

Appendix 7. Dispersion Model Input Data and Predictions

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Appendix A.7.1

Dispersion Model Input data and predictions

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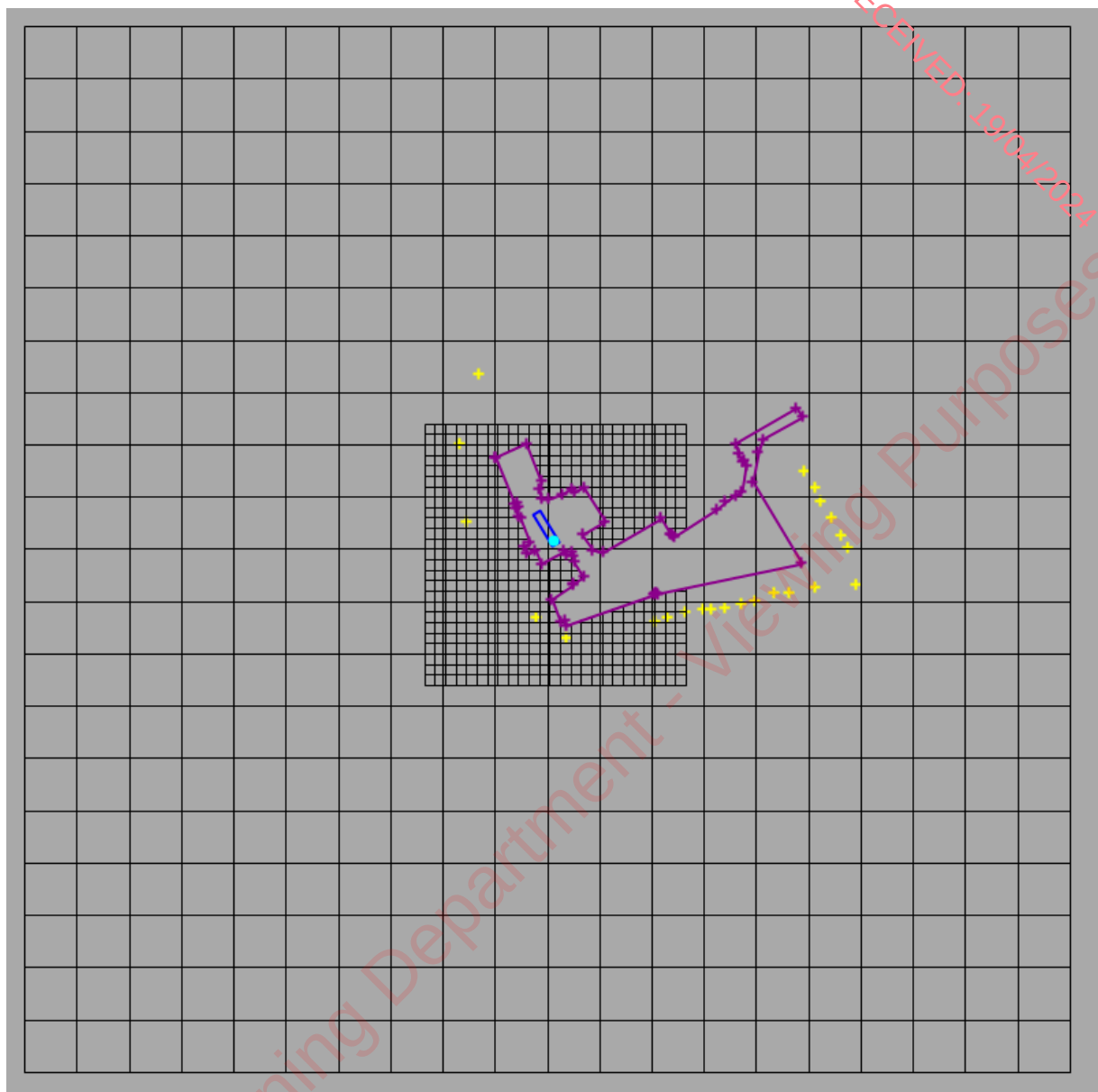
Figure A.7.1 Sensitive Receptors Map



Table A.7.1 Human Sensitive Receptor locations

Sen. Rcpt.	Dsc. Rcpt.	Description	UTM	
			East(m)	North(m)
D1	R1	Residential	669507.6	5982795.8
D2	R2	Residential	669640.3	5982611.7
D3	R3	Residential	669698	5982572.7
D4	R4	Residential	669868.2	5982603.9
D5	R5	Residential	669893.1	5982611.7
D6	R6	Residential	669925.9	5982622.6
D7	R7	Residential	669960.2	5982627.3
D8	R8	Residential	669977.4	5982628.8
D9	R9	Residential	670002.4	5982630.4
D10	R10	Residential	670033.6	5982638.2
D11	R11	Residential	670058.6	5982644.5
D12	R12	Residential	670096	5982658.5
D13	r13	Residential	670124.1	5982660.1
D14	R14	Residential	670175.6	5982669.4
D15	R15	Residential	670253.6	5982675.7
D16	R16	Residential	670238	5982745.9
D17	R17	Residential	670224	5982769.3
D18	R18	Residential	670206.8	5982803.6
D19	R19	Residential	670185	5982833.3
D20	R20	Residential	670174.1	5982861.4
D21	R21	Residential	670153.8	5982891
D22	R22	Residential	669495.2	5982944.1
D23	R23	Residential	669532.6	5983076.8

Figure A.7.2 Gridded Receptors



Dispersion Modelling predictions

Recommended stack height

Table A.7.2	2018 Mullingar Meteorological Data (Worst meteorological year, 7.1m Stack height)
Table A.7.3	2018 Dublin Airport Meteorological Data (Worst meteorological year, 7.1m Stack)
Table A.7.4	2016 Mullingar Meteorological Data (7.1m stack)
Table A.7.5	2017 Mullingar Meteorological Data (7.1m stack)
Table A.7.6	2019 Mullingar Meteorological Data (7.1m stack)
Table A.7.7	2020 Mullingar Meteorological Data (7.1m stack)

Stack height and meteorological data assessments

Table A.7.8	2018 Mullingar Meteorological Data (7.1m stack height)
Table A.7.9	2018 Mullingar Meteorological Data (8m stack height)
Table A.7.10	2018 Mullingar Meteorological Data (8.5m stack height)
Table A.7.11	2018 Mullingar Meteorological Data (9m stack height)
Table A.7.12	2018 Mullingar Meteorological Data (10m stack height)
Table A.7.13	2018 Dublin Airport Meteorological Data (7.1m stack height)
Table A.7.14	2018 Dublin Airport Meteorological Data (8m stack height)
Table A.7.15	2018 Dublin Airport Meteorological Data (8.5m stack height)
Table A.7.16	2018 Dublin Airport Meteorological Data (9m stack height)
Table A.7.17	2018 Dublin Airport Meteorological Data (10m stack height)

Figure A.7.3	Isopleth showing the 98 th percentile 1-hour ground level odour 7.1m stack; Mullingar meteorological data (2018)
Figure A.7.4	Isopleth showing the 98 th percentile 1-hour ground level odour 8.5m stack; Mullingar meteorological data (2018)
Figure A.7.5	Isopleth showing the 98 th percentile 1-hour ground level odour 9m stack; Mullingar meteorological data (2018)

Table A.7.2 2018 Mullingar Meteorological Data (7.1m stack)

POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	8760	HOUR AVG.	GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC		
1	442 669507.60 5982795.80	27251.3414676321881416		
2	443 669640.30 5982611.70	9677.2349864937841630		
3	444 669698.00 5982572.70	8524.8773639598239242		
4	445 669868.20 5982603.90	7746.8718784793982195		
5	446 669893.10 5982611.70	7631.6005296909652316		
6	447 669925.90 5982622.60	7454.0390595237386151		
7	448 669960.20 5982627.30	7044.3602572229974612		
8	449 669977.40 5982628.80	6808.1665323093129700		
9	450 670002.40 5982630.40	6446.0737760684050954		
10	451 670033.60 5982638.20	6137.8410139770876413		
11	452 670058.60 5982644.50	5856.3327644212931773		
12	453 670096.00 5982658.50	5541.6521328198368792		
13	454 670124.10 5982660.10	5161.0634946436211976		
14	455 670175.60 5982669.40	4693.1796171782943929		
15	456 670253.60 5982675.70	4011.8260511889188820		
16	457 670238.00 5982745.90	5396.1457611447222007		
17	458 670224.00 5982769.30	6140.2606039581742152		
18	459 670206.80 5982803.60	7407.3221887823938232		
19	460 670185.00 5982833.30	8902.9176346068161365		
20	461 670174.10 5982861.40	10113.7183413309649040		
21	462 670153.80 5982891.00	11694.6672361908895255		
22	463 669495.20 5982944.10	11196.2986944176027464		
23	464 669532.60 5983076.80	7413.2223541582034159		
POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	1ST HIGH	1-HR AVG.	GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	YYMMDDHH	
1	442 669507.60 5982795.80	1734386.10699	18060801	
2	443 669640.30 5982611.70	1367255.55706	18102818	
3	444 669698.00 5982572.70	1034912.87654	18061221	
4	445 669868.20 5982603.90	1094529.85475	18080421	
5	446 669893.10 5982611.70	1168431.48433	18080421	
6	447 669925.90 5982622.60	959409.85050	18071223	
7	448 669960.20 5982627.30	922748.03945	18080405	
8	449 669977.40 5982628.80	985894.25124	18080405	
9	450 670002.40 5982630.40	1040279.51680	18080405	
10	451 670033.60 5982638.20	1035527.17425	18080405	
11	452 670058.60 5982644.50	957208.13489	18080405	
12	453 670096.00 5982658.50	752531.42337	18080405	
13	454 670124.10 5982660.10	654715.90476	18080405	
14	455 670175.60 5982669.40	551833.06698	18100421	
15	456 670253.60 5982675.70	510690.42068	18100421	
16	457 670238.00 5982745.90	606803.02431	18052022	
17	458 670224.00 5982769.30	673063.18737	18052022	
18	459 670206.80 5982803.60	536066.90178	18052022	
19	460 670185.00 5982833.30	577208.10440	18082024	
20	461 670174.10 5982861.40	605067.12747	18060103	
21	462 670153.80 5982891.00	631563.67722	18051421	
22	463 669495.20 5982944.10	1173002.61909	18071323	
23	464 669532.60 5983076.80	1083024.68380	18062421	

Table A.7.3 2018 Dublin Airport Meteorological Data (7.1m stack)

POLLUTANT: OTHER		TYPE: CONC (MICROGRAMS/M**3)		8760	HOURLY AVG.	GROUP: ALL	
SR#	DC#	X-COORD	Y-COORD	CONC			
1	442	669507.60	5982795.80	27251.3384988469879318			
2	443	669640.30	5982611.70	9677.2361933154788858			
3	444	669698.00	5982572.70	8524.8776338121679146			
4	445	669868.20	5982603.90	7746.8519616933162979			
5	446	669893.10	5982611.70	7631.5668213502049184			
6	447	669925.90	5982622.60	7453.9930877500446513			
7	448	669960.20	5982627.30	7044.3007851097599996			
8	449	669977.40	5982628.80	6808.1030168143806804			
9	450	670002.40	5982630.40	6445.9969781509980749			
10	451	670033.60	5982638.20	6137.7507116970209609			
11	452	670058.60	5982644.50	5856.2426133548151483			
12	453	670096.00	5982658.50	5541.5660463212325340			
13	454	670124.10	5982660.10	5160.9737565136556441			
14	455	670175.60	5982669.40	4693.0841979737479051			
15	456	670253.60	5982675.70	4011.7228675960441251			
16	457	670238.00	5982745.90	5396.0554089958932309			
17	458	670224.00	5982769.30	6140.1784627552951861			
18	459	670206.80	5982803.60	7407.2494170779418710			
19	460	670185.00	5982833.30	8902.8498733134238137			
20	461	670174.10	5982861.40	10113.6507601686280395			
21	462	670153.80	5982891.00	11694.5923932064324617			
22	463	669495.20	5982944.10	11196.2882384039548924			
23	464	669532.60	5983076.80	7413.1616329924854654			
POLLUTANT: OTHER		TYPE: CONC (MICROGRAMS/M**3)		1ST HIGH	1-HR AVG.	GROUP: ALL	
SR#	DC#	X-COORD	Y-COORD	CONC	YYMMDDHH		
1	442	669507.60	5982795.80	1734386.11591	18060801		
2	443	669640.30	5982611.70	1367256.18742	18102818		
3	444	669698.00	5982572.70	1034916.43031	18061221		
4	445	669868.20	5982603.90	1094528.52587	18080421		
5	446	669893.10	5982611.70	1168429.39122	18080421		
6	447	669925.90	5982622.60	959407.61153	18071223		
7	448	669960.20	5982627.30	922743.22537	18080405		
8	449	669977.40	5982628.80	985888.84983	18080405		
9	450	670002.40	5982630.40	1040272.96288	18080405		
10	451	670033.60	5982638.20	1035519.60667	18080405		
11	452	670058.60	5982644.50	957199.96474	18080405		
12	453	670096.00	5982658.50	752523.90060	18080405		
13	454	670124.10	5982660.10	654708.74755	18080405		
14	455	670175.60	5982669.40	551719.96907	18100421		
15	456	670253.60	5982675.70	510592.78223	18100421		
16	457	670238.00	5982745.90	606797.94937	18052022		
17	458	670224.00	5982769.30	673057.74931	18052022		
18	459	670206.80	5982803.60	536062.73418	18052022		
19	460	670185.00	5982833.30	577203.75581	18082024		
20	461	670174.10	5982861.40	604956.35378	18060103		
21	462	670153.80	5982891.00	631565.06344	18051421		
22	463	669495.20	5982944.10	1172998.25347	18071323		
23	464	669532.60	5983076.80	1083015.75498	18062421		

Table A.7.4 2016 Mullingar Meteorological Data (7.1m stack)

POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	8784	HOUR AVG.	GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC		
1	442 669507.60 5982795.80	26337.1591534411927569		
2	443 669640.30 5982611.70	19131.1830160472163698		
3	444 669698.00 5982572.70	17419.9647844433020509		
4	445 669868.20 5982603.90	19385.2441687536120298		
5	446 669893.10 5982611.70	19669.1057309069365147		
6	447 669925.90 5982622.60	19400.8513098638177325		
7	448 669960.20 5982627.30	18292.4492691879640915		
8	449 669977.40 5982628.80	17657.8315562871757720		
9	450 670002.40 5982630.40	16702.4248137620961643		
10	451 670033.60 5982638.20	15802.9438650526153651		
11	452 670058.60 5982644.50	15007.4326261942569545		
12	453 670096.00 5982658.50	13821.9641552902539843		
13	454 670124.10 5982660.10	12823.8976298708603281		
14	455 670175.60 5982669.40	11277.8965451008261880		
15	456 670253.60 5982675.70	9418.9793967498480924		
16	457 670238.00 5982745.90	9517.5984566845927475		
17	458 670224.00 5982769.30	9759.5250958023752901		
18	459 670206.80 5982803.60	10022.6061086473891919		
19	460 670185.00 5982833.30	10425.8704830015121843		
20	461 670174.10 5982861.40	10668.5259480591666943		
21	462 670153.80 5982891.00	11434.2561795257424819		
22	463 669495.20 5982944.10	14030.0306495342520066		
23	464 669532.60 5983076.80	11410.3215324405628053		
POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	1ST HIGH	1-HR AVG.	GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	YYMMDDHH	
1	442 669507.60 5982795.80	1334982.65689	16011820	
2	443 669640.30 5982611.70	1239708.35568	16051223	
3	444 669698.00 5982572.70	1104236.21670	16082224	
4	445 669868.20 5982603.90	1082338.77613	16091420	
5	446 669893.10 5982611.70	819871.03419	16091420	
6	447 669925.90 5982622.60	874482.37601	16072922	
7	448 669960.20 5982627.30	893163.19883	16072922	
8	449 669977.40 5982628.80	967487.28437	16080422	
9	450 670002.40 5982630.40	1039643.03824	16080422	
10	451 670033.60 5982638.20	1002886.48605	16080422	
11	452 670058.60 5982644.50	871215.82932	16080422	
12	453 670096.00 5982658.50	841356.74867	16081323	
13	454 670124.10 5982660.10	805977.23752	16081323	
14	455 670175.60 5982669.40	677023.81701	16081323	
15	456 670253.60 5982675.70	570853.78129	16082323	
16	457 670238.00 5982745.90	750885.63668	16072323	
17	458 670224.00 5982769.30	772710.84511	16072323	
18	459 670206.80 5982803.60	754701.93094	16081321	
19	460 670185.00 5982833.30	803480.50960	16081321	
20	461 670174.10 5982861.40	855903.09559	16072222	
21	462 670153.80 5982891.00	888507.53948	16072322	
22	463 669495.20 5982944.10	950277.06168	16060605	
23	464 669532.60 5983076.80	668228.20710	16060703	

Percentile Report

Parameters:

Source group = ALL
 Avg. period = 1 hour
 Period = 2016/1/1/1 to 2016/12/31/24
 Avg. periods = 8784
 Percentiles = 98
 Scaling = 1
 Translation = 0
 Units = Micrograms/m**3

All Receptors:

Percentile	Corresponding Highest Value	Receptor X-coord (m)	Receptor Y-coord (m)	Maximum Concentration
98	176	669628.50	5982756.00	.32165E+07

Individual Receptors:

Receptor Number	Receptor X-coord (m)	Receptor Y-coord (m)	Percentile > > > 98
1	668662.38	5981743.00	.68454E+04
2	668762.38	5981743.00	.56061E+04
3	668862.38	5981743.00	.47254E+04
4	668962.38	5981743.00	.49033E+04
5	669062.38	5981743.00	.51816E+04
6	669162.38	5981743.00	.56630E+04
7	669262.38	5981743.00	.62795E+04
8	669362.38	5981743.00	.80895E+04
9	669462.38	5981743.00	.85150E+04
10	669562.38	5981743.00	.91048E+04
11	669662.38	5981743.00	.10027E+05
12	669762.38	5981743.00	.13328E+05
13	669862.38	5981743.00	.15722E+05
14	669962.38	5981743.00	.18942E+05
15	670062.38	5981743.00	.20266E+05
16	670162.38	5981743.00	.21085E+05
17	670262.38	5981743.00	.23077E+05
18	670362.38	5981743.00	.23445E+05
19	670462.38	5981743.00	.21809E+05
20	670562.38	5981743.00	.21914E+05
21	670662.38	5981743.00	.19151E+05
22	668662.38	5981843.00	.92402E+04
23	668762.38	5981843.00	.84946E+04
24	668862.38	5981843.00	.69558E+04
25	668962.38	5981843.00	.63877E+04
26	669062.38	5981843.00	.62143E+04
27	669162.38	5981843.00	.68453E+04
28	669262.38	5981843.00	.67053E+04
29	669362.38	5981843.00	.94958E+04
30	669462.38	5981843.00	.96220E+04
31	669562.38	5981843.00	.10794E+05
32	669662.38	5981843.00	.12127E+05
33	669762.38	5981843.00	.16116E+05
34	669862.38	5981843.00	.19410E+05
35	669962.38	5981843.00	.23597E+05
36	670062.38	5981843.00	.26441E+05
37	670162.38	5981843.00	.25844E+05
38	670262.38	5981843.00	.28382E+05
39	670362.38	5981843.00	.28072E+05
40	670462.38	5981843.00	.25910E+05
41	670562.38	5981843.00	.23192E+05
42	670662.38	5981843.00	.23465E+05
43	668662.38	5981943.00	.13900E+05
44	668762.38	5981943.00	.12181E+05
45	668862.38	5981943.00	.10999E+05
46	668962.38	5981943.00	.83732E+04
47	669062.38	5981943.00	.81620E+04
48	669162.38	5981943.00	.82750E+04
49	669262.38	5981943.00	.89396E+04
50	669362.38	5981943.00	.10381E+05
51	669462.38	5981943.00	.11853E+05
52	669562.38	5981943.00	.12643E+05
53	669662.38	5981943.00	.14896E+05
54	669762.38	5981943.00	.18947E+05
55	669862.38	5981943.00	.24918E+05
56	669962.38	5981943.00	.28085E+05
57	670062.38	5981943.00	.30165E+05
58	670162.38	5981943.00	.32747E+05
59	670262.38	5981943.00	.34946E+05
60	670362.38	5981943.00	.29440E+05
61	670462.38	5981943.00	.28860E+05
62	670562.38	5981943.00	.28852E+05
63	670662.38	5981943.00	.28310E+05
64	668662.38	5982043.00	.17052E+05
65	668762.38	5982043.00	.16999E+05
66	668862.38	5982043.00	.15639E+05
67	668962.38	5982043.00	.14074E+05
68	669062.38	5982043.00	.10522E+05
69	669162.38	5982043.00	.10469E+05
70	669262.38	5982043.00	.10579E+05
71	669362.38	5982043.00	.10998E+05
72	669462.38	5982043.00	.15913E+05

73	669562.38	5982043.00	.15539E+05
74	669662.38	5982043.00	.18808E+05
75	669762.38	5982043.00	.22846E+05
76	669862.38	5982043.00	.33907E+05
77	669962.38	5982043.00	.39161E+05
78	670062.38	5982043.00	.39829E+05
79	670162.38	5982043.00	.42599E+05
80	670262.38	5982043.00	.38884E+05
81	670362.38	5982043.00	.35333E+05
82	670462.38	5982043.00	.35395E+05
83	670562.38	5982043.00	.36975E+05
84	670662.38	5982043.00	.34066E+05
85	668662.38	5982143.00	.25674E+05
86	668762.38	5982143.00	.23521E+05
87	668862.38	5982143.00	.22256E+05
88	668962.38	5982143.00	.21795E+05
89	669062.38	5982143.00	.18850E+05
90	669162.38	5982143.00	.14277E+05
91	669262.38	5982143.00	.14031E+05
92	669362.38	5982143.00	.15173E+05
93	669462.38	5982143.00	.20435E+05
94	669562.38	5982143.00	.21748E+05
95	669662.38	5982143.00	.23747E+05
96	669762.38	5982143.00	.31796E+05
97	669862.38	5982143.00	.39558E+05
98	669962.38	5982143.00	.46889E+05
99	670062.38	5982143.00	.48929E+05
100	670162.38	5982143.00	.47787E+05
101	670262.38	5982143.00	.44828E+05
102	670362.38	5982143.00	.44644E+05
103	670462.38	5982143.00	.43223E+05
104	670562.38	5982143.00	.39516E+05
105	670662.38	5982143.00	.36855E+05
106	668662.38	5982243.00	.34258E+05
107	668762.38	5982243.00	.34470E+05
108	668862.38	5982243.00	.33232E+05
109	668962.38	5982243.00	.31421E+05
110	669062.38	5982243.00	.30036E+05
111	669162.38	5982243.00	.25167E+05
112	669262.38	5982243.00	.19529E+05
113	669362.38	5982243.00	.20273E+05
114	669462.38	5982243.00	.23948E+05
115	669562.38	5982243.00	.27542E+05
116	669662.38	5982243.00	.33585E+05
117	669762.38	5982243.00	.47418E+05
118	669862.38	5982243.00	.55712E+05
119	669962.38	5982243.00	.62985E+05
120	670062.38	5982243.00	.61079E+05
121	670162.38	5982243.00	.57562E+05
122	670262.38	5982243.00	.59689E+05
123	670362.38	5982243.00	.54953E+05
124	670462.38	5982243.00	.50737E+05
125	670562.38	5982243.00	.47227E+05
126	670662.38	5982243.00	.46124E+05
127	668662.38	5982343.00	.39417E+05
128	668762.38	5982343.00	.43930E+05
129	668862.38	5982343.00	.48442E+05
130	668962.38	5982343.00	.49501E+05
131	669062.38	5982343.00	.43685E+05
132	669162.38	5982343.00	.42506E+05
133	669262.38	5982343.00	.37245E+05
134	669362.38	5982343.00	.29348E+05
135	669462.38	5982343.00	.33296E+05
136	669562.38	5982343.00	.44760E+05
137	669662.38	5982343.00	.48233E+05
138	669762.38	5982343.00	.65671E+05
139	669862.38	5982343.00	.82945E+05
140	669962.38	5982343.00	.85284E+05
141	670062.38	5982343.00	.81129E+05
142	670162.38	5982343.00	.79095E+05
143	670262.38	5982343.00	.71241E+05
144	670362.38	5982343.00	.65507E+05
145	670462.38	5982343.00	.63803E+05
146	670562.38	5982343.00	.64994E+05
147	670662.38	5982343.00	.62006E+05
148	668662.38	5982443.00	.44787E+05
149	668762.38	5982443.00	.52455E+05

