

MIGRATEv10

Version 10.00
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Case 12: Two Landfills - Different Source Histories #VAR

Variable Properties with Time

Group	Start Time	End Time	Increments
1	0 year	20 year	1
2	20 year	22 year	1
3	22 year	24 year	1
4	24 year	26 year	1
5	26 year	28 year	1
6	28 year	30 year	1
7	30 year	40 year	1
8	40 year	100 year	2

Time Group 1

Layer Properties

Layer	Thickness	Sublayers	Dry Density	Porosity	Distribution Coefficient	Half-Life
Layer 1	1 m	2	1.9 g/cm ³	0.35	0 mL/g	0 year
Layer 2	2 m	4	1.9 g/cm ³	0.4	0 mL/g	0 year

Layer	Vertical Diffusion	Horizontal Diffusion	Vertical Velocity	Horizontal Velocity	Sink Removal	Concentration
Layer 1	0.019 m ² /a	0.019 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L
Layer 2	0.015 m ² /a	0.015 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L

Boundary Conditions

Finite Mass Top Boundary

	Cell 1	Cell 2
Offset	150 m	650 m
Surface Width	300 m	600 m
Base Width	280 m	580 m
Initial Concentration	1500 mg/L	0 mg/L
Source Half-Life	0 year	0 year
Waste Thickness	15 m	0 m
Waste Density	600 kg/m ³	600 kg/m ³
Percentage of Mass	0.2	0.2
Volume Leachate Collected	0.05 m/a	0.05 m/a
Reference Height of Leachate	0 m	0 m

Aquifer Bottom Boundary

Base Thickness	2 m
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Base Half-Life	0 year
Base Porosity	0.35
Sink Removal	0 m/a
Outflow Velocity	12 m/a
Dispersion Coefficient	10 m ² /a
Base Integration Width	2400 m

Time Group 2

Layer Properties

Layer	Thickness	Sublayers	Dry Density	Porosity	Distribution Coefficient	Half-Life
Layer 1	1 m	2	1.9 g/cm ³	0.35	0 mL/g	0 year
Layer 2	2 m	4	1.9 g/cm ³	0.4	0 mL/g	0 year

Layer	Vertical Diffusion	Horizontal Diffusion	Vertical Velocity	Horizontal Velocity	Sink Removal	Concentration
Layer 1	0.019 m ² /a	0.019 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L
Layer 2	0.015 m ² /a	0.015 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L

Boundary Conditions

Finite Mass Top Boundary

	Cell 1	Cell 2
Offset	150 m	650 m
Surface Width	300 m	600 m
Base Width	280 m	580 m
Initial Concentration	-1 mg/L	300 mg/L
Source Half-Life	0 year	0 year
Waste Thickness	15 m	25 m
Waste Density	600 kg/m ³	600 kg/m ³
Percentage of Mass	0.2	0.2
Volume Leachate Collected	0.05 m/a	0.05 m/a
Reference Height of Leachate	12 m	100 m

Aquifer Bottom Boundary

Base Thickness	2 m
Base Half-Life	0 year
Base Porosity	0.35
Sink Removal	0 m/a
Outflow Velocity	12 m/a
Dispersion Coefficient	10 m ² /a
Base Integration Width	2400 m

Time Group 3

Layer Properties

Layer	Thickness	Sublayers	Dry Density	Porosity	Distribution Coefficient	Half-Life
Layer 1	1 m	2	1.9 g/cm ³	0.35	0 mL/g	0 year
Layer 2	2 m	4	1.9 g/cm ³	0.4	0 mL/g	0 year

Layer	Vertical Diffusion	Horizontal Diffusion	Vertical Velocity	Horizontal Velocity	Sink Removal	Concentration
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Layer 1	0.019 m ² /a	0.019 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L
Layer 2	0.015 m ² /a	0.015 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L

Boundary Conditions

Finite Mass Top Boundary

	Cell 1	Cell 2
Offset	150 m	650 m
Surface Width	300 m	600 m
Base Width	280 m	580 m
Initial Concentration	-1 mg/L	600 mg/L
Source Half-Life	0 year	0 year
Waste Thickness	15 m	25 m
Waste Density	600 kg/m ³	600 kg/m ³
Percentage of Mass	0.2	0.2
Volume Leachate Collected	0.05 m/a	0.05 m/a
Reference Height of Leachate	12 m	50 m

Aquifer Bottom Boundary

Base Thickness	2 m
Base Half-Life	0 year
Base Porosity	0.35
Sink Removal	0 m/a
Outflow Velocity	12 m/a
Dispersion Coefficient	10 m ² /a
Base Integration Width	2400 m

Time Group 4

Layer Properties

Layer	Thickness	Sublayers	Dry Density	Porosity	Distribution Coefficient	Half-Life
Layer 1	1 m	2	1.9 g/cm ³	0.35	0 mL/g	0 year
Layer 2	2 m	4	1.9 g/cm ³	0.4	0 mL/g	0 year

Layer	Vertical Diffusion	Horizontal Diffusion	Vertical Velocity	Horizontal Velocity	Sink Removal	Concentration
Layer 1	0.019 m ² /a	0.019 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L
Layer 2	0.015 m ² /a	0.015 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L

