

Appendix 3.9

**Predicted 1-hour and
annual averaged VOC
concentration ($\mu\text{g}/\text{m}^3$)
at ASRs under various
modes of operations**

Case 1 - ASP On

Appendix 3.9: Predicted 1-hr Vinyl Chloride concentration (ug/m3) at ASRs

Background concentration (with contribution from existing surface gas emission):

3,000 ug/m3

ASR_ID	x_co	y_co	worst-case year without backgd (ug/m3)				worst-case year with backgd (ug/m3)				Within Acute Reference Concentration of 1.8*10^5 ug/m3		
			1.5m	5m	10m	max 1.5m to 10m	1.5m	5m	10m	max 1.5m to 10m	1.5m	5m	10m
ASR1	835592.5	844094.1	1.177E-02	1.177E-02	1.178E-02	1.178E-02	3.012	3.012	3.012	3.012	within	within	within
ASR2	835474.5	843463.0	9.830E-03	9.830E-03	9.830E-03	9.830E-03	3.010	3.010	3.010	3.010	within	within	within
ASR3	836139.2	843267.7	1.262E-02	1.262E-02	1.262E-02	1.262E-02	3.013	3.013	3.013	3.013	within	within	within
ASR4	836921.6	843050.8	1.125E-02	1.125E-02	1.125E-02	1.125E-02	3.011	3.011	3.011	3.011	within	within	within
ASR5	836792.7	842938.7	1.122E-02	1.122E-02	1.122E-02	1.122E-02	3.011	3.011	3.011	3.011	within	within	within
ASR6	836499.0	843079.2	1.168E-02	1.168E-02	1.168E-02	1.168E-02	3.012	3.012	3.012	3.012	within	within	within
ASR7	834949.2	845805.6	1.183E-02	1.183E-02	1.184E-02	1.184E-02	3.012	3.012	3.012	3.012	within	within	within
ASR8	834261.5	845788.0	1.740E-02	1.740E-02	1.740E-02	1.740E-02	3.017	3.017	3.017	3.017	within	within	within
ASR9	834772.4	845729.4	1.299E-02	1.299E-02	1.299E-02	1.299E-02	3.013	3.013	3.013	3.013	within	within	within
ASR10	836866.1	845495.2	1.932E-02	2.058E-02	2.481E-02	2.481E-02	3.019	3.021	3.025	3.025	within	within	within
ASR11	834944.3	844920.6	1.449E-02	1.529E-02	1.782E-02	1.782E-02	3.014	3.015	3.018	3.018	within	within	within
ASR12	833927.6	845623.5	1.628E-02	1.628E-02	1.628E-02	1.628E-02	3.016	3.016	3.016	3.016	within	within	within
