



APPENDIX R

Contaminant Transport Model

POLLUTEv7

Version 7.13

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CRRRC Till B Settle

THE VARIABLE VELOCITY AND/OR CONCENTRATION OPTION HAS BEEN USED
NOTE THAT THE ACCURACY OF THE CALCULATIONS WITH THIS OPTION WILL DEPEND ON THE NUMBER OF
SUBLAYERS USED

THE PASSIVE SINK OPTION HAS BEEN USED
NOTE : THE USER IS RESPONSIBLE FOR ENSURING THAT VELOCITY
CHANGES ARE CONSISTENT WITH THE PASSIVE SINK

Layer Properties

Layer	Thickness	Number of Sublayers	Coefficient of Hydrodynamic Dispersion	Matrix Porosity	Distributon Coefficient	Dry Density
Upper Silty Clay	2.1 m	200	0.019 m ² /a	0.54	1 mL/g	1.9 g/cm ³
Lower Silty Clay	23.3 m	200	0.019 m ² /a	0.54	1 mL/g	1.9 g/cm ³

Boundary Conditions

Finite Mass Top Boundary

Fixed Outflow Bottom Boundary

Landfill Length = 1160 m
Landfill Width = 1 m
Base Thickness = 3 m
Base Porosity = 0.35

VARIATION IN PROPERTIES WITH TIME:

TIME PERIODS WITH THE SAME SOURCE AND VELOCITY

Period	Start Time	No. of Steps	Time Step	Source Conc	Rate of Change	Height of Leachate	Volume Collected
1	0 year	20	1 year	0 mg/L	0.85	10000000 m	0.2895 m/a
2	20 year	10	1 year	-1 mg/L	0	7.3 m	0.2695 m/a
3	30 year	40	1 year	-1 mg/L	0	7.3 m	0.2695 m/a
4	70 year	30	1 year	-1 mg/L	0	7.3 m	0.2695 m/a
5	100 year	4	1 year	-1 mg/L	0	7.3 m	0 m/a
6	104 year	4	1 year	-1 mg/L	0	7.3 m	0 m/a
7	108 year	4	1 year	-1 mg/L	0	7.3 m	0 m/a
8	112 year	100	10 year	-1 mg/L	0	7.3 m	0.268 m/a

Period	Start Time	End Time	Darcy Velocity	Dispersivity	Base Velocity
1	0 year	20 year	1 m/a	0.33 m	0.11 m/a
2	20 year	30 year	1 m/a	0.33 m	0.11 m/a
3	30 year	70 year	1 m/a	0.33 m	0.11 m/a
4	70 year	100 year	1 m/a	0.33 m	0.115 m/a
5	100 year	104 year	1 m/a	0.33 m	0.281 m/a
6	104 year	108 year	1 m/a	0.33 m	0.448 m/a
7	108 year	112 year	1 m/a	0.33 m	0.614 m/a
8	112 year	1112 year	1 m/a	0.33 m	0.78 m/a

VELOCITY AND SINK PROFILE:

Time Period	Minimum Depth	Maximum Depth	Vertical Velocity	Horizontal Outflow
1 / 1	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 2	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 3	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 4	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 5	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 6	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 7	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a

1 / 8	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 9	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 10	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 11	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 12	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 13	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 14	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 15	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 16	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 17	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 18	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 19	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
1 / 20	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
2 / 1	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a

2 / 2	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
2 / 3	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
2 / 4	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
2 / 5	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
2 / 6	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
2 / 7	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
2 / 8	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
2 / 9	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
2 / 10	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.00295 m/a 0.000133 m/a 0.000133 m/a	0 m/a 0 m/a 0 m/a
3 / 1	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 2	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 3	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 4	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 5	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 6	0 m	2.1 m	-0.015 m/a	0 m/a

	2.1 m 2.4 m	2.4 m 25.4 m	0.000143 m/a 0.000143 m/a	0 m/a 0 m/a
3 / 7	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 8	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 9	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 10	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 11	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 12	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 13	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 14	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 15	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 16	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 17	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 18	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 19	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 20	0 m 2.1 m	2.1 m 2.4 m	-0.015 m/a 0.000143 m/a	0 m/a 0 m/a