Boundary Conditions

Finite Mass Top Boundary

	Cell 1	Cell 2
Offset	150 m	650 m
Surface Width	300 m	600 m
Base Width	280 m	580 m
Initial Concentration	-1 mg/L	900 mg/L
Source Half-Life	0 year	0 year
Waste Thickness	15 m	25 m
Waste Density	600 kg/m ³	600 kg/m ³
Percentage of Mass	0.2	0.2
Volume Leachate Collected	0.05 m/a	0.05 m/a
Reference Height of Leachate	12 m	33.333333333333 m

Aquifer Bottom Boundary

Base Thickness	2 m
Base Half-Life	0 year
Base Porosity	0.35
Sink Removal	0 m/a
Outflow Velocity	12 m/a
Dispersion Coefficient	10 m ² /a
Base Integration Width	2400 m

Time Group 5

Layer Properties

Layer	Thickness	Sublayers	Dry Density	Porosity	Distribution Coefficient	Half-Life
Layer 1	1 m	2	1.9 g/cm ³	0.35	0 mL/g	0 year
Layer 2	2 m	4	1.9 g/cm ³	0.4	0 mL/g	0 year

Layer	Vertical Diffusion	Horizontal Diffusion	Vertical Velocity	Horizontal Velocity	Sink Removal	Concentration
Layer 1	0.019 m ² /a	0.019 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L
Layer 2	0.015 m ² /a	0.015 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L

Boundary Conditions

Finite Mass Top Boundary

	Cell 1	Cell 2
Offset	150 m	650 m
Surface Width	300 m	600 m
Base Width	280 m	580 m
Initial Concentration	-1 mg/L	1200 mg/L
Source Half-Life	0 year	0 year
Waste Thickness	15 m	25 m
Waste Density	600 kg/m ³	600 kg/m ³
Percentage of Mass	0.2	0.2
Volume Leachate Collected	0.05 m/a	0.05 m/a
Reference Height of Leachate	12 m	25 m

Aquifer Bottom Boundary

Base Thickness	2 m
Base Half-Life	0 year
Base Porosity	0.35
Sink Removal	0 m/a
Outflow Velocity	12 m/a
Dispersion Coefficient	10 m ² /a
Base Integration Width	2400 m

Time Group 6

Layer Properties

Layer	Thickness	Sublayers	Dry Density	Porosity	Distribution Coefficient	Half-Life
Layer 1	1 m	2	1.9 g/cm ³	0.35	0 mL/g	0 year

Layer 2	2 m	4	1.9 g/cm ³	0.4	0 mL/g	0 year
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Layer	Vertical Diffusion	Horizontal Diffusion	Vertical Velocity	Horizontal Velocity	Sink Removal	Concentration
Layer 1	0.019 m ² /a	0.019 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L
Layer 2	0.015 m ² /a	0.015 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L

Boundary Conditions

Finite Mass Top Boundary

	Cell 1	Cell 2
Offset	150 m	650 m
Surface Width	300 m	600 m
Base Width	280 m	580 m
Initial Concentration	-1 mg/L	1500 mg/L
Source Half-Life	0 year	0 year
Waste Thickness	15 m	25 m
Waste Density	600 kg/m ³	600 kg/m ³
Percentage of Mass	0.2	0.2
Volume Leachate Collected	0.05 m/a	0.05 m/a
Reference Height of Leachate	12 m	20 m

Aquifer Bottom Boundary

Base Thickness	2 m
Base Half-Life	0 year
Base Porosity	0.35
Sink Removal	0 m/a
Outflow Velocity	12 m/a
Dispersion Coefficient	10 m ² /a
Base Integration Width	2400 m

Time Group 7

Layer Properties

Layer	Thickness	Sublayers	Dry Density	Porosity	Distribution Coefficient	Half-Life
Layer 1	1 m	2	1.9 g/cm ³	0.35	0 mL/g	0 year
Layer 2	2 m	4	1.9 g/cm ³	0.4	0 mL/g	0 year

Layer	Vertical Diffusion	Horizontal Diffusion	Vertical Velocity	Horizontal Velocity	Sink Removal	Concentration
Layer 1	0.019 m ² /a	0.019 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L
Layer 2	0.015 m ² /a	0.015 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L

Boundary Conditions

Finite Mass Top Boundary

	Cell 1	Cell 2
Offset	150 m	650 m
Surface Width	300 m	600 m
Base Width	280 m	580 m
Initial Concentration	-1 mg/L	1500 mg/L
Source Half-Life	0 year	0 year
Waste Thickness	15 m	25 m

Waste Density	600 kg/m ³	600 kg/m ³
Percentage of Mass	0.2	0.2
Volume Leachate Collected	0.05 m/a	0.05 m/a
Reference Height of Leachate	12 m	20 m

Aquifer Bottom Boundary

Base Thickness	2 m
Base Half-Life	0 year
Base Porosity	0.35
Sink Removal	0 m/a
Outflow Velocity	12 m/a
Dispersion Coefficient	10 m ² /a
Base Integration Width	2400 m

Time Group 8

Layer Properties

Layer	Thickness	Sublayers	Dry Density	Porosity	Distribution Coefficient	Half-Life
Layer 1	1 m	2	1.9 g/cm ³	0.35	0 mL/g	0 year
Layer 2	2 m	4	1.9 g/cm ³	0.4	0 mL/g	0 year