ASR13	834681.8	844507.7	1.065E-02	1.068E-02	1.075E-02	1.075E-02	3.011	3.011	3.011	3.011	within	within	within
ASR14	834932.5	844083.2	1.162E-02	1.162E-02	1.163E-02	1.163E-02	3.012	3.012	3.012	3.012	within	within	within
ASR15	834781.0	842892.0	7.230E-03	7.230E-03	7.230E-03	7.230E-03	3.007	3.007	3.007	3.007	within	within	within
ASR16	834638.8	843162.0	7.460E-03	7.460E-03	7.460E-03	7.460E-03	3.007	3.007	3.007	3.007	within	within	within
ASR17	833565.4	844380.1	9.320E-03	9.320E-03	9.320E-03	9.320E-03	3.009	3.009	3.009	3.009	within	within	within
ASR18	833659.8	844135.4	8.900E-03	8.900E-03	8.900E-03	8.900E-03	3.009	3.009	3.009	3.009	within	within	within
ASR19	833278.7	844149.0	8.260E-03	8.260E-03	8.260E-03	8.260E-03	3.008	3.008	3.008	3.008	within	within	within
ASR20	833432.9	843932.5	7.950E-03	7.950E-03	7.950E-03	7.950E-03	3.008	3.008	3.008	3.008	within	within	within
ASR21	833071.0	844042.5	7.750E-03	7.750E-03	7.750E-03	7.750E-03	3.008	3.008	3.008	3.008	within	within	within
ASR22	833816.5	843106.9	6.960E-03	6.960E-03	6.960E-03	6.960E-03	3.007	3.007	3.007	3.007	within	within	within
ASR23	833911.2	842536.3	6.720E-03	6.720E-03	6.720E-03	6.720E-03	3.007	3.007	3.007	3.007	within	within	within
ASR24	833589.5	842617.4	6.680E-03	6.680E-03	6.680E-03	6.680E-03	3.007	3.007	3.007	3.007	within	within	within
ASR25	836212.0	842390.6	9.400E-03	9.400E-03	9.400E-03	9.400E-03	3.009	3.009	3.009	3.009	within	within	within
ASR26	836864.6	842409.3	1.020E-02	1.020E-02	1.020E-02	1.020E-02	3.010	3.010	3.010	3.010	within	within	within
ASR27	836737.6	845023.5	4.617E-02	4.632E-02	4.678E-02	4.678E-02	3.046	3.046	3.047	3.047	within	within	within
		sub-max:	4.617E-02	4.632E-02	4.678E-02	4.678E-02	3.046	3.046	3.047	3.047			
		max:	4.678E-02	4.678E-02	4.678E-02	4.678E-02	3.047	3.047	3.047	3.047			