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150	668862.38	5982443.00	.56901E+05
151	668962.38	5982443.00	.65342E+05
152	669062.38	5982443.00	.75239E+05
153	669162.38	5982443.00	.73013E+05
154	669262.38	5982443.00	.66320E+05
155	669362.38	5982443.00	.61012E+05
156	669462.38	5982443.00	.51374E+05
157	669562.38	5982443.00	.68349E+05
158	669662.38	5982443.00	.76309E+05
159	669762.38	5982443.00	.11263E+06
160	669862.38	5982443.00	.10963E+06
161	669962.38	5982443.00	.12032E+06
162	670062.38	5982443.00	.11052E+06
163	670162.38	5982443.00	.10045E+06
164	670262.38	5982443.00	.93604E+05
165	670362.38	5982443.00	.89155E+05
166	670462.38	5982443.00	.83861E+05
167	670562.38	5982443.00	.73615E+05
168	670662.38	5982443.00	.69711E+05
169	668662.38	5982543.00	.42193E+05
170	668762.38	5982543.00	.49582E+05
171	668862.38	5982543.00	.63684E+05
172	668962.38	5982543.00	.79468E+05
173	669062.38	5982543.00	.85696E+05
174	669162.38	5982543.00	.10845E+06
175	669262.38	5982543.00	.13754E+06
176	669362.38	5982543.00	.12700E+06
177	669462.38	5982543.00	.11772E+06
178	669562.38	5982543.00	.10094E+06
179	669662.38	5982543.00	.14208E+06
180	669762.38	5982543.00	.18543E+06
181	669862.38	5982543.00	.19982E+06
182	669962.38	5982543.00	.17518E+06
183	670062.38	5982543.00	.15762E+06
184	670162.38	5982543.00	.13673E+06
185	670262.38	5982543.00	.12360E+06
186	670362.38	5982543.00	.11201E+06
187	670462.38	5982543.00	.96476E+05
188	670562.38	5982543.00	.83800E+05
189	670662.38	5982543.00	.72157E+05
190	668662.38	5982643.00	.36466E+05
191	668762.38	5982643.00	.45013E+05
192	668862.38	5982643.00	.56525E+05
193	668962.38	5982643.00	.70544E+05
194	669062.38	5982643.00	.88205E+05
195	669162.38	5982643.00	.11606E+06
196	669262.38	5982643.00	.16893E+06
197	669362.38	5982643.00	.26653E+06
198	669462.38	5982643.00	.38082E+06
199	669562.38	5982643.00	.29937E+06
200	669662.38	5982643.00	.29570E+06
201	669762.38	5982643.00	.31019E+06
202	669862.38	5982643.00	.32244E+06
203	669962.38	5982643.00	.26396E+06
204	670062.38	5982643.00	.21700E+06
205	670162.38	5982643.00	.16243E+06
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207	670362.38	5982643.00	.11008E+06
208	670462.38	5982643.00	.94041E+05
209	670562.38	5982643.00	.81769E+05
210	670662.38	5982643.00	.65637E+05
211	668662.38	5982743.00	.25582E+05
212	668762.38	5982743.00	.30226E+05
213	668862.38	5982743.00	.37042E+05
214	668962.38	5982743.00	.46694E+05
215	669062.38	5982743.00	.59560E+05
216	669162.38	5982743.00	.81599E+05
217	669262.38	5982743.00	.12258E+06
218	669362.38	5982743.00	.20878E+06
219	669462.38	5982743.00	.41118E+06
220	669562.38	5982743.00	.92109E+06
221	669662.38	5982743.00	.87944E+06
222	669762.38	5982743.00	.70732E+06
223	669862.38	5982743.00	.44416E+06
224	669962.38	5982743.00	.29516E+06
225	670062.38	5982743.00	.21189E+06
226	670162.38	5982743.00	.15883E+06

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227	670262.38	5982743.00	.12562E+06
228	670362.38	5982743.00	.10747E+06
229	670462.38	5982743.00	.88562E+05
230	670562.38	5982743.00	.75512E+05
231	670662.38	5982743.00	.65252E+05
232	668662.38	5982843.00	.14660E+05
233	668762.38	5982843.00	.17120E+05
234	668862.38	5982843.00	.20363E+05
235	668962.38	5982843.00	.23788E+05
236	669062.38	5982843.00	.29506E+05
237	669162.38	5982843.00	.38278E+05
238	669262.38	5982843.00	.52352E+05
239	669362.38	5982843.00	.87472E+05
240	669462.38	5982843.00	.16549E+06
241	669562.38	5982843.00	.40008E+06
242	669662.38	5982843.00	.11461E+07
243	669762.38	5982843.00	.10334E+07
244	669862.38	5982843.00	.54476E+06
245	669962.38	5982843.00	.29444E+06
246	670062.38	5982843.00	.19037E+06
247	670162.38	5982843.00	.14143E+06
248	670262.38	5982843.00	.11231E+06
249	670362.38	5982843.00	.92215E+05
250	670462.38	5982843.00	.78009E+05
251	670562.38	5982843.00	.66005E+05
252	670662.38	5982843.00	.57607E+05
253	668662.38	5982943.00	.98610E+04
254	668762.38	5982943.00	.10981E+05
255	668862.38	5982943.00	.12918E+05
256	668962.38	5982943.00	.15145E+05
257	669062.38	5982943.00	.19753E+05
258	669162.38	5982943.00	.27737E+05
259	669262.38	5982943.00	.40269E+05
260	669362.38	5982943.00	.66631E+05
261	669462.38	5982943.00	.12267E+06
262	669562.38	5982943.00	.23157E+06
263	669662.38	5982943.00	.51797E+06
264	669762.38	5982943.00	.58849E+06
265	669862.38	5982943.00	.50032E+06
266	669962.38	5982943.00	.30249E+06
267	670062.38	5982943.00	.20572E+06
268	670162.38	5982943.00	.14769E+06
269	670262.38	5982943.00	.11665E+06
270	670362.38	5982943.00	.89955E+05
271	670462.38	5982943.00	.70454E+05
272	670562.38	5982943.00	.61271E+05
273	670662.38	5982943.00	.54510E+05
274	668662.38	5983043.00	.84647E+04
275	668762.38	5983043.00	.99667E+04
276	668862.38	5983043.00	.11410E+05
277	668962.38	5983043.00	.14213E+05
278	669062.38	5983043.00	.18141E+05
279	669162.38	5983043.00	.23948E+05
280	669262.38	5983043.00	.33308E+05
281	669362.38	5983043.00	.54724E+05
282	669462.38	5983043.00	.82846E+05
283	669562.38	5983043.00	.16694E+06
284	669662.38	5983043.00	.28300E+06
285	669762.38	5983043.00	.30163E+06
286	669862.38	5983043.00	.35107E+06
287	669962.38	5983043.00	.27095E+06
288	670062.38	5983043.00	.18157E+06
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291	670362.38	5983043.00	.95764E+05
292	670462.38	5983043.00	.79898E+05
293	670562.38	5983043.00	.66507E+05
294	670662.38	5983043.00	.58440E+05
295	668662.38	5983143.00	.77551E+04
296	668762.38	5983143.00	.91758E+04
297	668862.38	5983143.00	.10790E+05
298	668962.38	5983143.00	.12969E+05
299	669062.38	5983143.00	.16783E+05
300	669162.38	5983143.00	.22407E+05
301	669262.38	5983143.00	.30532E+05
302	669362.38	5983143.00	.44449E+05
303	669462.38	5983143.00	.72178E+05

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304	669562.38	5983143.00	.12918E+06
305	669662.38	5983143.00	.17097E+06
306	669762.38	5983143.00	.17639E+06
307	669862.38	5983143.00	.21857E+06
308	669962.38	5983143.00	.21318E+06
309	670062.38	5983143.00	.18457E+06
310	670162.38	5983143.00	.13134E+06
311	670262.38	5983143.00	.10615E+06
312	670362.38	5983143.00	.95107E+05
313	670462.38	5983143.00	.81231E+05
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315	670662.38	5983143.00	.57736E+05
316	668662.38	5983243.00	.74356E+04
317	668762.38	5983243.00	.84307E+04
318	668862.38	5983243.00	.10046E+05
319	668962.38	5983243.00	.12412E+05
320	669062.38	5983243.00	.15573E+05
321	669162.38	5983243.00	.20096E+05
322	669262.38	5983243.00	.26379E+05
323	669362.38	5983243.00	.41334E+05
324	669462.38	5983243.00	.63938E+05
325	669562.38	5983243.00	.90245E+05
326	669662.38	5983243.00	.11870E+06
327	669762.38	5983243.00	.12092E+06
328	669862.38	5983243.00	.14432E+06
329	669962.38	5983243.00	.16605E+06
330	670062.38	5983243.00	.15636E+06
331	670162.38	5983243.00	.14571E+06
332	670262.38	5983243.00	.11057E+06
333	670362.38	5983243.00	.89287E+05
334	670462.38	5983243.00	.71718E+05
335	670562.38	5983243.00	.67306E+05
336	670662.38	5983243.00	.59118E+05
337	668662.38	5983343.00	.66801E+04
338	668762.38	5983343.00	.78699E+04
339	668862.38	5983343.00	.97690E+04
340	668962.38	5983343.00	.12133E+05
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342	669162.38	5983343.00	.18071E+05
343	669262.38	5983343.00	.26073E+05
344	669362.38	5983343.00	.36755E+05
345	669462.38	5983343.00	.59923E+05
346	669562.38	5983343.00	.70631E+05
347	669662.38	5983343.00	.89382E+05
348	669762.38	5983343.00	.91395E+05
349	669862.38	5983343.00	.98946E+05
350	669962.38	5983343.00	.12208E+06
351	670062.38	5983343.00	.13385E+06
352	670162.38	5983343.00	.12556E+06
353	670262.38	5983343.00	.11713E+06
354	670362.38	5983343.00	.93224E+05
355	670462.38	5983343.00	.72567E+05
356	670562.38	5983343.00	.60308E+05
357	670662.38	5983343.00	.54401E+05
358	668662.38	5983443.00	.64208E+04
359	668762.38	5983443.00	.80264E+04
360	668862.38	5983443.00	.92219E+04
361	668962.38	5983443.00	.11135E+05
362	669062.38	5983443.00	.13596E+05
363	669162.38	5983443.00	.17452E+05
364	669262.38	5983443.00	.24625E+05
365	669362.38	5983443.00	.34878E+05
366	669462.38	5983443.00	.50863E+05
367	669562.38	5983443.00	.58545E+05
368	669662.38	5983443.00	.70498E+05
369	669762.38	5983443.00	.69166E+05
370	669862.38	5983443.00	.73085E+05
371	669962.38	5983443.00	.94144E+05
372	670062.38	5983443.00	.10549E+06
373	670162.38	5983443.00	.11454E+06
374	670262.38	5983443.00	.10908E+06
375	670362.38	5983443.00	.96041E+05
376	670462.38	5983443.00	.79239E+05
377	670562.38	5983443.00	.62106E+05
378	670662.38	5983443.00	.52848E+05
379	668662.38	5983543.00	.68396E+04
380	668762.38	5983543.00	.74017E+04

381	668862.38	5983543.00	.86663E+04
382	668962.38	5983543.00	.10347E+05
383	669062.38	5983543.00	.13072E+05
384	669162.38	5983543.00	.17475E+05
385	669262.38	5983543.00	.22770E+05
386	669362.38	5983543.00	.33274E+05
387	669462.38	5983543.00	.44242E+05
388	669562.38	5983543.00	.49743E+05
389	669662.38	5983543.00	.57038E+05
390	669762.38	5983543.00	.56296E+05
391	669862.38	5983543.00	.61124E+05
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394	670162.38	5983543.00	.92909E+05
395	670262.38	5983543.00	.95975E+05
396	670362.38	5983543.00	.91699E+05
397	670462.38	5983543.00	.82694E+05
398	670562.38	5983543.00	.69876E+05
399	670662.38	5983543.00	.55046E+05
400	668662.38	5983643.00	.60719E+04
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402	668862.38	5983643.00	.83289E+04
403	668962.38	5983643.00	.98446E+04
404	669062.38	5983643.00	.12044E+05
405	669162.38	5983643.00	.16816E+05
406	669262.38	5983643.00	.21628E+05
407	669362.38	5983643.00	.29557E+05
408	669462.38	5983643.00	.35529E+05
409	669562.38	5983643.00	.45105E+05
410	669662.38	5983643.00	.47188E+05
411	669762.38	5983643.00	.45694E+05
412	669862.38	5983643.00	.49671E+05
413	669962.38	5983643.00	.54342E+05
414	670062.38	5983643.00	.66243E+05
415	670162.38	5983643.00	.75784E+05
416	670262.38	5983643.00	.86773E+05
417	670362.38	5983643.00	.82750E+05
418	670462.38	5983643.00	.75370E+05
419	670562.38	5983643.00	.70708E+05
420	670662.38	5983643.00	.60082E+05
421	668662.38	5983743.00	.57259E+04
422	668762.38	5983743.00	.68249E+04
423	668862.38	5983743.00	.80899E+04
424	668962.38	5983743.00	.91538E+04
425	669062.38	5983743.00	.12803E+05
426	669162.38	5983743.00	.15590E+05
427	669262.38	5983743.00	.20451E+05
428	669362.38	5983743.00	.26285E+05
429	669462.38	5983743.00	.29239E+05
430	669562.38	5983743.00	.39990E+05
431	669662.38	5983743.00	.39760E+05
432	669762.38	5983743.00	.38036E+05
433	669862.38	5983743.00	.42258E+05
434	669962.38	5983743.00	.44226E+05
435	670062.38	5983743.00	.54251E+05
436	670162.38	5983743.00	.60695E+05
437	670262.38	5983743.00	.69009E+05
438	670362.38	5983743.00	.75658E+05
439	670462.38	5983743.00	.69773E+05
440	670562.38	5983743.00	.65545E+05
441	670662.38	5983743.00	.60799E+05
442	669507.63	5982796.00	.30263E+06
443	669640.31	5982611.50	.21851E+06
444	669698.00	5982572.50	.20560E+06
445	669868.19	5982604.00	.24835E+06
446	669893.13	5982611.50	.25932E+06
447	669925.88	5982622.50	.26072E+06
448	669960.19	5982627.50	.24219E+06
449	669977.38	5982629.00	.24410E+06
450	670002.38	5982630.50	.23025E+06
451	670033.63	5982638.00	.22436E+06
452	670058.63	5982644.50	.21911E+06
453	670096.00	5982658.50	.19363E+06
454	670124.13	5982660.00	.17790E+06
455	670175.63	5982669.50	.15793E+06
456	670253.63	5982675.50	.13177E+06
457	670238.00	5982746.00	.13479E+06

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458	670224.00	5982769.50	.13382E+06
459	670206.81	5982803.50	.13431E+06
460	670185.00	5982833.50	.13700E+06
461	670174.13	5982861.50	.13624E+06
462	670153.81	5982891.00	.14588E+06
463	669495.19	5982944.00	.14952E+06
464	669532.63	5983077.00	.12529E+06
465	669563.00	5982919.00	.24486E+06
466	669622.50	5982944.50	.44533E+06
467	669651.69	5982873.00	.81897E+06
468	669646.63	5982857.00	.94797E+06
469	669650.81	5982839.00	.14608E+07
470	669664.31	5982839.50	.18399E+07
471	669691.69	5982847.50	.10421E+07
472	669708.88	5982859.00	.96778E+06
473	669713.50	5982852.50	.10867E+07
474	669732.13	5982861.50	.10370E+07
475	669772.50	5982795.50	.90433E+06
476	669729.31	5982771.50	.94283E+06
477	669749.31	5982740.50	.72554E+06
478	669769.31	5982736.50	.68867E+06
479	669879.81	5982802.50	.40419E+06
480	669897.88	5982770.50	.38787E+06
481	669900.69	5982771.50	.38101E+06
482	669904.00	5982769.50	.37729E+06
483	669905.81	5982767.50	.37378E+06
484	669986.69	5982819.00	.25554E+06
485	670002.88	5982833.50	.23630E+06
486	670022.88	5982846.00	.22450E+06
487	670034.50	5982853.50	.21653E+06
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497	670066.13	5982927.50	.20268E+06
498	670055.38	5982871.50	.20011E+06
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500	669873.81	5982657.50	.32784E+06
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502	669868.19	5982659.50	.33394E+06
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844	669767.31	5982783.00	.83050E+06
845	669787.31	5982783.00	.70829E+06
846	669807.31	5982783.00	.61637E+06
847	669827.31	5982783.00	.54123E+06
848	669907.31	5982783.00	.35283E+06
849	669927.31	5982783.00	.32569E+06
850	669427.31	5982803.00	.16375E+06
851	669447.31	5982803.00	.18529E+06
852	669467.31	5982803.00	.21202E+06
853	669487.31	5982803.00	.24630E+06
854	669507.31	5982803.00	.29452E+06
855	669527.31	5982803.00	.32955E+06
856	669547.31	5982803.00	.39200E+06
857	669567.31	5982803.00	.47653E+06
858	669587.31	5982803.00	.59583E+06
859	669607.31	5982803.00	.11307E+07
860	669787.31	5982803.00	.82153E+06
861	669807.31	5982803.00	.71091E+06
862	669827.31	5982803.00	.58402E+06
863	669847.31	5982803.00	.51475E+06
864	669867.31	5982803.00	.44201E+06
865	669887.31	5982803.00	.39632E+06
866	669907.31	5982803.00	.35155E+06
867	669927.31	5982803.00	.32404E+06
868	669427.31	5982823.00	.14923E+06
869	669447.31	5982823.00	.16495E+06
870	669467.31	5982823.00	.18723E+06
871	669487.31	5982823.00	.21850E+06
872	669507.31	5982823.00	.25175E+06
873	669527.31	5982823.00	.29698E+06
874	669547.31	5982823.00	.35940E+06
875	669567.31	5982823.00	.43464E+06
876	669587.31	5982823.00	.56035E+06
877	669607.31	5982823.00	.69458E+06
878	669767.31	5982823.00	.10577E+07
879	669787.31	5982823.00	.93804E+06
880	669807.31	5982823.00	.80174E+06
881	669827.31	5982823.00	.66263E+06
882	669847.31	5982823.00	.57314E+06
883	669867.31	5982823.00	.48222E+06
884	669887.31	5982823.00	.42315E+06
885	669907.31	5982823.00	.37942E+06
886	669927.31	5982823.00	.33402E+06
887	669427.31	5982843.00	.13108E+06
888	669447.31	5982843.00	.14630E+06
889	669467.31	5982843.00	.16791E+06
890	669487.31	5982843.00	.20221E+06
891	669507.31	5982843.00	.23711E+06
892	669527.31	5982843.00	.27925E+06
893	669547.31	5982843.00	.32922E+06
894	669567.31	5982843.00	.42078E+06
895	669587.31	5982843.00	.48132E+06
896	669667.31	5982843.00	.11817E+07
897	669747.31	5982843.00	.11008E+07
898	669767.31	5982843.00	.10056E+07
899	669787.31	5982843.00	.88265E+06
900	669807.31	5982843.00	.78932E+06
901	669827.31	5982843.00	.69472E+06
902	669847.31	5982843.00	.60866E+06
903	669867.31	5982843.00	.52889E+06
904	669887.31	5982843.00	.45389E+06
905	669907.31	5982843.00	.40394E+06
906	669927.31	5982843.00	.36057E+06
907	669427.31	5982863.00	.11955E+06
908	669447.31	5982863.00	.13993E+06
909	669467.31	5982863.00	.16696E+06
910	669487.31	5982863.00	.19362E+06
911	669507.31	5982863.00	.21739E+06
912	669527.31	5982863.00	.26656E+06
913	669547.31	5982863.00	.32583E+06
914	669567.31	5982863.00	.36962E+06
915	669667.31	5982863.00	.95162E+06
916	669687.31	5982863.00	.92538E+06
917	669707.31	5982863.00	.93534E+06
918	669727.31	5982863.00	.99188E+06
919	669747.31	5982863.00	.10140E+07

920	669767.31	5982863.00	.93634E+06
921	669787.31	5982863.00	.86539E+06
922	669807.31	5982863.00	.74801E+06
923	669827.31	5982863.00	.67490E+06
924	669847.31	5982863.00	.60102E+06
925	669867.31	5982863.00	.53171E+06
926	669887.31	5982863.00	.47846E+06
927	669907.31	5982863.00	.42727E+06
928	669927.31	5982863.00	.37066E+06
929	669427.31	5982883.00	.11908E+06
930	669447.31	5982883.00	.13349E+06
931	669467.31	5982883.00	.14886E+06
932	669487.31	5982883.00	.17053E+06
933	669507.31	5982883.00	.21910E+06
934	669527.31	5982883.00	.25498E+06
935	669547.31	5982883.00	.28529E+06
936	669567.31	5982883.00	.31667E+06
937	669667.31	5982883.00	.80288E+06
938	669687.31	5982883.00	.79365E+06
939	669707.31	5982883.00	.78534E+06
940	669727.31	5982883.00	.87348E+06
941	669747.31	5982883.00	.88072E+06
942	669767.31	5982883.00	.84970E+06
943	669787.31	5982883.00	.80824E+06
944	669807.31	5982883.00	.75581E+06
945	669827.31	5982883.00	.63261E+06
946	669847.31	5982883.00	.58420E+06
947	669867.31	5982883.00	.53183E+06
948	669887.31	5982883.00	.47625E+06
949	669907.31	5982883.00	.42667E+06
950	669927.31	5982883.00	.38707E+06
951	669427.31	5982903.00	.10733E+06
952	669447.31	5982903.00	.11697E+06
953	669467.31	5982903.00	.14390E+06
954	669487.31	5982903.00	.17298E+06
955	669507.31	5982903.00	.19968E+06
956	669527.31	5982903.00	.22362E+06
957	669547.31	5982903.00	.24208E+06
958	669567.31	5982903.00	.27245E+06
959	669647.31	5982903.00	.62388E+06
960	669667.31	5982903.00	.67721E+06
961	669687.31	5982903.00	.66706E+06
962	669707.31	5982903.00	.68124E+06
963	669727.31	5982903.00	.72948E+06
964	669747.31	5982903.00	.74587E+06
965	669767.31	5982903.00	.75882E+06
966	669787.31	5982903.00	.73421E+06
967	669807.31	5982903.00	.69506E+06
968	669827.31	5982903.00	.65120E+06
969	669847.31	5982903.00	.54951E+06
970	669867.31	5982903.00	.50539E+06
971	669887.31	5982903.00	.45938E+06
972	669907.31	5982903.00	.41634E+06
973	669927.31	5982903.00	.37469E+06
974	669427.31	5982923.00	.96566E+05
975	669447.31	5982923.00	.12112E+06
976	669467.31	5982923.00	.14110E+06
977	669487.31	5982923.00	.15848E+06
978	669507.31	5982923.00	.17446E+06
979	669527.31	5982923.00	.18637E+06
980	669547.31	5982923.00	.21569E+06
981	669567.31	5982923.00	.25539E+06
982	669647.31	5982923.00	.55624E+06
983	669667.31	5982923.00	.58782E+06
984	669687.31	5982923.00	.57447E+06
985	669707.31	5982923.00	.57856E+06
986	669727.31	5982923.00	.61560E+06
987	669747.31	5982923.00	.66598E+06
988	669767.31	5982923.00	.69189E+06
989	669787.31	5982923.00	.70034E+06
990	669807.31	5982923.00	.63934E+06
991	669827.31	5982923.00	.57741E+06
992	669847.31	5982923.00	.55174E+06
993	669867.31	5982923.00	.48350E+06
994	669887.31	5982923.00	.43370E+06
995	669907.31	5982923.00	.39915E+06
996	669927.31	5982923.00	.36808E+06