	2.4 m	25.4 m	0.000143 m/a	0 m/a
3 / 21	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 22	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 23	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 24	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 25	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 26	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 27	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 28	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 29	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 30	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 31	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 32	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 33	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 34	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a

3 / 35	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 36	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 37	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 38	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 39	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
3 / 40	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.000143 m/a 0.000143 m/a	0 m/a 0 m/a 0 m/a
4 / 1	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 2	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 3	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 4	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 5	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 6	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 7	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 8	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a

4 / 9	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 10	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 11	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 12	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 13	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 14	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 15	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 16	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 17	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 18	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 19	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 20	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 21	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 22	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 23	0 m	2.1 m	-0.019 m/a	0 m/a

	2.1 m 2.4 m	2.4 m 25.4 m	0.00015 m/a 0.00015 m/a	0 m/a 0 m/a
4 / 24	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 25	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 26	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 27	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 28	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 29	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
4 / 30	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.019 m/a 0.00015 m/a 0.00015 m/a	0 m/a 0 m/a 0 m/a
5 / 1	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.00058 m/a 0.00058 m/a	0 m/a 0 m/a 0 m/a
5 / 2	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.00058 m/a 0.00058 m/a	0 m/a 0 m/a 0 m/a
5 / 3	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.00058 m/a 0.00058 m/a	0 m/a 0 m/a 0 m/a
5 / 4	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.015 m/a 0.00058 m/a 0.00058 m/a	0 m/a 0 m/a 0 m/a
6 / 1	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.009 m/a 0.00102 m/a 0.00102 m/a	0 m/a 0 m/a 0 m/a
6 / 2	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.009 m/a 0.00102 m/a 0.00102 m/a	0 m/a 0 m/a 0 m/a
6 / 3	0 m 2.1 m	2.1 m 2.4 m	-0.009 m/a 0.00102 m/a	0 m/a 0 m/a

	2.4 m	25.4 m	0.00102 m/a	0 m/a
6 / 4	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.009 m/a 0.00102 m/a 0.00102 m/a	0 m/a 0 m/a 0 m/a
7 / 1	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.004 m/a 0.00145 m/a 0.00145 m/a	0 m/a 0 m/a 0 m/a
7 / 2	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.004 m/a 0.00145 m/a 0.00145 m/a	0 m/a 0 m/a 0 m/a
7 / 3	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.004 m/a 0.00145 m/a 0.00145 m/a	0 m/a 0 m/a 0 m/a
7 / 4	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	-0.004 m/a 0.00145 m/a 0.00145 m/a	0 m/a 0 m/a 0 m/a
8 / 1	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 2	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 3	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 4	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 5	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 6	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 7	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 8	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 9	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a

8 / 10	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 11	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 12	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 13	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 14	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 15	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 16	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 17	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 18	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 19	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 20	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 21	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 22	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 23	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a

8 / 24	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 25	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 26	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 27	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 28	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 29	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 30	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 31	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 32	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 33	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 34	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 35	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 36	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 37	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 38	0 m	2.1 m	0.00193 m/a	0 m/a

	2.1 m 2.4 m	2.4 m 25.4 m	0.00188 m/a 0.00188 m/a	0.181 m/a 0 m/a
8 / 39	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 40	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 41	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 42	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 43	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 44	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 45	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 46	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 47	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 48	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 49	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 50	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 51	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 52	0 m 2.1 m	2.1 m 2.4 m	0.00193 m/a 0.00188 m/a	0 m/a 0.181 m/a

	2.4 m	25.4 m	0.00188 m/a	0 m/a
8 / 53	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 54	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 55	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 56	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 57	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 58	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 59	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 60	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 61	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 62	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 63	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 64	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 65	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 66	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a

8 / 67	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 68	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 69	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 70	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 71	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 72	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 73	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 74	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 75	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 76	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 77	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 78	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 79	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 80	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a