Layer	Vertical Diffusion	Horizontal Diffusion	Vertical Velocity	Horizontal Velocity	Sink Removal	Concentration
Layer 1	0.019 m ² /a	0.019 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L
Layer 2	0.015 m ² /a	0.015 m ² /a	0.008 m/a	0 m/a	0 m/a	0 mg/L

Boundary Conditions

Finite Mass Top Boundary

	Cell 1	Cell 2
Offset	150 m	650 m
Surface Width	300 m	600 m
Base Width	280 m	580 m
Initial Concentration	-1 mg/L	1500 mg/L
Source Half-Life	0 year	0 year
Waste Thickness	15 m	25 m
Waste Density	600 kg/m ³	600 kg/m ³
Percentage of Mass	0.2	0.2
Volume Leachate Collected	0.05 m/a	0.05 m/a
Reference Height of Leachate	12 m	20 m

Aquifer Bottom Boundary

Base Thickness	2 m
Base Half-Life	0 year
Base Porosity	0.35
Sink Removal	0 m/a
Outflow Velocity	12 m/a
Dispersion Coefficient	10 m ² /a
Base Integration Width	2400 m

Laplace Transform Parameters

TAU	7
N	11
SIG	0
RNU	1

Gauss Integration Parameters

Integration Level	Select
Number of Groups	1
Number of Samples	20
Subinterval Size	0.025
Number of Subintervals	300
Number of Sample Points per Step	20
Total Width of Integration	7.5
Total Number of Integration Points	12000

Group	Step Size	# of Steps
1	0.025	300

Calculated Concentrations at Selected Depths, Lateral Distances and Times

Time year	Distance m	Depth m	Concentration mg/L
20	0	0.00000E+00	5.74955E+00
		5.00000E-01	1.98456E+01
		1.00000E+00	1.51906E+01
		1.50000E+00	6.74221E+00
		2.00000E+00	1.98787E+00
20	150	2.50000E+00	3.91298E-01
		3.00000E+00	1.84904E-05
		0.00000E+00	1.36202E+03
		5.00000E-01	1.02443E+03
		1.00000E+00	6.04790E+02
20	300	1.50000E+00	2.44005E+02
		2.00000E+00	6.86370E+01
		2.50000E+00	1.31804E+01
		3.00000E+00	3.08855E-01
		0.00000E+00	5.74902E+00
20	350	5.00000E-01	1.98456E+01
		1.00000E+00	1.51906E+01
		1.50000E+00	6.74222E+00
		2.00000E+00	1.98820E+00
		2.50000E+00	4.03731E-01
20	350	3.00000E+00	3.17667E-01
		0.00000E+00	-5.70465E-01
		5.00000E-01	-2.81769E+00

		1.00000E+00	-2.63758E+00
		1.50000E+00	-1.43140E+00
		2.00000E+00	-5.03219E-01
		2.50000E+00	-1.10577E-01
		3.00000E+00	1.56468E-01
20	500	0.00000E+00	-1.36476E+02
		5.00000E-01	-1.31447E+02
		1.00000E+00	-9.72819E+01
		1.50000E+00	-4.89907E+01
		2.00000E+00	-1.66790E+01
		2.50000E+00	-3.77316E+00
		3.00000E+00	-9.62162E-02
20	650	0.00000E+00	-1.36476E+02
		5.00000E-01	-1.31447E+02
		1.00000E+00	-9.72819E+01
		1.50000E+00	-4.89907E+01
		2.00000E+00	-1.66790E+01
		2.50000E+00	-3.77358E+00
		3.00000E+00	-1.17810E-01
20	800	0.00000E+00	-1.36477E+02
		5.00000E-01	-1.31447E+02
		1.00000E+00	-9.72819E+01
		1.50000E+00	-4.89907E+01
		2.00000E+00	-1.66790E+01
		2.50000E+00	-3.77355E+00
		3.00000E+00	-1.18306E-01
20	950	0.00000E+00	-5.75986E-01
		5.00000E-01	-2.81786E+00
		1.00000E+00	-2.63759E+00
		1.50000E+00	-1.43141E+00
		2.00000E+00	-5.03466E-01
		2.50000E+00	-1.20397E-01
		3.00000E+00	-1.10922E-01
20	1100	0.00000E+00	1.70224E-04
		5.00000E-01	5.62169E-06
		1.00000E+00	2.21828E-07
		1.50000E+00	5.67804E-08
		2.00000E+00	-2.17602E-06
		2.50000E+00	-2.36746E-04
		3.00000E+00	-1.12993E-02
20	1200	0.00000E+00	-2.63394E-04

		5.00000E-01	-8.32254E-06
		1.00000E+00	-2.44451E-07
		1.50000E+00	-7.63567E-08
		2.00000E+00	8.41229E-07
		2.50000E+00	-9.25874E-06
		3.00000E+00	-1.10581E-03

Total Mass into Soil	Total Mass into Base	Velocity Transport	Mass in Base -WY/2 to +WY/2
6.84801E+04	2.03956E+01	-1.25169E-02	2.04206E+01