Appendix 3.9: Predicted 1-hr Vinyl Chloride concentration (ug/m3) at ASRs
 Background concentration (with contribution from existing surface gas emission): 3,000 ug/m3

Case 2 - ASP Off

3,000 ug/m3

ASR_ID	x_co	y_co	worst-case year without backgd (ug/m3)			worst-case year with backgd (ug/m3)			max 1.5m to 10m	Within Acute Reference Concentration of 1.8*10 ⁵ ug/m3		
			1.5m	5m	10m	1.5m	5m	10m		1.5m	5m	10m
ASR1	835592.5	844094.1	0.011	0.011	0.011	0.011	3.011	3.011	3.011	within	within	within
ASR2	835474.5	843463.0	0.015	0.015	0.015	0.015	3.015	3.015	3.015	within	within	within
ASR3	836139.2	843267.7	0.014	0.014	0.014	0.014	3.014	3.014	3.014	within	within	within
ASR4	836921.6	843050.8	0.012	0.012	0.012	0.012	3.012	3.012	3.012	within	within	within
ASR5	836792.7	842938.7	0.012	0.012	0.012	0.012	3.012	3.012	3.012	within	within	within
ASR6	836499.0	843079.2	0.013	0.013	0.013	0.013	3.013	3.013	3.013	within	within	within
ASR7	834949.2	845805.6	0.012	0.012	0.012	0.012	3.012	3.012	3.012	within	within	within
ASR8	834261.5	845788.0	0.017	0.017	0.017	0.017	3.017	3.017	3.017	within	within	within
ASR9	834772.4	845729.4	0.015	0.015	0.015	0.015	3.015	3.015	3.015	within	within	within
ASR10	836866.1	845495.2	0.015	0.015	0.018	0.018	3.015	3.018	3.018	within	within	within
ASR11	834944.3	844920.6	0.016	0.016	0.017	0.017	3.016	3.017	3.017	within	within	within
ASR12	833927.6	845623.5	0.014	0.014	0.014	0.014	3.014	3.014	3.014	within	within	within
ASR13	834681.8	844507.7	0.013	0.013	0.013	0.013	3.013	3.013	3.013	within	within	within
ASR14	834932.5	844083.2	0.015	0.015	0.015	0.015	3.015	3.015	3.015	within	within	within
ASR15	834781.0	842892.0	0.010	0.010	0.010	0.010	3.010	3.010	3.010	within	within	within
ASR16	834638.8	843162.0	0.011	0.011	0.011	0.011	3.011	3.011	3.011	within	within	within
ASR17	833565.4	844380.1	0.009	0.009	0.009	0.009	3.009	3.009	3.009	within	within	within
ASR18	833659.8	844135.4	0.009	0.009	0.009	0.009	3.009	3.009	3.009	within	within	within
ASR19	833278.7	844149.0	0.008	0.008	0.008	0.008	3.008	3.008	3.008	within	within	within
ASR20	833432.9	843932.5	0.009	0.009	0.009	0.009	3.009	3.009	3.009	within	within	within
ASR21	833071.0	844042.5	0.009	0.009	0.009	0.009	3.009	3.009	3.009	within	within	within
ASR22	833816.5	843106.9	0.008	0.008	0.008	0.008	3.008	3.008	3.008	within	within	within
ASR23	833911.2	842536.3	0.008	0.008	0.008	0.008	3.008	3.008	3.008	within	within	within
ASR24	833589.5	842617.4	0.009	0.009	0.009	0.009	3.009	3.009	3.009	within	within	within
ASR25	836212.0	842390.6	0.010	0.010	0.010	0.010	3.010	3.010	3.010	within	within	within
ASR26	836864.6	842409.3	0.010	0.010	0.010	0.010	3.010	3.010	3.010	within	within	within
ASR27	836737.6	845023.5	0.034	0.034	0.036	0.036	3.034	3.036	3.036	within	within	within