8 / 81	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 82	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 83	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 84	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 85	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 86	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 87	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 88	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 89	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 90	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 91	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 92	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 93	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 94	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 95	0 m	2.1 m	0.00193 m/a	0 m/a

	2.1 m 2.4 m	2.4 m 25.4 m	0.00188 m/a 0.00188 m/a	0.181 m/a 0 m/a
8 / 96	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 97	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 98	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 99	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a
8 / 100	0 m 2.1 m 2.4 m	2.1 m 2.4 m 25.4 m	0.00193 m/a 0.00188 m/a 0.00188 m/a	0 m/a 0.181 m/a 0 m/a

Laplace Transform Parameters

TAU = 7 N = 20 SIG = 0 RNU = 2

Calculated Concentrations at Selected Times and Depths

Time year	Depth m	Concentration mg/L
1	0.000E+00 2.100E+00 2.540E+01	8.500E-01 6.717E-39 0.000E+00
2	0.000E+00 2.100E+00 2.540E+01	1.700E+00 7.835E-28 0.000E+00
3	0.000E+00 2.100E+00 2.540E+01	2.550E+00 8.756E-22 0.000E+00
4	0.000E+00 2.100E+00 2.540E+01	3.400E+00 7.936E-19 0.000E+00
5	0.000E+00 2.100E+00 2.540E+01	4.250E+00 4.746E-17 0.000E+00
6	0.000E+00	5.100E+00

	2.100E+00 2.540E+01	7.488E-16 0.000E+00
7	0.000E+00 2.100E+00 2.540E+01	5.950E+00 5.543E-15 0.000E+00
8	0.000E+00 2.100E+00 2.540E+01	6.800E+00 2.556E-14 0.000E+00
9	0.000E+00 2.100E+00 2.540E+01	7.650E+00 8.599E-14 0.000E+00
10	0.000E+00 2.100E+00 2.540E+01	8.500E+00 2.356E-13 0.000E+00
11	0.000E+00 2.100E+00 2.540E+01	9.350E+00 6.149E-13 0.000E+00
12	0.000E+00 2.100E+00 2.540E+01	1.020E+01 2.045E-12 0.000E+00
13	0.000E+00 2.100E+00 2.540E+01	1.105E+01 9.587E-12 0.000E+00
14	0.000E+00 2.100E+00 2.540E+01	1.190E+01 4.810E-11 0.000E+00
15	0.000E+00 2.100E+00 2.540E+01	1.275E+01 2.149E-10 0.000E+00
16	0.000E+00 2.100E+00 2.540E+01	1.360E+01 8.246E-10 0.000E+00
17	0.000E+00 2.100E+00 2.540E+01	1.445E+01 2.745E-09 0.000E+00
18	0.000E+00 2.100E+00 2.540E+01	1.530E+01 8.072E-09 0.000E+00
19	0.000E+00 2.100E+00 2.540E+01	1.615E+01 2.135E-08 0.000E+00
20	0.000E+00 2.100E+00	1.700E+01 5.156E-08

	2.540E+01	0.000E+00
21	0.000E+00 2.100E+00 2.540E+01	1.632E+01 1.150E-07 9.999E-07
22	0.000E+00 2.100E+00 2.540E+01	1.569E+01 2.400E-07 9.998E-07
23	0.000E+00 2.100E+00 2.540E+01	1.508E+01 4.715E-07 9.996E-07
24	0.000E+00 2.100E+00 2.540E+01	1.451E+01 8.793E-07 9.995E-07
25	0.000E+00 2.100E+00 2.540E+01	1.396E+01 1.566E-06 9.994E-07
26	0.000E+00 2.100E+00 2.540E+01	1.343E+01 2.675E-06 9.993E-07
27	0.000E+00 2.100E+00 2.540E+01	1.293E+01 4.407E-06 9.992E-07
28	0.000E+00 2.100E+00 2.540E+01	1.245E+01 7.025E-06 9.991E-07
29	0.000E+00 2.100E+00 2.540E+01	1.199E+01 1.087E-05 9.990E-07
30	0.000E+00 2.100E+00 2.540E+01	1.155E+01 1.638E-05 9.989E-07
31	0.000E+00 2.100E+00 2.540E+01	1.115E+01 1.668E-05 9.989E-07
32	0.000E+00 2.100E+00 2.540E+01	1.076E+01 1.911E-05 9.988E-07
33	0.000E+00 2.100E+00 2.540E+01	1.039E+01 2.206E-05 9.987E-07
34	0.000E+00 2.100E+00 2.540E+01	1.003E+01 2.546E-05 9.986E-07