Time year	Distance m	Depth m	Concentration mg/L
22	0	0.00000E+00	5.68315E+00
		5.00000E-01	2.00876E+01
		1.00000E+00	1.63489E+01
		1.50000E+00	8.00088E+00
		2.00000E+00	2.68564E+00
		2.50000E+00	5.65611E-01
		3.00000E+00	3.24507E-04
22	150	0.00000E+00	1.34626E+03
		5.00000E-01	1.02781E+03
		1.00000E+00	6.37047E+02
		1.50000E+00	2.80329E+02
		2.00000E+00	8.94036E+01
		2.50000E+00	1.93415E+01
		3.00000E+00	4.36758E-01
22	300	0.00000E+00	5.68432E+00
		5.00000E-01	2.00844E+01
		1.00000E+00	1.63364E+01
		1.50000E+00	7.98714E+00
		2.00000E+00	2.71270E+00
		2.50000E+00	1.30015E+00
		3.00000E+00	5.20703E-01
22	350	0.00000E+00	1.26825E+00
		5.00000E-01	-2.34730E+00
		1.00000E+00	-2.69025E+00
		1.50000E+00	-1.60074E+00
		2.00000E+00	-6.30162E-01
		2.50000E+00	5.49212E-03
		3.00000E+00	3.83593E-01
22	500	0.00000E+00	2.99164E+02
		5.00000E-01	-8.61507E+01

		1.00000E+00	-9.69527E+01
		1.50000E+00	-5.28388E+01
		2.00000E+00	-2.02461E+01
		2.50000E+00	-5.10715E+00
		3.00000E+00	-1.00741E-01
22	650	0.00000E+00	2.99163E+02
		5.00000E-01	-8.61192E+01
		1.00000E+00	-9.69160E+01
		1.50000E+00	-5.28114E+01
		2.00000E+00	-2.02397E+01
		2.50000E+00	-5.11350E+00
		3.00000E+00	-1.76873E-01
22	800	0.00000E+00	2.99163E+02
		5.00000E-01	-8.62077E+01
		1.00000E+00	-9.69956E+01
		1.50000E+00	-5.28614E+01
		2.00000E+00	-2.02591E+01
		2.50000E+00	-5.11777E+00
		3.00000E+00	-1.79887E-01
22	950	0.00000E+00	1.26280E+00
		5.00000E-01	-2.42570E+00
		1.00000E+00	-2.76018E+00
		1.50000E+00	-1.64096E+00
		2.00000E+00	-6.59920E-01
		2.50000E+00	-3.87025E-01
		3.00000E+00	-1.73331E-01
22	1100	0.00000E+00	-4.85121E-04
		5.00000E-01	-1.43254E-01
		1.00000E+00	-1.38897E-01
		1.50000E+00	-8.87957E-02
		2.00000E+00	-3.09506E-02
		2.50000E+00	-1.18701E-02
		3.00000E+00	-3.64572E-02
22	1200	0.00000E+00	-7.48555E-05
		5.00000E-01	-1.43356E-01
		1.00000E+00	-1.26789E-01
		1.50000E+00	-7.28346E-02
		2.00000E+00	-2.77923E-02
		2.50000E+00	-6.89025E-03
		3.00000E+00	-5.67536E-03

Total Mass into Soil	Total Mass into Base	Velocity Transport	Mass in Base -WY/2 to +WY/2
8.46272E+04	3.90448E+00	-6.94625E-02	3.70347E+01

Time year	Distance m	Depth m	Concentration mg/L
24	0	0.00000E+00	5.61749E+00
		5.00000E-01	2.00696E+01
		1.00000E+00	1.73698E+01
		1.50000E+00	9.23109E+00
		2.00000E+00	3.43542E+00
		2.50000E+00	7.84598E-01
		3.00000E+00	5.17445E-04
24	150	0.00000E+00	1.33068E+03
		5.00000E-01	1.03182E+03
		1.00000E+00	6.64965E+02
		1.50000E+00	3.14725E+02
		2.00000E+00	1.11057E+02
		2.50000E+00	2.66900E+01
		3.00000E+00	5.41715E-01
24	300	0.00000E+00	5.61982E+00
		5.00000E-01	2.03812E+01
		1.00000E+00	1.73728E+01
		1.50000E+00	9.22163E+00
		2.00000E+00	3.73162E+00
		2.50000E+00	2.47924E+00
		3.00000E+00	8.04035E-01
24	350	0.00000E+00	2.52845E+00
		5.00000E-01	5.13525E-01
		1.00000E+00	-2.42345E+00
		1.50000E+00	-1.74100E+00
		2.00000E+00	-6.93511E-01
		2.50000E+00	4.49047E-01
		3.00000E+00	6.34771E-01
24	500	0.00000E+00	5.97741E+02
		5.00000E-01	3.39477E+01
		1.00000E+00	-8.38181E+01
		1.50000E+00	-5.58408E+01
		2.00000E+00	-2.36000E+01
		2.50000E+00	-6.53649E+00
		3.00000E+00	-3.16686E-02
24	650	0.00000E+00	5.97740E+02