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997	669427.31	5982943.00	.99098E+05
998	669447.31	5982943.00	.11261E+06
999	669467.31	5982943.00	.12689E+06
1000	669487.31	5982943.00	.14226E+06
1001	669507.31	5982943.00	.14980E+06
1002	669527.31	5982943.00	.16798E+06
1003	669547.31	5982943.00	.19650E+06
1004	669567.31	5982943.00	.24167E+06
1005	669587.31	5982943.00	.30006E+06
1006	669607.31	5982943.00	.39446E+06
1007	669627.31	5982943.00	.45790E+06
1008	669647.31	5982943.00	.49591E+06
1009	669667.31	5982943.00	.51596E+06
1010	669687.31	5982943.00	.50140E+06
1011	669707.31	5982943.00	.49448E+06
1012	669727.31	5982943.00	.53438E+06
1013	669747.31	5982943.00	.58716E+06
1014	669767.31	5982943.00	.59234E+06
1015	669787.31	5982943.00	.61756E+06
1016	669807.31	5982943.00	.60299E+06
1017	669827.31	5982943.00	.54350E+06
1018	669847.31	5982943.00	.51889E+06
1019	669867.31	5982943.00	.48329E+06
1020	669887.31	5982943.00	.42023E+06
1021	669907.31	5982943.00	.38069E+06
1022	669927.31	5982943.00	.34897E+06
1023	669427.31	5982963.00	.92118E+05
1024	669447.31	5982963.00	.10317E+06
1025	669467.31	5982963.00	.11384E+06
1026	669487.31	5982963.00	.12511E+06
1027	669507.31	5982963.00	.13994E+06
1028	669527.31	5982963.00	.15360E+06
1029	669547.31	5982963.00	.18821E+06
1030	669567.31	5982963.00	.22221E+06
1031	669587.31	5982963.00	.28768E+06
1032	669607.31	5982963.00	.35018E+06
1033	669627.31	5982963.00	.39681E+06
1034	669647.31	5982963.00	.43621E+06
1035	669667.31	5982963.00	.44924E+06
1036	669687.31	5982963.00	.43385E+06
1037	669707.31	5982963.00	.43743E+06
1038	669727.31	5982963.00	.47419E+06
1039	669747.31	5982963.00	.50844E+06
1040	669767.31	5982963.00	.52173E+06
1041	669787.31	5982963.00	.54628E+06
1042	669807.31	5982963.00	.55376E+06
1043	669827.31	5982963.00	.51147E+06
1044	669847.31	5982963.00	.47066E+06
1045	669867.31	5982963.00	.45835E+06
1046	669887.31	5982963.00	.42484E+06
1047	669907.31	5982963.00	.36788E+06
1048	669927.31	5982963.00	.33056E+06
1049	669427.31	5982983.00	.84588E+05
1050	669447.31	5982983.00	.97869E+05
1051	669467.31	5982983.00	.10604E+06
1052	669487.31	5982983.00	.11667E+06
1053	669507.31	5982983.00	.12641E+06
1054	669527.31	5982983.00	.15105E+06
1055	669547.31	5982983.00	.17612E+06
1056	669567.31	5982983.00	.21277E+06
1057	669587.31	5982983.00	.26162E+06
1058	669607.31	5982983.00	.32962E+06
1059	669627.31	5982983.00	.34307E+06
1060	669647.31	5982983.00	.38934E+06
1061	669667.31	5982983.00	.39872E+06
1062	669687.31	5982983.00	.37680E+06
1063	669707.31	5982983.00	.38595E+06
1064	669727.31	5982983.00	.41493E+06
1065	669747.31	5982983.00	.42416E+06
1066	669767.31	5982983.00	.46681E+06
1067	669787.31	5982983.00	.46855E+06
1068	669807.31	5982983.00	.48494E+06
1069	669827.31	5982983.00	.48097E+06
1070	669847.31	5982983.00	.44608E+06
1071	669867.31	5982983.00	.42577E+06
1072	669887.31	5982983.00	.41464E+06
1073	669907.31	5982983.00	.37938E+06

1074 669927.31 5982983.00 .32228E+06

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Table A.7.5 2017 Mullingar Meteorological Data (7.1m stack)

Percentile Report

Parameters:

Source group = ALL
 Avg. period = 1 hour
 Period = 2017/1/1/1 to 2017/12/31/24
 Avg. periods = 8760
 Percentiles = 98
 Scaling = 1
 Translation = 0
 Units = Micrograms/m**3

All Receptors:

Percentile	Corresponding Highest Value	Receptor X-coord (m)	Receptor Y-coord (m)	Maximum Concentration
98	176	669628.50	5982756.00	.21510E+07

Individual Receptors:

Receptor Number	Receptor X-coord (m)	Receptor Y-coord (m)	Percentile > > > 98
1	668662.38	5981743.00	.13916E+04
2	668762.38	5981743.00	.14943E+04
3	668862.38	5981743.00	.16087E+04
4	668962.38	5981743.00	.17158E+04
5	669062.38	5981743.00	.18053E+04
6	669162.38	5981743.00	.19202E+04
7	669262.38	5981743.00	.20734E+04
8	669362.38	5981743.00	.21427E+04
9	669462.38	5981743.00	.22162E+04
10	669562.38	5981743.00	.25997E+04
11	669662.38	5981743.00	.33078E+04
12	669762.38	5981743.00	.39292E+04
13	669862.38	5981743.00	.49132E+04
14	669962.38	5981743.00	.58144E+04
15	670062.38	5981743.00	.65585E+04
16	670162.38	5981743.00	.70628E+04
17	670262.38	5981743.00	.78636E+04
18	670362.38	5981743.00	.87314E+04
19	670462.38	5981743.00	.84833E+04
20	670562.38	5981743.00	.11725E+05
21	670662.38	5981743.00	.14376E+05
22	668662.38	5981843.00	.16447E+04
23	668762.38	5981843.00	.16822E+04
24	668862.38	5981843.00	.18160E+04
25	668962.38	5981843.00	.19638E+04
26	669062.38	5981843.00	.20167E+04
27	669162.38	5981843.00	.21834E+04
28	669262.38	5981843.00	.23691E+04
29	669362.38	5981843.00	.25234E+04
30	669462.38	5981843.00	.27754E+04
31	669562.38	5981843.00	.32038E+04
32	669662.38	5981843.00	.40231E+04
33	669762.38	5981843.00	.52332E+04
34	669862.38	5981843.00	.63334E+04
35	669962.38	5981843.00	.76268E+04
36	670062.38	5981843.00	.81404E+04
37	670162.38	5981843.00	.87204E+04
38	670262.38	5981843.00	.10820E+05
39	670362.38	5981843.00	.97621E+04
40	670462.38	5981843.00	.13482E+05
41	670562.38	5981843.00	.17609E+05
42	670662.38	5981843.00	.20981E+05
43	668662.38	5981943.00	.22758E+04
44	668762.38	5981943.00	.21086E+04
45	668862.38	5981943.00	.20819E+04
46	668962.38	5981943.00	.23820E+04
47	669062.38	5981943.00	.24827E+04

48	669162.38	5981943.00	.25386E+04
49	669262.38	5981943.00	.27407E+04
50	669362.38	5981943.00	.29514E+04
51	669462.38	5981943.00	.34055E+04
52	669562.38	5981943.00	.38860E+04
53	669662.38	5981943.00	.52351E+04
54	669762.38	5981943.00	.71204E+04
55	669862.38	5981943.00	.87049E+04
56	669962.38	5981943.00	.97248E+04
57	670062.38	5981943.00	.10627E+05
58	670162.38	5981943.00	.12548E+05
59	670262.38	5981943.00	.12587E+05
60	670362.38	5981943.00	.15940E+05
61	670462.38	5981943.00	.20656E+05
62	670562.38	5981943.00	.25361E+05
63	670662.38	5981943.00	.28459E+05
64	668662.38	5982043.00	.35345E+04
65	668762.38	5982043.00	.31536E+04
66	668862.38	5982043.00	.29767E+04
67	668962.38	5982043.00	.28784E+04
68	669062.38	5982043.00	.32240E+04
69	669162.38	5982043.00	.32749E+04
70	669262.38	5982043.00	.33677E+04
71	669362.38	5982043.00	.37928E+04
72	669462.38	5982043.00	.43709E+04
73	669562.38	5982043.00	.45739E+04
74	669662.38	5982043.00	.70874E+04
75	669762.38	5982043.00	.96053E+04
76	669862.38	5982043.00	.11553E+05
77	669962.38	5982043.00	.13437E+05
78	670062.38	5982043.00	.14557E+05
79	670162.38	5982043.00	.16870E+05
80	670262.38	5982043.00	.18606E+05
81	670362.38	5982043.00	.26563E+05
82	670462.38	5982043.00	.31972E+05
83	670562.38	5982043.00	.37733E+05
84	670662.38	5982043.00	.39966E+05
85	668662.38	5982143.00	.45736E+04
86	668762.38	5982143.00	.49214E+04
87	668862.38	5982143.00	.43234E+04
88	668962.38	5982143.00	.42505E+04
89	669062.38	5982143.00	.40971E+04
90	669162.38	5982143.00	.45117E+04
91	669262.38	5982143.00	.44721E+04
92	669362.38	5982143.00	.46568E+04
93	669462.38	5982143.00	.51024E+04
94	669562.38	5982143.00	.56409E+04
95	669662.38	5982143.00	.95598E+04
96	669762.38	5982143.00	.13728E+05
97	669862.38	5982143.00	.16668E+05
98	669962.38	5982143.00	.19040E+05
99	670062.38	5982143.00	.21588E+05
100	670162.38	5982143.00	.22676E+05
101	670262.38	5982143.00	.32435E+05
102	670362.38	5982143.00	.40588E+05
103	670462.38	5982143.00	.47729E+05
104	670562.38	5982143.00	.54174E+05
105	670662.38	5982143.00	.53704E+05
106	668662.38	5982243.00	.55952E+04
107	668762.38	5982243.00	.61920E+04
108	668862.38	5982243.00	.67088E+04
109	668962.38	5982243.00	.66832E+04
110	669062.38	5982243.00	.63453E+04
111	669162.38	5982243.00	.58401E+04
112	669262.38	5982243.00	.68323E+04
113	669362.38	5982243.00	.65028E+04
114	669462.38	5982243.00	.82107E+04
115	669562.38	5982243.00	.82165E+04
116	669662.38	5982243.00	.13482E+05
117	669762.38	5982243.00	.19078E+05
118	669862.38	5982243.00	.24015E+05
119	669962.38	5982243.00	.28142E+05
120	670062.38	5982243.00	.29929E+05
121	670162.38	5982243.00	.43875E+05
122	670262.38	5982243.00	.55806E+05
123	670362.38	5982243.00	.63835E+05
124	670462.38	5982243.00	.72037E+05

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125	670562.38	5982243.00	.73048E+05
126	670662.38	5982243.00	.70657E+05
127	668662.38	5982343.00	.73015E+04
128	668762.38	5982343.00	.79711E+04
129	668862.38	5982343.00	.87219E+04
130	668962.38	5982343.00	.10065E+05
131	669062.38	5982343.00	.10656E+05
132	669162.38	5982343.00	.10173E+05
133	669262.38	5982343.00	.94756E+04
134	669362.38	5982343.00	.11226E+05
135	669462.38	5982343.00	.10928E+05
136	669562.38	5982343.00	.14365E+05
137	669662.38	5982343.00	.20758E+05
138	669762.38	5982343.00	.31242E+05
139	669862.38	5982343.00	.38929E+05
140	669962.38	5982343.00	.43591E+05
141	670062.38	5982343.00	.58922E+05
142	670162.38	5982343.00	.76696E+05
143	670262.38	5982343.00	.92871E+05
144	670362.38	5982343.00	.94537E+05
145	670462.38	5982343.00	.94618E+05
146	670562.38	5982343.00	.90666E+05
147	670662.38	5982343.00	.81760E+05
148	668662.38	5982443.00	.98898E+04
149	668762.38	5982443.00	.11305E+05
150	668862.38	5982443.00	.12369E+05
151	668962.38	5982443.00	.13065E+05
152	669062.38	5982443.00	.14793E+05
153	669162.38	5982443.00	.16707E+05
154	669262.38	5982443.00	.18473E+05
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157	669562.38	5982443.00	.23370E+05
158	669662.38	5982443.00	.35337E+05
159	669762.38	5982443.00	.57743E+05
160	669862.38	5982443.00	.68771E+05
161	669962.38	5982443.00	.87135E+05
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163	670162.38	5982443.00	.12993E+06
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165	670362.38	5982443.00	.12224E+06
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167	670562.38	5982443.00	.10157E+06
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169	668662.38	5982543.00	.12631E+05
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172	668962.38	5982543.00	.19298E+05
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189	670662.38	5982543.00	.90511E+05
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194	669062.38	5982643.00	.31001E+05
195	669162.38	5982643.00	.41723E+05
196	669262.38	5982643.00	.54341E+05
197	669362.38	5982643.00	.75660E+05
198	669462.38	5982643.00	.11957E+06
199	669562.38	5982643.00	.11683E+06
200	669662.38	5982643.00	.16400E+06
201	669762.38	5982643.00	.29069E+06

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206	670262.38	5982643.00	.16515E+06
207	670362.38	5982643.00	.14449E+06
208	670462.38	5982643.00	.12307E+06
209	670562.38	5982643.00	.10898E+06
210	670662.38	5982643.00	.99504E+05
211	668662.38	5982743.00	.82022E+04
212	668762.38	5982743.00	.99536E+04
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214	668962.38	5982743.00	.16678E+05
215	669062.38	5982743.00	.22294E+05
216	669162.38	5982743.00	.30152E+05
217	669262.38	5982743.00	.48704E+05
218	669362.38	5982743.00	.88106E+05
219	669462.38	5982743.00	.19875E+06
220	669562.38	5982743.00	.53131E+06
221	669662.38	5982743.00	.63168E+06
222	669762.38	5982743.00	.78808E+06
223	669862.38	5982743.00	.55688E+06
224	669962.38	5982743.00	.37209E+06
225	670062.38	5982743.00	.27139E+06
226	670162.38	5982743.00	.21752E+06
227	670262.38	5982743.00	.18399E+06
228	670362.38	5982743.00	.16314E+06
229	670462.38	5982743.00	.14291E+06
230	670562.38	5982743.00	.12184E+06
231	670662.38	5982743.00	.10842E+06
232	668662.38	5982843.00	.71484E+04
233	668762.38	5982843.00	.90339E+04
234	668862.38	5982843.00	.11039E+05
235	668962.38	5982843.00	.13719E+05
236	669062.38	5982843.00	.17897E+05
237	669162.38	5982843.00	.23241E+05
238	669262.38	5982843.00	.36170E+05
239	669362.38	5982843.00	.66088E+05
240	669462.38	5982843.00	.14104E+06
241	669562.38	5982843.00	.32765E+06
242	669662.38	5982843.00	.10282E+07
243	669762.38	5982843.00	.10804E+07
244	669862.38	5982843.00	.60560E+06
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247	670162.38	5982843.00	.19243E+06
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249	670362.38	5982843.00	.15205E+06
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258	669162.38	5982943.00	.20403E+05
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266	669962.38	5982943.00	.36436E+06
267	670062.38	5982943.00	.23079E+06
268	670162.38	5982943.00	.18366E+06
269	670262.38	5982943.00	.15143E+06
270	670362.38	5982943.00	.12981E+06
271	670462.38	5982943.00	.11363E+06
272	670562.38	5982943.00	.99613E+05
273	670662.38	5982943.00	.89131E+05
274	668662.38	5983043.00	.54302E+04
275	668762.38	5983043.00	.67433E+04
276	668862.38	5983043.00	.84736E+04
277	668962.38	5983043.00	.11162E+05
278	669062.38	5983043.00	.15393E+05

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283	669562.38	5983043.00	.14790E+06
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285	669762.38	5983043.00	.32761E+06
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292	670462.38	5983043.00	.10640E+06
293	670562.38	5983043.00	.93336E+05
294	670662.38	5983043.00	.82404E+05
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296	668762.38	5983143.00	.72763E+04
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298	668962.38	5983143.00	.11050E+05
299	669062.38	5983143.00	.14251E+05
300	669162.38	5983143.00	.17102E+05
301	669262.38	5983143.00	.23497E+05
302	669362.38	5983143.00	.36040E+05
303	669462.38	5983143.00	.57750E+05
304	669562.38	5983143.00	.10394E+06
305	669662.38	5983143.00	.15391E+06
306	669762.38	5983143.00	.20733E+06
307	669862.38	5983143.00	.22416E+06
308	669962.38	5983143.00	.23989E+06
309	670062.38	5983143.00	.19751E+06
310	670162.38	5983143.00	.16344E+06
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314	670562.38	5983143.00	.88288E+05
315	670662.38	5983143.00	.79452E+05
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317	668762.38	5983243.00	.70502E+04
318	668862.38	5983243.00	.89846E+04
319	668962.38	5983243.00	.98940E+04
320	669062.38	5983243.00	.11828E+05
321	669162.38	5983243.00	.15532E+05
322	669262.38	5983243.00	.21868E+05
323	669362.38	5983243.00	.32237E+05
324	669462.38	5983243.00	.52647E+05
325	669562.38	5983243.00	.71899E+05
326	669662.38	5983243.00	.10987E+06
327	669762.38	5983243.00	.13800E+06
328	669862.38	5983243.00	.16381E+06
329	669962.38	5983243.00	.17554E+06
330	670062.38	5983243.00	.17518E+06
331	670162.38	5983243.00	.15307E+06
332	670262.38	5983243.00	.12720E+06
333	670362.38	5983243.00	.11538E+06
334	670462.38	5983243.00	.96078E+05
335	670562.38	5983243.00	.85192E+05
336	670662.38	5983243.00	.75240E+05
337	668662.38	5983343.00	.60747E+04
338	668762.38	5983343.00	.63581E+04
339	668862.38	5983343.00	.74765E+04
340	668962.38	5983343.00	.90253E+04
341	669062.38	5983343.00	.11143E+05
342	669162.38	5983343.00	.14414E+05
343	669262.38	5983343.00	.20695E+05
344	669362.38	5983343.00	.30157E+05
345	669462.38	5983343.00	.45655E+05
346	669562.38	5983343.00	.56625E+05
347	669662.38	5983343.00	.81768E+05
348	669762.38	5983343.00	.96896E+05
349	669862.38	5983343.00	.11967E+06
350	669962.38	5983343.00	.12731E+06
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352	670162.38	5983343.00	.14476E+06
353	670262.38	5983343.00	.12231E+06
354	670362.38	5983343.00	.10362E+06
355	670462.38	5983343.00	.94835E+05

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358	668662.38	5983443.00	.52580E+04
359	668762.38	5983443.00	.56889E+04
360	668862.38	5983443.00	.73279E+04
361	668962.38	5983443.00	.83888E+04
362	669062.38	5983443.00	.10199E+05
363	669162.38	5983443.00	.14480E+05
364	669262.38	5983443.00	.19478E+05
365	669362.38	5983443.00	.28216E+05
366	669462.38	5983443.00	.36928E+05
367	669562.38	5983443.00	.46034E+05
368	669662.38	5983443.00	.65224E+05
369	669762.38	5983443.00	.75428E+05
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373	670162.38	5983443.00	.12913E+06
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375	670362.38	5983443.00	.10035E+06
376	670462.38	5983443.00	.86820E+05
377	670562.38	5983443.00	.82444E+05
378	670662.38	5983443.00	.74746E+05
379	668662.38	5983543.00	.46522E+04
380	668762.38	5983543.00	.57149E+04
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382	668962.38	5983543.00	.78559E+04
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384	669162.38	5983543.00	.14132E+05
385	669262.38	5983543.00	.18965E+05
386	669362.38	5983543.00	.26859E+05
387	669462.38	5983543.00	.31048E+05
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389	669662.38	5983543.00	.55085E+05
390	669762.38	5983543.00	.60051E+05
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398	670562.38	5983543.00	.76561E+05
399	670662.38	5983543.00	.68895E+05
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401	668762.38	5983643.00	.52355E+04
402	668862.38	5983643.00	.62415E+04
403	668962.38	5983643.00	.83230E+04
404	669062.38	5983643.00	.10467E+05
405	669162.38	5983643.00	.13171E+05
406	669262.38	5983643.00	.17581E+05
407	669362.38	5983643.00	.23352E+05
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409	669562.38	5983643.00	.31831E+05
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417	670362.38	5983643.00	.91168E+05
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422	668762.38	5983743.00	.51221E+04
423	668862.38	5983743.00	.65260E+04
424	668962.38	5983743.00	.80167E+04
425	669062.38	5983743.00	.10063E+05
426	669162.38	5983743.00	.12840E+05
427	669262.38	5983743.00	.17593E+05
428	669362.38	5983743.00	.20518E+05
429	669462.38	5983743.00	.22737E+05
430	669562.38	5983743.00	.27903E+05
431	669662.38	5983743.00	.37951E+05
432	669762.38	5983743.00	.38203E+05

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438	670362.38	5983743.00	.81660E+05
439	670462.38	5983743.00	.76604E+05
440	670562.38	5983743.00	.68908E+05
441	670662.38	5983743.00	.61232E+05
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446	669650.81	5982839.00	.12926E+07
447	669664.31	5982839.50	.15974E+07
448	669691.69	5982847.50	.10718E+07
449	669708.88	5982859.00	.10416E+07
450	669713.50	5982852.50	.11053E+07
451	669732.13	5982861.50	.10630E+07
452	669772.50	5982795.50	.10048E+07
453	669729.31	5982771.50	.99550E+06
454	669749.31	5982740.50	.75528E+06
455	669769.31	5982736.50	.74021E+06
456	669879.81	5982802.50	.54557E+06
457	669897.88	5982770.50	.50664E+06
458	669900.69	5982771.50	.49580E+06
459	669904.00	5982769.50	.48987E+06
460	669905.81	5982767.50	.49775E+06
461	669986.69	5982819.00	.33894E+06
462	670002.88	5982833.50	.30893E+06
463	670022.88	5982846.00	.28287E+06
464	670034.50	5982853.50	.26636E+06
465	670043.81	5982903.50	.26419E+06
466	670040.13	5982913.00	.26120E+06
467	670036.81	5982911.50	.26536E+06
468	670027.50	5982925.50	.26366E+06
469	670028.50	5982927.00	.26013E+06
470	670022.00	5982945.50	.26416E+06
471	670139.50	5983013.00	.17958E+06
472	670150.19	5982996.00	.17607E+06
473	670074.88	5982953.00	.21809E+06
474	670066.13	5982927.50	.24055E+06
475	670055.38	5982871.50	.25244E+06
476	670149.19	5982716.50	.21458E+06
477	669873.81	5982657.50	.40321E+06
478	669870.50	5982660.00	.40916E+06
479	669868.19	5982659.50	.41199E+06
480	669865.88	5982655.50	.40048E+06
481	669699.63	5982598.00	.16299E+06
482	669695.88	5982606.50	.17347E+06
483	669687.50	5982605.00	.14778E+06
484	669670.81	5982647.00	.19718E+06
485	669711.19	5982674.00	.30138E+06
486	669711.69	5982677.00	.30584E+06
487	669732.13	5982690.50	.37170E+06
488	669714.50	5982719.00	.41386E+06
489	669712.63	5982730.00	.47909E+06
490	669709.81	5982737.00	.47413E+06
491	669700.13	5982731.50	.28415E+06
492	669694.88	5982739.50	.27650E+06
493	669651.31	5982715.50	.27206E+06
494	669639.69	5982741.50	.14419E+07
495	669624.31	5982735.00	.93509E+06
496	669618.81	5982749.50	.12219E+07
497	669628.50	5982756.00	.21510E+07
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499	669608.13	5982805.00	.99717E+06
500	669601.63	5982820.50	.57933E+06
501	669607.63	5982823.00	.60118E+06
502	669603.88	5982831.50	.53269E+06
503	669600.19	5982828.00	.52824E+06
504	669564.00	5982918.00	.22003E+06
505	669427.31	5982483.00	.24344E+05
506	669447.31	5982483.00	.25743E+05
507	669467.31	5982483.00	.25936E+05
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676	669747.31	5982603.00	.20324E+06
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713	669547.31	5982643.00	.12364E+06
714	669567.31	5982643.00	.12730E+06
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727	669467.31	5982663.00	.13385E+06
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857	669807.31	5982823.00	.84515E+06
858	669827.31	5982823.00	.74587E+06
859	669847.31	5982823.00	.63985E+06
860	669867.31	5982823.00	.58157E+06
861	669887.31	5982823.00	.50841E+06
862	669907.31	5982823.00	.45832E+06
863	669927.31	5982823.00	.41298E+06
864	669427.31	5982843.00	.10333E+06
865	669447.31	5982843.00	.12001E+06
866	669467.31	5982843.00	.14683E+06
867	669487.31	5982843.00	.17069E+06
868	669507.31	5982843.00	.20898E+06
869	669527.31	5982843.00	.24459E+06
870	669547.31	5982843.00	.29050E+06
871	669567.31	5982843.00	.34993E+06
872	669587.31	5982843.00	.42591E+06
873	669667.31	5982843.00	.10668E+07
874	669747.31	5982843.00	.11627E+07
875	669767.31	5982843.00	.10508E+07
876	669787.31	5982843.00	.97228E+06
877	669807.31	5982843.00	.90414E+06
878	669827.31	5982843.00	.79347E+06
879	669847.31	5982843.00	.66877E+06
880	669867.31	5982843.00	.59086E+06
881	669887.31	5982843.00	.51821E+06
882	669907.31	5982843.00	.47424E+06
883	669927.31	5982843.00	.42563E+06
884	669427.31	5982863.00	.10112E+06
885	669447.31	5982863.00	.12067E+06
886	669467.31	5982863.00	.14225E+06
887	669487.31	5982863.00	.16819E+06
888	669507.31	5982863.00	.18900E+06
889	669527.31	5982863.00	.21726E+06
890	669547.31	5982863.00	.26323E+06
891	669567.31	5982863.00	.31135E+06
892	669667.31	5982863.00	.89027E+06
893	669687.31	5982863.00	.90232E+06
894	669707.31	5982863.00	.10001E+07