sub-max: 0.034 0.034 0.036 0.036 3.034 3.036
 max: 0.036 3.036

Appendix 3.9: Predicted lifetime health risk of Benzene + Vinyl Chloride concentration (ug/m3) at ASR Case 2 - ASP Off

ASR_ID	x_co	y_co	Predicted Individual Lifetime Risk Level (Benzene + Vinyl Chloride)				Predicted Individual Lifetime Risk Level per Year (Benzene + Vinyl Chloride)				Within Individual Lifetime Risk IE-6			Within Individual Lifetime Risk per year 1.4E-8		
			1.5m	5m	10m	max 1.5m to 10m	1.5m	5m	10m	max 1.5m to 10m	1.5m	5m	10m	1.5m	5m	10m
ASR1	835592.5	844094.1	1.75E-09	1.82E-09	1.96E-09	1.96E-09	2.50E-11	2.60E-11	2.80E-11	2.80E-11	2.80E-11	2.80E-11	2.80E-11	2.80E-11	2.80E-11	2.80E-11
ASR2	835474.5	843463.0	1.74E-09	1.74E-09	1.75E-09	1.75E-09	2.49E-11	2.49E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11	2.50E-11
ASR3	836139.2	843267.7	2.55E-09	2.55E-09	2.69E-09	2.69E-09	3.64E-11	3.64E-11	3.84E-11	3.84E-11	3.84E-11	3.84E-11	3.84E-11	3.84E-11	3.84E-11	3.84E-11
ASR4	836921.6	843050.8	1.16E-09	1.16E-09	1.17E-09	1.17E-09	1.66E-11	1.66E-11	1.67E-11	1.67E-11	1.67E-11	1.67E-11	1.67E-11	1.67E-11	1.67E-11	1.67E-11
ASR5	836792.7	842938.7	1.45E-09	1.46E-09	1.53E-09	1.53E-09	2.09E-11	2.09E-11	2.19E-11	2.19E-11	2.19E-11	2.19E-11	2.19E-11	2.19E-11	2.19E-11	2.19E-11
ASR6	836499.0	843079.2	1.46E-09	1.46E-09	1.52E-09	1.52E-09	2.09E-11	2.09E-11	2.17E-11	2.17E-11	2.17E-11	2.17E-11	2.17E-11	2.17E-11	2.17E-11	2.17E-11
ASR7	834949.2	843805.6	1.01E-09	1.01E-09	1.02E-09	1.02E-09	1.44E-11	1.44E-11	1.46E-11	1.46E-11	1.46E-11	1.46E-11	1.46E-11	1.46E-11	1.46E-11	1.46E-11
ASR8	834261.5	845788.0	2.83E-09	2.84E-09	2.98E-09	2.98E-09	4.04E-11	4.04E-11	4.26E-11	4.26E-11	4.26E-11	4.26E-11	4.26E-11	4.26E-11	4.26E-11	4.26E-11
ASR9	834772.4	845729.4	1.32E-09	1.38E-09	1.45E-09	1.45E-09	1.89E-11	1.89E-11	1.97E-11	1.97E-11	2.07E-11	2.07E-11	2.07E-11	2.07E-11	2.07E-11	2.07E-11
ASR10	836866.1	845495.2	1.67E-09	1.74E-09	1.96E-09	1.96E-09	2.39E-11	2.39E-11	2.49E-11	2.49E-11	2.80E-11	2.80E-11	2.80E-11	2.80E-11	2.80E-11	2.80E-11
ASR11	834944.3	844920.6	4.95E-09	5.24E-09	6.32E-09	6.32E-09	7.07E-11	7.49E-11	7.49E-11	9.03E-11	9.03E-11	9.03E-11	9.03E-11	9.03E-11	9.03E-11	9.03E-11
ASR12	833927.6	845623.5	4.80E-09	4.80E-09	4.88E-09	4.88E-09	6.86E-11	6.86E-11	6.86E-11	6.86E-11	6.86E-11	6.86E-11	6.86E-11	6.86E-11	6.86E-11	6.86E-11