		5.00000E-01	3.28677E+01
		1.00000E+00	-8.37937E+01
		1.50000E+00	-5.57900E+01
		2.00000E+00	-2.35866E+01
		2.50000E+00	-6.57005E+00
		3.00000E+00	-2.50669E-01
24	800	0.00000E+00	5.97741E+02
		5.00000E-01	2.90700E+01
		1.00000E+00	-8.43839E+01
		1.50000E+00	-5.58937E+01
		2.00000E+00	-2.36276E+01
		2.50000E+00	-6.58233E+00
		3.00000E+00	-2.65003E-01
24	950	0.00000E+00	2.52306E+00
		5.00000E-01	-5.12146E+00
		1.00000E+00	-3.12547E+00
		1.50000E+00	-1.83394E+00
		2.00000E+00	-8.85544E-01
		2.50000E+00	-7.06198E-01
		3.00000E+00	-2.57416E-01
24	1100	0.00000E+00	-9.34157E-04
		5.00000E-01	-9.70711E+00
		1.00000E+00	-1.24369E+00
		1.50000E+00	-1.81647E-01
		2.00000E+00	-6.94775E-02
		2.50000E+00	-3.35219E-02
		3.00000E+00	-9.65305E-02
24	1200	0.00000E+00	5.50835E-05
		5.00000E-01	-8.41704E+00
		1.00000E+00	-1.11992E+00
		1.50000E+00	-1.56829E-01
		2.00000E+00	-5.92669E-02
		2.50000E+00	-1.05387E-02
		3.00000E+00	-2.07533E-02

Total Mass into Soil	Total Mass into Base	Velocity Transport	Mass in Base -WY/2 to +WY/2
1.00578E+05	5.64010E+00	-2.86518E-01	6.47025E+01

Time year	Distance m	Depth m	Concentration mg/L
26	0	0.00000E+00	5.55260E+00
		5.00000E-01	2.09631E+01

		1.00000E+00	1.83203E+01
		1.50000E+00	1.04163E+01
		2.00000E+00	4.22229E+00
		2.50000E+00	1.03628E+00
		3.00000E+00	6.69096E-04
26	150	0.00000E+00	1.31529E+03
		5.00000E-01	1.03694E+03
		1.00000E+00	6.89760E+02
		1.50000E+00	3.47004E+02
		2.00000E+00	1.33161E+02
		2.50000E+00	3.49453E+01
		3.00000E+00	6.93607E-01
26	300	0.00000E+00	5.55609E+00
		5.00000E-01	2.14416E+01
		1.00000E+00	1.83804E+01
		1.50000E+00	1.04872E+01
		2.00000E+00	5.00008E+00
		2.50000E+00	3.90438E+00
		3.00000E+00	1.16953E+00
26	350	0.00000E+00	3.78618E+00
		5.00000E-01	3.43256E+00
		1.00000E+00	-1.34665E+00
		1.50000E+00	-1.75762E+00
		2.00000E+00	-6.11371E-01
		2.50000E+00	1.08889E+00
		3.00000E+00	9.73470E-01
26	500	0.00000E+00	8.95734E+02
		5.00000E-01	1.77071E+02
		1.00000E+00	-4.82247E+01
		1.50000E+00	-5.56236E+01
		2.00000E+00	-2.66242E+01
		2.50000E+00	-8.06970E+00
		3.00000E+00	1.52904E-01
26	650	0.00000E+00	8.95733E+02
		5.00000E-01	1.73268E+02
		1.00000E+00	-4.86128E+01
		1.50000E+00	-5.55577E+01
		2.00000E+00	-2.66071E+01
		2.50000E+00	-8.07792E+00
		3.00000E+00	-3.21882E-01
26	800	0.00000E+00	8.95733E+02

		5.00000E-01	1.64876E+02
		1.00000E+00	-5.11778E+01
		1.50000E+00	-5.58696E+01
		2.00000E+00	-2.66758E+01
		2.50000E+00	-8.09962E+00
		3.00000E+00	-3.77014E-01
26	950	0.00000E+00	3.78085E+00
		5.00000E-01	-1.01123E+01
		1.00000E+00	-4.84632E+00
		1.50000E+00	-2.13624E+00
		2.00000E+00	-1.16213E+00
		2.50000E+00	-1.07129E+00
		3.00000E+00	-3.69296E-01
26	1100	0.00000E+00	-1.38232E-03
		5.00000E-01	-2.26852E+01
		1.00000E+00	-5.98764E+00
		1.50000E+00	-6.10770E-01
		2.00000E+00	-1.21525E-01
		2.50000E+00	-5.47028E-02
		3.00000E+00	-1.82166E-01
26	1200	0.00000E+00	1.84745E-04
		5.00000E-01	-2.05919E+01
		1.00000E+00	-5.40748E+00
		1.50000E+00	-5.46293E-01
		2.00000E+00	-1.00558E-01
		2.50000E+00	-3.23396E-02
		3.00000E+00	-5.91787E-02

Total Mass into Soil	Total Mass into Base	Velocity Transport	Mass in Base -WY/2 to +WY/2
1.16334E+05	7.02966E+00	-9.08549E-01	1.07934E+02

Time year	Distance m	Depth m	Concentration mg/L
28	0	0.00000E+00	5.48847E+00
		5.00000E-01	2.19936E+01
		1.00000E+00	1.93564E+01
		1.50000E+00	1.15634E+01
		2.00000E+00	5.02998E+00
		2.50000E+00	1.31391E+00
		3.00000E+00	8.04367E-04
28	150	0.00000E+00	1.30008E+03
		5.00000E-01	1.03904E+03