35	0.000E+00 2.100E+00 2.540E+01	9.688E+00 2.932E-05 9.986E-07
36	0.000E+00 2.100E+00 2.540E+01	9.357E+00 3.365E-05 9.985E-07
37	0.000E+00 2.100E+00 2.540E+01	9.037E+00 3.848E-05 9.984E-07
38	0.000E+00 2.100E+00 2.540E+01	8.728E+00 4.384E-05 9.983E-07
39	0.000E+00 2.100E+00 2.540E+01	8.431E+00 4.975E-05 9.983E-07
40	0.000E+00 2.100E+00 2.540E+01	8.144E+00 5.626E-05 9.982E-07
41	0.000E+00 2.100E+00 2.540E+01	7.867E+00 6.340E-05 9.981E-07
42	0.000E+00 2.100E+00 2.540E+01	7.601E+00 7.120E-05 9.980E-07
43	0.000E+00 2.100E+00 2.540E+01	7.344E+00 7.970E-05 9.980E-07
44	0.000E+00 2.100E+00 2.540E+01	7.095E+00 8.893E-05 9.979E-07
45	0.000E+00 2.100E+00 2.540E+01	6.856E+00 9.892E-05 9.978E-07
46	0.000E+00 2.100E+00 2.540E+01	6.625E+00 1.097E-04 9.978E-07
47	0.000E+00 2.100E+00 2.540E+01	6.402E+00 1.213E-04 9.977E-07
48	0.000E+00 2.100E+00 2.540E+01	6.188E+00 1.338E-04 9.976E-07

49	0.000E+00 2.100E+00 2.540E+01	5.980E+00 1.472E-04 9.976E-07
50	0.000E+00 2.100E+00 2.540E+01	5.780E+00 1.616E-04 9.975E-07
51	0.000E+00 2.100E+00 2.540E+01	5.587E+00 1.769E-04 9.974E-07
52	0.000E+00 2.100E+00 2.540E+01	5.401E+00 1.932E-04 9.974E-07
53	0.000E+00 2.100E+00 2.540E+01	5.221E+00 2.105E-04 9.973E-07
54	0.000E+00 2.100E+00 2.540E+01	5.047E+00 2.289E-04 9.973E-07
55	0.000E+00 2.100E+00 2.540E+01	4.880E+00 2.484E-04 9.972E-07
56	0.000E+00 2.100E+00 2.540E+01	4.718E+00 2.689E-04 9.971E-07
57	0.000E+00 2.100E+00 2.540E+01	4.562E+00 2.906E-04 9.971E-07
58	0.000E+00 2.100E+00 2.540E+01	4.412E+00 3.135E-04 9.970E-07
59	0.000E+00 2.100E+00 2.540E+01	4.266E+00 3.376E-04 9.970E-07
60	0.000E+00 2.100E+00 2.540E+01	4.126E+00 3.628E-04 9.969E-07
61	0.000E+00 2.100E+00 2.540E+01	3.990E+00 3.893E-04 9.968E-07
62	0.000E+00 2.100E+00 2.540E+01	3.859E+00 4.170E-04 9.968E-07
63	0.000E+00	3.733E+00