ASR13	834681.8	844507.7	2.69E-09	2.69E-09	2.76E-09	2.76E-09	3.84E-11	3.84E-11	3.84E-11	3.84E-11	3.84E-11	3.84E-11	3.84E-11	3.84E-11	3.84E-11	3.84E-11
ASR14	834932.5	844083.2	2.77E-09	2.83E-09	2.91E-09	2.91E-09	3.96E-11	4.04E-11	4.04E-11	4.16E-11	4.16E-11	4.16E-11	4.16E-11	4.16E-11	4.16E-11	4.16E-11
ASR15	834781.0	842892.0	1.02E-09	1.02E-09	1.02E-09	1.02E-09	1.46E-11	1.46E-11	1.46E-11	1.46E-11	1.46E-11	1.46E-11	1.46E-11	1.46E-11	1.46E-11	1.46E-11
ASR16	834638.8	843162.0	1.23E-09	1.23E-09	1.24E-09	1.24E-09	1.76E-11	1.76E-11	1.76E-11	1.76E-11	1.76E-11	1.76E-11	1.76E-11	1.76E-11	1.76E-11	1.76E-11
ASR17	833565.4	844380.1	2.41E-09	2.47E-09	2.48E-09	2.48E-09	3.44E-11	3.44E-11	3.53E-11	3.53E-11	3.54E-11	3.54E-11	3.54E-11	3.54E-11	3.54E-11	3.54E-11
ASR18	833659.8	844135.4	2.25E-09	2.25E-09	2.26E-09	2.26E-09	3.21E-11	3.21E-11	3.21E-11	3.21E-11	3.21E-11	3.21E-11	3.21E-11	3.21E-11	3.21E-11	3.21E-11
ASR19	833278.7	844149.0	2.25E-09	2.25E-09	2.26E-09	2.26E-09	3.21E-11	3.21E-11	3.21E-11	3.21E-11	3.21E-11	3.21E-11	3.21E-11	3.21E-11	3.21E-11	3.21E-11
ASR20	833432.9	843932.5	2.33E-09	2.33E-09	2.40E-09	2.40E-09	3.33E-11	3.33E-11	3.33E-11	3.33E-11	3.33E-11	3.33E-11	3.33E-11	3.33E-11	3.33E-11	3.33E-11
ASR21	833071.0	844042.5	2.33E-09	2.33E-09	2.40E-09	2.40E-09	3.33E-11	3.33E-11	3.33E-11	3.33E-11	3.33E-11	3.33E-11	3.33E-11	3.33E-11	3.33E-11	3.33E-11
ASR22	833816.5	843106.9	1.53E-09	1.53E-09	1.59E-09	1.59E-09	2.19E-11	2.19E-11	2.19E-11	2.19E-11	2.19E-11	2.19E-11	2.19E-11	2.19E-11	2.19E-11	2.19E-11
ASR23	833911.2	842536.3	8.70E-10	8.70E-10	8.70E-10	8.70E-10	1.24E-11	1.24E-11	1.24E-11	1.24E-11	1.24E-11	1.24E-11	1.24E-11	1.24E-11	1.24E-11	1.24E-11
ASR24	833589.5	842617.4	1.24E-09	1.30E-09	1.31E-09	1.31E-09	1.77E-11	1.77E-11	1.86E-11	1.86E-11	1.87E-11	1.87E-11	1.87E-11	1.87E-11	1.87E-11	1.87E-11
ASR25	836212.0	842390.6	1.67E-09	1.67E-09	1.68E-09	1.68E-09	2.39E-11	2.39E-11	2.39E-11	2.39E-11	2.40E-11	2.40E-11	2.40E-11	2.40E-11	2.40E-11	2.40E-11
ASR26	836864.6	842409.3	1.24E-09	1.24E-09	1.31E-09	1.31E-09	1.77E-11	1.77E-11	1.77E-11	1.77E-11	1.87E-11	1.87E-11	1.87E-11	1.87E-11	1.87E-11	1.87E-11
ASR27	836737.6	845023.5	3.64E-09	3.64E-09	3.78E-09	3.78E-09	5.20E-11	5.20E-11	5.20E-11	5.20E-11	5.40E-11	5.40E-11	5.40E-11	5.40E-11	5.40E-11	5.40E-11