895	669727.31	5982863.00	.10044E+07
896	669747.31	5982863.00	.10540E+07
897	669767.31	5982863.00	.99502E+06
898	669787.31	5982863.00	.90266E+06
899	669807.31	5982863.00	.85089E+06
900	669827.31	5982863.00	.78067E+06
901	669847.31	5982863.00	.70618E+06
902	669867.31	5982863.00	.61208E+06
903	669887.31	5982863.00	.52972E+06
904	669907.31	5982863.00	.47167E+06
905	669927.31	5982863.00	.42661E+06
906	669427.31	5982883.00	.10109E+06
907	669447.31	5982883.00	.11718E+06
908	669467.31	5982883.00	.12551E+06
909	669487.31	5982883.00	.14555E+06
910	669507.31	5982883.00	.17200E+06
911	669527.31	5982883.00	.19854E+06
912	669547.31	5982883.00	.23284E+06
913	669567.31	5982883.00	.27943E+06
914	669667.31	5982883.00	.75162E+06
915	669687.31	5982883.00	.75754E+06
916	669707.31	5982883.00	.85418E+06
917	669727.31	5982883.00	.89131E+06
918	669747.31	5982883.00	.93549E+06
919	669767.31	5982883.00	.91931E+06
920	669787.31	5982883.00	.85882E+06
921	669807.31	5982883.00	.78013E+06
922	669827.31	5982883.00	.71466E+06
923	669847.31	5982883.00	.65765E+06
924	669867.31	5982883.00	.60748E+06
925	669887.31	5982883.00	.54409E+06
926	669907.31	5982883.00	.47117E+06
927	669927.31	5982883.00	.43021E+06
928	669427.31	5982903.00	.89360E+05
929	669447.31	5982903.00	.10014E+06
930	669467.31	5982903.00	.11656E+06
931	669487.31	5982903.00	.13966E+06
932	669507.31	5982903.00	.15564E+06
933	669527.31	5982903.00	.18089E+06
934	669547.31	5982903.00	.20532E+06
935	669567.31	5982903.00	.24743E+06
936	669647.31	5982903.00	.56749E+06
937	669667.31	5982903.00	.62445E+06
938	669687.31	5982903.00	.65177E+06
939	669707.31	5982903.00	.74945E+06
940	669727.31	5982903.00	.74736E+06
941	669747.31	5982903.00	.74828E+06
942	669767.31	5982903.00	.83847E+06
943	669787.31	5982903.00	.80618E+06
944	669807.31	5982903.00	.74682E+06
945	669827.31	5982903.00	.67763E+06
946	669847.31	5982903.00	.60588E+06
947	669867.31	5982903.00	.57746E+06
948	669887.31	5982903.00	.53701E+06
949	669907.31	5982903.00	.48320E+06
950	669927.31	5982903.00	.42971E+06
951	669427.31	5982923.00	.84899E+05
952	669447.31	5982923.00	.96308E+05
953	669467.31	5982923.00	.10627E+06
954	669487.31	5982923.00	.12107E+06
955	669507.31	5982923.00	.13934E+06
956	669527.31	5982923.00	.15587E+06
957	669547.31	5982923.00	.18565E+06
958	669567.31	5982923.00	.21668E+06
959	669647.31	5982923.00	.48734E+06
960	669667.31	5982923.00	.54150E+06
961	669687.31	5982923.00	.56006E+06
962	669707.31	5982923.00	.63498E+06
963	669727.31	5982923.00	.65999E+06
964	669747.31	5982923.00	.67756E+06
965	669767.31	5982923.00	.73138E+06
966	669787.31	5982923.00	.75674E+06
967	669807.31	5982923.00	.70690E+06
968	669827.31	5982923.00	.63430E+06
969	669847.31	5982923.00	.58571E+06
970	669867.31	5982923.00	.52569E+06
971	669887.31	5982923.00	.50329E+06

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972	669907.31	5982923.00	.45432E+06
973	669927.31	5982923.00	.43740E+06
974	669427.31	5982943.00	.76915E+05
975	669447.31	5982943.00	.87452E+05
976	669467.31	5982943.00	.97705E+05
977	669487.31	5982943.00	.11170E+06
978	669507.31	5982943.00	.12205E+06
979	669527.31	5982943.00	.14662E+06
980	669547.31	5982943.00	.16406E+06
981	669567.31	5982943.00	.21897E+06
982	669587.31	5982943.00	.26243E+06
983	669607.31	5982943.00	.34369E+06
984	669627.31	5982943.00	.38529E+06
985	669647.31	5982943.00	.41026E+06
986	669667.31	5982943.00	.47503E+06
987	669687.31	5982943.00	.48718E+06
988	669707.31	5982943.00	.53602E+06
989	669727.31	5982943.00	.56659E+06
990	669747.31	5982943.00	.60994E+06
991	669767.31	5982943.00	.59742E+06
992	669787.31	5982943.00	.65728E+06
993	669807.31	5982943.00	.65468E+06
994	669827.31	5982943.00	.62449E+06
995	669847.31	5982943.00	.56327E+06
996	669867.31	5982943.00	.50946E+06
997	669887.31	5982943.00	.46029E+06
998	669907.31	5982943.00	.43605E+06
999	669927.31	5982943.00	.41141E+06
1000	669427.31	5982963.00	.73502E+05
1001	669447.31	5982963.00	.80515E+05
1002	669467.31	5982963.00	.92641E+05
1003	669487.31	5982963.00	.97564E+05
1004	669507.31	5982963.00	.11574E+06
1005	669527.31	5982963.00	.13352E+06
1006	669547.31	5982963.00	.16410E+06
1007	669567.31	5982963.00	.19882E+06
1008	669587.31	5982963.00	.24498E+06
1009	669607.31	5982963.00	.31049E+06
1010	669627.31	5982963.00	.33566E+06
1011	669647.31	5982963.00	.35088E+06
1012	669667.31	5982963.00	.41919E+06
1013	669687.31	5982963.00	.42379E+06
1014	669707.31	5982963.00	.47368E+06
1015	669727.31	5982963.00	.51502E+06
1016	669747.31	5982963.00	.54091E+06
1017	669767.31	5982963.00	.51788E+06
1018	669787.31	5982963.00	.55870E+06
1019	669807.31	5982963.00	.59017E+06
1020	669827.31	5982963.00	.57913E+06
1021	669847.31	5982963.00	.53924E+06
1022	669867.31	5982963.00	.47842E+06
1023	669887.31	5982963.00	.44521E+06
1024	669907.31	5982963.00	.40754E+06
1025	669927.31	5982963.00	.38406E+06
1026	669427.31	5982983.00	.66478E+05
1027	669447.31	5982983.00	.74880E+05
1028	669467.31	5982983.00	.81123E+05
1029	669487.31	5982983.00	.92661E+05
1030	669507.31	5982983.00	.10796E+06
1031	669527.31	5982983.00	.12808E+06
1032	669547.31	5982983.00	.15130E+06
1033	669567.31	5982983.00	.18801E+06
1034	669587.31	5982983.00	.22286E+06
1035	669607.31	5982983.00	.27287E+06
1036	669627.31	5982983.00	.29766E+06
1037	669647.31	5982983.00	.31369E+06
1038	669667.31	5982983.00	.37264E+06
1039	669687.31	5982983.00	.37366E+06
1040	669707.31	5982983.00	.39197E+06
1041	669727.31	5982983.00	.44161E+06
1042	669747.31	5982983.00	.46269E+06
1043	669767.31	5982983.00	.48637E+06
1044	669787.31	5982983.00	.48667E+06
1045	669807.31	5982983.00	.52781E+06
1046	669827.31	5982983.00	.53239E+06
1047	669847.31	5982983.00	.51087E+06
1048	669867.31	5982983.00	.47803E+06

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1049	669887.31	5982983.00	.42295E+06
1050	669907.31	5982983.00	.39338E+06
1051	669927.31	5982983.00	.36468E+06

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Table A.7.6 2019 Mullingar Meteorological Data(7.1m stack)

POLLUTANT: OTHER	TYPE:	CONC (MICROGRAMS/M**3)	8760	GROUP: ALL
SR#	DC#	X-COORD	Y-COORD	CONC
1	442	669507.60	5982795.80	25795.2627054666772892
2	443	669640.30	5982611.70	17128.6686307839227084
3	444	669698.00	5982572.70	18175.7368608734541340
4	445	669868.20	5982603.90	21259.9912278845367837
5	446	669893.10	5982611.70	21825.3232778549172508
6	447	669925.90	5982622.60	21510.9758992568531539
7	448	669960.20	5982627.30	19969.4276693664360209
8	449	669977.40	5982628.80	19123.1167072707612533
9	450	670002.40	5982630.40	17913.4857226734966389
10	451	670033.60	5982638.20	16760.9349897744978080
11	452	670058.60	5982644.50	15864.6184294999220583
12	453	670096.00	5982658.50	14690.6125266143717454
13	454	670124.10	5982660.10	13673.3390215999952488
14	455	670175.60	5982669.40	12195.5458889626788732
15	456	670253.60	5982675.70	10390.6318676373830385
16	457	670238.00	5982745.90	11124.5011105288267572
17	458	670224.00	5982769.30	11428.3103252715372946
18	459	670206.80	5982803.60	11511.0014697525366500
19	460	670185.00	5982833.30	11541.9866886993077060
20	461	670174.10	5982861.40	11260.0883426895561570
21	462	670153.80	5982891.00	11273.1632887790201494
22	463	669495.20	5982944.10	16434.2163266519928584
23	464	669532.60	5983076.80	13378.7387999228103581
POLLUTANT: OTHER	TYPE:	CONC (MICROGRAMS/M**3)	1ST HIGH	1-HR AVG. GROUP: ALL
SR#	DC#	X-COORD	Y-COORD	CONC YYMMDDHH
1	442	669507.60	5982795.80	1368096.30135 19052303
2	443	669640.30	5982611.70	1255144.61695 19070302
3	444	669698.00	5982572.70	1009438.95534 19062603
4	445	669868.20	5982603.90	776148.56688 19070422
5	446	669893.10	5982611.70	951836.57935 19071123
6	447	669925.90	5982622.60	1026946.54771 19071606
7	448	669960.20	5982627.30	1048275.04206 19080723
8	449	669977.40	5982628.80	1022919.69385 19092208
9	450	670002.40	5982630.40	1054839.22669 19092208
10	451	670033.60	5982638.20	954853.63368 19092208
11	452	670058.60	5982644.50	793353.22207 19092208
12	453	670096.00	5982658.50	627417.68261 19073104
13	454	670124.10	5982660.10	619487.49919 19073104
14	455	670175.60	5982669.40	675212.42922 19080801
15	456	670253.60	5982675.70	655031.66499 19080801
16	457	670238.00	5982745.90	555104.68797 19072623
17	458	670224.00	5982769.30	600662.49343 19072623
18	459	670206.80	5982803.60	606977.61840 19092507
19	460	670185.00	5982833.30	787487.55077 19071622
20	461	670174.10	5982861.40	852667.28088 19071622
21	462	670153.80	5982891.00	861723.40724 19082504
22	463	669495.20	5982944.10	921972.54752 19051423
23	464	669532.60	5983076.80	728691.63029 19080404

Table A.7.7 2020 Mullingar Meteorological Data (7.1m stack)

Percentile Report

Parameters:

Source group = ALL
 Avg. period = 1 hour
 Period = 2020/1/1/1 to 2020/12/31/24
 Avg. periods = 8784
 Percentiles = 98
 Scaling = 1
 Translation = 0
 Units = Micrograms/m**3

All Receptors:

Percentile	Corresponding Highest Value	Receptor X-coord (m)	Receptor Y-coord (m)	Maximum Concentration
98	176	669628.50	5982756.00	.28416E+07

Individual Receptors:

Receptor Number	Receptor X-coord (m)	Receptor Y-coord (m)	Percentile > > > 98
1	668662.38	5981743.00	.64029E+04
2	668762.38	5981743.00	.58743E+04
3	668862.38	5981743.00	.58731E+04
4	668962.38	5981743.00	.61122E+04
5	669062.38	5981743.00	.60768E+04
6	669162.38	5981743.00	.72856E+04
7	669262.38	5981743.00	.77086E+04
8	669362.38	5981743.00	.92625E+04
9	669462.38	5981743.00	.75683E+04
10	669562.38	5981743.00	.79692E+04
11	669662.38	5981743.00	.80511E+04
12	669762.38	5981743.00	.96198E+04
13	669862.38	5981743.00	.12810E+05
14	669962.38	5981743.00	.15602E+05
15	670062.38	5981743.00	.20034E+05
16	670162.38	5981743.00	.18781E+05
17	670262.38	5981743.00	.15582E+05
18	670362.38	5981743.00	.14470E+05
19	670462.38	5981743.00	.14390E+05
20	670562.38	5981743.00	.12378E+05
21	670662.38	5981743.00	.14461E+05
22	668662.38	5981843.00	.90825E+04
23	668762.38	5981843.00	.80356E+04
24	668862.38	5981843.00	.71739E+04
25	668962.38	5981843.00	.73003E+04
26	669062.38	5981843.00	.75083E+04
27	669162.38	5981843.00	.79592E+04
28	669262.38	5981843.00	.98690E+04
29	669362.38	5981843.00	.11099E+05
30	669462.38	5981843.00	.96862E+04
31	669562.38	5981843.00	.97376E+04
32	669662.38	5981843.00	.99307E+04
33	669762.38	5981843.00	.11879E+05
34	669862.38	5981843.00	.16976E+05
35	669962.38	5981843.00	.19906E+05
36	670062.38	5981843.00	.23947E+05
37	670162.38	5981843.00	.18812E+05
38	670262.38	5981843.00	.17305E+05
39	670362.38	5981843.00	.16514E+05
40	670462.38	5981843.00	.14679E+05
41	670562.38	5981843.00	.17668E+05
42	670662.38	5981843.00	.18575E+05
43	668662.38	5981943.00	.12042E+05
44	668762.38	5981943.00	.11336E+05
45	668862.38	5981943.00	.10387E+05
46	668962.38	5981943.00	.89445E+04
47	669062.38	5981943.00	.92011E+04

48	669162.38	5981943.00	.94294E+04
49	669262.38	5981943.00	.11540E+05
50	669362.38	5981943.00	.13154E+05
51	669462.38	5981943.00	.12987E+05
52	669562.38	5981943.00	.11981E+05
53	669662.38	5981943.00	.12671E+05
54	669762.38	5981943.00	.15220E+05
55	669862.38	5981943.00	.23595E+05
56	669962.38	5981943.00	.27445E+05
57	670062.38	5981943.00	.26804E+05
58	670162.38	5981943.00	.23134E+05
59	670262.38	5981943.00	.20975E+05
60	670362.38	5981943.00	.18047E+05
61	670462.38	5981943.00	.21536E+05
62	670562.38	5981943.00	.22826E+05
63	670662.38	5981943.00	.27912E+05
64	668662.38	5982043.00	.17557E+05
65	668762.38	5982043.00	.16816E+05
66	668862.38	5982043.00	.14402E+05
67	668962.38	5982043.00	.13707E+05
68	669062.38	5982043.00	.11677E+05
69	669162.38	5982043.00	.12436E+05
70	669262.38	5982043.00	.12488E+05
71	669362.38	5982043.00	.16226E+05
72	669462.38	5982043.00	.18569E+05
73	669562.38	5982043.00	.15334E+05
74	669662.38	5982043.00	.15989E+05
75	669762.38	5982043.00	.20769E+05
76	669862.38	5982043.00	.29749E+05
77	669962.38	5982043.00	.36667E+05
78	670062.38	5982043.00	.28225E+05
79	670162.38	5982043.00	.26960E+05
80	670262.38	5982043.00	.23386E+05
81	670362.38	5982043.00	.26712E+05
82	670462.38	5982043.00	.28087E+05
83	670562.38	5982043.00	.33108E+05
84	670662.38	5982043.00	.31723E+05
85	668662.38	5982143.00	.21242E+05
86	668762.38	5982143.00	.22707E+05
87	668862.38	5982143.00	.21699E+05
88	668962.38	5982143.00	.18989E+05
89	669062.38	5982143.00	.17827E+05
90	669162.38	5982143.00	.16020E+05
91	669262.38	5982143.00	.17270E+05
92	669362.38	5982143.00	.19932E+05
93	669462.38	5982143.00	.25417E+05
94	669562.38	5982143.00	.20558E+05
95	669662.38	5982143.00	.21332E+05
96	669762.38	5982143.00	.29266E+05
97	669862.38	5982143.00	.37648E+05
98	669962.38	5982143.00	.44863E+05
99	670062.38	5982143.00	.36580E+05
100	670162.38	5982143.00	.31615E+05
101	670262.38	5982143.00	.34416E+05
102	670362.38	5982143.00	.37976E+05
103	670462.38	5982143.00	.40038E+05
104	670562.38	5982143.00	.39138E+05
105	670662.38	5982143.00	.36894E+05
106	668662.38	5982243.00	.24218E+05
107	668762.38	5982243.00	.26249E+05
108	668862.38	5982243.00	.28958E+05
109	668962.38	5982243.00	.29475E+05
110	669062.38	5982243.00	.26872E+05
111	669162.38	5982243.00	.24333E+05
112	669262.38	5982243.00	.21698E+05
113	669362.38	5982243.00	.22867E+05
114	669462.38	5982243.00	.31548E+05
115	669562.38	5982243.00	.31799E+05
116	669662.38	5982243.00	.30319E+05
117	669762.38	5982243.00	.41543E+05
118	669862.38	5982243.00	.60968E+05
119	669962.38	5982243.00	.44478E+05
120	670062.38	5982243.00	.43786E+05
121	670162.38	5982243.00	.42232E+05
122	670262.38	5982243.00	.49785E+05
123	670362.38	5982243.00	.49614E+05
124	670462.38	5982243.00	.50004E+05

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125	670562.38	5982243.00	.48755E+05
126	670662.38	5982243.00	.48471E+05
127	668662.38	5982343.00	.25652E+05
128	668762.38	5982343.00	.31409E+05
129	668862.38	5982343.00	.35020E+05
130	668962.38	5982343.00	.39054E+05
131	669062.38	5982343.00	.42780E+05
132	669162.38	5982343.00	.40770E+05
133	669262.38	5982343.00	.36281E+05
134	669362.38	5982343.00	.34240E+05
135	669462.38	5982343.00	.42389E+05
136	669562.38	5982343.00	.50297E+05
137	669662.38	5982343.00	.46532E+05
138	669762.38	5982343.00	.63595E+05
139	669862.38	5982343.00	.78181E+05
140	669962.38	5982343.00	.58000E+05
141	670062.38	5982343.00	.56461E+05
142	670162.38	5982343.00	.72964E+05
143	670262.38	5982343.00	.67144E+05
144	670362.38	5982343.00	.65679E+05
145	670462.38	5982343.00	.65947E+05
146	670562.38	5982343.00	.60032E+05
147	670662.38	5982343.00	.53228E+05
148	668662.38	5982443.00	.24359E+05
149	668762.38	5982443.00	.30242E+05
150	668862.38	5982443.00	.36262E+05
151	668962.38	5982443.00	.48198E+05
152	669062.38	5982443.00	.54519E+05
153	669162.38	5982443.00	.66151E+05
154	669262.38	5982443.00	.66990E+05
155	669362.38	5982443.00	.61233E+05
156	669462.38	5982443.00	.62575E+05
157	669562.38	5982443.00	.78568E+05
158	669662.38	5982443.00	.74947E+05
159	669762.38	5982443.00	.10908E+06
160	669862.38	5982443.00	.96689E+05
161	669962.38	5982443.00	.86700E+05
162	670062.38	5982443.00	.10098E+06
163	670162.38	5982443.00	.99146E+05
164	670262.38	5982443.00	.94195E+05
165	670362.38	5982443.00	.84464E+05
166	670462.38	5982443.00	.71686E+05
167	670562.38	5982443.00	.63497E+05
168	670662.38	5982443.00	.54181E+05
169	668662.38	5982543.00	.24946E+05
170	668762.38	5982543.00	.30072E+05
171	668862.38	5982543.00	.36310E+05
172	668962.38	5982543.00	.44530E+05
173	669062.38	5982543.00	.57693E+05
174	669162.38	5982543.00	.79210E+05
175	669262.38	5982543.00	.10472E+06
176	669362.38	5982543.00	.13798E+06
177	669462.38	5982543.00	.12147E+06
178	669562.38	5982543.00	.13340E+06
179	669662.38	5982543.00	.14147E+06
180	669762.38	5982543.00	.19551E+06
181	669862.38	5982543.00	.15071E+06
182	669962.38	5982543.00	.17230E+06
183	670062.38	5982543.00	.15921E+06
184	670162.38	5982543.00	.13767E+06
185	670262.38	5982543.00	.11024E+06
186	670362.38	5982543.00	.91153E+05
187	670462.38	5982543.00	.70924E+05
188	670562.38	5982543.00	.62893E+05
189	670662.38	5982543.00	.54224E+05
190	668662.38	5982643.00	.18341E+05
191	668762.38	5982643.00	.23367E+05
192	668862.38	5982643.00	.30890E+05
193	668962.38	5982643.00	.39430E+05
194	669062.38	5982643.00	.53262E+05
195	669162.38	5982643.00	.75760E+05
196	669262.38	5982643.00	.10935E+06
197	669362.38	5982643.00	.18803E+06
198	669462.38	5982643.00	.32005E+06
199	669562.38	5982643.00	.31754E+06
200	669662.38	5982643.00	.30382E+06
201	669762.38	5982643.00	.29653E+06

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202	669862.38	5982643.00	.32725E+06
203	669962.38	5982643.00	.27130E+06
204	670062.38	5982643.00	.18420E+06
205	670162.38	5982643.00	.14325E+06
206	670262.38	5982643.00	.10992E+06
207	670362.38	5982643.00	.88831E+05
208	670462.38	5982643.00	.75841E+05
209	670562.38	5982643.00	.69559E+05
210	670662.38	5982643.00	.60218E+05
211	668662.38	5982743.00	.12634E+05
212	668762.38	5982743.00	.15403E+05
213	668862.38	5982743.00	.19672E+05
214	668962.38	5982743.00	.24979E+05
215	669062.38	5982743.00	.34358E+05
216	669162.38	5982743.00	.47408E+05
217	669262.38	5982743.00	.73175E+05
218	669362.38	5982743.00	.12407E+06
219	669462.38	5982743.00	.26538E+06
220	669562.38	5982743.00	.70157E+06
221	669662.38	5982743.00	.90979E+06
222	669762.38	5982743.00	.67451E+06
223	669862.38	5982743.00	.46787E+06
224	669962.38	5982743.00	.32343E+06
225	670062.38	5982743.00	.21704E+06
226	670162.38	5982743.00	.16097E+06
227	670262.38	5982743.00	.13010E+06
228	670362.38	5982743.00	.10969E+06
229	670462.38	5982743.00	.91845E+05
230	670562.38	5982743.00	.81130E+05
231	670662.38	5982743.00	.71743E+05
232	668662.38	5982843.00	.88716E+04
233	668762.38	5982843.00	.10341E+05
234	668862.38	5982843.00	.12419E+05
235	668962.38	5982843.00	.15138E+05
236	669062.38	5982843.00	.20153E+05
237	669162.38	5982843.00	.26626E+05
238	669262.38	5982843.00	.38503E+05
239	669362.38	5982843.00	.64011E+05
240	669462.38	5982843.00	.12590E+06
241	669562.38	5982843.00	.26173E+06
242	669662.38	5982843.00	.99346E+06
243	669762.38	5982843.00	.92641E+06
244	669862.38	5982843.00	.53245E+06
245	669962.38	5982843.00	.30210E+06
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247	670162.38	5982843.00	.14747E+06
248	670262.38	5982843.00	.12024E+06
249	670362.38	5982843.00	.10418E+06
250	670462.38	5982843.00	.89462E+05
251	670562.38	5982843.00	.78091E+05
252	670662.38	5982843.00	.69816E+05
253	668662.38	5982943.00	.68698E+04
254	668762.38	5982943.00	.79887E+04
255	668862.38	5982943.00	.93338E+04
256	668962.38	5982943.00	.10597E+05
257	669062.38	5982943.00	.13971E+05
258	669162.38	5982943.00	.18699E+05
259	669262.38	5982943.00	.27730E+05
260	669362.38	5982943.00	.42948E+05
261	669462.38	5982943.00	.72981E+05
262	669562.38	5982943.00	.17231E+06
263	669662.38	5982943.00	.43296E+06
264	669762.38	5982943.00	.55407E+06
265	669862.38	5982943.00	.43563E+06
266	669962.38	5982943.00	.30488E+06
267	670062.38	5982943.00	.19383E+06
268	670162.38	5982943.00	.14729E+06
269	670262.38	5982943.00	.11266E+06
270	670362.38	5982943.00	.93419E+05
271	670462.38	5982943.00	.78068E+05
272	670562.38	5982943.00	.65083E+05
273	670662.38	5982943.00	.57195E+05
274	668662.38	5983043.00	.55142E+04
275	668762.38	5983043.00	.65030E+04
276	668862.38	5983043.00	.77324E+04
277	668962.38	5983043.00	.93342E+04
278	669062.38	5983043.00	.11189E+05

