slight adverse impact is expected at 29 receptors, a moderate adverse impact at six receptors on Pearse St and one substantial adverse impact on Tara St. These localised moderate and substantial 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.

3. Design Traffic Assessment

3.1 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 2043 DM scenario are listed in Table 3.1. Locations of these receptors are shown in Figures 7.3 – 7.5 in Volume 3 of this EIAR.

Table 3.1: Predicted Cumulative 2043 Do Minimum Design Scenario Pollutant Statistics At All Modelled Receptor Locations

DM (2043)					
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	718095,733887	25.7	15.5	10.8	1
AQ2	718105,733878	25.9	15.7	10.9	1
AQ3	718110,734000	22.2	14.6	10.4	<1
AQ4	718121,733982	21.7	14.5	10.3	<1
AQ5	718688,734009	20.9	14.3	10.2	<1
AQ6	718932,733934	25.2	15.1	10.6	<1
AQ9	717126,734113	31.1	16.2	11.2	1
AQ10	718150,733807	27.7	16.4	11.3	1
AQ11	718369,734083	21.8	14.6	10.3	<1
AQ12	718357,734077	21.9	14.6	10.3	<1
AQ13	718081,734146	20.6	14.2	10.1	1
AQ14	718058,734151	20.6	14.2	10.1	1
AQ15	716817,734197	22.0	14.5	10.2	<1
AQ16	717993,734183	20.7	14.2	10.1	1
AQ17	717993,734100	20.6	14.2	10.1	1
AQ18	717993,734092	20.6	14.2	10.1	1
AQ19	717979,734171	20.5	14.2	10.1	1
AQ20	718451,734065	21.2	14.4	10.2	<1
AQ21	718624,734029	21.2	14.4	10.2	<1
AQ22	718009,733942	30.8	15.9	11.1	1
AQ23	716893,734342	20.8	14.2	10.1	1
AQ24	716776,734355	21.6	14.4	10.2	<1
AQ25	718003,733958	24.9	15.0	10.6	<1
AQ26	718514,734052	21.1	14.4	10.2	<1
AQ27	717993,733991	21.5	14.4	10.2	<1
AQ28	717991,734011	21.2	14.3	10.2	<1
AQ29	717972,734020	20.7	14.2	10.1	1
AQ30	716610,734325	21.2	14.4	10.2	<1
AQ31	716573,734328	21.2	14.4	10.2	<1
AQ32	716517,734403	21.7	14.5	10.2	<1
AQ33	716531,734318	21.2	14.4	10.2	<1

AQ34	716511,734364	21.1	14.3	10.2	<1
AQ35	716493,734244	22.9	14.9	10.5	<1
AQ36	718073,733877	30.5	16.7	11.5	1
AQ37	718040,733867	45.3	19.7	13.2	3
AQ38	718208,733724	22.3	14.7	10.4	<1
AQ39	718256,733718	25.3	15.5	10.8	1
AQ40	718278,733702	25.2	15.5	10.8	1
AQ41	716627,734293	21.5	14.4	10.2	<1
AQ42	716620,734256	22.9	14.8	10.4	<1
AQ43	716605,734253	23.7	15.1	10.6	<1
AQ44	716603,734235	24.1	15.2	10.6	<1
AQ45	716593,734302	21.4	14.4	10.2	<1
AQ46	716538,734237	22.6	14.8	10.4	<1
AQ47	716565,734255	24.0	15.1	10.6	<1
AQ48	718230,733739	25.5	15.7	10.9	1
AQ49	717848,733841	27.4	16.0	11.1	1
AQ50	717789,733835	31.3	17.0	11.6	1
AQ51	718328,733638	21.7	14.5	10.3	<1
AQ52	718119,733857	27.4	16.2	11.2	1
AQ53	718114,733825	23.7	15.1	10.6	<1
AQ54	718059,733858	30.8	16.7	11.5	1
AQ55	718200,733766	25.2	15.6	10.9	1
AQ56	718139,733823	28.0	16.5	11.3	1
AQ57	717973,733842	32.4	17.5	11.9	1
AQ58	716505,734261	24.0	15.2	10.6	<1
AQ59	716450,734247	22.5	14.8	10.4	<1
AQ60	716431,734255	22.3	14.7	10.4	<1
AQ61	716388,734272	26.1	15.7	10.9	1
AQ62	716388,734258	22.2	14.7	10.4	<1
AQ63	716679,734355	21.3	14.3	10.2	<1
AQ64	716453,734415	22.0	14.5	10.3	<1
AQ65	716508,734334	21.3	14.4	10.2	<1
AQ66	718032,733851	34.1	17.6	11.9	1
AQ67	716764,734356	22.3	14.5	10.3	<1
AQ68	716400,734428	24.9	15.2	10.7	<1
AQ69	716793,734180	21.7	14.4	10.2	<1
AQ70	716393,734347	24.8	15.2	10.7	<1
AQ71	716756,734187	22.2	14.5	10.3	<1
AQ72	716912,734157	21.3	14.3	10.2	<1
AQ73	716665,734319	21.2	14.4	10.2	<1
AQ74	716751,734286	21.6	14.4	10.2	<1
AQ75	716643,734241	22.5	14.7	10.4	<1