sub-max: 4.950E-09 5.240E-09 6.320E-09 6.320E-09 7.07E-11 7.486E-11 9.029E-11 9.029E-11

max: 6.320E-09 9.029E-11

Case 3 - LFGE5 Off

Appendix 3.9: Predicted 1-hr Vinyl Chloride concentration (ug/m3) at ASRs

Background concentration (with contribution from existing surface gas emission): 3.000 ug/m3

ASR_ID	x_co	y_co	worst-case year without backgd (ug/m3)			worst-case year with backgd (ug/m3)			Within Acute Reference Concentration of 1.8*10 ⁵ ug/m3					
			1.5m	5m	10m	1.5m to 10m	1.5m	5m	10m	max 1.5m to 10m	1.5m	5m	10m	
ASR1		835592.5	844094.1	0.015	0.015	0.015	0.015	3.015	3.015	3.015	3.015	within	within	within
ASR2		835474.5	843463.0	0.020	0.020	0.020	0.020	3.020	3.020	3.020	3.020	within	within	within
ASR3		836139.2	843267.7	0.024	0.024	0.024	0.024	3.024	3.024	3.024	3.024	within	within	within
ASR4		836921.6	843050.8	0.022	0.022	0.022	0.022	3.022	3.022	3.022	3.022	within	within	within
ASR5		836792.7	842938.7	0.021	0.021	0.021	0.021	3.021	3.021	3.021	3.021	within	within	within
ASR6		836499.0	843079.2	0.023	0.023	0.023	0.023	3.023	3.023	3.023	3.023	within	within	within
ASR7		834949.2	845805.6	0.020	0.020	0.020	0.020	3.020	3.020	3.020	3.020	within	within	within
ASR8		834261.5	845788.0	0.030	0.030	0.030	0.030	3.030	3.030	3.030	3.030	within	within	within
ASR9		834772.4	845729.4	0.024	0.024	0.024	0.024	3.024	3.024	3.024	3.024	within	within	within
ASR10		836866.1	845495.2	0.017	0.017	0.017	0.019	3.017	3.017	3.019	3.019	within	within	within
ASR11		834944.3	844920.6	0.022	0.022	0.022	0.022	3.022	3.022	3.022	3.022	within	within	within
ASR12		833927.6	845623.5	0.028	0.028	0.028	0.028	3.028	3.028	3.028	3.028	within	within	within
ASR13		834681.8	844507.7	0.020	0.020	0.020	0.020	3.020	3.020	3.020	3.020	within	within	within
ASR14		834932.5	844083.2	0.021	0.021	0.021	0.021	3.021	3.021	3.021	3.021	within	within	within
ASR15		834781.0	842892.0	0.015	0.015	0.015	0.015	3.015	3.015	3.015	3.015	within	within	within
ASR16		834638.8	843162.0	0.016	0.016	0.016	0.016	3.016	3.016	3.016	3.016	within	within	within
ASR17		833565.4	844380.1	0.014	0.014	0.014	0.014	3.014	3.014	3.014	3.014	within	within	within
ASR18		833659.8	844135.4	0.014	0.014	0.014	0.014	3.014	3.014	3.014	3.014	within	within	within
ASR19		833278.7	844149.0	0.014	0.014	0.014	0.014	3.014	3.014	3.014	3.014	within	within	within
ASR20		833432.9	843932.5	0.013	0.013	0.013	0.013	3.013	3.013	3.013	3.013	within	within	within
ASR21		833071.0	844042.5	0.013	0.013	0.013	0.013	3.013	3.013	3.013	3.013	within	within	within
ASR22		833816.5	843106.9	0.013	0.013	0.013	0.013	3.013	3.013	3.013	3.013	within	within	within
ASR23		833911.2	842536.3	0.013	0.013	0.013	0.013	3.013	3.013	3.013	3.013	within	within	within
ASR24		833589.5	842617.4	0.013	0.013	0.013	0.013	3.013	3.013	3.013	3.013	within	within	within
ASR25		836212.0	842390.6	0.017	0.017	0.017	0.017	3.017	3.017	3.017	3.017	within	within	within
ASR26		836864.6	842409.3	0.020	0.020	0.020	0.020	3.020	3.020	3.020	3.020	within	within	within
ASR27		836737.6	845023.5	0.039	0.039	0.042	0.042	3.039	3.039	3.042	3.042	within	within	within

sub-max: 0.039 0.039 0.042 0.042 3.039 3.039 3.042 3.042

max: 0.042 0.042 3.042 3.042

Appendix 3-9: Predicted annual averaged Vinyl Chloride concentration (ug/m3) at ASRs
 Background concentration (with contribution from existing surface emissions):
 unit risk factor: 0.000001 (ug/m3)
 3,000 ug/m3
 1.0E-05