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279	669162.38	5983043.00	.14661E+05
280	669262.38	5983043.00	.20216E+05
281	669362.38	5983043.00	.29535E+05
282	669462.38	5983043.00	.54670E+05
283	669562.38	5983043.00	.12099E+06
284	669662.38	5983043.00	.23389E+06
285	669762.38	5983043.00	.29998E+06
286	669862.38	5983043.00	.31493E+06
287	669962.38	5983043.00	.24218E+06
288	670062.38	5983043.00	.18920E+06
289	670162.38	5983043.00	.13881E+06
290	670262.38	5983043.00	.10959E+06
291	670362.38	5983043.00	.90967E+05
292	670462.38	5983043.00	.80895E+05
293	670562.38	5983043.00	.67713E+05
294	670662.38	5983043.00	.60111E+05
295	668662.38	5983143.00	.50898E+04
296	668762.38	5983143.00	.59592E+04
297	668862.38	5983143.00	.64777E+04
298	668962.38	5983143.00	.78785E+04
299	669062.38	5983143.00	.97404E+04
300	669162.38	5983143.00	.12399E+05
301	669262.38	5983143.00	.16773E+05
302	669362.38	5983143.00	.26254E+05
303	669462.38	5983143.00	.46670E+05
304	669562.38	5983143.00	.91677E+05
305	669662.38	5983143.00	.13740E+06
306	669762.38	5983143.00	.17284E+06
307	669862.38	5983143.00	.20567E+06
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312	670362.38	5983143.00	.87148E+05
313	670462.38	5983143.00	.74739E+05
314	670562.38	5983143.00	.63157E+05
315	670662.38	5983143.00	.57210E+05
316	668662.38	5983243.00	.42436E+04
317	668762.38	5983243.00	.49267E+04
318	668862.38	5983243.00	.59753E+04
319	668962.38	5983243.00	.71128E+04
320	669062.38	5983243.00	.87867E+04
321	669162.38	5983243.00	.11345E+05
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323	669362.38	5983243.00	.26479E+05
324	669462.38	5983243.00	.41625E+05
325	669562.38	5983243.00	.65362E+05
326	669662.38	5983243.00	.90623E+05
327	669762.38	5983243.00	.11711E+06
328	669862.38	5983243.00	.13654E+06
329	669962.38	5983243.00	.15083E+06
330	670062.38	5983243.00	.14175E+06
331	670162.38	5983243.00	.12074E+06
332	670262.38	5983243.00	.10574E+06
333	670362.38	5983243.00	.92521E+05
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336	670662.38	5983243.00	.53886E+05
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338	668762.38	5983343.00	.46230E+04
339	668862.38	5983343.00	.53947E+04
340	668962.38	5983343.00	.66108E+04
341	669062.38	5983343.00	.81071E+04
342	669162.38	5983343.00	.10448E+05
343	669262.38	5983343.00	.16497E+05
344	669362.38	5983343.00	.23469E+05
345	669462.38	5983343.00	.36764E+05
346	669562.38	5983343.00	.49861E+05
347	669662.38	5983343.00	.66384E+05
348	669762.38	5983343.00	.83421E+05
349	669862.38	5983343.00	.98585E+05
350	669962.38	5983343.00	.11911E+06
351	670062.38	5983343.00	.12025E+06
352	670162.38	5983343.00	.11034E+06
353	670262.38	5983343.00	.97934E+05
354	670362.38	5983343.00	.88940E+05
355	670462.38	5983343.00	.79218E+05

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356	670562.38	5983343.00	.65046E+05
357	670662.38	5983343.00	.55353E+05
358	668662.38	5983443.00	.36951E+04
359	668762.38	5983443.00	.43096E+04
360	668862.38	5983443.00	.50480E+04
361	668962.38	5983443.00	.61797E+04
362	669062.38	5983443.00	.76660E+04
363	669162.38	5983443.00	.10650E+05
364	669262.38	5983443.00	.15710E+05
365	669362.38	5983443.00	.21656E+05
366	669462.38	5983443.00	.32347E+05
367	669562.38	5983443.00	.39091E+05
368	669662.38	5983443.00	.51829E+05
369	669762.38	5983443.00	.65063E+05
370	669862.38	5983443.00	.77367E+05
371	669962.38	5983443.00	.90562E+05
372	670062.38	5983443.00	.10208E+06
373	670162.38	5983443.00	.99991E+05
374	670262.38	5983443.00	.90385E+05
375	670362.38	5983443.00	.80543E+05
376	670462.38	5983443.00	.72035E+05
377	670562.38	5983443.00	.66289E+05
378	670662.38	5983443.00	.58005E+05
379	668662.38	5983543.00	.34697E+04
380	668762.38	5983543.00	.40190E+04
381	668862.38	5983543.00	.47777E+04
382	668962.38	5983543.00	.57923E+04
383	669062.38	5983543.00	.77523E+04
384	669162.38	5983543.00	.11387E+05
385	669262.38	5983543.00	.14175E+05
386	669362.38	5983543.00	.20724E+05
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388	669562.38	5983543.00	.34699E+05
389	669662.38	5983543.00	.42421E+05
390	669762.38	5983543.00	.51117E+05
391	669862.38	5983543.00	.61780E+05
392	669962.38	5983543.00	.70310E+05
393	670062.38	5983543.00	.80438E+05
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401	668762.38	5983643.00	.38819E+04
402	668862.38	5983643.00	.46373E+04
403	668962.38	5983643.00	.58924E+04
404	669062.38	5983643.00	.78027E+04
405	669162.38	5983643.00	.10530E+05
406	669262.38	5983643.00	.13418E+05
407	669362.38	5983643.00	.18992E+05
408	669462.38	5983643.00	.23105E+05
409	669562.38	5983643.00	.28583E+05
410	669662.38	5983643.00	.35565E+05
411	669762.38	5983643.00	.40474E+05
412	669862.38	5983643.00	.49550E+05
413	669962.38	5983643.00	.53915E+05
414	670062.38	5983643.00	.65530E+05
415	670162.38	5983643.00	.74362E+05
416	670262.38	5983643.00	.74930E+05
417	670362.38	5983643.00	.68326E+05
418	670462.38	5983643.00	.61097E+05
419	670562.38	5983643.00	.57774E+05
420	670662.38	5983643.00	.51082E+05
421	668662.38	5983743.00	.31790E+04
422	668762.38	5983743.00	.36852E+04
423	668862.38	5983743.00	.46674E+04
424	668962.38	5983743.00	.58273E+04
425	669062.38	5983743.00	.80233E+04
426	669162.38	5983743.00	.95418E+04
427	669262.38	5983743.00	.12945E+05
428	669362.38	5983743.00	.17032E+05
429	669462.38	5983743.00	.20265E+05
430	669562.38	5983743.00	.25353E+05
431	669662.38	5983743.00	.29666E+05
432	669762.38	5983743.00	.35208E+05

433	669862.38	5983743.00	.41358E+05
434	669962.38	5983743.00	.45975E+05
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436	670162.38	5983743.00	.58562E+05
437	670262.38	5983743.00	.61725E+05
438	670362.38	5983743.00	.64889E+05
439	670462.38	5983743.00	.57122E+05
440	670562.38	5983743.00	.52026E+05
441	670662.38	5983743.00	.49719E+05
442	669563.00	5982919.00	.18576E+06
443	669622.50	5982944.50	.33765E+06
444	669651.69	5982873.00	.69232E+06
445	669646.63	5982857.00	.75664E+06
446	669650.81	5982839.00	.12312E+07
447	669664.31	5982839.50	.15165E+07
448	669691.69	5982847.50	.99596E+06
449	669708.88	5982859.00	.94848E+06
450	669713.50	5982852.50	.98829E+06
451	669732.13	5982861.50	.95563E+06
452	669772.50	5982795.50	.91205E+06
453	669729.31	5982771.50	.93426E+06
454	669749.31	5982740.50	.68672E+06
455	669769.31	5982736.50	.64624E+06
456	669879.81	5982802.50	.42644E+06
457	669897.88	5982770.50	.42574E+06
458	669900.69	5982771.50	.42074E+06
459	669904.00	5982769.50	.41361E+06
460	669905.81	5982767.50	.41069E+06
461	669986.69	5982819.00	.25244E+06
462	670002.88	5982833.50	.25445E+06
463	670022.88	5982846.00	.23704E+06
464	670034.50	5982853.50	.22456E+06
465	670043.81	5982903.50	.22229E+06
466	670040.13	5982913.00	.22099E+06
467	670036.81	5982911.50	.22448E+06
468	670027.50	5982925.50	.22364E+06
469	670028.50	5982927.00	.22757E+06
470	670022.00	5982945.50	.23409E+06
471	670139.50	5983013.00	.14502E+06
472	670150.19	5982996.00	.14527E+06
473	670074.88	5982953.00	.18439E+06
474	670066.13	5982927.50	.19828E+06
475	670055.38	5982871.50	.20968E+06
476	670149.19	5982716.50	.15766E+06
477	669873.81	5982657.50	.34026E+06
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486	669711.69	5982677.00	.37640E+06
487	669732.13	5982690.50	.37843E+06
488	669714.50	5982719.00	.41211E+06
489	669712.63	5982730.00	.45655E+06
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497	669628.50	5982756.00	.28416E+07
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499	669608.13	5982805.00	.76905E+06
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501	669607.63	5982823.00	.49686E+06
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503	669600.19	5982828.00	.43155E+06
504	669564.00	5982918.00	.18839E+06
505	669427.31	5982483.00	.73975E+05
506	669447.31	5982483.00	.71524E+05
507	669467.31	5982483.00	.77693E+05
508	669487.31	5982483.00	.74966E+05
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512	669567.31	5982483.00	.99197E+05
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663	669467.31	5982603.00	.25383E+06

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667	669547.31	5982603.00	.20273E+06
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682	669867.31	5982603.00	.25122E+06
683	669887.31	5982603.00	.24606E+06
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688	669467.31	5982623.00	.29624E+06
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701	669827.31	5982623.00	.28762E+06
702	669847.31	5982623.00	.28352E+06
703	669867.31	5982623.00	.28274E+06
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711	669507.31	5982643.00	.36874E+06
712	669527.31	5982643.00	.37477E+06
713	669547.31	5982643.00	.34348E+06
714	669567.31	5982643.00	.31139E+06
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716	669607.31	5982643.00	.30698E+06
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718	669647.31	5982643.00	.30886E+06
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722	669887.31	5982643.00	.30836E+06
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725	669427.31	5982663.00	.29361E+06
726	669447.31	5982663.00	.33618E+06
727	669467.31	5982663.00	.38442E+06
728	669487.31	5982663.00	.42163E+06
729	669507.31	5982663.00	.42138E+06
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738	669687.31	5982663.00	.33270E+06
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801	669507.31	5982763.00	.31780E+06
802	669527.31	5982763.00	.39092E+06
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805	669587.31	5982763.00	.73407E+06
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814	669487.31	5982783.00	.22506E+06
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822	669787.31	5982783.00	.72025E+06
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824	669827.31	5982783.00	.54211E+06
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829	669467.31	5982803.00	.16771E+06
830	669487.31	5982803.00	.19257E+06
831	669507.31	5982803.00	.22117E+06
832	669527.31	5982803.00	.27031E+06
833	669547.31	5982803.00	.31434E+06
834	669567.31	5982803.00	.38191E+06
835	669587.31	5982803.00	.48126E+06
836	669607.31	5982803.00	.75540E+06
837	669787.31	5982803.00	.84006E+06
838	669807.31	5982803.00	.70449E+06
839	669827.31	5982803.00	.58877E+06
840	669847.31	5982803.00	.51592E+06
841	669867.31	5982803.00	.45916E+06
842	669887.31	5982803.00	.41497E+06
843	669907.31	5982803.00	.35749E+06
844	669927.31	5982803.00	.32492E+06
845	669427.31	5982823.00	.11010E+06
846	669447.31	5982823.00	.12757E+06
847	669467.31	5982823.00	.14300E+06
848	669487.31	5982823.00	.16530E+06
849	669507.31	5982823.00	.19717E+06
850	669527.31	5982823.00	.23352E+06
851	669547.31	5982823.00	.27894E+06
852	669567.31	5982823.00	.31882E+06
853	669587.31	5982823.00	.38810E+06
854	669607.31	5982823.00	.49275E+06
855	669767.31	5982823.00	.10092E+07
856	669787.31	5982823.00	.91281E+06
857	669807.31	5982823.00	.77684E+06
858	669827.31	5982823.00	.65212E+06
859	669847.31	5982823.00	.58195E+06
860	669867.31	5982823.00	.49378E+06
861	669887.31	5982823.00	.43146E+06
862	669907.31	5982823.00	.38356E+06
863	669927.31	5982823.00	.34754E+06
864	669427.31	5982843.00	.96952E+05
865	669447.31	5982843.00	.11304E+06
866	669467.31	5982843.00	.13236E+06
867	669487.31	5982843.00	.15614E+06
868	669507.31	5982843.00	.17509E+06
869	669527.31	5982843.00	.20122E+06
870	669547.31	5982843.00	.23281E+06
871	669567.31	5982843.00	.27090E+06
872	669587.31	5982843.00	.34616E+06
873	669667.31	5982843.00	.10179E+07
874	669747.31	5982843.00	.95503E+06
875	669767.31	5982843.00	.91272E+06
876	669787.31	5982843.00	.85348E+06
877	669807.31	5982843.00	.78325E+06
878	669827.31	5982843.00	.70512E+06
879	669847.31	5982843.00	.59620E+06
880	669867.31	5982843.00	.51397E+06
881	669887.31	5982843.00	.45537E+06
882	669907.31	5982843.00	.40624E+06
883	669927.31	5982843.00	.36465E+06
884	669427.31	5982863.00	.93029E+05
885	669447.31	5982863.00	.10398E+06
886	669467.31	5982863.00	.11967E+06
887	669487.31	5982863.00	.13336E+06
888	669507.31	5982863.00	.14751E+06
889	669527.31	5982863.00	.17648E+06
890	669547.31	5982863.00	.20681E+06
891	669567.31	5982863.00	.25048E+06
892	669667.31	5982863.00	.83025E+06
893	669687.31	5982863.00	.82563E+06
894	669707.31	5982863.00	.92304E+06

895	669727.31	5982863.00	.91213E+06
896	669747.31	5982863.00	.88965E+06
897	669767.31	5982863.00	.81526E+06
898	669787.31	5982863.00	.76843E+06
899	669807.31	5982863.00	.71923E+06
900	669827.31	5982863.00	.66635E+06
901	669847.31	5982863.00	.60374E+06
902	669867.31	5982863.00	.53626E+06
903	669887.31	5982863.00	.46021E+06
904	669907.31	5982863.00	.41000E+06
905	669927.31	5982863.00	.36334E+06
906	669427.31	5982883.00	.81976E+05
907	669447.31	5982883.00	.92132E+05
908	669467.31	5982883.00	.99541E+05
909	669487.31	5982883.00	.11641E+06
910	669507.31	5982883.00	.13136E+06
911	669527.31	5982883.00	.15766E+06
912	669547.31	5982883.00	.18148E+06
913	669567.31	5982883.00	.21393E+06
914	669667.31	5982883.00	.69141E+06
915	669687.31	5982883.00	.70531E+06
916	669707.31	5982883.00	.76819E+06
917	669727.31	5982883.00	.79192E+06
918	669747.31	5982883.00	.83225E+06
919	669767.31	5982883.00	.76620E+06
920	669787.31	5982883.00	.69164E+06
921	669807.31	5982883.00	.65708E+06
922	669827.31	5982883.00	.61685E+06
923	669847.31	5982883.00	.56443E+06
924	669867.31	5982883.00	.52459E+06
925	669887.31	5982883.00	.48348E+06
926	669907.31	5982883.00	.41690E+06
927	669927.31	5982883.00	.37154E+06
928	669427.31	5982903.00	.71168E+05
929	669447.31	5982903.00	.80400E+05
930	669467.31	5982903.00	.89983E+05
931	669487.31	5982903.00	.10542E+06
932	669507.31	5982903.00	.12015E+06
933	669527.31	5982903.00	.13851E+06
934	669547.31	5982903.00	.16279E+06
935	669567.31	5982903.00	.20566E+06
936	669647.31	5982903.00	.52039E+06
937	669667.31	5982903.00	.57740E+06
938	669687.31	5982903.00	.60129E+06
939	669707.31	5982903.00	.62840E+06
940	669727.31	5982903.00	.67887E+06
941	669747.31	5982903.00	.71063E+06
942	669767.31	5982903.00	.69899E+06
943	669787.31	5982903.00	.67387E+06
944	669807.31	5982903.00	.60448E+06
945	669827.31	5982903.00	.56321E+06
946	669847.31	5982903.00	.52946E+06
947	669867.31	5982903.00	.49546E+06
948	669887.31	5982903.00	.45602E+06
949	669907.31	5982903.00	.40900E+06
950	669927.31	5982903.00	.38638E+06
951	669427.31	5982923.00	.65104E+05
952	669447.31	5982923.00	.70237E+05
953	669467.31	5982923.00	.82742E+05
954	669487.31	5982923.00	.94435E+05
955	669507.31	5982923.00	.10746E+06
956	669527.31	5982923.00	.12538E+06
957	669547.31	5982923.00	.15375E+06
958	669567.31	5982923.00	.19172E+06
959	669647.31	5982923.00	.45285E+06
960	669667.31	5982923.00	.49995E+06
961	669687.31	5982923.00	.51545E+06
962	669707.31	5982923.00	.53429E+06
963	669727.31	5982923.00	.58739E+06
964	669747.31	5982923.00	.62817E+06
965	669767.31	5982923.00	.65411E+06
966	669787.31	5982923.00	.62240E+06
967	669807.31	5982923.00	.57429E+06
968	669827.31	5982923.00	.52152E+06
969	669847.31	5982923.00	.48916E+06
970	669867.31	5982923.00	.46338E+06
971	669887.31	5982923.00	.42967E+06

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972	669907.31	5982923.00	.40564E+06
973	669927.31	5982923.00	.36447E+06
974	669427.31	5982943.00	.59125E+05
975	669447.31	5982943.00	.64729E+05
976	669467.31	5982943.00	.74887E+05
977	669487.31	5982943.00	.84699E+05
978	669507.31	5982943.00	.98290E+05
979	669527.31	5982943.00	.11827E+06
980	669547.31	5982943.00	.14514E+06
981	669567.31	5982943.00	.17800E+06
982	669587.31	5982943.00	.22164E+06
983	669607.31	5982943.00	.29343E+06
984	669627.31	5982943.00	.34975E+06
985	669647.31	5982943.00	.39462E+06
986	669667.31	5982943.00	.43874E+06
987	669687.31	5982943.00	.45640E+06
988	669707.31	5982943.00	.46018E+06
989	669727.31	5982943.00	.51454E+06
990	669747.31	5982943.00	.53108E+06
991	669767.31	5982943.00	.56549E+06
992	669787.31	5982943.00	.55780E+06
993	669807.31	5982943.00	.54494E+06
994	669827.31	5982943.00	.49037E+06
995	669847.31	5982943.00	.45050E+06
996	669867.31	5982943.00	.42665E+06
997	669887.31	5982943.00	.40123E+06
998	669907.31	5982943.00	.37476E+06
999	669927.31	5982943.00	.35535E+06
1000	669427.31	5982963.00	.54546E+05
1001	669447.31	5982963.00	.60593E+05
1002	669467.31	5982963.00	.68536E+05
1003	669487.31	5982963.00	.78470E+05
1004	669507.31	5982963.00	.90403E+05
1005	669527.31	5982963.00	.11282E+06
1006	669547.31	5982963.00	.13824E+06
1007	669567.31	5982963.00	.16437E+06
1008	669587.31	5982963.00	.21277E+06
1009	669607.31	5982963.00	.26475E+06
1010	669627.31	5982963.00	.31156E+06
1011	669647.31	5982963.00	.35141E+06
1012	669667.31	5982963.00	.38429E+06
1013	669687.31	5982963.00	.40418E+06
1014	669707.31	5982963.00	.39359E+06
1015	669727.31	5982963.00	.45954E+06
1016	669747.31	5982963.00	.46686E+06
1017	669767.31	5982963.00	.48583E+06
1018	669787.31	5982963.00	.52368E+06
1019	669807.31	5982963.00	.48665E+06
1020	669827.31	5982963.00	.47021E+06
1021	669847.31	5982963.00	.42216E+06
1022	669867.31	5982963.00	.39926E+06
1023	669887.31	5982963.00	.37360E+06
1024	669907.31	5982963.00	.34617E+06
1025	669927.31	5982963.00	.33131E+06
1026	669427.31	5982983.00	.49699E+05
1027	669447.31	5982983.00	.55704E+05
1028	669467.31	5982983.00	.63768E+05
1029	669487.31	5982983.00	.74063E+05
1030	669507.31	5982983.00	.90394E+05
1031	669527.31	5982983.00	.11001E+06
1032	669547.31	5982983.00	.12525E+06
1033	669567.31	5982983.00	.15342E+06
1034	669587.31	5982983.00	.19391E+06
1035	669607.31	5982983.00	.23668E+06
1036	669627.31	5982983.00	.27450E+06
1037	669647.31	5982983.00	.30945E+06
1038	669667.31	5982983.00	.33804E+06
1039	669687.31	5982983.00	.35853E+06
1040	669707.31	5982983.00	.36124E+06
1041	669727.31	5982983.00	.38813E+06
1042	669747.31	5982983.00	.41615E+06
1043	669767.31	5982983.00	.42462E+06
1044	669787.31	5982983.00	.45197E+06
1045	669807.31	5982983.00	.44864E+06
1046	669827.31	5982983.00	.42832E+06
1047	669847.31	5982983.00	.41087E+06
1048	669867.31	5982983.00	.37390E+06

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1049	669887.31	5982983.00	.35574E+06
1050	669907.31	5982983.00	.33049E+06
1051	669927.31	5982983.00	.30070E+06

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Table A.7.8 2018 Mullingar Meteorological Data (7.1m stack height)

POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	8760	GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	
1	442 669507.60 5982795.80	27251.3414676321881416	
2	443 669640.30 5982611.70	9677.2349864937841630	
3	444 669698.00 5982572.70	8524.8773639598239242	
4	445 669868.20 5982603.90	7746.8718784793982195	
5	446 669893.10 5982611.70	7631.6005296909652316	
6	447 669925.90 5982622.60	7454.0390595237386151	
7	448 669960.20 5982627.30	7044.3602572229974612	
8	449 669977.40 5982628.80	6808.1665323093129700	
9	450 670002.40 5982630.40	6446.0737760684050954	
10	451 670033.60 5982638.20	6137.8410139770876413	
11	452 670058.60 5982644.50	5856.3327644212931773	
12	453 670096.00 5982658.50	5541.6521328198368792	
13	454 670124.10 5982660.10	5161.0634946436211976	
14	455 670175.60 5982669.40	4693.1796171782943929	
15	456 670253.60 5982675.70	4011.8260511889188820	
16	457 670238.00 5982745.90	5396.1457611447222007	
17	458 670224.00 5982769.30	6140.2606039581742152	
18	459 670206.80 5982803.60	7407.3221887823938232	
19	460 670185.00 5982833.30	8902.9176346068161365	
20	461 670174.10 5982861.40	10113.7183413309649040	
21	462 670153.80 5982891.00	11694.6672361908895255	
22	463 669495.20 5982944.10	11196.2986944176027464	
23	464 669532.60 5983076.80	7413.2223541582034159	
POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	1ST HIGH	1-HR AVG. GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	YYMMDDHH
1	442 669507.60 5982795.80	1734386.10699	18060801
2	443 669640.30 5982611.70	1367255.55706	18102818
3	444 669698.00 5982572.70	1034912.87654	18061221
4	445 669868.20 5982603.90	1094529.85475	18080421
5	446 669893.10 5982611.70	1168431.48433	18080421
6	447 669925.90 5982622.60	959409.85050	18071223
7	448 669960.20 5982627.30	922748.03945	18080405
8	449 669977.40 5982628.80	985894.25124	18080405
9	450 670002.40 5982630.40	1040279.51680	18080405
10	451 670033.60 5982638.20	1035527.17425	18080405
11	452 670058.60 5982644.50	957208.13489	18080405
12	453 670096.00 5982658.50	752531.42337	18080405
13	454 670124.10 5982660.10	654715.90476	18080405
14	455 670175.60 5982669.40	551833.06698	18100421
15	456 670253.60 5982675.70	510690.42068	18100421
16	457 670238.00 5982745.90	606803.02431	18052022
17	458 670224.00 5982769.30	673063.18737	18052022
18	459 670206.80 5982803.60	536066.90178	18052022
19	460 670185.00 5982833.30	577208.10440	18082024
20	461 670174.10 5982861.40	605067.12747	18060103
21	462 670153.80 5982891.00	631563.67722	18051421
22	463 669495.20 5982944.10	1173002.61909	18071323
23	464 669532.60 5983076.80	1083024.68380	18062421