	2.100E+00 2.540E+01	4.459E-04 9.967E-07
64	0.000E+00 2.100E+00 2.540E+01	3.611E+00 4.762E-04 9.967E-07
65	0.000E+00 2.100E+00 2.540E+01	3.493E+00 5.076E-04 9.966E-07
66	0.000E+00 2.100E+00 2.540E+01	3.380E+00 5.404E-04 9.966E-07
67	0.000E+00 2.100E+00 2.540E+01	3.270E+00 5.745E-04 9.965E-07
68	0.000E+00 2.100E+00 2.540E+01	3.164E+00 6.098E-04 9.964E-07
69	0.000E+00 2.100E+00 2.540E+01	3.061E+00 6.465E-04 9.964E-07
70	0.000E+00 2.100E+00 2.540E+01	2.962E+00 6.844E-04 9.963E-07
71	0.000E+00 2.100E+00 2.540E+01	2.867E+00 6.567E-04 9.963E-07
72	0.000E+00 2.100E+00 2.540E+01	2.775E+00 6.587E-04 9.962E-07
73	0.000E+00 2.100E+00 2.540E+01	2.687E+00 6.647E-04 9.962E-07
74	0.000E+00 2.100E+00 2.540E+01	2.602E+00 6.726E-04 9.961E-07
75	0.000E+00 2.100E+00 2.540E+01	2.520E+00 6.815E-04 9.960E-07
76	0.000E+00 2.100E+00 2.540E+01	2.440E+00 6.911E-04 9.960E-07
77	0.000E+00 2.100E+00	2.364E+00 7.011E-04

	2.540E+01	9.959E-07
78	0.000E+00 2.100E+00 2.540E+01	2.290E+00 7.115E-04 9.959E-07
79	0.000E+00 2.100E+00 2.540E+01	2.218E+00 7.220E-04 9.958E-07
80	0.000E+00 2.100E+00 2.540E+01	2.149E+00 7.327E-04 9.958E-07
81	0.000E+00 2.100E+00 2.540E+01	2.082E+00 7.435E-04 9.957E-07
82	0.000E+00 2.100E+00 2.540E+01	2.017E+00 7.543E-04 9.957E-07
83	0.000E+00 2.100E+00 2.540E+01	1.955E+00 7.651E-04 9.956E-07
84	0.000E+00 2.100E+00 2.540E+01	1.894E+00 7.759E-04 9.955E-07
85	0.000E+00 2.100E+00 2.540E+01	1.836E+00 7.867E-04 9.955E-07
86	0.000E+00 2.100E+00 2.540E+01	1.779E+00 7.975E-04 9.954E-07
87	0.000E+00 2.100E+00 2.540E+01	1.725E+00 8.082E-04 9.954E-07
88	0.000E+00 2.100E+00 2.540E+01	1.672E+00 8.188E-04 9.953E-07
89	0.000E+00 2.100E+00 2.540E+01	1.621E+00 8.294E-04 9.953E-07
90	0.000E+00 2.100E+00 2.540E+01	1.571E+00 8.398E-04 9.952E-07
91	0.000E+00 2.100E+00 2.540E+01	1.524E+00 8.502E-04 9.952E-07

92	0.000E+00 2.100E+00 2.540E+01	1.477E+00 8.604E-04 9.951E-07
93	0.000E+00 2.100E+00 2.540E+01	1.433E+00 8.705E-04 9.951E-07
94	0.000E+00 2.100E+00 2.540E+01	1.389E+00 8.805E-04 9.950E-07
95	0.000E+00 2.100E+00 2.540E+01	1.348E+00 8.904E-04 9.950E-07
96	0.000E+00 2.100E+00 2.540E+01	1.307E+00 9.002E-04 9.949E-07
97	0.000E+00 2.100E+00 2.540E+01	1.268E+00 9.098E-04 9.949E-07
98	0.000E+00 2.100E+00 2.540E+01	1.230E+00 9.192E-04 9.948E-07
99	0.000E+00 2.100E+00 2.540E+01	1.193E+00 9.286E-04 9.948E-07
100	0.000E+00 2.100E+00 2.540E+01	1.158E+00 9.377E-04 9.947E-07
101	0.000E+00 2.100E+00 2.540E+01	1.165E+00 1.026E-03 9.947E-07
102	0.000E+00 2.100E+00 2.540E+01	1.172E+00 1.082E-03 9.946E-07
103	0.000E+00 2.100E+00 2.540E+01	1.178E+00 1.133E-03 9.946E-07
104	0.000E+00 2.100E+00 2.540E+01	1.184E+00 1.181E-03 9.945E-07
105	0.000E+00 2.100E+00 2.540E+01	1.190E+00 1.369E-03 9.945E-07