		1.00000E+00	7.11979E+02
		1.50000E+00	3.77216E+02
		2.00000E+00	1.55311E+02
		2.50000E+00	4.37164E+01
		3.00000E+00	9.08032E-01
28	300	0.00000E+00	5.49313E+00
		5.00000E-01	2.28536E+01
		1.00000E+00	1.96269E+01
		1.50000E+00	1.18170E+01
		2.00000E+00	6.48006E+00
		2.50000E+00	5.68983E+00
		3.00000E+00	1.60165E+00
28	350	0.00000E+00	5.04144E+00
		5.00000E-01	6.29855E+00
		1.00000E+00	3.85621E-01
		1.50000E+00	-1.48113E+00
		2.00000E+00	-3.62992E-01
		2.50000E+00	1.91453E+00
		3.00000E+00	1.40626E+00
28	500	0.00000E+00	1.19314E+03
		5.00000E-01	3.40019E+02
		1.00000E+00	6.83374E+00
		1.50000E+00	-4.90944E+01
		2.00000E+00	-2.88205E+01
		2.50000E+00	-9.42276E+00
		3.00000E+00	4.22400E-01
28	650	0.00000E+00	1.19314E+03
		5.00000E-01	3.30532E+02
		1.00000E+00	4.79398E+00
		1.50000E+00	-4.91150E+01
		2.00000E+00	-2.87907E+01
		2.50000E+00	-9.57268E+00
		3.00000E+00	-3.55232E-01
28	800	0.00000E+00	1.19314E+03
		5.00000E-01	3.17899E+02
		1.00000E+00	-8.85751E-01
		1.50000E+00	-5.01019E+01
		2.00000E+00	-2.89315E+01
		2.50000E+00	-9.62478E+00
		3.00000E+00	-5.13700E-01
28	950	0.00000E+00	5.03617E+00

		5.00000E-01	-1.77295E+01
		1.00000E+00	-8.40835E+00
		1.50000E+00	-2.87274E+00
		2.00000E+00	-1.50479E+00
		2.50000E+00	-1.47628E+00
		3.00000E+00	-5.11153E-01
28	1100	0.00000E+00	-1.82960E-03
		5.00000E-01	-3.92499E+01
		1.00000E+00	-1.47664E+01
		1.50000E+00	-2.15603E+00
		2.00000E+00	-2.69207E-01
		2.50000E+00	-1.62580E-01
		3.00000E+00	-2.85550E-01
28	1200	0.00000E+00	3.14130E-04
		5.00000E-01	-3.68763E+01
		1.00000E+00	-1.34452E+01
		1.50000E+00	-1.95289E+00
		2.00000E+00	-2.29985E-01
		2.50000E+00	-2.78383E-02
		3.00000E+00	-1.36643E-01

Total Mass into Soil	Total Mass into Base	Velocity Transport	Mass in Base -WY/2 to +WY/2
1.31900E+05	7.47631E+00	-2.30044E+00	1.71972E+02

Time year	Distance m	Depth m	Concentration mg/L
30	0	0.00000E+00	5.42510E+00
		5.00000E-01	1.90847E+01
		1.00000E+00	2.02434E+01
		1.50000E+00	1.27021E+01
		2.00000E+00	5.84746E+00
		2.50000E+00	1.60936E+00
		3.00000E+00	9.37433E-04
30	150	0.00000E+00	1.28505E+03
		5.00000E-01	1.04107E+03
		1.00000E+00	7.31662E+02
		1.50000E+00	4.05418E+02
		2.00000E+00	1.77151E+02
		2.50000E+00	5.29107E+01
		3.00000E+00	1.16144E+00
30	300	0.00000E+00	5.43091E+00
		5.00000E-01	3.24473E+01

		1.00000E+00	2.19263E+01
		1.50000E+00	1.32785E+01
		2.00000E+00	8.18601E+00
		2.50000E+00	7.90178E+00
		3.00000E+00	2.07455E+00
30	350	0.00000E+00	6.29424E+00
		5.00000E-01	1.76578E+01
		1.00000E+00	3.26295E+00
		1.50000E+00	-8.18920E-01
		2.00000E+00	9.24482E-02
		2.50000E+00	3.03916E+00
		3.00000E+00	1.90854E+00
30	500	0.00000E+00	1.48997E+03
		5.00000E-01	5.24194E+02
		1.00000E+00	7.98280E+01
		1.50000E+00	-3.45859E+01
		2.00000E+00	-2.92611E+01
		2.50000E+00	-1.04042E+01
		3.00000E+00	7.75410E-01
30	650	0.00000E+00	1.48997E+03
		5.00000E-01	4.97095E+02
		1.00000E+00	7.34411E+01
		1.50000E+00	-3.50723E+01
		2.00000E+00	-2.92863E+01
		2.50000E+00	-1.09727E+01
		3.00000E+00	-2.94148E-01
30	800	0.00000E+00	1.48997E+03
		5.00000E-01	4.76621E+02
		1.00000E+00	6.35767E+01
		1.50000E+00	-3.73584E+01
		2.00000E+00	-2.96313E+01
		2.50000E+00	-1.09891E+01
		3.00000E+00	-6.59977E-01
30	950	0.00000E+00	6.28904E+00
		5.00000E-01	-3.26293E+01
		1.00000E+00	-1.46839E+01
		1.50000E+00	-4.40320E+00
		2.00000E+00	-1.98554E+00
		2.50000E+00	-1.94964E+00
		3.00000E+00	-6.86932E-01
30	1100	0.00000E+00	-2.27601E-03