AQ76	716743,734210	23.1	14.7	10.4	<1
AQ77	716633,734220	23.6	15.1	10.6	<1
AQ78	716614,734223	23.3	15.0	10.5	<1
AQ79	718334,733630	21.7	14.5	10.3	<1
AQ80	718298,733622	20.8	14.3	10.2	1
AQ81	718263,733678	22.9	14.8	10.5	<1
AQ82	718266,733669	22.4	14.7	10.4	<1
AQ83	718099,734143	20.9	14.3	10.2	1
AQ84	717307,734299	21.4	14.3	10.2	<1
AQ85	717331,734295	21.4	14.3	10.2	<1
AQ86	718889,733743	21.2	14.4	10.2	<1
AQ87	716579,734071	33.6	16.9	11.6	1
AQ88	716590,734091	38.0	17.8	12.1	1
AQ89	716784,734031	28.9	16.0	11.1	1
AQ90	716887,734000	28.4	15.8	11.0	1
AQ91	716880,733976	26.7	15.4	10.7	<1
AQ92	716900,733998	29.2	15.8	11.0	1
AQ93	716897,733972	27.8	15.5	10.8	1
AQ94	716781,734007	25.3	15.2	10.7	<1
AQ95	716655,734047	26.3	15.3	10.7	<1
AQ96	716696,734057	28.4	15.9	11.0	1
AQ97	716573,734109	43.8	19.7	13.1	3
AQ98	716554,734102	32.6	17.2	11.7	1
AQ99	716981,733981	29.3	16.3	11.3	1
AQ101	717558,733852	24.3	15.1	10.6	<1
AQ102	717444,733895	28.5	16.0	11.1	1
AQ103	717676,733827	24.6	15.2	10.7	<1
AQ104	717280,733904	28.2	15.6	10.9	1
AQ105	716945,733963	25.4	15.2	10.7	<1
AQ106	716174,734420	35.8	17.4	11.9	1
AQ107	716258,734278	22.4	14.8	10.4	<1
AQ108	716370,734161	29.3	16.5	11.3	1
AQ109	716422,734146	34.8	17.8	12.1	1
AQ110	716370,734136	26.1	15.6	10.9	1
AQ111	716366,734259	22.4	14.7	10.4	<1
AQ112	716382,734156	29.9	16.6	11.4	1
AQ113	716709,734158	23.6	14.8	10.5	<1
AQ114	716743,734065	28.5	16.0	11.1	1
AQ115	716766,734275	22.1	14.5	10.2	<1
AQ116	716148,734545	28.2	16.1	11.1	1
AQ117	716430,734745	26.1	15.7	10.9	1
AQ118	716322,734693	28.4	16.3	11.2	1

AQ119	716485,734869	30.7	17.4	11.8	1
AQ120	716011,734277	21.3	14.5	10.3	<1
AQ121	715934,734356	21.7	14.7	10.4	<1
AQ122	715921,734470	23.6	15.1	10.6	<1
AQ123	716946,735011	25.0	15.2	10.7	<1
AQ124	716933,734994	23.5	14.8	10.4	<1
AQ125	717007,734904	21.6	14.4	10.2	<1
AQ126	717103,734844	23.0	14.7	10.4	<1
AQ127	717025,734920	24.2	15.1	10.6	<1
AQ128	716563,735038	26.7	16.1	11.2	1
AQ129	716520,734962	26.4	16.0	11.1	1
AQ130	717092,734810	22.4	14.6	10.3	<1
AQ131	717110,734771	22.3	14.5	10.3	<1
AQ132	717315,734130	21.6	14.4	10.2	<1
AQ133	717108,733931	31.2	16.3	11.3	1
AQ134	716853,733851	22.3	14.5	10.3	<1
AQ135	716868,733825	21.5	14.4	10.2	<1
AQ136	716900,733822	20.9	14.2	10.1	1
AQ137	716902,733757	20.9	14.2	10.1	1
AQ138	716912,733806	20.8	14.2	10.1	1
AQ139	716934,733722	20.9	14.2	10.1	1
AQ140	716917,733759	20.9	14.2	10.1	1
AQ141	716967,733702	20.9	14.2	10.1	1
AQ142	716901,733716	20.7	14.2	10.1	1
AQ143	716955,733680	20.6	14.2	10.1	1
AQ144	716983,733664	21.0	14.3	10.1	1
AQ145	717003,733677	21.0	14.3	10.1	1
AQ146	717021,733947	26.1	15.5	10.8	<1
AQ147	716326,734258	22.1	14.6	10.3	<1
AQ148	716318,734174	35.4	17.8	12.1	1
AQ149	716314,734151	28.2	16.1	11.2	1
AQ150	716024,734299	21.4	14.6	10.3	<1
AQ151	716619,734369	21.3	14.3	10.2	<1
AQ152	716221,734265	27.5	15.9	11.0	1
AQ153	717134,733956	37.4	17.7	12.0	1
AQ154	717114,733969	43.6	19.1	12.8	3
AQ155	716595,734109	36.3	17.6	12.0	1
AQ156	716605,734086	34.0	16.7	11.5	1
AQ157	716483,734551	29.7	16.2	11.2	1
AQ158	716525,734547	26.7	16.0	11.1	1
AQ159	716629,734540	25.2	15.8	10.9	1
AQ160	716653,734538	25.3	15.8	10.9	1