Table A.7.9 2018 Mullingar Meteorological Data (8m stack height)

POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	8760	GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	
1	442 669507.60 5982795.80	25261.0898736309281958	
2	443 669640.30 5982611.70	8845.7442556546448031	
3	444 669698.00 5982572.70	7820.1731737662230444	
4	445 669868.20 5982603.90	7207.2672901966343488	
5	446 669893.10 5982611.70	7122.7815272676862151	
6	447 669925.90 5982622.60	6982.3370774999593777	
7	448 669960.20 5982627.30	6615.4584973743621958	
8	449 669977.40 5982628.80	6402.0885036752979431	
9	450 670002.40 5982630.40	6074.1749701273383835	
10	451 670033.60 5982638.20	5802.3778265218616070	
11	452 670058.60 5982644.50	5550.9815426429313447	
12	453 670096.00 5982658.50	5275.1922024221421452	
13	454 670124.10 5982660.10	4924.5010646536920831	
14	455 670175.60 5982669.40	4493.0087820201333670	
15	456 670253.60 5982675.70	3854.0453030058160948	
16	457 670238.00 5982745.90	5190.5720171481943908	
17	458 670224.00 5982769.30	5905.5880268273913316	
18	459 670206.80 5982803.60	7120.4771871886750887	
19	460 670185.00 5982833.30	8550.2216252547805198	
20	461 670174.10 5982861.40	9713.8950585100283206	
21	462 670153.80 5982891.00	11235.8299343219478033	
22	463 669495.20 5982944.10	10333.7965259543343564	
23	464 669532.60 5983076.80	6891.5429689192560545	
POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	1ST HIGH	1-HR AVG. GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	YYMMDDHH
1	442 669507.60 5982795.80	1569176.51122	18060801
2	443 669640.30 5982611.70	1198606.39965	18102818
3	444 669698.00 5982572.70	911900.88708	18061221
4	445 669868.20 5982603.90	988844.00483	18080421
5	446 669893.10 5982611.70	1062746.51348	18080421
6	447 669925.90 5982622.60	883693.49026	18071223
7	448 669960.20 5982627.30	873754.41481	18080405
8	449 669977.40 5982628.80	938024.81253	18080405
9	450 670002.40 5982630.40	998753.57599	18080405
10	451 670033.60 5982638.20	1006786.84438	18080405
11	452 670058.60 5982644.50	941352.02559	18080405
12	453 670096.00 5982658.50	751313.04104	18080405
13	454 670124.10 5982660.10	659820.53877	18080405
14	455 670175.60 5982669.40	490725.54881	18100421
15	456 670253.60 5982675.70	462382.35757	18100421
16	457 670238.00 5982745.90	577212.02067	18052022
17	458 670224.00 5982769.30	638914.25309	18052022
18	459 670206.80 5982803.60	507588.44027	18052022
19	460 670185.00 5982833.30	568245.28996	18082024
20	461 670174.10 5982861.40	544207.76846	18060103
21	462 670153.80 5982891.00	590153.20045	18051421
22	463 669495.20 5982944.10	1090467.75710	18071323
23	464 669532.60 5983076.80	1040177.29124	18062421

Table A.7.10 2018 Mullingar Meteorological Data (8.5m stack height)

POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	8760 HOUR AVG.	GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	
1	442 669507.60 5982795.80	24324.1725311416630575	
2	443 669640.30 5982611.70	8462.5389998602440755	
3	444 669698.00 5982572.70	7470.6849510922083937	
4	445 669868.20 5982603.90	6936.4399978739729704	
5	446 669893.10 5982611.70	6869.0377159430690881	
6	447 669925.90 5982622.60	6748.9242071558501266	
7	448 669960.20 5982627.30	6402.8501667403934334	
8	449 669977.40 5982628.80	6198.7469442677565894	
9	450 670002.40 5982630.40	5885.2714363926124861	
10	451 670033.60 5982638.20	5628.5174647137009742	
11	452 670058.60 5982644.50	5391.2265516769739406	
12	453 670096.00 5982658.50	5131.5668733493739637	
13	454 670124.10 5982660.10	4794.6444130081463300	
14	455 670175.60 5982669.40	4382.1990668083426499	
15	456 670253.60 5982675.70	3766.2372465829512294	
16	457 670238.00 5982745.90	5074.8808501692756181	
17	458 670224.00 5982769.30	5772.9964000454556299	
18	459 670206.80 5982803.60	6958.4770849309406913	
19	460 670185.00 5982833.30	8352.8121811376258847	
20	461 670174.10 5982861.40	9491.0026422040100442	
21	462 670153.80 5982891.00	10981.2150657425536338	
22	463 669495.20 5982944.10	9908.0889143184449495	
23	464 669532.60 5983076.80	6615.9107008449782370	
POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	1ST HIGH	1-HR AVG. GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	YYMMDDHH
1	442 669507.60 5982795.80	1483973.53373	18060801
2	443 669640.30 5982611.70	1124758.93083	18102818
3	444 669698.00 5982572.70	848412.02810	18061221
4	445 669868.20 5982603.90	932773.45706	18080421
5	446 669893.10 5982611.70	1005968.79798	18080421
6	447 669925.90 5982622.60	840523.77575	18071223
7	448 669960.20 5982627.30	849365.95865	18080405
8	449 669977.40 5982628.80	914089.04541	18080405
9	450 670002.40 5982630.40	977703.08395	18080405
10	451 670033.60 5982638.20	991039.92229	18080405
11	452 670058.60 5982644.50	930755.05833	18080405
12	453 670096.00 5982658.50	747359.99711	18080405
13	454 670124.10 5982660.10	658978.70235	18080405
14	455 670175.60 5982669.40	474355.76682	18080405
15	456 670253.60 5982675.70	435516.90098	18100421
16	457 670238.00 5982745.90	559034.47352	18052022
17	458 670224.00 5982769.30	618141.65153	18052022
18	459 670206.80 5982803.60	490266.55686	18052022
19	460 670185.00 5982833.30	561673.12109	18082024
20	461 670174.10 5982861.40	521395.39091	18081206
21	462 670153.80 5982891.00	564014.96659	18051421
22	463 669495.20 5982944.10	1046667.41208	18071323
23	464 669532.60 5983076.80	1010065.45644	18062421

Table A.7.11 2018 Mullingar Meteorological Data (9m stack height)

POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	8760	HOUR AVG.	GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC		
1	442 669507.60 5982795.80	23414.5610946743036038		
2	443 669640.30 5982611.70	8097.3710973434917832		
3	444 669698.00 5982572.70	7135.7961778635053633		
4	445 669868.20 5982603.90	6679.6473645327469058		
5	446 669893.10 5982611.70	6626.1836140920104299		
6	447 669925.90 5982622.60	6522.1634590022476914		
7	448 669960.20 5982627.30	6194.4166038439370823		
8	449 669977.40 5982628.80	5999.2407732821939135		
9	450 670002.40 5982630.40	5698.8251178944146886		
10	451 670033.60 5982638.20	5456.0341978997466867		
11	452 670058.60 5982644.50	5231.3655335539369844		
12	453 670096.00 5982658.50	4989.74834211110837298		
13	454 670124.10 5982660.10	4665.6577226773533766		
14	455 670175.60 5982669.40	4271.3413821906833618		
15	456 670253.60 5982675.70	3678.5466321139897445		
16	457 670238.00 5982745.90	4959.2174923739985388		
17	458 670224.00 5982769.30	5640.4905124175420497		
18	459 670206.80 5982803.60	6795.8557703383548869		
19	460 670185.00 5982833.30	8153.6632147111004087		
20	461 670174.10 5982861.40	9265.5990006962219923		
21	462 670153.80 5982891.00	10723.2788817305008706		
22	463 669495.20 5982944.10	9473.6415700817196921		
23	464 669532.60 5983076.80	6343.7064215537993732		
POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	1ST HIGH	1-HR AVG.	GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	YYMMDDHH	
1	442 669507.60 5982795.80	1400891.26952	18060801	
2	443 669640.30 5982611.70	1073017.46809	18102818	
3	444 669698.00 5982572.70	786488.67201	18061221	
4	445 669868.20 5982603.90	891180.36865	18080421	
5	446 669893.10 5982611.70	963191.35835	18080421	
6	447 669925.90 5982622.60	796862.99496	18071223	
7	448 669960.20 5982627.30	816557.64044	18080405	
8	449 669977.40 5982628.80	881339.71063	18080405	
9	450 670002.40 5982630.40	947229.54861	18080405	
10	451 670033.60 5982638.20	966184.82053	18080405	
11	452 670058.60 5982644.50	912087.23300	18080405	
12	453 670096.00 5982658.50	737428.69034	18080405	
13	454 670124.10 5982660.10	653160.57228	18080405	
14	455 670175.60 5982669.40	473147.94131	18080405	
15	456 670253.60 5982675.70	408424.34286	18100421	
16	457 670238.00 5982745.90	539821.01067	18052022	
17	458 670224.00 5982769.30	596185.33851	18052022	
18	459 670206.80 5982803.60	471963.74083	18052022	
19	460 670185.00 5982833.30	553801.26601	18082024	
20	461 670174.10 5982861.40	514367.03126	18081206	
21	462 670153.80 5982891.00	544152.78555	18081206	
22	463 669495.20 5982944.10	997732.01967	18071323	
23	464 669532.60 5983076.80	974078.24323	18062421	

Table A.7.12 2018 Mullingar Meteorological Data (10m stack height)

POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	8760 HOUR AVG.	GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	
1	442 669507.60 5982795.80	21590.3169093125761719	
2	443 669640.30 5982611.70	7394.4787882613081820	
3	444 669698.00 5982572.70	6506.0213381486510116	
4	445 669868.20 5982603.90	6173.4907237244915450	
5	446 669893.10 5982611.70	6151.8298530841148022	
6	447 669925.90 5982622.60	6082.3384099843697186	
7	448 669960.20 5982627.30	5791.5484201281324204	
8	449 669977.40 5982628.80	5614.4436663865171795	
9	450 670002.40 5982630.40	5340.6305757817717677	
10	451 670033.60 5982638.20	5123.7888533627183278	
11	452 670058.60 5982644.50	4920.7690788998070275	
12	453 670096.00 5982658.50	4707.8596465638047448	
13	454 670124.10 5982660.10	4411.0875243918499109	
14	455 670175.60 5982669.40	4050.2459084986662674	
15	456 670253.60 5982675.70	3504.0205094092275431	
16	457 670238.00 5982745.90	4723.8837751399705667	
17	458 670224.00 5982769.30	5369.4438342839848701	
18	459 670206.80 5982803.60	6465.0323136541401254	
19	460 670185.00 5982833.30	7752.4750879052171513	
20	461 670174.10 5982861.40	8814.3042953061394655	
21	462 670153.80 5982891.00	10207.3444270084928576	
22	463 669495.20 5982944.10	8637.7624728322607552	
23	464 669532.60 5983076.80	5808.5500806853779068	
POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	1ST HIGH	1-HR AVG. GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	YYMMDDHH
1	442 669507.60 5982795.80	1221351.19385	18060801
2	443 669640.30 5982611.70	936185.37334	18102818
3	444 669698.00 5982572.70	698543.61833	18061221
4	445 669868.20 5982603.90	775897.30003	18080421
5	446 669893.10 5982611.70	843521.27974	18080421
6	447 669925.90 5982622.60	711145.36039	18071223
7	448 669960.20 5982627.30	740006.01857	18080405
8	449 669977.40 5982628.80	803859.21504	18080405
9	450 670002.40 5982630.40	872857.95992	18080405
10	451 670033.60 5982638.20	901761.74758	18080405
11	452 670058.60 5982644.50	860017.53774	18080405
12	453 670096.00 5982658.50	704733.70983	18080405
13	454 670124.10 5982660.10	629972.67892	18080405
14	455 670175.60 5982669.40	462345.33102	18080405
15	456 670253.60 5982675.70	354429.58001	18100421
16	457 670238.00 5982745.90	499284.40103	18052022
17	458 670224.00 5982769.30	550047.44559	18052022
18	459 670206.80 5982803.60	433561.85564	18052022
19	460 670185.00 5982833.30	534548.97687	18082024
20	461 670174.10 5982861.40	497234.01087	18081206
21	462 670153.80 5982891.00	525051.50673	18081206
22	463 669495.20 5982944.10	896100.71910	18071323
23	464 669532.60 5983076.80	885718.81006	18062421

Table A.7.13 2018 Dublin Airport Meteorological Data (7.1m stack height)

POLLUTANT: OTHER	TYPE:	CONC (MICROGRAMS/M**3)	8760	GROUP: ALL
SR#	DC#	X-COORD	Y-COORD	CONC
1	442	669507.60	5982795.80	27251.3384988469879318
2	443	669640.30	5982611.70	9677.2361933154788858
3	444	669698.00	5982572.70	8524.8776338121679146
4	445	669868.20	5982603.90	7746.8519616933162979
5	446	669893.10	5982611.70	7631.5668213502049184
6	447	669925.90	5982622.60	7453.9930877500446513
7	448	669960.20	5982627.30	7044.3007851097599996
8	449	669977.40	5982628.80	6808.1030168143806804
9	450	670002.40	5982630.40	6445.9969781509980749
10	451	670033.60	5982638.20	6137.7507116970209609
11	452	670058.60	5982644.50	5856.2426133548151483
12	453	670096.00	5982658.50	5541.5660463212325340
13	454	670124.10	5982660.10	5160.9737565136556441
14	455	670175.60	5982669.40	4693.0841979737479051
15	456	670253.60	5982675.70	4011.7228675960441251
16	457	670238.00	5982745.90	5396.0554089958932309
17	458	670224.00	5982769.30	6140.1784627552951861
18	459	670206.80	5982803.60	7407.2494170779418710
19	460	670185.00	5982833.30	8902.8498733134238137
20	461	670174.10	5982861.40	10113.6507601686280395
21	462	670153.80	5982891.00	11694.5923932064324617
22	463	669495.20	5982944.10	11196.2882384039548924
23	464	669532.60	5983076.80	7413.1616329924854654
POLLUTANT: OTHER	TYPE:	CONC (MICROGRAMS/M**3)	1ST HIGH	1-HR AVG. GROUP: ALL
SR#	DC#	X-COORD	Y-COORD	CONC YYMMDDHH
1	442	669507.60	5982795.80	1734386.11591 18060801
2	443	669640.30	5982611.70	1367256.18742 18102818
3	444	669698.00	5982572.70	1034916.43031 18061221
4	445	669868.20	5982603.90	1094528.52587 18080421
5	446	669893.10	5982611.70	1168429.39122 18080421
6	447	669925.90	5982622.60	959407.61153 18071223
7	448	669960.20	5982627.30	922743.22537 18080405
8	449	669977.40	5982628.80	985888.84983 18080405
9	450	670002.40	5982630.40	1040272.96288 18080405
10	451	670033.60	5982638.20	1035519.60667 18080405
11	452	670058.60	5982644.50	957199.96474 18080405
12	453	670096.00	5982658.50	752523.90060 18080405
13	454	670124.10	5982660.10	654708.74755 18080405
14	455	670175.60	5982669.40	551719.96907 18100421
15	456	670253.60	5982675.70	510592.78223 18100421
16	457	670238.00	5982745.90	606797.94937 18052022
17	458	670224.00	5982769.30	673057.74931 18052022
18	459	670206.80	5982803.60	536062.73418 18052022
19	460	670185.00	5982833.30	577203.75581 18082024
20	461	670174.10	5982861.40	604956.35378 18060103
21	462	670153.80	5982891.00	631565.06344 18051421
22	463	669495.20	5982944.10	1172998.25347 18071323
23	464	669532.60	5983076.80	1083015.75498 18062421

Table A.7.14 2018 Dublin Airport Meteorological Data (8m stack height)

POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	8760	HOUR AVG.	GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC		
1	442 669507.60 5982795.80	25261.0926986400081660		
2	443 669640.30 5982611.70	8845.7502168151677324		
3	444 669698.00 5982572.70	7820.1818929811906855		
4	445 669868.20 5982603.90	7207.2623143641212664		
5	446 669893.10 5982611.70	7122.7695439008666654		
6	447 669925.90 5982622.60	6982.3162435968315549		
7	448 669960.20 5982627.30	6615.4236265785875730		
8	449 669977.40 5982628.80	6402.0433981040032450		
9	450 670002.40 5982630.40	6074.1199110974685027		
10	451 670033.60 5982638.20	5802.3187047148667261		
11	452 670058.60 5982644.50	5550.9173539207022259		
12	453 670096.00 5982658.50	5275.1249349551808336		
13	454 670124.10 5982660.10	4924.4344683611398068		
14	455 670175.60 5982669.40	4492.9402087147236671		
15	456 670253.60 5982675.70	3853.9690700389573976		
16	457 670238.00 5982745.90	5190.5073950380137831		
17	458 670224.00 5982769.30	5905.5311501503820182		
18	459 670206.80 5982803.60	7120.4270874615021967		
19	460 670185.00 5982833.30	8550.1750988447784039		
20	461 670174.10 5982861.40	9713.8499210243826383		
21	462 670153.80 5982891.00	11235.7819001604784717		
22	463 669495.20 5982944.10	10333.8056504128580855		
23	464 669532.60 5983076.80	6891.5114771112903327		
POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	1ST HIGH	1-HR AVG.	GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	YYMMDDHH	
1	442 669507.60 5982795.80	1569177.07256	18060801	
2	443 669640.30 5982611.70	1198607.14877	18102818	
3	444 669698.00 5982572.70	911905.04119	18061221	
4	445 669868.20 5982603.90	988843.59332	18080421	
5	446 669893.10 5982611.70	1062745.33697	18080421	
6	447 669925.90 5982622.60	883691.98053	18071223	
7	448 669960.20 5982627.30	873750.04294	18080405	
8	449 669977.40 5982628.80	938019.71253	18080405	
9	450 670002.40 5982630.40	998747.05939	18080405	
10	451 670033.60 5982638.20	1006778.96800	18080405	
11	452 670058.60 5982644.50	941343.66895	18080405	
12	453 670096.00 5982658.50	751304.89623	18080405	
13	454 670124.10 5982660.10	659812.65606	18080405	
14	455 670175.60 5982669.40	490617.17587	18100421	
15	456 670253.60 5982675.70	462286.24716	18100421	
16	457 670238.00 5982745.90	577207.74239	18052022	
17	458 670224.00 5982769.30	638909.75682	18052022	
18	459 670206.80 5982803.60	507585.08603	18052022	
19	460 670185.00 5982833.30	568240.45979	18082024	
20	461 670174.10 5982861.40	544099.89351	18060103	
21	462 670153.80 5982891.00	590156.79685	18051421	
22	463 669495.20 5982944.10	1090463.98687	18071323	
23	464 669532.60 5983076.80	1040168.84704	18062421	

Table A.7.15 2018 Dublin Airport Meteorological Data (8.5m stack height)

POLLUTANT: OTHER	TYPE:	CONC (MICROGRAMS/M**3)	8760 HOUR AVG.	GROUP: ALL
SR#	DC#	X-COORD Y-COORD	CONC	
1	442	669507.60 5982795.80	24324.1768579041636258	
2	443	669640.30 5982611.70	8462.5464788142999168	
3	444	669698.00 5982572.70	7470.6974617813330042	
4	445	669868.20 5982603.90	6936.4424536817150511	
5	446	669893.10 5982611.70	6869.0323059664960965	
6	447	669925.90 5982622.60	6748.9124261162714902	
7	448	669960.20 5982627.30	6402.8264959653797632	
8	449	669977.40 5982628.80	6198.7144683524002176	
9	450	670002.40 5982630.40	5885.2261117578955236	
10	451	670033.60 5982638.20	5628.4642435735513573	
11	452	670058.60 5982644.50	5391.1758764889482336	
12	453	670096.00 5982658.50	5131.5129925207565975	
13	454	670124.10 5982660.10	4794.5865437163920433	
14	455	670175.60 5982669.40	4382.1403863856185126	
15	456	670253.60 5982675.70	3766.1742729442025848	
16	457	670238.00 5982745.90	5074.8294061695996788	
17	458	670224.00 5982769.30	5772.9508450685034404	
18	459	670206.80 5982803.60	6958.4367126239949357	
19	460	670185.00 5982833.30	8352.7751397151005222	
20	461	670174.10 5982861.40	9490.9670735562413029	
21	462	670153.80 5982891.00	10981.1790403212125966	
22	463	669495.20 5982944.10	9908.1034394938997139	
23	464	669532.60 5983076.80	6615.8916280737012130	
POLLUTANT: OTHER	TYPE:	CONC (MICROGRAMS/M**3)	1ST HIGH	1-HR AVG. GROUP: ALL
SR#	DC#	X-COORD Y-COORD	CONC	YYMMDDHH
1	442	669507.60 5982795.80	1483974.44338	18060801
2	443	669640.30 5982611.70	1124759.73690	18102818
3	444	669698.00 5982572.70	848418.01360	18061221
4	445	669868.20 5982603.90	932773.93787	18080421
5	446	669893.10 5982611.70	1005968.58578	18080421
6	447	669925.90 5982622.60	840523.00462	18071223
7	448	669960.20 5982627.30	849362.19284	18080405
8	449	669977.40 5982628.80	914084.48411	18080405
9	450	670002.40 5982630.40	977696.99147	18080405
10	451	670033.60 5982638.20	991032.29175	18080405
11	452	670058.60 5982644.50	930746.79306	18080405
12	453	670096.00 5982658.50	747351.82927	18080405
13	454	670124.10 5982660.10	658970.69697	18080405
14	455	670175.60 5982669.40	474349.07341	18080405
15	456	670253.60 5982675.70	435422.81833	18100421
16	457	670238.00 5982745.90	559030.81594	18052022
17	458	670224.00 5982769.30	618137.87585	18052022
18	459	670206.80 5982803.60	490263.81407	18052022
19	460	670185.00 5982833.30	561668.12012	18082024
20	461	670174.10 5982861.40	521390.83210	18081206
21	462	670153.80 5982891.00	564020.02334	18051421
22	463	669495.20 5982944.10	1046664.31091	18071323
23	464	669532.60 5983076.80	1010057.77465	18062421

Table A.7.16 2018 Dublin Airport Meteorological Data (9m stack height)

POLLUTANT: OTHER	TYPE:	CONC (MICROGRAMS/M**3)	8784	HOUR AVG.	GROUP: ALL
SR#	DC#	X-COORD	Y-COORD	CONC	
1	442	669507.60	5982795.80	26337.1591534411927569	
2	443	669640.30	5982611.70	19131.1830160472163698	
3	444	669698.00	5982572.70	17419.9647844433020509	
4	445	669868.20	5982603.90	19385.2441687536120298	
5	446	669893.10	5982611.70	19669.1057309069365147	
6	447	669925.90	5982622.60	19400.8513098638177325	
7	448	669960.20	5982627.30	18292.4492691879640915	
8	449	669977.40	5982628.80	17657.8315562871757720	
9	450	670002.40	5982630.40	16702.4248137620961643	
10	451	670033.60	5982638.20	15802.9438650526153651	
11	452	670058.60	5982644.50	15007.4326261942569545	
12	453	670096.00	5982658.50	13821.9641552902539843	
13	454	670124.10	5982660.10	12823.8976298708603281	
14	455	670175.60	5982669.40	11277.8965451008261880	
15	456	670253.60	5982675.70	9418.9793967498480924	
16	457	670238.00	5982745.90	9517.5984566845927475	
17	458	670224.00	5982769.30	9759.5250958023752901	
18	459	670206.80	5982803.60	10022.6061086473891919	
19	460	670185.00	5982833.30	10425.8704830015121843	
20	461	670174.10	5982861.40	10668.5259480591666943	
21	462	670153.80	5982891.00	11434.2561795257424819	
22	463	669495.20	5982944.10	14030.0306495342520066	
23	464	669532.60	5983076.80	11410.3215324405628053	
POLLUTANT: OTHER	TYPE:	CONC (MICROGRAMS/M**3)	1ST HIGH	1-HR AVG.	GROUP: ALL
SR#	DC#	X-COORD	Y-COORD	CONC	YYMMDDHH
1	442	669507.60	5982795.80	1334982.65689	16011820
2	443	669640.30	5982611.70	1239708.35568	16051223
3	444	669698.00	5982572.70	1104236.21670	16082224
4	445	669868.20	5982603.90	1082338.77613	16091420
5	446	669893.10	5982611.70	819871.03419	16091420
6	447	669925.90	5982622.60	874482.37601	16072922
7	448	669960.20	5982627.30	893163.19883	16072922
8	449	669977.40	5982628.80	967487.28437	16080422
9	450	670002.40	5982630.40	1039643.03824	16080422
10	451	670033.60	5982638.20	1002886.48605	16080422
11	452	670058.60	5982644.50	871215.82932	16080422
12	453	670096.00	5982658.50	841356.74867	16081323
13	454	670124.10	5982660.10	805977.23752	16081323
14	455	670175.60	5982669.40	677023.81701	16081323
15	456	670253.60	5982675.70	570853.78129	16082323
16	457	670238.00	5982745.90	750885.63668	16072323
17	458	670224.00	5982769.30	772710.84511	16072323
18	459	670206.80	5982803.60	754701.93094	16081321
19	460	670185.00	5982833.30	803480.50960	16081321
20	461	670174.10	5982861.40	855903.09559	16072222
21	462	670153.80	5982891.00	888507.53948	16072322
22	463	669495.20	5982944.10	950277.06168	16060605
23	464	669532.60	5983076.80	668228.20710	16060703