		5.00000E-01	-5.84046E+01
		1.00000E+00	-2.74772E+01
		1.50000E+00	-5.51757E+00
		2.00000E+00	-7.42772E-01
		2.50000E+00	-3.30233E-01
		3.00000E+00	-4.16470E-01
30	1200	0.00000E+00	4.43238E-04
		5.00000E-01	-4.95919E+01
		1.00000E+00	-2.49270E+01
		1.50000E+00	-5.03442E+00
		2.00000E+00	-6.31236E-01
		2.50000E+00	-8.07738E-02
		3.00000E+00	-2.40760E-01

Total Mass into Soil	Total Mass into Base	Velocity Transport	Mass in Base -WY/2 to +WY/2
1.47282E+05	6.37437E+00	-4.53372E+00	2.62356E+02

Time year	Distance m	Depth m	Concentration mg/L
40	0	0.00000E+00	5.16853E+00
		5.00000E-01	2.41828E+01
		1.00000E+00	2.54461E+01
		1.50000E+00	1.89869E+01
		2.00000E+00	1.12107E+01
		2.50000E+00	4.93420E+00
		3.00000E+00	4.65865E-03
40	150	0.00000E+00	1.22427E+03
		5.00000E-01	1.08082E+03
		1.00000E+00	8.46346E+02
		1.50000E+00	5.54967E+02
		2.00000E+00	3.05971E+02
		2.50000E+00	1.32505E+02
		3.00000E+00	8.27751E+00
40	300	0.00000E+00	5.17422E+00
		5.00000E-01	3.08977E+01
		1.00000E+00	3.38618E+01
		1.50000E+00	2.41431E+01
		2.00000E+00	1.52485E+01
		2.50000E+00	1.04472E+01
		3.00000E+00	1.20702E+01
40	350	0.00000E+00	6.15872E+00
		5.00000E-01	2.38445E+01

		1.00000E+00	1.86540E+01
		1.50000E+00	7.47399E+00
		2.00000E+00	2.56128E+00
		2.50000E+00	2.95572E+00
		3.00000E+00	9.41296E+00
40	500	0.00000E+00	1.45792E+03
		5.00000E-01	9.86260E+02
		1.00000E+00	4.85088E+02
		1.50000E+00	1.34551E+02
		2.00000E+00	8.28379E+00
		2.50000E+00	-1.08856E+01
		3.00000E+00	2.74853E+00
40	650	0.00000E+00	1.45792E+03
		5.00000E-01	9.71193E+02
		1.00000E+00	4.66297E+02
		1.50000E+00	1.24761E+02
		2.00000E+00	5.43718E+00
		2.50000E+00	-1.21095E+01
		3.00000E+00	1.94093E-01
40	800	0.00000E+00	1.45792E+03
		5.00000E-01	9.61959E+02
		1.00000E+00	4.53205E+02
		1.50000E+00	1.16009E+02
		2.00000E+00	2.08296E+00
		2.50000E+00	-1.31706E+01
		3.00000E+00	-1.31547E+00
40	950	0.00000E+00	6.15376E+00
		5.00000E-01	-1.23197E+00
		1.00000E+00	-1.47084E+01
		1.50000E+00	-1.29720E+01
		2.00000E+00	-6.26295E+00
		2.50000E+00	-3.01999E+00
		3.00000E+00	-2.37404E+00
40	1100	0.00000E+00	-2.22620E-03
		5.00000E-01	-2.63746E+01
		1.00000E+00	-3.70528E+01
		1.50000E+00	-2.42784E+01
		2.00000E+00	-9.05534E+00
		2.50000E+00	-2.48297E+00
		3.00000E+00	-1.56333E+00
40	1200	0.00000E+00	4.38693E-04

		5.00000E-01	-2.17704E+01
		1.00000E+00	-3.11374E+01
		1.50000E+00	-2.09486E+01
		2.00000E+00	-7.94044E+00
		2.50000E+00	-2.06656E+00
		3.00000E+00	-1.04556E+00

Total Mass into Soil	Total Mass into Base	Velocity Transport	Mass in Base -WY/2 to +WY/2
1.78163E+05	1.54914E+03	-7.21820E+01	2.12817E+03

Time year	Distance m	Depth m	Concentration mg/L
70	0	0.00000E+00	4.50158E+00
		5.00000E-01	2.64918E+01
		1.00000E+00	3.38739E+01
		1.50000E+00	3.31658E+01
		2.00000E+00	2.69704E+01
		2.50000E+00	1.65729E+01
		3.00000E+00	-1.06372E-01
70	150	0.00000E+00	1.06629E+03
		5.00000E-01	1.04654E+03
		1.00000E+00	9.64629E+02
		1.50000E+00	8.09221E+02
		2.00000E+00	6.06392E+02
		2.50000E+00	3.64978E+02
		3.00000E+00	3.16757E+01
70	300	0.00000E+00	4.50698E+00
		5.00000E-01	2.83946E+01
		1.00000E+00	3.81894E+01
		1.50000E+00	4.03234E+01
		2.00000E+00	3.83009E+01
		2.50000E+00	3.95019E+01
		3.00000E+00	5.92582E+01
70	350	0.00000E+00	5.84134E+00
		5.00000E-01	3.04178E+01
		1.00000E+00	3.57379E+01
		1.50000E+00	3.18781E+01
		2.00000E+00	2.63403E+01
		2.50000E+00	2.88939E+01
		3.00000E+00	5.67200E+01
70	500	0.00000E+00	1.38288E+03
		5.00000E-01	1.24601E+03