AQ161	716689,734531	26.1	16.0	11.0	1
AQ162	716771,734524	30.3	16.0	11.1	1
AQ163	716787,734538	27.6	15.5	10.8	1
AQ164	716817,734521	25.8	15.7	10.9	1
AQ165	716895,734515	24.9	15.6	10.9	1
AQ166	716927,734513	24.8	15.6	10.8	1
AQ167	716961,734509	25.1	15.6	10.9	1
AQ168	717030,734505	25.4	15.6	10.9	1
AQ169	717097,734499	30.3	16.3	11.3	1
AQ170	717207,734488	26.3	15.7	10.9	1
AQ171	717264,734486	25.5	15.5	10.8	<1
AQ172	717308,734481	25.9	15.5	10.8	1
AQ173	717326,734479	26.1	15.5	10.8	1
AQ174	717383,734475	24.8	15.4	10.7	<1
AQ175	717405,734476	24.4	15.3	10.7	<1
AQ176	717472,734472	24.0	15.2	10.7	<1
AQ177	717528,734467	23.2	15.1	10.6	<1
AQ178	717565,734460	21.1	14.5	10.2	<1
AQ179	717650,734451	21.2	14.5	10.3	<1
AQ180	717678,734448	21.3	14.5	10.3	<1
AQ181	717736,734441	22.9	15.0	10.6	<1
AQ182	717801,734432	23.1	15.2	10.6	<1
AQ183	717855,734430	21.8	14.7	10.4	<1
AQ184	717907,734429	21.0	14.4	10.2	<1
AQ185	717958,734433	20.6	14.3	10.1	1
AQ186	718008,734444	20.9	14.3	10.2	1
AQ187	718026,734539	21.0	14.4	10.2	<1
AQ188	716872,734344	20.8	14.2	10.1	1
AQ189	716921,734338	20.8	14.2	10.1	1
AQ190	716945,734337	20.8	14.2	10.1	1
AQ191	716959,734334	20.8	14.2	10.1	1
AQ192	716996,734330	20.8	14.2	10.1	1
AQ193	717046,734325	21.0	14.3	10.1	1
AQ194	717084,734321	21.5	14.3	10.2	<1
AQ195	717119,734316	25.5	15.1	10.6	<1
AQ196	717149,734312	27.5	15.5	10.8	1
AQ197	717170,734309	27.3	15.5	10.8	1
AQ198	717236,734306	21.6	14.4	10.2	<1
AQ199	717278,734303	21.4	14.3	10.2	<1
AQ200	717385,734289	20.8	14.2	10.1	1
AQ201	717451,734283	20.7	14.2	10.1	1
AQ202	717473,734279	20.7	14.2	10.1	1

AQ203	717557,734268	20.4	14.2	10.1	1
AQ204	717618,734264	20.3	14.2	10.1	1
AQ205	717671,734261	20.3	14.1	10.1	1
AQ206	717761,734253	20.3	14.1	10.1	1
AQ207	717798,734247	20.2	14.1	10.1	1
AQ208	717936,734196	20.3	14.1	10.1	1
AQ209	717960,734185	20.3	14.1	10.1	1
AQ210	718005,734163	20.7	14.3	10.1	1
AQ211	718118,734136	20.8	14.3	10.1	1
AQ212	718139,734130	20.8	14.3	10.1	1
AQ213	718162,734126	20.7	14.2	10.1	1
AQ214	718190,734118	20.7	14.3	10.1	1
AQ215	718259,734106	20.9	14.3	10.2	<1
AQ216	718302,734096	21.2	14.4	10.2	<1
AQ217	718183,733744	22.2	14.7	10.4	<1
AQ218	718303,734097	21.2	14.4	10.2	<1
AQ219	718210,734040	21.4	14.4	10.2	<1
AQ220	718207,734118	20.8	14.3	10.1	1
AQ221	718331,734089	21.7	14.5	10.3	<1
AQ222	718197,734035	21.4	14.4	10.2	<1
AQ223	716424,734351	21.7	14.5	10.2	<1
AQ224	716475,734363	21.2	14.4	10.2	<1
AQ225	716473,734342	21.3	14.4	10.2	<1
AQ226	716450,734396	21.4	14.4	10.2	<1
AQ227	716427,734382	21.6	14.4	10.2	<1
AQ228	718618,733503	21.0	14.3	10.2	<1
AQ229	718313,733658	22.2	14.6	10.4	<1
AQ230	718524,733520	20.7	14.2	10.1	1
AQ231	718510,733542	20.5	14.2	10.1	1
AQ232	718394,733621	20.7	14.3	10.1	1
AQ233	718924,733817	20.9	14.3	10.2	1
AQ234	718686,733534	21.6	14.6	10.3	<1
AQ235	718324,733674	21.4	14.4	10.2	<1
AQ236	718594,733497	21.1	14.4	10.2	<1
AQ237	718836,733692	21.1	14.4	10.2	<1
AQ238	718769,733633	20.8	14.3	10.2	<1
AQ239	718913,733904	21.7	14.4	10.2	<1
AQ240	718423,733590	20.7	14.2	10.1	1
AQ241	718723,733585	20.9	14.3	10.2	<1
AQ242	718661,733518	21.4	14.5	10.3	<1
AQ243	718920,733790	21.0	14.3	10.2	<1
AQ244	718713,733581	20.8	14.3	10.2	<1

AQ245	718325,733692	20.9	14.3	10.2	<1
AQ246	718437,733560	20.7	14.2	10.1	1
AQ247	718699,733568	20.8	14.3	10.2	<1
AQ248	718460,733525	20.8	14.3	10.1	1
AQ249	718452,733538	20.8	14.2	10.1	1
AQ250	718383,733643	21.0	14.4	10.2	<1
AQ251	718801,733984	21.6	14.4	10.2	<1
AQ252	718832,733973	22.0	14.5	10.2	<1
Air Quality Limit Value Objective		40	40	25	35

In the cumulative 2043 DM scenario annual mean concentrations of NO₂ are above the relevant national air quality limit value objective in some areas; five exceedances were modelled at receptors on Pearse St and Bridge St. Annual mean NO₂ concentrations did not exceed 60µg/m³, indicating that exceedances of the NO₂ 1-hour mean is unlikely to occur. Annual mean PM₁₀ concentrations are below the relevant national air quality limit value objectives for all modelled receptors. At all receptors, modelling of the maximum 24-hour PM₁₀ concentration indicated that there is likely to be no more than five exceedance of the 50µg/m³ ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean PM_{2.5} concentrations are also below the relevant national air quality limit value limit value objectives for all modelled receptors.