106	0.000E+00 2.100E+00 2.540E+01	1.195E+00 1.506E-03 9.945E-07
107	0.000E+00 2.100E+00 2.540E+01	1.199E+00 1.641E-03 9.944E-07
108	0.000E+00 2.100E+00 2.540E+01	1.203E+00 1.778E-03 9.944E-07
109	0.000E+00 2.100E+00 2.540E+01	1.206E+00 2.070E-03 9.943E-07
110	0.000E+00 2.100E+00 2.540E+01	1.209E+00 2.320E-03 9.943E-07
111	0.000E+00 2.100E+00 2.540E+01	1.212E+00 2.579E-03 9.943E-07
112	0.000E+00 2.100E+00 2.540E+01	1.214E+00 2.849E-03 9.942E-07
122	0.000E+00 2.100E+00 2.540E+01	8.610E-01 9.154E-03 9.939E-07
132	0.000E+00 2.100E+00 2.540E+01	6.166E-01 1.990E-02 9.935E-07
142	0.000E+00 2.100E+00 2.540E+01	4.456E-01 3.477E-02 9.932E-07
152	0.000E+00 2.100E+00 2.540E+01	3.251E-01 5.220E-02 9.929E-07
162	0.000E+00 2.100E+00 2.540E+01	2.398E-01 7.047E-02 9.925E-07
172	0.000E+00 2.100E+00 2.540E+01	1.789E-01 8.820E-02 9.922E-07
182	0.000E+00 2.100E+00 2.540E+01	1.351E-01 1.045E-01 9.919E-07
192	0.000E+00	1.033E-01

	2.100E+00 2.540E+01	1.189E-01 9.916E-07
202	0.000E+00 2.100E+00 2.540E+01	8.016E-02 1.311E-01 9.914E-07
212	0.000E+00 2.100E+00 2.540E+01	6.310E-02 1.411E-01 9.911E-07
222	0.000E+00 2.100E+00 2.540E+01	5.042E-02 1.491E-01 9.908E-07
232	0.000E+00 2.100E+00 2.540E+01	4.091E-02 1.552E-01 9.905E-07
242	0.000E+00 2.100E+00 2.540E+01	3.369E-02 1.597E-01 9.903E-07
252	0.000E+00 2.100E+00 2.540E+01	2.816E-02 1.628E-01 9.900E-07
262	0.000E+00 2.100E+00 2.540E+01	2.388E-02 1.647E-01 9.898E-07
272	0.000E+00 2.100E+00 2.540E+01	2.051E-02 1.655E-01 9.895E-07
282	0.000E+00 2.100E+00 2.540E+01	1.784E-02 1.655E-01 9.893E-07
292	0.000E+00 2.100E+00 2.540E+01	1.570E-02 1.648E-01 9.891E-07
302	0.000E+00 2.100E+00 2.540E+01	1.395E-02 1.635E-01 9.888E-07
312	0.000E+00 2.100E+00 2.540E+01	1.251E-02 1.618E-01 9.886E-07
322	0.000E+00 2.100E+00 2.540E+01	1.131E-02 1.598E-01 9.884E-07
332	0.000E+00 2.100E+00	1.030E-02 1.575E-01