ASR ID	x, y, z	worst-case year without buckled (ug/m3)			worst-case year with buckled (ug/m3)			Predicted Individual Lifetime Risk Level			Predicted Individual Risk Level per Year			Within Chronic Reference Concentration of 100 ug/m3			Within Individual Lifetime Risk IE-6			Within Individual Lifetime Risk per year 1.4E-8			
		1.5m	5m	10m	1.5m	5m	10m	1.5m	5m	10m	1.5m	5m	10m	1.5m	5m	10m	1.5m	5m	10m	1.5m	5m	10m	
ASR1	835292.5	844094.1	3.40E-04	3.40E-04	3.40E-04	3.40E-04	3.00	3.00	3.00	3.70E-10	4.86E-12	4.86E-12	5.29E-12	4.86E-12	4.86E-12	4.86E-12	within	within	within	within	within	within	
ASR2	835474.5	844463.0	4.50E-04	4.50E-04	4.50E-04	4.50E-04	3.00	3.00	3.00	4.50E-10	6.43E-12	6.43E-12	6.57E-12	6.43E-12	6.43E-12	6.43E-12	within	within	within	within	within	within	
ASR3	836139.2	843267.7	6.10E-04	6.20E-04	6.00E-04	6.00E-04	3.00	3.00	3.00	6.10E-10	8.71E-12	8.71E-12	9.14E-12	8.86E-12	8.71E-12	8.71E-12	within	within	within	within	within	within	
ASR4	836921.6	843038.8	3.10E-04	3.20E-04	3.20E-04	3.20E-04	3.00	3.00	3.00	3.10E-10	4.43E-12	4.43E-12	4.57E-12	4.43E-12	4.43E-12	4.43E-12	within	within	within	within	within	within	
ASR5	837027.7	842938.7	4.10E-04	4.10E-04	4.10E-04	4.10E-04	3.00	3.00	3.00	4.10E-10	5.71E-12	5.71E-12	5.86E-12	5.71E-12	5.71E-12	5.71E-12	within	within	within	within	within	within	
ASR6	836699.0	843079.2	4.30E-04	4.40E-04	4.40E-04	4.40E-04	3.00	3.00	3.00	4.30E-10	6.14E-12	6.14E-12	6.29E-12	6.14E-12	6.14E-12	6.14E-12	within	within	within	within	within	within	
ASR7	834949.2	845305.6	1.70E-04	1.80E-04	1.80E-04	1.80E-04	3.00	3.00	3.00	1.70E-10	2.43E-12	2.43E-12	2.57E-12	2.57E-12	2.57E-12	2.57E-12	within	within	within	within	within	within	
ASR8	834261.5	845788.0	2.40E-04	2.40E-04	2.40E-04	2.40E-04	3.00	3.00	3.00	2.40E-10	3.43E-12	3.43E-12	3.71E-12	3.43E-12	3.43E-12	3.43E-12	within	within	within	within	within	within	
ASR9	834772.4	845739.4	2.40E-04	2.40E-04	2.40E-04	2.40E-04	3.00	3.00	3.00	2.40E-10	3.43E-12	3.43E-12	3.71E-12	3.43E-12	3.43E-12	3.43E-12	within	within	within	within	within	within	
ASR10	834965.2	845495.2	4.20E-04	4.20E-04	4.20E-04	4.20E-04	3.00	3.00	3.00	4.20E-10	6.00E-12	6.00E-12	6.29E-12	6.00E-12	6.00E-12	6.00E-12	within	within	within	within	within	within	
ASR11	834944.2	844926.6	9.50E-04	9.50E-04	9.50E-04	9.50E-04	3.00	3.00	3.00	9.50E-10	1.41E-11	1.41E-11	1.49E-11	1.41E-11	1.41E-11	1.41E-11	within	within	within	within	within	within	
ASR12	833272.6	845623.3	1.04E-03	1.07E-03	1.07E-03	1.07E-03	3.00	3.00	3.00	1.04E-09	1.36E-11	1.36E-11	1.45E-11	1.36E-11	1.36E-11	1.36E-11	within	within	within	within	within	within	
ASR13	834681.8	845077.7	5.30E-04	5.30E-04	5.30E-04	5.30E-04	3.00	3.00	3.00	5.30E-10	7.57E-12	7.57E-12	7.71E-12	7.57E-12	7.57E-12	7.57E-12	within	within	within	within	within	within	