3.2 '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 2043 DS scenario are listed in Table 3.2. Locations of these receptors are shown in Figures 7.3 – 7.5 in Volume 3 of this EIAR.

Table 3.2: Predicted Cumulative 2043 Do Something Design Scenario Pollutant Statistics At All Modelled Receptor Locations

DS (2043)					
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	718095,733887	25.7	15.5	10.8	1
AQ2	718105,733878	25.9	15.7	10.9	1
AQ3	718110,734000	22.2	14.6	10.4	<1
AQ4	718121,733982	21.7	14.5	10.3	<1
AQ5	718688,734009	20.9	14.3	10.2	<1
AQ6	718932,733934	25.2	15.1	10.6	<1
AQ9	717126,734113	31.1	16.2	11.2	1
AQ10	718150,733807	27.7	16.4	11.3	1
AQ11	718369,734083	21.8	14.6	10.3	<1
AQ12	718357,734077	21.9	14.6	10.3	<1
AQ13	718081,734146	20.6	14.2	10.1	1
AQ14	718058,734151	20.6	14.2	10.1	1
AQ15	716817,734197	22.0	14.5	10.2	<1
AQ16	717993,734183	20.7	14.2	10.1	1
AQ17	717993,734100	20.6	14.2	10.1	1
AQ18	717993,734092	20.6	14.2	10.1	1
AQ19	717979,734171	20.5	14.2	10.1	1

AQ20	718451,734065	21.2	14.4	10.2	<1
AQ21	718624,734029	21.2	14.4	10.2	<1
AQ22	718009,733942	30.8	15.9	11.1	1
AQ23	716893,734342	20.8	14.2	10.1	1
AQ24	716776,734355	21.6	14.4	10.2	<1
AQ25	718003,733958	24.9	15.0	10.6	<1
AQ26	718514,734052	21.1	14.4	10.2	<1
AQ27	717993,733991	21.5	14.4	10.2	<1
AQ28	717991,734011	21.2	14.3	10.2	<1
AQ29	717972,734020	20.7	14.2	10.1	1
AQ30	716610,734325	21.2	14.4	10.2	<1
AQ31	716573,734328	21.2	14.4	10.2	<1
AQ32	716517,734403	21.7	14.5	10.2	<1
AQ33	716531,734318	21.2	14.4	10.2	<1
AQ34	716511,734364	21.1	14.3	10.2	<1
AQ35	716493,734244	22.9	14.9	10.5	<1
AQ36	718073,733877	30.5	16.7	11.5	1
AQ37	718040,733867	45.3	19.7	13.2	3
AQ38	718208,733724	22.3	14.7	10.4	<1
AQ39	718256,733718	25.3	15.5	10.8	1
AQ40	718278,733702	25.2	15.5	10.8	1
AQ41	716627,734293	21.5	14.4	10.2	<1
AQ42	716620,734256	22.9	14.8	10.4	<1
AQ43	716605,734253	23.7	15.1	10.6	<1
AQ44	716603,734235	24.1	15.2	10.6	<1
AQ45	716593,734302	21.4	14.4	10.2	<1
AQ46	716538,734237	22.6	14.8	10.4	<1
AQ47	716565,734255	24.0	15.1	10.6	<1
AQ48	718230,733739	25.5	15.7	10.9	1
AQ49	717848,733841	27.4	16.0	11.1	1
AQ50	717789,733835	31.3	17.0	11.6	1
AQ51	718328,733638	21.7	14.5	10.3	<1
AQ52	718119,733857	27.4	16.2	11.2	1
AQ53	718114,733825	23.7	15.1	10.6	<1
AQ54	718059,733858	30.8	16.7	11.5	1
AQ55	718200,733766	25.2	15.6	10.9	1
AQ56	718139,733823	28.0	16.5	11.3	1
AQ57	717973,733842	32.4	17.5	11.9	1
AQ58	716505,734261	24.0	15.2	10.6	<1
AQ59	716450,734247	22.5	14.8	10.4	<1
AQ60	716431,734255	22.3	14.7	10.4	<1
AQ61	716388,734272	26.1	15.7	10.9	1