	2.540E+01	9.882E-07
342	0.000E+00 2.100E+00 2.540E+01	9.441E-03 1.549E-01 9.880E-07
352	0.000E+00 2.100E+00 2.540E+01	8.702E-03 1.523E-01 9.877E-07
362	0.000E+00 2.100E+00 2.540E+01	8.060E-03 1.495E-01 9.875E-07
372	0.000E+00 2.100E+00 2.540E+01	7.499E-03 1.466E-01 9.873E-07
382	0.000E+00 2.100E+00 2.540E+01	7.004E-03 1.437E-01 9.871E-07
392	0.000E+00 2.100E+00 2.540E+01	6.565E-03 1.408E-01 9.869E-07
402	0.000E+00 2.100E+00 2.540E+01	6.172E-03 1.378E-01 9.867E-07
412	0.000E+00 2.100E+00 2.540E+01	5.820E-03 1.349E-01 9.866E-07
422	0.000E+00 2.100E+00 2.540E+01	5.501E-03 1.321E-01 9.864E-07
432	0.000E+00 2.100E+00 2.540E+01	5.211E-03 1.292E-01 9.862E-07
442	0.000E+00 2.100E+00 2.540E+01	4.947E-03 1.264E-01 9.860E-07
452	0.000E+00 2.100E+00 2.540E+01	4.706E-03 1.237E-01 9.858E-07
462	0.000E+00 2.100E+00 2.540E+01	4.484E-03 1.210E-01 9.856E-07
472	0.000E+00 2.100E+00 2.540E+01	4.280E-03 1.184E-01 9.855E-07

482	0.000E+00 2.100E+00 2.540E+01	4.091E-03 1.159E-01 9.853E-07
492	0.000E+00 2.100E+00 2.540E+01	3.916E-03 1.134E-01 9.851E-07
502	0.000E+00 2.100E+00 2.540E+01	3.753E-03 1.109E-01 9.849E-07
512	0.000E+00 2.100E+00 2.540E+01	3.601E-03 1.086E-01 9.848E-07
522	0.000E+00 2.100E+00 2.540E+01	3.460E-03 1.063E-01 9.846E-07
532	0.000E+00 2.100E+00 2.540E+01	3.327E-03 1.040E-01 9.844E-07
542	0.000E+00 2.100E+00 2.540E+01	3.203E-03 1.019E-01 9.843E-07
552	0.000E+00 2.100E+00 2.540E+01	3.087E-03 9.975E-02 9.841E-07
562	0.000E+00 2.100E+00 2.540E+01	2.977E-03 9.770E-02 9.840E-07
572	0.000E+00 2.100E+00 2.540E+01	2.874E-03 9.570E-02 9.838E-07
582	0.000E+00 2.100E+00 2.540E+01	2.777E-03 9.376E-02 9.836E-07
592	0.000E+00 2.100E+00 2.540E+01	2.685E-03 9.188E-02 9.835E-07
602	0.000E+00 2.100E+00 2.540E+01	2.598E-03 9.005E-02 9.833E-07
612	0.000E+00 2.100E+00 2.540E+01	2.516E-03 8.828E-02 9.832E-07

622	0.000E+00 2.100E+00 2.540E+01	2.438E-03 8.655E-02 9.830E-07
632	0.000E+00 2.100E+00 2.540E+01	2.364E-03 8.488E-02 9.829E-07
642	0.000E+00 2.100E+00 2.540E+01	2.293E-03 8.325E-02 9.827E-07
652	0.000E+00 2.100E+00 2.540E+01	2.226E-03 8.167E-02 9.826E-07
662	0.000E+00 2.100E+00 2.540E+01	2.162E-03 8.013E-02 9.825E-07
672	0.000E+00 2.100E+00 2.540E+01	2.102E-03 7.863E-02 9.823E-07
682	0.000E+00 2.100E+00 2.540E+01	2.044E-03 7.718E-02 9.822E-07
692	0.000E+00 2.100E+00 2.540E+01	1.988E-03 7.577E-02 9.820E-07
702	0.000E+00 2.100E+00 2.540E+01	1.935E-03 7.440E-02 9.819E-07
712	0.000E+00 2.100E+00 2.540E+01	1.885E-03 7.306E-02 9.818E-07
722	0.000E+00 2.100E+00 2.540E+01	1.836E-03 7.176E-02 9.816E-07
732	0.000E+00 2.100E+00 2.540E+01	1.790E-03 7.050E-02 9.815E-07
742	0.000E+00 2.100E+00 2.540E+01	1.745E-03 6.927E-02 9.814E-07
752	0.000E+00 2.100E+00 2.540E+01	1.702E-03 6.808E-02 9.812E-07
762	0.000E+00	1.661E-03