Table A.7.17 2018 Dublin Airport Meteorological Data (10m stack height)

POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	8760 HOUR AVG.	GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	
1	442 669507.60 5982795.80	21590.3255461046719574	
2	443 669640.30 5982611.70	7394.4894612142143160	
3	444 669698.00 5982572.70	6506.0400926117963536	
4	445 669868.20 5982603.90	6173.5084294411490191	
5	446 669893.10 5982611.70	6151.8416166711940605	
6	447 669925.90 5982622.60	6082.3458094352954504	
7	448 669960.20 5982627.30	5791.5486014984853682	
8	449 669977.40 5982628.80	5614.4388881976783523	
9	450 670002.40 5982630.40	5340.6185672141737086	
10	451 670033.60 5982638.20	5123.7688599422035622	
11	452 670058.60 5982644.50	4920.7447897174097307	
12	453 670096.00 5982658.50	4707.8339692618737899	
13	454 670124.10 5982660.10	4411.0603670157252054	
14	455 670175.60 5982669.40	4050.2209116221338263	
15	456 670253.60 5982675.70	3503.9952900158564262	
16	457 670238.00 5982745.90	4723.8637621248353753	
17	458 670224.00 5982769.30	5369.4266257270683127	
18	459 670206.80 5982803.60	6465.0162317494241506	
19	460 670185.00 5982833.30	7752.4611131570572979	
20	461 670174.10 5982861.40	8814.2935969520713115	
21	462 670153.80 5982891.00	10207.3382011476987827	
22	463 669495.20 5982944.10	8637.7905938831518142	
23	464 669532.60 5983076.80	5808.5670309805109355	
POLLUTANT: OTHER	TYPE: CONC (MICROGRAMS/M**3)	1ST HIGH	1-HR AVG. GROUP: ALL
SR#	DC# X-COORD Y-COORD	CONC	YYMMDDHH
1	442 669507.60 5982795.80	1221353.32730	18060801
2	443 669640.30 5982611.70	936186.26191	18102818
3	444 669698.00 5982572.70	698549.28037	18061221
4	445 669868.20 5982603.90	775901.56973	18080421
5	446 669893.10 5982611.70	843525.42347	18080421
6	447 669925.90 5982622.60	711147.68095	18071223
7	448 669960.20 5982627.30	740006.66948	18080405
8	449 669977.40 5982628.80	803859.08415	18080405
9	450 670002.40 5982630.40	872856.23819	18080405
10	451 670033.60 5982638.20	901758.05245	18080405
11	452 670058.60 5982644.50	860012.56206	18080405
12	453 670096.00 5982658.50	704727.82509	18080405
13	454 670124.10 5982660.10	629966.31613	18080405
14	455 670175.60 5982669.40	462339.36983	18080405
15	456 670253.60 5982675.70	354345.39297	18100421
16	457 670238.00 5982745.90	499283.29452	18052022
17	458 670224.00 5982769.30	550046.59517	18052022
18	459 670206.80 5982803.60	433561.54929	18052022
19	460 670185.00 5982833.30	534543.97726	18082024
20	461 670174.10 5982861.40	497229.37958	18081206
21	462 670153.80 5982891.00	525046.75325	18081206
22	463 669495.20 5982944.10	896100.95012	18071323
23	464 669532.60 5983076.80	885716.28260	18062421

Figure A.7.3 Isopleth showing the 98th percentile 1-hour ground level odour
7.1m stack; Mullingar meteorological data (2018)



Figure A.7.4 Isopleth showing the 98th percentile 1-hour ground level odour
8.5m stack; Mullingar meteorological data (2018)



**Figure A.7.5 Isopleth showing the 98th percentile 1-hour ground level odour
9m stack; Mullingar meteorological data (2018)**



Appendix 8. IED Licence Noise Survey

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**WUXI BIOLOGICS
IRELAND LIMITED**

**ANNUAL IED LICENCE NOISE
SURVEY 2023**

Technical Report Prepared For

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Dundalk Science & Technology
Park, Mullagharlin,
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Technical Report Prepared By

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Our Reference

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28 September 2023

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Title	Acoustic Technician	Acoustic Consultant
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1.0 INTRODUCTION

Wuxi Biologics Ireland Ltd, operates a facility at the Dundalk Science & Technology Park, Mullagharlin, Dundalk, County Louth that is licensed by the Environmental Protection Agency (EPA) under Industrial Emissions Licence P1122-01.

The Industrial Emissions Licenced facility operates on a shift basis, and plant items typically operate continuously. A number of external plant items operate on site; these items constitute the primary noise emissions from the plant. The site setting is adjacent to the nearby N52 and close to major M1 motorway and some commercial premises, with residential dwellings located to the north, south, east and west of the site.

As part of the IED licence, it is a requirement that environmental noise levels in the vicinity of the site are monitored on an annual basis.

The relevant conditions of the WuXi Biologics IED Licence are set out in Section 4 as follows:

4.5 Noise

Noise from the installation shall not give rise to sound pressure levels measured at the installation boundary and/or noise-sensitive locations (NSLs) which exceed the limit value(s).

Screen clipping taken: 10/12/2021 11:08

6.14 Noise

The licensee shall carry out a noise survey of the site operations annually. The survey programme shall be undertaken in accordance with the methodology specified in the 'Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)' as published by the Agency.

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B.4 Noise Emissions

Daytime dB $L_{A,T}$ (30 minutes)	Evening-time dB $L_{A,T}$ (30 minutes)	Night-time dB $L_{Aeq,T}$ (15 minutes) ^{Note 1}
55	50	45

Note 1: During night-time hours, there shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise-sensitive location.

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C.5 Noise Monitoring

Location	Measurement	Frequency
NSL1 (N1) and at boundary locations N2, N3 and N4 as detailed in the application for this licence. Any other location as may be required by the Agency	dB $L_{A,T}$, dB $L_{Aeq,T}$, One third octave band analysis	Annually

This report prepared by AWN Consulting presents the results of the 2023 noise survey and compares the range of measured noise levels against the criteria outlined above.

The boilers (1), cooling towers (4), compressor (1 intermittently) and chillers were all operational during the survey.

Please refer to the Glossary of Terms in Appendix A for a definition of the various acoustic terminology used in this report.

2.0 SURVEY DETAILS

An attended annual noise survey was conducted at the specified noise monitoring locations as per the sites' IED conditions. The survey was conducted generally in accordance with the *Guidance Note for Noise: License Applications, Surveys and Assessments in Relation to Scheduled Activities* (NG4) 2016. Survey details are set out below.

2.1 Measurement Locations

Measurements were conducted at four noise sensitive locations adjacent to the site boundary in the vicinity of the WuXi Biologics site. These locations are illustrated in Figure 1 and in more detail overleaf.

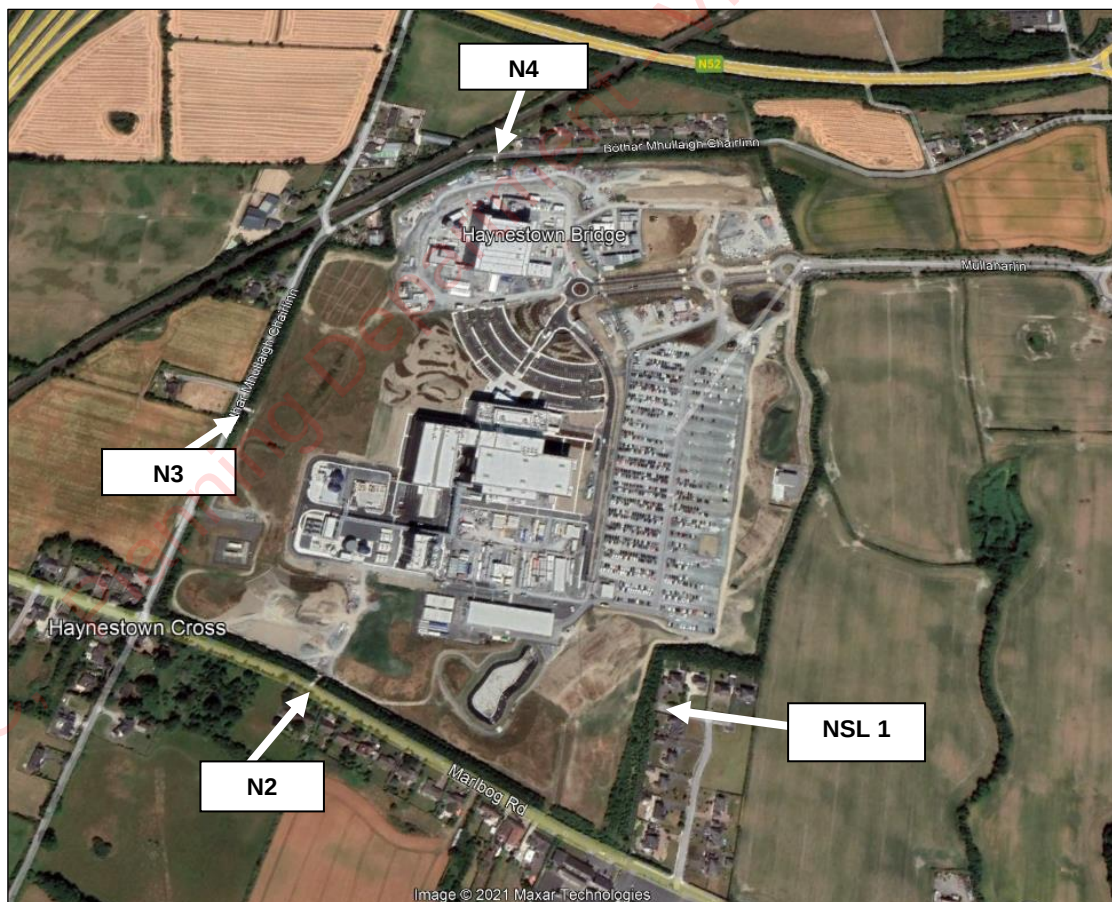


Figure 1 Site context; boundary noise sensitive monitoring locations.

The monitoring locations are described below.

NSL 1 is located just off the Southeast site boundary, Situated in the Brookfield housing estate just off the Marlbog Rd at the nearest perimeter wall to the WuXi Biologics site.



Image 1

Image showing measurement position NSL 1

N2 is on the South site boundary, along the Marlbog Road situated at the perimeter fence to the WuXi Biologics site beside a low voltage ESB transformer (reference 0624291)



Image 2

Images showing measurement position N2.

N3 is the on the West site boundary along the Mullagharlin Rd situated at the perimeter fence to the WuXi Biologics site beside a low voltage ESB transformer (reference 0624294). The survey position is also located 460 m from the M1 and Train Line.



Image 3 Images showing measurement position N3.

N4 is located on the North boundary of the site, adjacent to the N52 and a Railway intersection and at the perimeter fence to the WuXi Biologics site beside a low voltage ESB transformer (reference 0624293)



Image 4 Image showing measurement position N4.

2.2 Survey Periods

Measurements were conducted over the course of the following survey periods:

- Daytime: 10:00 hrs to 17:00 hrs on 13 September 2023;
- Evening: 22:00 hrs to 23:00 hrs on 13 September 2023; and,
- Night-time: 23:00 hrs on 13 September to 02:00 hrs on 14 September 2023.

2.3 Weather Conditions

The weather during the daytime survey periods was mild and calm, temperatures were of the order of 15°C. Wind speeds were in the range 4 to 6 m/s from West – Southwest.

The weather during night-time survey periods was mild and calm, temperatures were of the order of 5°C. Wind speeds were in the range 0 to 2 m/s from Southwest.

2.4 Personnel and Instrumentation

David O'Donoghue (AWN) conducted the noise level measurements during all survey periods. The measurements were performed using the following equipment:

Manufacturer	Equipment Model	Serial Number	Microphone	Calibration date	Calibration Due
Brüel & Kjær	2250	3006754	31963	May 2023	May 2024

Table 1 Noise monitoring equipment details

The measurement instrumentation was checked calibrated using a Brüel & Kjær Type 4231 Sound Level Calibrator Serial Number 3010488 (calibrated October 2022). The calibration certificates for all the equipment used are presented in Appendix C.

2.5 Procedure

Measurements were conducted on a cyclical basis between the four noise sensitive monitoring locations.

Sample periods were 3 no. 30 minute rounds at each location during the day, 1 no. 30 minute round at each location during the evening and 2 no. 15 minute rounds at each location during night survey periods in accordance with the licence conditions. The results were saved to the instrument memory for later analysis. Survey personnel noted all primary noise sources contributing to noise build-up.

3.0 SURVEY RESULTS

The survey results for each monitoring location are summarised in Table 2 below. Please refer to the Glossary of Terms in Appendix A for a definition of the various parameters discussed below. Appendix B presents the measured 1/3rd octave band analysis for each survey period.

Location	Period	Time	Measured Noise Levels (dB re. 2x10 ⁻⁵ Pa)				Weather Conditions		Comments
			L _{Aeq}	L _{AFmax}	L _{A10}	L _{AF90}	Wind (m/s)	Temp °C	
NSL1	Day	10:00 – 10:30	48	68	52	39	4 - 6	15	Distant Road traffic noise source (M1, N52 Constant), bird noise, plant not audible
		13:54 – 14:26	45	63	47	42			Distant Road traffic noise source (M1, N52 Constant), bird noise, local Road Noise, plant not audible
		16:51 – 17:21	53	67	53	52			Distant Road traffic noise source (M1, N52 Constant), bird noise, local road noise, plant not audible
	Evening	21:11 – 21:26	44	60	46	41	1 - 3	7	Distant Road traffic noise source (M1, N52 Constant), local road noise, plant not audible
	Night	01:07 – 01:37	38	61	40	34	1 - 3	2 - 5	Distant Road traffic noise source (M1, N52 Constant), plant not audible
		01:47 – 02:17	39	63	41	35			
N2	Day	10:39 – 11:09	55	79	54	36	4 - 6	15	Distant Road traffic noise source (M1, N52 Constant), Motorway noise dominant, intermittent local road traffic influencing measurement, bird noise, rustling from vegetation, plant audible
		13:20 – 13:50	60	80	61	43			
		14:30 – 15:00	61	81	64	44			
	Evening	21:46 – 22:16	59	78	62	46	1 - 3	7	Distant Road traffic noise source (M1, N52 Constant), plant noise inaudible, bird noise, local Road Noise, plant audible
	Night	00:48 – 01:18	47	74	46	39	1 - 3	2 - 5	Distant Road traffic noise source (M1, N52 Constant), plant noise inaudible, bird noise, local Road Noise, plant audible
		01:28 – 01:58	42	56	45	37			
N3	Day	11:14 – 11:44	57	85	48	46	4 - 6	15	Dominant Road traffic noise source (M1, N52 Constant), intermittent local road noise, bird noise, plant audible
		12:23 – 12:53	58	80	53	46			
		15:41 – 16:11	62	83	61	54			
	Evening	22:20	53	72	55	49	1 - 3	7	Distant Road traffic noise source (M1, N52 Constant), occasional local road noise, plant audible
	Night	23:30 – 00:00	53	76	54	46	1 - 3	2 - 5	Dominant Road traffic noise source (M1, N52 Constant), intermittent local road noise, Wuxi 3 Substation audible at low frequencies, plant not audible
		00:09 – 00:39	51	74	54	43			

Location	Period	Time	Measured Noise Levels (dB re. 2×10^{-5} Pa)				Weather Conditions		Comments
			L _{Aeq}	L _{AFmax}	L _{A10}	L _{AF90}	Wind (m/s)	Temp °C	
N4	Day	11:49 – 12:19	49	76	45	42	4 - 6	15	N52 Road Noise Dominant, train passing nearby, intermittent local road traffic noise, construction noise at nearby wuxi vaccines site audible at perimeter, plant not audible
		15:06 – 15:36	53	82	52	46			N52 Road Noise Dominant, intermittent road traffic noise influencing measurement, train passing nearby, plant audible, passing train every 20 minutes approx.
		16:15 – 16:45	53	72	54	50			
	Evening	22:53 – 23:23	53	72	49	44	1 - 3	7	
	Night	23:50 – 00:20	48	74	48	43	1 - 3	2 - 5	N52 Road Noise Dominant, intermittent road traffic noise also influencing measurement, plant audible
		00:29 – 00:59	46	54	49	44			

Table 2 Results of noise monitoring survey

3.1 Discussion of measured values

3.1.1 Location NSL1

During the daytime survey period, noise levels at this location were dominated by distant traffic noise from the M1 and N52. Noise emissions from the WuXi Biologics facility were not audible at this location during daytime monitoring periods. Ambient noise levels measured during the day survey period were in the range of 45 - 53 dB L_{Aeq} . The background noise levels recorded were in the range of 39 - 52 dB L_{A90} . A tone at the 4K octave band was present during 2 no. of daytime measurements. However, it was noted by survey personnel that this was not attributed to operations or plant from Wuxi Biologics but rather from grass cutting and landscaping activities with the area during the measurements. Impulsive characteristics associated with daytime measured noise levels were cars passing the monitor while pulling into driveways.

Evening measurements were quieter with ambient noise levels measured during this period being 44 dB L_{Aeq} and background levels at 41 dB L_{A90} .

During the night-time period, noise emissions from the WuXi Biologics Industrial Emissions Licenced facility were inaudible. Motorway Noise from the nearby M1 and N52 was the dominant noise source during both measurement periods. Ambient noise levels were in the range of 38 to 39 dB L_{Aeq} , with background noise levels in the range of 34 to 35 dB L_{A90} . No tones attributed to WuXi Biologics Plant were detected in the 1/3rd octave spectra during the night-time period at this location. No impulsive characteristics were associated with WuXi Biologics activities at the survey location.

3.1.2 Location NSL2

During the daytime survey periods noise levels were dominated by local road traffic on the Marlbog road and road traffic noise from the M1 nearby. Ambient noise levels measured during the daytime survey period were in the range of 55 to 61 dB L_{Aeq} . The background noise levels recorded were in the range 36 to 44 dB L_{A90} . Noise emissions from the facility were barely audible at this location during this period. No tones were detected from the plant in the 1/3rd octave spectra during the daytime period at this location. No impulsive characteristics were associated with measured noise levels.

Evening measurements were quieter with ambient noise levels measured during this period being 59 dB and background levels at 46 dB L_{A90} .

During the night-time period, distant traffic noise on the M1 was dominant with some intermittent local road traffic noise audible also. The ambient noise level was 42 - 47 dB L_{Aeq} , with background noise levels in the range of 37 to 39 dB L_{A90} . No tones attributable to WuXi Biologics Plant were detected in the 1/3rd octave spectra during the night-time period at this location. No impulsive characteristics were associated with measured noise levels.

3.1.3 Location NSL3

During the daytime survey period noise levels were dominated by a combination of distant road traffic from the M1 and Local Road traffic noise on Mullagharlin road. Noise emissions from the WuXi Biologics plant were barely audible at this location during this period. Ambient noise levels were in the range 57 to 62 dB L_{Aeq} . The background noise levels recorded were in the range of 46 to 54 dB L_{A90} . No tones associated with the WuXi Biologics Plant were detected in the 1/3rd octave spectra during the daytime

period at this location. No impulsive characteristics were associated with measured noise levels.

Evening measurements were quieter with ambient noise levels measured during this period being 53 dB and background levels in the range of 49 dB L_{A90} .

During the night-time period, distant road traffic from the M1 and faint hum from a nearby low voltage ESB transformer were dominating the measurement. Ambient noise levels were in the range of 51 at 53 dB L_{Aeq} , with background noise levels were in the range 43 to 46 dB L_{A90} . No tones attributed to WuXi Biologics Plant were detected in the 1/3rd octave spectra during the night-time period at this location. No impulsive characteristics were associated with measured noise levels.

3.1.4 Location NSL4

During the daytime survey period noise levels were dominated by a combination of distant road traffic from the nearby N52, M1 and Trainline. Ambient noise levels were in the range 49 to 53 dB L_{Aeq} . The background noise levels recorded were in the range of 42 to 50 dB L_{A90} . A tone at the 1K octave band was present during 4 no. of daytime measurements. However, it was noted by survey personnel that this was not attributed to operations or plant from Wuxi Biologics but rather from a nearby ESB transformer. No impulsive characteristics were associated with measured noise levels.

Evening measurements were quieter with ambient noise levels measured during this period in the range of 53 dB and background levels in the range of 44 dB L_{A90} .

During the night-time period noise levels were dominated by a combination of distant road traffic from the nearby N52 and M1. Faint noise from a nearby ESB low voltage transformer were barely audible at the noise monitoring location nearby the site perimeter. Ambient noise levels were in the range of 46 at 48 dB L_{Aeq} , with background noise levels were in the range 43 to 44 dB L_{A90} .

3.1.5 Summary

During the day and evening time measurements, the noise climate at noise sensitive location NSL1 and boundary positions N2, N3 and N4 was dominated by road traffic noise from the M1 and the local road network. The measured noise levels were in the range of 45 to 62 dB $L_{Aeq,30min}$ and 36 to 54 dB $L_{A90,30min}$ during daytime periods. Measured noise levels ranged from 44 to 53 dB $L_{Aeq,30min}$ and 40 to 48 dB $L_{A90,30min}$ during the evening-time.

During the night-time period, at locations NSL1, N2, N3 and N4, site noise was barely audible. Intermittent traffic noise remained a significant source of noise during the survey periods and the background noise was dominated by road traffic on the M1 and N52 Roads. Measured noise levels ranged from 38 to 53 dB $L_{Aeq,15min}$ and 34 to 46 dB $L_{A90,15min}$ during the night-time.

3.2 **Tonal Analysis**

The licence stipulates the following in respect of tonal noise:

- 8.3 *There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise sensitive location.*

The presence of the tones can usually be established or confirmed through analysis of the measured 1/3rd octave frequency band data.

The NG4 document recommends that the simplified methodology for the objective identification of tones that is advocated in Annex C of British Standard BS4142:2014 *Methods for rating and assessing industrial and commercial sound* is adopted. This methodology requires that for a prominent, discrete tone to be identified as present, the time-average sound pressure level in the one-third octave band of interest should exceed the time average sound pressure levels of both adjacent one-third octave bands by some constant level difference.

For the identification of a tone, the level difference should vary with frequency and should be greater than or equal to the values below in each adjacent one-third-octave band for a given frequency range:

- 15 dB in low-frequency one-third-octave bands (25 Hz to 125 Hz);
- 8 dB in middle-frequency bands (160 Hz to 400 Hz), and;
- 5 dB in high-frequency bands (500 Hz to 10,000 Hz).

Care should be taken to ensure that any tones identified in the low frequency range of 25Hz to 125Hz are of a magnitude greater than the threshold of hearing at that frequency, see Appendix VI.

In the event that this procedure identifies a tone then a +5dB penalty will be applied to the specific noise level. Please note that in this instance the tonal analysis has only been carried out for the noise sensitive location.

The methodology discussed above uses the 1/3rd octave band measurements to assess the presence of tones. Where peaks are identified in the spectrum the level difference between the peak and the adjacent 1/3rd octave bands is used to determine if there is a tone present or not.