AQ62	716388,734258	22.2	14.7	10.4	<1
AQ63	716679,734355	21.3	14.3	10.2	<1
AQ64	716453,734415	22.0	14.5	10.3	<1
AQ65	716508,734334	21.3	14.4	10.2	<1
AQ66	718032,733851	34.1	17.6	11.9	1
AQ67	716764,734356	22.3	14.5	10.3	<1
AQ68	716400,734428	24.9	15.2	10.7	<1
AQ69	716793,734180	21.7	14.4	10.2	<1
AQ70	716393,734347	24.8	15.2	10.7	<1
AQ71	716756,734187	22.2	14.5	10.3	<1
AQ72	716912,734157	21.3	14.3	10.2	<1
AQ73	716665,734319	21.2	14.4	10.2	<1
AQ74	716751,734286	21.6	14.4	10.2	<1
AQ75	716643,734241	22.5	14.7	10.4	<1
AQ76	716743,734210	23.1	14.7	10.4	<1
AQ77	716633,734220	23.6	15.1	10.6	<1
AQ78	716614,734223	23.3	15.0	10.5	<1
AQ79	718334,733630	21.7	14.5	10.3	<1
AQ80	718298,733622	20.8	14.3	10.2	1
AQ81	718263,733678	22.9	14.8	10.5	<1
AQ82	718266,733669	22.4	14.7	10.4	<1
AQ83	718099,734143	20.9	14.3	10.2	1
AQ84	717307,734299	21.4	14.3	10.2	<1
AQ85	717331,734295	21.4	14.3	10.2	<1
AQ86	718889,733743	21.2	14.4	10.2	<1
AQ87	716579,734071	33.6	16.9	11.6	1
AQ88	716590,734091	38.0	17.8	12.1	1
AQ89	716784,734031	28.9	16.0	11.1	1
AQ90	716887,734000	28.4	15.8	11.0	1
AQ91	716880,733976	26.7	15.4	10.7	<1
AQ92	716900,733998	29.2	15.8	11.0	1
AQ93	716897,733972	27.8	15.5	10.8	1
AQ94	716781,734007	25.3	15.2	10.7	<1
AQ95	716655,734047	26.3	15.3	10.7	<1
AQ96	716696,734057	28.4	15.9	11.0	1
AQ97	716573,734109	43.8	19.7	13.1	3
AQ98	716554,734102	32.6	17.2	11.7	1
AQ99	716981,733981	29.3	16.3	11.3	1
AQ101	717558,733852	24.3	15.1	10.6	<1
AQ102	717444,733895	28.5	16.0	11.1	1
AQ103	717676,733827	24.6	15.2	10.7	<1
AQ104	717280,733904	28.2	15.6	10.9	1

AQ105	716945,733963	25.4	15.2	10.7	<1
AQ106	716174,734420	35.8	17.4	11.9	1
AQ107	716258,734278	22.4	14.8	10.4	<1
AQ108	716370,734161	29.3	16.5	11.3	1
AQ109	716422,734146	34.8	17.8	12.1	1
AQ110	716370,734136	26.1	15.6	10.9	1
AQ111	716366,734259	22.4	14.7	10.4	<1
AQ112	716382,734156	29.9	16.6	11.4	1
AQ113	716709,734158	23.6	14.8	10.5	<1
AQ114	716743,734065	28.5	16.0	11.1	1
AQ115	716766,734275	22.1	14.5	10.2	<1
AQ116	716148,734545	28.2	16.1	11.1	1
AQ117	716430,734745	26.1	15.7	10.9	1
AQ118	716322,734693	28.4	16.3	11.2	1
AQ119	716485,734869	30.7	17.4	11.8	1
AQ120	716011,734277	21.3	14.5	10.3	<1
AQ121	715934,734356	21.7	14.7	10.4	<1
AQ122	715921,734470	23.6	15.1	10.6	<1
AQ123	716946,735011	25.0	15.2	10.7	<1
AQ124	716933,734994	23.5	14.8	10.4	<1
AQ125	717007,734904	21.6	14.4	10.2	<1
AQ126	717103,734844	23.0	14.7	10.4	<1
AQ127	717025,734920	24.2	15.1	10.6	<1
AQ128	716563,735038	26.7	16.1	11.2	1
AQ129	716520,734962	26.4	16.0	11.1	1
AQ130	717092,734810	22.4	14.6	10.3	<1
AQ131	717110,734771	22.3	14.5	10.3	<1
AQ132	717315,734130	21.6	14.4	10.2	<1
AQ133	717108,733931	31.2	16.3	11.3	1
AQ134	716853,733851	22.3	14.5	10.3	<1
AQ135	716868,733825	21.5	14.4	10.2	<1
AQ136	716900,733822	20.9	14.2	10.1	1
AQ137	716902,733757	20.9	14.2	10.1	1
AQ138	716912,733806	20.8	14.2	10.1	1
AQ139	716934,733722	20.9	14.2	10.1	1
AQ140	716917,733759	20.9	14.2	10.1	1
AQ141	716967,733702	20.9	14.2	10.1	1
AQ142	716901,733716	20.7	14.2	10.1	1
AQ143	716955,733680	20.6	14.2	10.1	1
AQ144	716983,733664	21.0	14.3	10.1	1
AQ145	717003,733677	21.0	14.3	10.1	1
AQ146	717021,733947	26.1	15.5	10.8	<1