	2.100E+00 2.540E+01	6.691E-02 9.811E-07
772	0.000E+00 2.100E+00 2.540E+01	1.622E-03 6.578E-02 9.810E-07
782	0.000E+00 2.100E+00 2.540E+01	1.584E-03 6.467E-02 9.808E-07
792	0.000E+00 2.100E+00 2.540E+01	1.547E-03 6.360E-02 9.807E-07
802	0.000E+00 2.100E+00 2.540E+01	1.512E-03 6.255E-02 9.806E-07
812	0.000E+00 2.100E+00 2.540E+01	1.478E-03 6.153E-02 9.804E-07
822	0.000E+00 2.100E+00 2.540E+01	1.446E-03 6.053E-02 9.803E-07
832	0.000E+00 2.100E+00 2.540E+01	1.414E-03 5.956E-02 9.802E-07
842	0.000E+00 2.100E+00 2.540E+01	1.384E-03 5.862E-02 9.801E-07
852	0.000E+00 2.100E+00 2.540E+01	1.355E-03 5.770E-02 9.800E-07
862	0.000E+00 2.100E+00 2.540E+01	1.327E-03 5.680E-02 9.798E-07
872	0.000E+00 2.100E+00 2.540E+01	1.299E-03 5.592E-02 9.797E-07
882	0.000E+00 2.100E+00 2.540E+01	1.273E-03 5.506E-02 9.796E-07
892	0.000E+00 2.100E+00 2.540E+01	1.247E-03 5.423E-02 9.795E-07
902	0.000E+00 2.100E+00	1.223E-03 5.341E-02

	2.540E+01	9.794E-07
912	0.000E+00 2.100E+00 2.540E+01	1.199E-03 5.262E-02 9.792E-07
922	0.000E+00 2.100E+00 2.540E+01	1.176E-03 5.184E-02 9.791E-07
932	0.000E+00 2.100E+00 2.540E+01	1.153E-03 5.108E-02 9.790E-07
942	0.000E+00 2.100E+00 2.540E+01	1.132E-03 5.034E-02 9.789E-07
952	0.000E+00 2.100E+00 2.540E+01	1.111E-03 4.961E-02 9.788E-07
962	0.000E+00 2.100E+00 2.540E+01	1.090E-03 4.890E-02 9.787E-07
972	0.000E+00 2.100E+00 2.540E+01	1.070E-03 4.821E-02 9.785E-07
982	0.000E+00 2.100E+00 2.540E+01	1.051E-03 4.753E-02 9.784E-07
992	0.000E+00 2.100E+00 2.540E+01	1.033E-03 4.687E-02 9.783E-07
1002	0.000E+00 2.100E+00 2.540E+01	1.014E-03 4.622E-02 9.782E-07
1012	0.000E+00 2.100E+00 2.540E+01	9.968E-04 4.559E-02 9.781E-07
1022	0.000E+00 2.100E+00 2.540E+01	9.797E-04 4.497E-02 9.780E-07
1032	0.000E+00 2.100E+00 2.540E+01	9.631E-04 4.436E-02 9.779E-07
1042	0.000E+00 2.100E+00 2.540E+01	9.469E-04 4.377E-02 9.777E-07

1052	0.000E+00 2.100E+00 2.540E+01	9.312E-04 4.319E-02 9.776E-07
1062	0.000E+00 2.100E+00 2.540E+01	9.159E-04 4.262E-02 9.775E-07
1072	0.000E+00 2.100E+00 2.540E+01	9.010E-04 4.206E-02 9.774E-07
1082	0.000E+00 2.100E+00 2.540E+01	8.865E-04 4.152E-02 9.773E-07
1092	0.000E+00 2.100E+00 2.540E+01	8.724E-04 4.099E-02 9.772E-07
1102	0.000E+00 2.100E+00 2.540E+01	8.586E-04 4.046E-02 9.771E-07
1112	0.000E+00 2.100E+00 2.540E+01	8.452E-04 3.995E-02 9.770E-07

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