ASR14	834982.5	844083.2	5.50E-04	5.50E-04	5.50E-04	5.50E-04	3.00	3.00	3.00	5.50E-10	7.86E-12	7.86E-12	8.11E-12	7.86E-12	7.86E-12	7.86E-12	within	within	within	within	within	within	
ASR15	834781.0	843392.0	3.20E-04	3.20E-04	3.20E-04	3.20E-04	3.00	3.00	3.00	3.20E-10	4.86E-12	4.86E-12	5.00E-12	4.86E-12	4.86E-12	4.86E-12	within	within	within	within	within	within	
ASR16	834638.8	843162.0	3.20E-04	3.20E-04	3.20E-04	3.20E-04	3.00	3.00	3.00	3.20E-10	4.86E-12	4.86E-12	5.00E-12	4.86E-12	4.86E-12	4.86E-12	within	within	within	within	within	within	
ASR17	833355.4	844380.1	7.00E-04	7.00E-04	7.00E-04	7.00E-04	3.00	3.00	3.00	7.00E-10	1.00E-11	1.00E-11	1.01E-11	1.00E-11	1.00E-11	1.00E-11	within	within	within	within	within	within	
ASR18	833659.8	844135.4	6.30E-04	6.40E-04	6.40E-04	6.40E-04	3.00	3.00	3.00	6.30E-10	9.00E-12	9.00E-12	9.14E-12	9.00E-12	9.00E-12	9.00E-12	within	within	within	within	within	within	
ASR19	833278.7	844149.0	7.20E-04	7.30E-04	7.30E-04	7.30E-04	3.00	3.00	3.00	7.20E-10	1.04E-11	1.04E-11	1.04E-11	1.04E-11	1.04E-11	1.04E-11	within	within	within	within	within	within	
ASR20	834432.9	843923.3	6.50E-04	6.50E-04	6.50E-04	6.50E-04	3.00	3.00	3.00	6.50E-10	9.00E-12	9.00E-12	9.14E-12	9.00E-12	9.00E-12	9.00E-12	within	within	within	within	within	within	
ASR21	833071.0	844042.3	7.80E-04	7.80E-04	7.80E-04	7.80E-04	3.00	3.00	3.00	7.80E-10	1.11E-11	1.11E-11	1.13E-11	1.11E-11	1.11E-11	1.11E-11	within	within	within	within	within	within	
ASR22	833165.5	843106.9	4.50E-04	4.50E-04	4.50E-04	4.50E-04	3.00	3.00	3.00	4.50E-10	6.14E-12	6.14E-12	6.29E-12	6.14E-12	6.14E-12	6.14E-12	within	within	within	within	within	within	
ASR23	833911.2	843536.3	3.10E-04	3.10E-04	3.10E-04	3.10E-04	3.00	3.00	3.00	3.10E-10	4.43E-12	4.43E-12	4.57E-12	4.43E-12	4.43E-12	4.43E-12	within	within	within	within	within	within	
ASR24	833589.5	843617.4	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.00	3.00	3.00	3.80E-10	5.29E-12	5.29E-12	5.57E-12	5.29E-12	5.29E-12	5.29E-12	within	within	within	within	within	within	
ASR25	836212.0	842390.6	5.10E-04	5.10E-04	5.10E-04	5.10E-04	3.00	3.00	3.00	5.10E-10	7.29E-12	7.29E-12	7.43E-12	7.29E-12	7.29E-12	7.29E-12	within	within	within	within	within	within	
ASR26	834864.6	842409.3	4.00E-04	4.00E-04	4.00E-04	4.00E-04	3.00	3.00	3.00	4.00E-10	5.71E-12	5.71E-12	5.86E-12	5.71E-12	5.71E-12	5.71E-12	within	within	within	within	within	within	
ASR27	834737.6	842023.5	8.00E-04	8.00E-04	8.00E-04	8.00E-04	3.00	3.00	3.00	8.00E-10	1.29E-11	1.29E-11	1.29E-11	1.29E-11	1.29E-11	1.29E-11	within	within	within	within	within	within	
sub-max:			1.04E-03	1.06E-03	1.06E-03	1.06E-03	3.00	3.00	3.00	1.04E-09	1.49E-11	1.49E-11	1.66E-11	1.49E-11	1.49E-11	1.49E-11							
max:			1.10E-03	1.10E-03	1.10E-03	1.10E-03	3.00	3.00	3.00	1.10E-09	1.66E-11	1.66E-11	1.66E-11	1.66E-11	1.66E-11	1.66E-11							