AQ147	716326,734258	22.1	14.6	10.3	<1
AQ148	716318,734174	35.4	17.8	12.1	1
AQ149	716314,734151	28.2	16.1	11.2	1
AQ150	716024,734299	21.4	14.6	10.3	<1
AQ151	716619,734369	21.3	14.3	10.2	<1
AQ152	716221,734265	27.5	15.9	11.0	1
AQ153	717134,733956	37.4	17.7	12.0	1
AQ154	717114,733969	43.6	19.1	12.8	3
AQ155	716595,734109	36.3	17.6	12.0	1
AQ156	716605,734086	34.0	16.7	11.5	1
AQ157	716483,734551	29.7	16.2	11.2	1
AQ158	716525,734547	26.7	16.0	11.1	1
AQ159	716629,734540	25.2	15.8	10.9	1
AQ160	716653,734538	25.3	15.8	10.9	1
AQ161	716689,734531	26.1	16.0	11.0	1
AQ162	716771,734524	30.3	16.0	11.1	1
AQ163	716787,734538	27.6	15.5	10.8	1
AQ164	716817,734521	25.8	15.7	10.9	1
AQ165	716895,734515	24.9	15.6	10.9	1
AQ166	716927,734513	24.8	15.6	10.8	1
AQ167	716961,734509	25.1	15.6	10.9	1
AQ168	717030,734505	25.4	15.6	10.9	1
AQ169	717097,734499	30.3	16.3	11.3	1
AQ170	717207,734488	26.3	15.7	10.9	1
AQ171	717264,734486	25.5	15.5	10.8	<1
AQ172	717308,734481	25.9	15.5	10.8	1
AQ173	717326,734479	26.1	15.5	10.8	1
AQ174	717383,734475	24.8	15.4	10.7	<1
AQ175	717405,734476	24.4	15.3	10.7	<1
AQ176	717472,734472	24.0	15.2	10.7	<1
AQ177	717528,734467	23.2	15.1	10.6	<1
AQ178	717565,734460	21.1	14.5	10.2	<1
AQ179	717650,734451	21.2	14.5	10.3	<1
AQ180	717678,734448	21.3	14.5	10.3	<1
AQ181	717736,734441	22.9	15.0	10.6	<1
AQ182	717801,734432	23.1	15.2	10.6	<1
AQ183	717855,734430	21.8	14.7	10.4	<1
AQ184	717907,734429	21.0	14.4	10.2	<1
AQ185	717958,734433	20.6	14.3	10.1	1
AQ186	718008,734444	20.9	14.3	10.2	1
AQ187	718026,734539	21.0	14.4	10.2	<1
AQ188	716872,734344	20.8	14.2	10.1	1

AQ189	716921,734338	20.8	14.2	10.1	1
AQ190	716945,734337	20.8	14.2	10.1	1
AQ191	716959,734334	20.8	14.2	10.1	1
AQ192	716996,734330	20.8	14.2	10.1	1
AQ193	717046,734325	21.0	14.3	10.1	1
AQ194	717084,734321	21.5	14.3	10.2	<1
AQ195	717119,734316	25.5	15.1	10.6	<1
AQ196	717149,734312	27.5	15.5	10.8	1
AQ197	717170,734309	27.3	15.5	10.8	1
AQ198	717236,734306	21.6	14.4	10.2	<1
AQ199	717278,734303	21.4	14.3	10.2	<1
AQ200	717385,734289	20.8	14.2	10.1	1
AQ201	717451,734283	20.7	14.2	10.1	1
AQ202	717473,734279	20.7	14.2	10.1	1
AQ203	717557,734268	20.4	14.2	10.1	1
AQ204	717618,734264	20.3	14.2	10.1	1
AQ205	717671,734261	20.3	14.1	10.1	1
AQ206	717761,734253	20.3	14.1	10.1	1
AQ207	717798,734247	20.2	14.1	10.1	1
AQ208	717936,734196	20.3	14.1	10.1	1
AQ209	717960,734185	20.3	14.1	10.1	1
AQ210	718005,734163	20.7	14.3	10.1	1
AQ211	718118,734136	20.8	14.3	10.1	1
AQ212	718139,734130	20.8	14.3	10.1	1
AQ213	718162,734126	20.7	14.2	10.1	1
AQ214	718190,734118	20.7	14.3	10.1	1
AQ215	718259,734106	20.9	14.3	10.2	<1
AQ216	718302,734096	21.2	14.4	10.2	<1
AQ217	718183,733744	22.2	14.7	10.4	<1
AQ218	718303,734097	21.2	14.4	10.2	<1
AQ219	718210,734040	21.4	14.4	10.2	<1
AQ220	718207,734118	20.8	14.3	10.1	1
AQ221	718331,734089	21.7	14.5	10.3	<1
AQ222	718197,734035	21.4	14.4	10.2	<1
AQ223	716424,734351	21.7	14.5	10.2	<1
AQ224	716475,734363	21.2	14.4	10.2	<1
AQ225	716473,734342	21.3	14.4	10.2	<1
AQ226	716450,734396	21.4	14.4	10.2	<1
AQ227	716427,734382	21.6	14.4	10.2	<1
AQ228	718618,733503	21.0	14.3	10.2	<1
AQ229	718313,733658	22.2	14.6	10.4	<1
AQ230	718524,733520	20.7	14.2	10.1	1

AQ231	718510,733542	20.5	14.2	10.1	1
AQ232	718394,733621	20.7	14.3	10.1	1
AQ233	718924,733817	20.9	14.3	10.2	1
AQ234	718686,733534	21.6	14.6	10.3	<1
AQ235	718324,733674	21.4	14.4	10.2	<1
AQ236	718594,733497	21.1	14.4	10.2	<1
AQ237	718836,733692	21.1	14.4	10.2	<1
AQ238	718769,733633	20.8	14.3	10.2	<1
AQ239	718913,733904	21.7	14.4	10.2	<1
AQ240	718423,733590	20.7	14.2	10.1	1
AQ241	718723,733585	20.9	14.3	10.2	<1
AQ242	718661,733518	21.4	14.5	10.3	<1
AQ243	718920,733790	21.0	14.3	10.2	<1
AQ244	718713,733581	20.8	14.3	10.2	<1
AQ245	718325,733692	20.9	14.3	10.2	<1
AQ246	718437,733560	20.7	14.2	10.1	1
AQ247	718699,733568	20.8	14.3	10.2	<1
AQ248	718460,733525	20.8	14.3	10.1	1
AQ249	718452,733538	20.8	14.2	10.1	1
AQ250	718383,733643	21.0	14.4	10.2	<1
AQ251	718801,733984	21.6	14.4	10.2	<1
AQ252	718832,733973	22.0	14.5	10.2	<1
Air Quality Limit Value Objective		40	40	25	35