Tables and graphs presenting the one-third octave band data are presented in Appendix B. With reference to the above methodology and analysis of both the measured L_{Zeq} spectral data (presented in Appendix B), it is concluded that in at NSL 1 a tone at the 4K octave band was present during 2 no. of daytime measurements, and at NSL 4 a tone at the 1k octave band was present during 2 no. of daytime measurements. The tonal characteristics highlighted were attributable to sources not associated with operations at the Wuxi Biologics facility.

No tonal characteristics were detected at NSL,s during evening or night-time measurements.

4.0 DETERMINATION OF COMPLIANCE

A requirement of the EPA NG4 documents is that specific noise levels at noise sensitive locations be measured and/or estimated as part of the annual noise monitoring report.

The following methodology has been adopted in order to complete this aspect of the assessment:

Description of Site Noise		Noise Parameter that Best Represents Specific Noise from Site
Category	Subjective Impression	
A	Site noise dominant, no other significant noise sources noted.	$L_{Aeq,T}$
B	Intermittent noise from other sources (e.g. traffic, birds, wind), with underlying site noise audible.	$L_{A90,T}$ if frequent interfering noise and site noise is audible in lulls. or $L_{A50,T}$ if site noise is clearly audible (steady or variable), with occasional interference from other sources.
C	Plant barely audible (i.e. not immediately noticeable, unless actively listening)	$<L_{A90,T}$ (i.e. specific plant noise is up to 5 dB lower than measured $L_{A90,T}$)
D	Plant not audible	Not Detected, ND $<<L_{A90,T}$ (more than 5 dB lower than $L_{A90,T}$)

Table 3 Methodology for determination of site-specific noise

The estimated specific noise level at each monitoring location is presented in Table 4 below, based on the methodology set out above.

Location	Period	Site Noise Category	Noise Parameter that Best Represents Specific Noise from Site	Estimated Specific Plant Noise, dB	Criterion	Complies?
NSL 1	Day	D	$<<L_{A90}$	48	55 dB $L_{Aeq, 30min}$	Yes
		D	$<<L_{A90}$	49		Yes
		D	$<L_{A90}$	46		Yes
	Evening	D	$<<L_{A90}$	40	50 dB $L_{Aeq, 15min}$	Yes
	Night	D	$<<L_{A90}$	40	45 dB $L_{Aeq, 15min}$	Yes
		D	$<L_{A90}$	39		Yes
N2	Day	D	$<<L_{A90}$	50	55 dB $L_{Aeq, 30min}$	Yes
		D	$<<L_{A90}$	53		Yes
		D	$<L_{A90}$	52		Yes
	Evening	D	$<<L_{A90}$	46	50 dB $L_{Aeq, 15min}$	Yes
	Night	D	$<L_{A90}$	39	45 dB $L_{Aeq, 15min}$	Yes
		D	$<L_{A90}$	38		Yes
N3	Day	D	$<L_{A90}$	55	55 dB $L_{Aeq, 30min}$	Yes
		D	$<L_{A90}$	55		Yes
		D	$<L_{A90}$	53		Yes
	Evening	D	$<<L_{A90}$	46	50 dB $L_{Aeq, 15min}$	Yes
	Night	D	$<L_{A90}$	41	45 dB $L_{Aeq, 15min}$	Yes
		D	$<L_{A90}$	38		Yes
N4	Day	D	$<L_{A90}$	55	55 dB $L_{Aeq, 30min}$	Yes
		D	$<L_{A90}$	55		Yes
		D	$<L_{A90}$	52		Yes

Location	Period	Site Noise Category	Noise Parameter that Best Represents Specific Noise from Site	Estimated Specific Plant Noise, dB	Criterion	Complies?
	Evening	D	<<L _{A90}	48	50 dB L _{Aeq} , 15min	Yes
	Night	D	<L _{A90}	44	45 dB L _{Aeq} , 15min	Yes
		D	<L _{A90}	45		Yes

Table 4 Estimation of specific noise levels at monitoring locations

The assessment has demonstrated that specific noise levels associated with plant noise emissions from WuXi Biologics Plant are within the emission limit values set out within the relevant sections of the IED licence.

5.0 CONCLUSION

Noise levels have been measured at the required locations stipulated in the relevant IED Licence. Audible noise sources include traffic on surrounding roads from the busy M1 and N52.

At all noise sensitive locations, extraneous ambient noise sources not associated with WuXi Biologics activities dominated the measured noise levels. Due to the continuous nature of the noise sources at the facility, it is appropriate to reference the measured L_{A90} parameter which is deemed to be representative of steady background noise levels as would be most influenced by specific noise levels from the site. It was found that the specific noise level attributable to WuXi Biologics operations is within the specified emission limit values at all locations during the day, evening and night-time periods.

A review of one-third octave band data showed that although there was a tonal component measured during a small number of measurements at 2 no. of Noise Monitoring Locations, the characteristics highlighted were attributable to sources **not** associated with operations or plant at the Wuxi Biologics facility. The only impulsive noise sources were observed during the survey periods were that of vehicles passing the monitoring locations.

It is concluded therefore that the site noise levels fall within the requirements of IED Licence P1122-01 and that the site is compliant with the licence in respect to noise.

APPENDIX A

GLOSSARY OF ACOUSTIC TERMINOLOGY

ambient noise	The totally encompassing sound in a given situation at a given time, usually composed of sound from many sources, near and far.
background noise	The steady existing noise level present without contribution from any intermittent sources. The A-weighted sound pressure level of the residual noise at the assessment position that is exceeded for 90 per cent of a given time interval, T ($L_{AF90,T}$).
broadband	Sounds that contain energy distributed across a wide range of frequencies.
dB	Decibel - The scale in which sound pressure level is expressed. It is defined as 20 times the logarithm of the ratio between the RMS pressure of the sound field and the reference pressure of 20 micro-pascals (20 μ Pa).
dB L_{pA}	An 'A-weighted decibel' - a measure of the overall noise level of sound across the audible frequency range (20 Hz – 20 kHz) with A-frequency weighting (i.e. 'A'-weighting) to compensate for the varying sensitivity of the human ear to sound at different frequencies.
$L_{Aeq,T}$	This is the equivalent continuous sound level. It is a type of average and is used to describe a fluctuating noise in terms of a single noise level over the sample period (T). The closer the L_{Aeq} value is to either the L_{AF10} or L_{AF90} value indicates the relative impact of the intermittent sources and their contribution. The relative spread between the values determines the impact of intermittent sources such as traffic on the background. As standard it is measured using the fast time weighting constant of 125ms.
L_{AFN}	The A-weighted noise level exceeded for N% of the sampling interval. Measured using the "Fast" time weighting.
L_{AF90}	Refers to those A-weighted noise levels in the lower 90 percentile of the sampling interval; it is the level which is exceeded for 90% of the measurement period. It will therefore exclude the intermittent features of traffic and is used to estimate a background level. Measured using the "Fast" time weighting.
noise	Any sound, that has the potential to cause disturbance, discomfort or psychological stress to a person exposed to it, or any sound that could cause actual physiological harm to a person exposed to it, or physical damage to any structure exposed to it, is known as noise.

APPENDIX A (Cont.)
GLOSSARY OF ACOUSTIC TERMINOLOGY

noise sensitive location NSL – Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or other area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.

octave band A frequency interval, the upper limit of which is twice that of the lower limit. For example, the 1,000Hz octave band contains acoustical energy between 707Hz and 1,414Hz. The centre frequencies used for the designation of octave bands are defined in ISO and ANSI standards.

sound pressure level The sound pressure level at a point is defined as:

$$L_p = 20 \log \frac{P}{P_0} \text{ dB}$$

tonal Sounds which cover a range of only a few Hz which contains a clearly audible tone i.e. distinguishable, discrete or continuous noise (whine, hiss, screech, or hum etc.) are referred to as being 'tonal'.

$\frac{1}{3}$ octave analysis Frequency analysis of sound such that the frequency spectrum is subdivided into bands of one-third of an octave each.

APPENDIX B **ONE-THIRD OCTAVE BAND CENTRE FREQUENCY DATA**

Loc.	Period	Time (hrs)	Measured Noise Level, L_{Zeq} (dB re. 2×10^{-5} Pa) at 1/3 rd Octave Frequency Band (Hz)																								
			12.5	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k
NSL 1	Day	10:00 – 10:30	53	45	44	44	42	39	39	39	39	38	34	32	31	30	34	35	33	32	31	19	53	45	44	44	42
		13:54 – 14:26	40	42	43	40	39	35	35	35	36	37	34	33	32	31	31	31	30	28	27	24	40	42	43	40	39
		16:51 – 17:21	51	50	43	43	45	41	42	44	43	44	45	42	41	38	37	38	33	29	27	24	51	50	43	43	45
	Evening	21:11 – 21:26	36	35	35	35	35	33	34	35	37	37	34	31	29	28	28	26	25	24	21	19	36	35	35	35	35
		Night	01:07 – 01:37	31	30	30	30	33	28	29	30	32	31	28	24	20	17	16	14	12	10	9	8	31	30	30	30
	01:47 – 02:17		33	32	30	30	32	29	29	31	33	33	29	25	21	18	17	15	14	12	11	10	33	32	30	30	32
NSL 2	Day	10:39 – 11:09	50	49	47	47	45	46	46	48	49	49	46	43	40	37	35	32	32	29	26	23	50	49	47	47	45
		13:20 – 13:50	53	52	53	53	51	51	50	51	53	54	51	47	44	42	39	37	34	31	28	24	53	52	53	53	51
		14:30 – 15:00	54	55	54	53	52	51	52	52	55	55	52	49	47	44	41	38	35	32	29	25	54	55	54	53	52
	Evening	21:46 – 22:16	50	49	49	49	48	47	48	49	52	53	50	47	43	41	42	39	32	30	27	23	50	49	49	49	48
		Night	00:48 – 01:18	36	34	34	37	36	35	38	39	41	42	38	35	32	28	25	22	18	15	12	10	36	34	34	37
	01:28 – 01:58		33	29	28	27	29	32	36	37	37	36	32	26	22	20	19	18	14	12	10	9	33	29	28	27	29
NSL 3	Day	11:14 – 11:44	49	47	48	47	48	46	47	48	50	51	48	45	42	37	34	31	28	26	24	20	49	47	48	47	48
		12:23 – 12:53	47	48	49	49	46	46	47	49	52	53	50	47	43	39	36	34	31	28	26	23	47	48	49	49	46
		15:41 – 16:11	52	52	51	51	49	49	51	53	55	56	53	50	47	44	42	40	37	35	33	29	52	52	51	51	49
	Evening	22:20 – 22:50	48	46	43	41	40	41	43	46	48	47	44	41	38	35	34	35	31	29	27	24	48	46	43	41	40
		Night	23:30 – 00:00	44	45	42	42	41	40	41	44	47	48	44	40	37	34	32	29	27	24	22	20	44	45	42	42
	00:09 – 00:39		37	36	37	37	37	38	41	44	45	45	42	38	34	31	28	27	25	23	21	19	37	36	37	37	37
NSL 4	Day	11:49 – 12:19	46	42	42	41	38	37	38	38	41	42	39	36	33	32	32	31	28	25	21	16	46	42	42	41	38
		15:06 – 15:36	47	43	43	41	40	42	43	43	46	48	41	39	36	35	33	30	28	27	24	21	47	43	43	41	40
		16:15 – 16:45	47	44	44	44	42	41	43	45	48	48	43	39	36	35	33	31	29	28	27	21	47	44	44	44	42
	Evening	22:53 – 23:23	43	38	37	36	36	37	38	40	42	41	37	34	31	29	28	27	26	25	22	19	43	38	37	36	36
		Night	23:50 – 00:20	44	39	40	39	37	36	37	39	42	43	39	36	32	29	27	26	23	22	17	14	44	39	40	39
	00:29 – 00:59		43	36	31	31	33	34	35	38	40	39	35	32	28	25	24	23	21	21	18	15	43	36	31	31	33

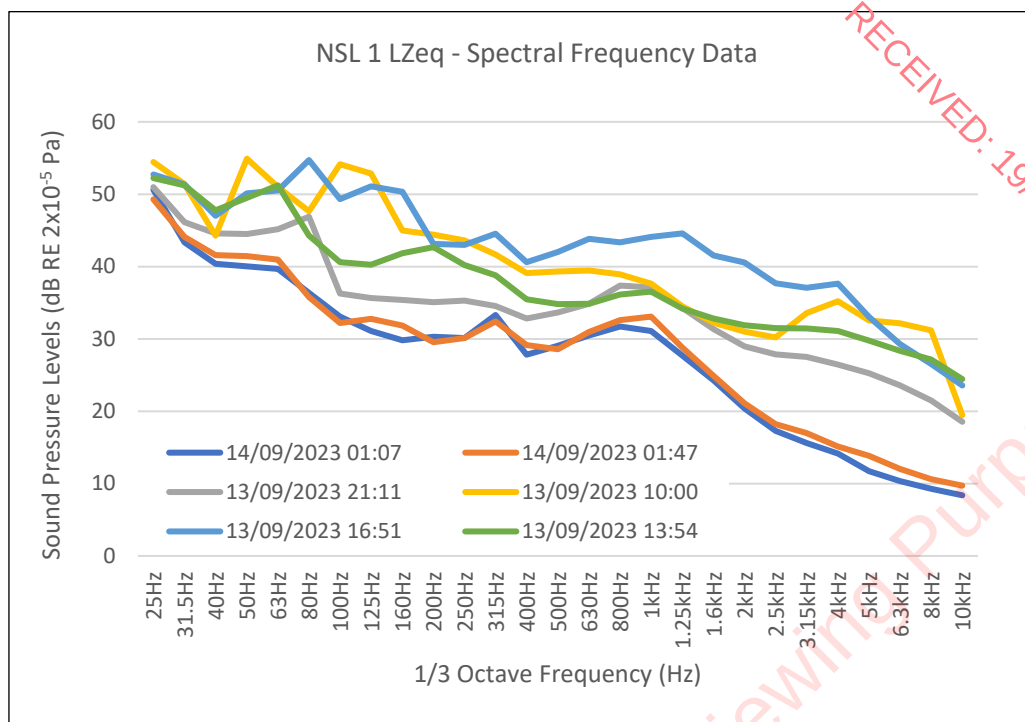


Figure B1 NSL 1 – 1/3rd Octave Band Spectrum for Night Survey

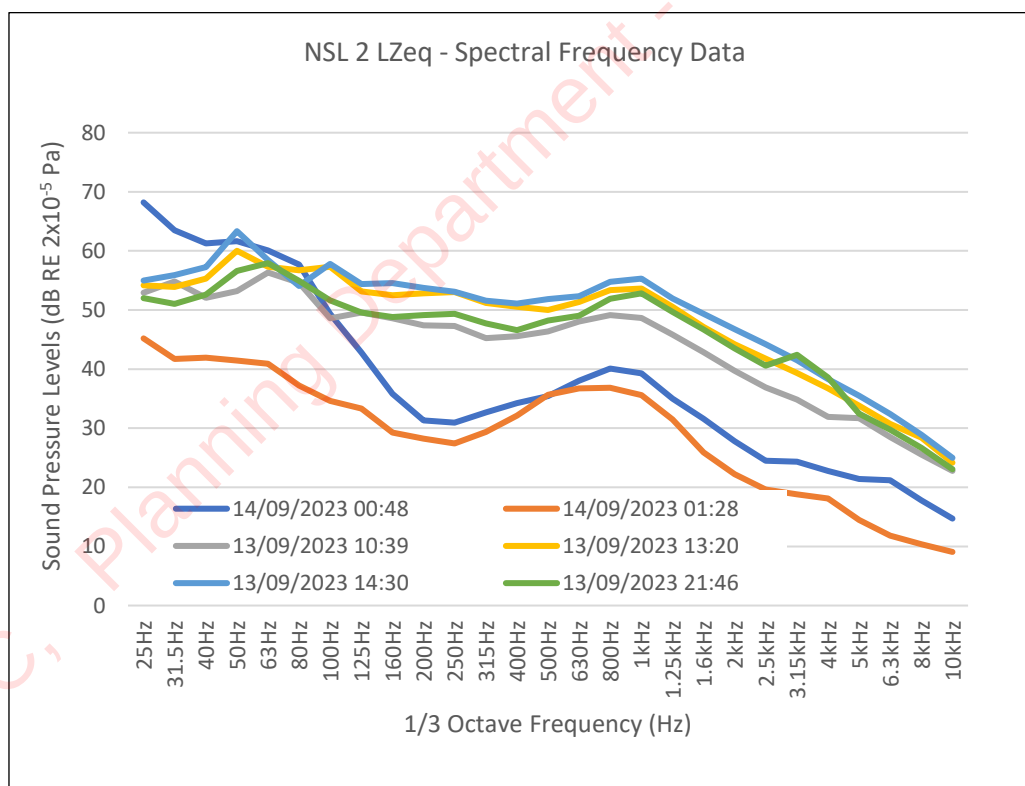


Figure B2 NSL 2 – 1/3rd Octave Band Spectrum for Night Survey

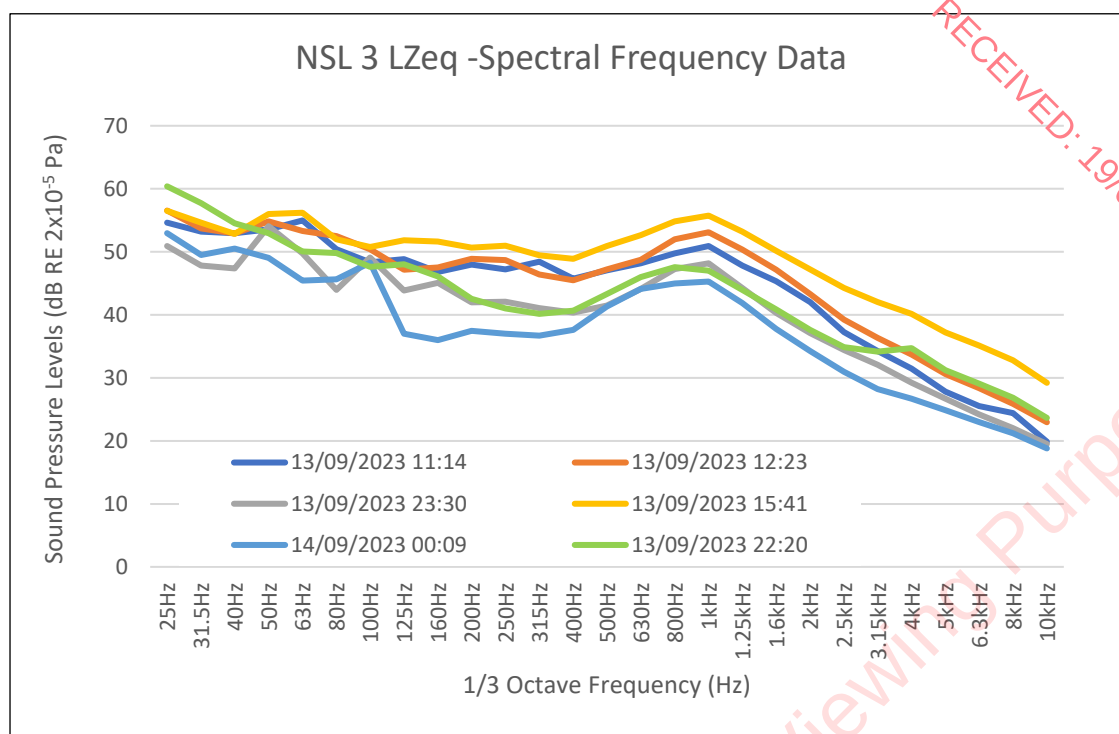


Figure B3 NSL 3 – 1/3rd Octave Band Spectrum for Night Survey

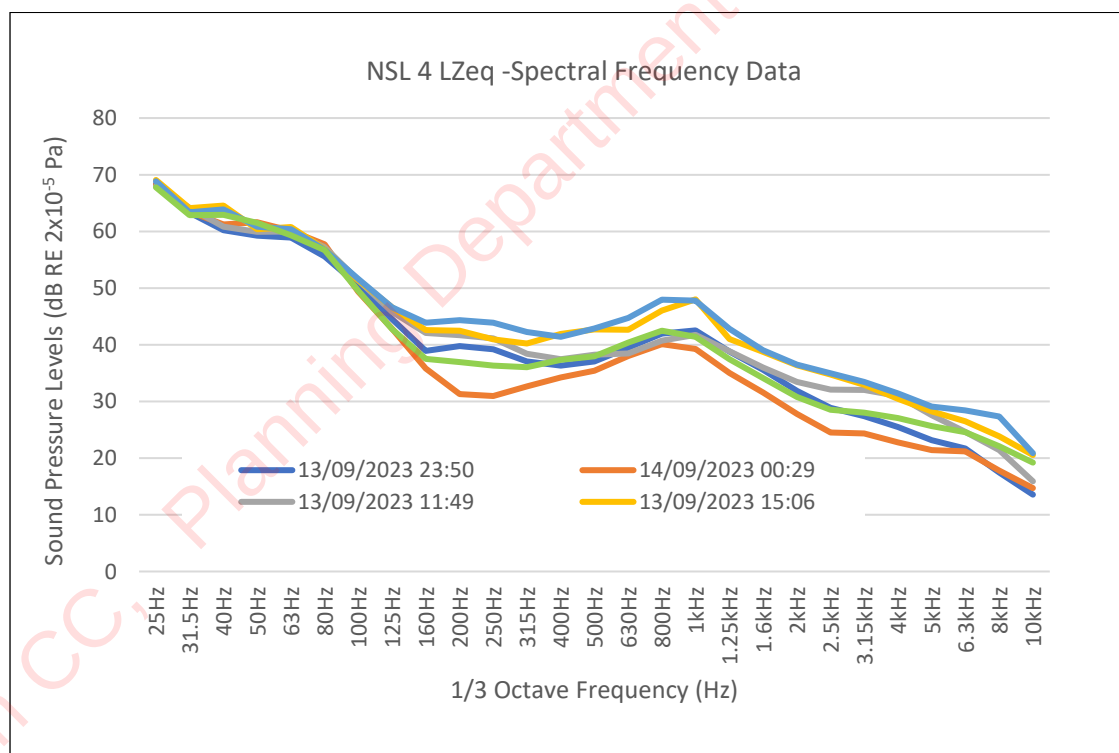


Figure B4 N4 – 1/3rd Octave Band Spectrum for Night Survey

**APPENDIX C
CALIBRATION CERTIFICATES**

RECEIVED: 19/04/2024

Louth CC, Planning Department - Viewing Purposes Only



CERTIFICATE OF CALIBRATION



0653

Date of Issue: 30 May 2023

Calibrated at & Certificate issued by:

ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: info@noise-and-vibration.co.uk

Web: www.noise-and-vibration.co.uk

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Certificate Number: UCRT23/1728

Page 1 of 3 Pages
Approved Signatory
B. Bogdan

CUSTOMER AWN Consulting Limited
The Tecpro Building
IDA Business and Technology Park
Clonsaugh
Dublin
D17 XD90

ORDER No 2308 **Job No** UKAS23/05369

DATE OF RECEIPT 26 May 2023

PROCEDURE Calibration Engineer's Handbook, section 25: periodic testing of sound level meters to IEC 61672-3:2006 (BS EN 61672-3:2006) as modified by UKAS TPS 49

IDENTIFICATION Sound level meter Brüel & Kjær type 2250 serial No 3006754 connected via a preamplifier type ZC 0032 serial No 31224 to a half-inch microphone type 4189 serial No 3307799. Associated calibrator Brüel & Kjær type 4231 serial No 2460007 with one-inch housing and adapter type UC 0210 for half-inch microphone.

CALIBRATED ON 30 May 2023

PREVIOUS CALIBRATION Calibrated on 04 May 2021, Certificate No. UCRT21/1565 issued by this laboratory.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.



CERTIFICATE OF CALIBRATION



0653

Date of Issue: 10 October 2022

Certificate Number: UCRT22/2203

Calibrated at & Certificate issued by:

ANV Measurement Systems

Beaufort Court

17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: info@noise-and-vibration.co.uk

Web: www.noise-and-vibration.co.uk

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Page 1 of 2 Pages
Approved Signatory
K. Mistry

Customer AWN Consulting Limited
The Tecpro Building
IDA Business and Technology Park
Clonshaugh
Dublin
D17 XD90, Ireland

Order No. 2253

Test Procedure Procedure TP 1 Calibration of Sound Calibrators

Description Acoustic Calibrator

Identification	Manufacturer	Instrument	Model	Serial No.
	Brüel & Kjær	Calibrator	4231	3010488

The calibrator has been tested as specified in Annex B of IEC 60942:2003. As public evidence was available from a testing organisation (PTB) responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the class 1 requirements of IEC 60942:2003.

ANV Job No. UKAS22/10625

Date Received 07 October 2022

Date Calibrated 10 October 2022

Previous Certificate	Dated	08 September 2021
	Certificate No.	UCRT21/2094
	Laboratory	0653

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