		1.00000E+00	1.02204E+03
		1.50000E+00	7.22854E+02
		2.00000E+00	4.41884E+02
		2.50000E+00	2.27236E+02
		3.00000E+00	6.42702E+01
70	650	0.00000E+00	1.38288E+03
		5.00000E-01	1.24242E+03
		1.00000E+00	1.01436E+03
		1.50000E+00	7.12110E+02
		2.00000E+00	4.30881E+02
		2.50000E+00	2.18791E+02
		3.00000E+00	6.63202E+01
70	800	0.00000E+00	1.38288E+03
		5.00000E-01	1.24011E+03
		1.00000E+00	1.00930E+03
		1.50000E+00	7.04730E+02
		2.00000E+00	4.22763E+02
		2.50000E+00	2.11264E+02
		3.00000E+00	6.24724E+01
70	950	0.00000E+00	5.83701E+00
		5.00000E-01	2.41946E+01
		1.00000E+00	2.21527E+01
		1.50000E+00	1.19648E+01
		2.00000E+00	3.94370E+00
		2.50000E+00	8.17777E+00
		3.00000E+00	5.50595E+01
70	1100	0.00000E+00	-2.10916E-03
		5.00000E-01	-6.34513E+00
		1.00000E+00	-1.38050E+01
		1.50000E+00	-1.97303E+01
		2.00000E+00	-1.97199E+01
		2.50000E+00	-9.60070E+00
		3.00000E+00	3.21176E+01
70	1200	0.00000E+00	4.30413E-04
		5.00000E-01	-5.22099E+00
		1.00000E+00	-1.14037E+01
		1.50000E+00	-1.64364E+01
		2.00000E+00	-1.68283E+01
		2.50000E+00	-9.89039E+00
		3.00000E+00	1.99402E+01

Total Mass into Soil	Total Mass into Base	Velocity Transport	Mass in Base -WY/2 to +WY/2
2.33186E+05	3.89469E+04	4.01919E+02	4.11657E+04

Time year	Distance m	Depth m	Concentration mg/L
100	0	0.00000E+00	3.93622E+00
		5.00000E-01	2.58844E+01
		1.00000E+00	3.59566E+01
		1.50000E+00	3.92734E+01
		2.00000E+00	3.58081E+01
		2.50000E+00	2.41942E+01
		3.00000E+00	-1.04896E-01
100	150	0.00000E+00	9.32364E+02
		5.00000E-01	9.56649E+02
		1.00000E+00	9.41358E+02
		1.50000E+00	8.68473E+02
		2.00000E+00	7.24688E+02
		2.50000E+00	4.79403E+02
		3.00000E+00	4.45360E+01
100	300	0.00000E+00	3.94120E+00
		5.00000E-01	2.69886E+01
		1.00000E+00	3.89961E+01
		1.50000E+00	4.64098E+01
		2.00000E+00	5.19740E+01
		2.50000E+00	6.16890E+01
		3.00000E+00	8.72012E+01
100	350	0.00000E+00	5.39662E+00
		5.00000E-01	3.25207E+01
		1.00000E+00	4.34218E+01
		1.50000E+00	4.72298E+01
		2.00000E+00	4.92611E+01
		2.50000E+00	5.77602E+01
		3.00000E+00	8.60317E+01
100	500	0.00000E+00	1.27765E+03
		5.00000E-01	1.23972E+03
		1.00000E+00	1.14499E+03
		1.50000E+00	9.77837E+02
		2.00000E+00	7.59790E+02
		2.50000E+00	4.94021E+02
		3.00000E+00	1.22849E+02
100	650	0.00000E+00	1.27765E+03

		5.00000E-01	1.23839E+03
		1.00000E+00	1.14192E+03
		1.50000E+00	9.73169E+02
		2.00000E+00	7.55987E+02
		2.50000E+00	4.98717E+02
		3.00000E+00	1.56040E+02
100	800	0.00000E+00	1.27765E+03
		5.00000E-01	1.23745E+03
		1.00000E+00	1.13971E+03
		1.50000E+00	9.69697E+02
		2.00000E+00	7.52952E+02
		2.50000E+00	5.02160E+02
		3.00000E+00	1.83517E+02
100	950	0.00000E+00	5.39284E+00
		5.00000E-01	3.00407E+01
		1.00000E+00	3.76822E+01
		1.50000E+00	3.87260E+01
		2.00000E+00	4.45742E+01
		2.50000E+00	8.01969E+01
		3.00000E+00	2.03669E+02
100	1100	0.00000E+00	-1.94730E-03
		5.00000E-01	-2.32707E+00
		1.00000E+00	-5.12245E+00
		1.50000E+00	-6.23430E+00
		2.00000E+00	2.60547E+00
		2.50000E+00	4.39523E+01
		3.00000E+00	1.77459E+02
100	1200	0.00000E+00	4.05608E-04
		5.00000E-01	-1.95723E+00
		1.00000E+00	-4.34933E+00
		1.50000E+00	-5.46144E+00
		2.00000E+00	1.72677E+00
		2.50000E+00	3.75841E+01
		3.00000E+00	1.59173E+02

Total Mass into Soil	Total Mass into Base	Velocity Transport	Mass in Base -WY/2 to +WY/2
2.66306E+05	1.67253E+05	3.10539E+04	1.08168E+05

NOTICE

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