In the cumulative 2043 DS scenario annual mean concentrations of NO₂ are above the relevant national air quality limit value objective in some areas; three exceedances were modelled at receptors on Pearse St and Bridge St. This is a decrease from the five exceedances modelled in the DM scenario. Annual mean NO₂ concentrations did not exceed 60µg/m³, indicating that exceedances of the NO₂ 1-hour mean is unlikely to occur. Annual mean PM₁₀ concentrations are below the relevant national air quality limit value objective for all modelled receptors. At all receptors, modelling of the maximum 24-hour PM₁₀ concentration indicated that there is likely to be no more than three exceedance of the 50µg/m³ ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean PM_{2.5} concentrations are also below the relevant national air quality limit value objective for all modelled receptors.

3.3 Comparison of Do Something with Do Minimum

Table 3.3 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 3.3: Predicted Changes in Cumulative Design 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	718095,733887	-0.2	-0.2	-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}	$\text{PM}_{2.5}$
AQ2	718105,733878	-0.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ3	718110,734000	-0.1	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ4	718121,733982	-0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ5	718688,734009	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ6	718932,733934	1.1	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ9	717126,734113	-15.4	-3.4	-1.9	-2	Substantial Beneficial	Negligible	Negligible
AQ10	718150,733807	-0.4	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ11	718369,734083	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ12	718357,734077	-0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ13	718081,734146	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ14	718058,734151	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ15	716817,734197	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ16	717993,734183	-0.2	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ17	717993,734100	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ18	717993,734092	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ19	717979,734171	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ20	718451,734065	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ21	718624,734029	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ22	718009,733942	-0.3	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ23	716893,734342	-1.8	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ24	716776,734355	-4.2	-0.7	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ25	718003,733958	-0.2	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ26	718514,734052	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ27	717993,733991	-0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ28	717991,734011	-0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ29	717972,734020	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ30	716610,734325	-1.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ31	716573,734328	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ32	716517,734403	-4.2	-0.9	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ33	716531,734318	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ34	716511,734364	-1.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ35	716493,734244	0.7	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ36	718073,733877	-0.3	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ37	718040,733867	-0.2	-0.5	-0.3	-1	Negligible	Negligible	Negligible
AQ38	718208,733724	-0.2	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ39	718256,733718	-0.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ40	718278,733702	-0.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ41	716627,734293	-2.4	-0.4	-0.2	<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}	$\text{PM}_{2.5}$
AQ42	716620,734256	-1.9	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ43	716605,734253	<0.1	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ44	716603,734235	0.3	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ45	716593,734302	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ46	716538,734237	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ47	716565,734255	1.1	0.3	0.1	<1	Negligible	Negligible	Negligible
AQ48	718230,733739	-0.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ49	717848,733841	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ50	717789,733835	0.2	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ51	718328,733638	-0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ52	718119,733857	-0.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ53	718114,733825	-0.2	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ54	718059,733858	-0.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ55	718200,733766	-0.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ56	718139,733823	-0.4	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ57	717973,733842	1.1	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ58	716505,734261	1.1	0.3	0.2	<1	Negligible	Negligible	Negligible
AQ59	716450,734247	0.3	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ60	716431,734255	0.4	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ61	716388,734272	2.2	0.5	0.3	<1	Negligible	Negligible	Negligible
AQ62	716388,734258	0.2	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ63	716679,734355	-2.1	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ64	716453,734415	-1.3	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ65	716508,734334	-1.8	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ66	718032,733851	0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ67	716764,734356	-5.9	-1.0	-0.6	<1	Slight Beneficial	Negligible	Negligible
AQ68	716400,734428	0.6	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ69	716793,734180	-0.4	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ70	716393,734347	1.3	0.3	0.2	<1	Negligible	Negligible	Negligible
AQ71	716756,734187	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ72	716912,734157	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ73	716665,734319	-2.3	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ74	716751,734286	-2.7	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ75	716643,734241	-1.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ76	716743,734210	-1.6	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ77	716633,734220	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ78	716614,734223	-0.6	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ79	718334,733630	-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}	$\text{PM}_{2.5}$
AQ80	718298,733622	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ81	718263,733678	-0.3	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ82	718266,733669	-0.2	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ83	718099,734143	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ84	717307,734299	-3.4	-0.6	-0.3	<1	Negligible	Negligible	Negligible
AQ85	717331,734295	-4.8	-0.9	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ86	718889,733743	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ87	716579,734071	0.7	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ88	716590,734091	-0.6	-0.1	-0.1	-1	Slight Beneficial	Negligible	Negligible
AQ89	716784,734031	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ90	716887,734000	-0.1	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ91	716880,733976	-0.3	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ92	716900,733998	-0.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ93	716897,733972	-0.3	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ94	716781,734007	-0.3	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ95	716655,734047	-0.1	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ96	716696,734057	-0.2	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ97	716573,734109	-3.1	-0.2	-0.1	<1	Moderate Beneficial	Negligible	Negligible
AQ98	716554,734102	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ99	716981,733981	1.2	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ101	717558,733852	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ102	717444,733895	-2.1	-0.4	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ103	717676,733827	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ104	717280,733904	-3.7	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ105	716945,733963	-0.2	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ106	716174,734420	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ107	716258,734278	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ108	716370,734161	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ109	716422,734146	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ110	716370,734136	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ111	716366,734259	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ112	716382,734156	-0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ113	716709,734158	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ114	716743,734065	<0.1	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ115	716766,734275	-2.4	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ116	716148,734545	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ117	716430,734745	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ118	716322,734693	-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 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}	$\text{PM}_{2.5}$
AQ119	716485,734869	-1.4	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ120	716011,734277	-1.1	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ121	715934,734356	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ122	715921,734470	-1.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ123	716946,735011	<0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ124	716933,734994	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ125	717007,734904	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ126	717103,734844	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ127	717025,734920	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ128	716563,735038	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ129	716520,734962	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ130	717092,734810	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ131	717110,734771	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ132	717315,734130	-1.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ133	717108,733931	-0.5	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ134	716853,733851	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ135	716868,733825	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ136	716900,733822	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ137	716902,733757	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ138	716912,733806	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ139	716934,733722	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ140	716917,733759	-1.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ141	716967,733702	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ142	716901,733716	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ143	716955,733680	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ144	716983,733664	-1.4	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ145	717003,733677	-1.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ146	717021,733947	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ147	716326,734258	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ148	716318,734174	-0.9	-0.1	-0.1	-1	Slight Beneficial	Negligible	Negligible
AQ149	716314,734151	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ150	716024,734299	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ151	716619,734369	-2.3	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ152	716221,734265	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ153	717134,733956	-4.0	-1.3	-0.7	-1	Moderate Beneficial	Negligible	Negligible
AQ154	717114,733969	-6.3	-2.3	-1.2	-2	Substantial Beneficial	Negligible	Negligible
AQ155	716595,734109	-1.9	-0.2	-0.1	<1	Slight Beneficial	Negligible	Negligible
AQ156	716605,734086	<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}	$\text{PM}_{2.5}$
AQ157	716483,734551	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ158	716525,734547	-1.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ159	716629,734540	-2.0	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ160	716653,734538	-2.0	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ161	716689,734531	-2.2	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ162	716771,734524	-2.9	-0.7	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ163	716787,734538	-3.5	-0.8	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ164	716817,734521	-4.1	-0.8	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ165	716895,734515	-4.1	-0.8	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ166	716927,734513	-4.0	-0.8	-0.4	<1	Negligible	Negligible	Negligible
AQ167	716961,734509	-4.0	-0.7	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ168	717030,734505	-3.8	-0.6	-0.4	<1	Negligible	Negligible	Negligible
AQ169	717097,734499	-4.2	-0.7	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ170	717207,734488	-0.9	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ171	717264,734486	-0.7	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ172	717308,734481	-0.8	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ173	717326,734479	-1.0	-0.6	-0.3	<1	Negligible	Negligible	Negligible
AQ174	717383,734475	-1.1	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ175	717405,734476	-1.1	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ176	717472,734472	-1.3	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ177	717528,734467	-1.6	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ178	717565,734460	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ179	717650,734451	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ180	717678,734448	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ181	717736,734441	-1.5	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ182	717801,734432	-1.6	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ183	717855,734430	-1.2	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ184	717907,734429	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ185	717958,734433	-0.8	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ186	718008,734444	-0.9	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ187	718026,734539	-0.6	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ188	716872,734344	-1.3	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ189	716921,734338	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ190	716945,734337	-1.4	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ191	716959,734334	-1.5	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ192	716996,734330	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ193	717046,734325	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ194	717084,734321	-0.8	-0.2	-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}	$\text{PM}_{2.5}$
AQ195	717119,734316	-2.7	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ196	717149,734312	-3.9	-0.7	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ197	717170,734309	-4.2	-0.7	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ198	717236,734306	-1.9	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ199	717278,734303	-2.3	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ200	717385,734289	-2.6	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ201	717451,734283	-2.8	-0.6	-0.3	<1	Negligible	Negligible	Negligible
AQ202	717473,734279	-3.2	-0.7	-0.4	<1	Negligible	Negligible	Negligible
AQ203	717557,734268	-1.2	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ204	717618,734264	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ205	717671,734261	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ206	717761,734253	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ207	717798,734247	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ208	717936,734196	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ209	717960,734185	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ210	718005,734163	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ211	718118,734136	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ212	718139,734130	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ213	718162,734126	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ214	718190,734118	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ215	718259,734106	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ216	718302,734096	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ217	718183,733744	-0.2	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ218	718303,734097	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ219	718210,734040	-0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ220	718207,734118	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ221	718331,734089	-0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ222	718197,734035	-0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ223	716424,734351	-0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ224	716475,734363	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ225	716473,734342	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ226	716450,734396	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ227	716427,734382	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ228	718618,733503	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ229	718313,733658	-0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ230	718524,733520	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ231	718510,733542	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ232	718394,733621	-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}	$\text{PM}_{2.5}$
AQ233	718924,733817	-0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ234	718686,733534	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ235	718324,733674	-0.3	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ236	718594,733497	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ237	718836,733692	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ238	718769,733633	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ239	718913,733904	0.1	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ240	718423,733590	-0.2	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ241	718723,733585	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ242	718661,733518	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ243	718920,733790	-0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ244	718713,733581	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ245	718325,733692	-0.2	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ246	718437,733560	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ247	718699,733568	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ248	718460,733525	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ249	718452,733538	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ250	718383,733643	-0.4	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ251	718801,733984	0.1	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ252	718832,733973	0.1	-0.2	-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 17 receptors, a moderate beneficial impact at two receptors and a substantial beneficial impact at two receptors. 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.