Table 5
VS2DT Mass Balance

MTBE 0.1m sand	water balance [m^3]
FLUX INTO DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	2.01E+01
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-2.11E+01
FLUX INTO DOMAIN ACROSS FLUX BOUNDARIES	9.75E-01
TOTAL FLUX INTO DOMAIN	2.11E+01
TOTAL FLUX OUT OF DOMAIN	-2.11E+01
CHANGE IN FLUID STORED IN DOMAIN	-1.83E-04
FLUID VOLUME BALANCE	-2.05E-03
MTBE 3M FLUID BALANCE/TOTAL FLUX OUT	9.75E-05
MTBE 0.1m sand	**Solute balance [g]**
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-6.13E+00
TOTAL FLUX OUT OF DOMAIN	-6.13E+00
ADSORPTION/ION EXCHANGE	-1.00E+01
CHANGE IN SOLUTE STORED IN DOMAIN	-1.53E+00
SOLUTE MASS BALANCE	-1.26E-02
SOLUTE INITIAL MASS	68.6043
MTBE 3M SOLUTE BALANCE/INITIAL MASS	-1.84E-04
MTBE 6.1m Sand	**water balance [m^3]**
FLUX INTO DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	5.02E+02
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-5.27E+02
FLUX INTO DOMAIN ACROSS FLUX BOUNDARIES	2.44E+01
TOTAL FLUX INTO DOMAIN	5.27E+02
TOTAL FLUX OUT OF DOMAIN	-5.27E+02
CHANGE IN FLUID STORED IN DOMAIN	-6.20E-04
FLUID VOLUME BALANCE	-1.93E-03
MTBE 9M FLUID BALANCE/TOTAL FLUX OUT	3.66E-06
MTBE 6.1m Sand	**Solute balance [g]**
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-2.38E+01
TOTAL FLUX OUT OF DOMAIN	-2.38E+01
ADSORPTION/ION EXCHANGE	-3.78E-01
CHANGE IN SOLUTE STORED IN DOMAIN	-9.57E+00
SOLUTE MASS BALANCE	-3.98E-02
SOLUTE INITIAL MASS	68.6043
MTBE 9M SOLUTE BALANCE/INITIAL MASS	-5.80E-04
Naphthalene 0.1m sand	**water balance [m^3]**
FLUX INTO DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	1.00E+02
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-1.05E+02
FLUX INTO DOMAIN ACROSS FLUX BOUNDARIES	4.88E+00
TOTAL FLUX INTO DOMAIN	1.05E+02
TOTAL FLUX OUT OF DOMAIN	-1.05E+02
CHANGE IN FLUID STORED IN DOMAIN	-1.83E-04
FLUID VOLUME BALANCE	-2.10E-03
NAPHTHALENE 3M FLUID BALANCE/TOTAL FLUX OUT	1.99E-05
Naphthalene 0.1m sand	**Solute balance [g]**
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-3.88E+01
TOTAL FLUX OUT OF DOMAIN	-3.88E+01
ADSORPTION/ION EXCHANGE	-1.41E+03
CHANGE IN SOLUTE STORED IN DOMAIN	2.83E+00
SOLUTE MASS BALANCE	-7.03E-02
SOLUTE INITIAL MASS	1501.065
NAPHTHALENE 3M SOLUTE BALANCE/INITIAL MASS	-4.68E-05
Naphthalene 6.1m sand	**water balance [m^3]**
FLUX INTO DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	2.01E+04
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-2.11E+04
FLUX INTO DOMAIN ACROSS FLUX BOUNDARIES	9.75E+02
TOTAL FLUX INTO DOMAIN	2.11E+04
TOTAL FLUX OUT OF DOMAIN	-2.11E+04
CHANGE IN FLUID STORED IN DOMAIN	-6.20E-04
FLUID VOLUME BALANCE	-7.55E-03
NAPHTHALENE 9M FLUID BALANCE/TOTAL FLUX OUT	3.58E-07
Naphthalene 6.1m sand	**Solute balance [g]**
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-8.39E+02
TOTAL FLUX OUT OF DOMAIN	-8.39E+02
ADSORPTION/ION EXCHANGE	-6.24E+02
CHANGE IN SOLUTE STORED IN DOMAIN	-4.86E+00
SOLUTE MASS BALANCE	-1.04E+01
SOLUTE INITIAL MASS	1501.065
NAPHTHALENE 9M SOLUTE BALANCE/INITIAL MASS	-6.90E-03

Percent Mass Balance	Value	Percent
MTBE 0.1M FLUID	9.75E-05	9.75E-03
MTBE 6.1M FLUID	3.66E-06	3.66E-04
NAPHTHALENE 0.1M FLUID	1.99E-05	1.99E-03
NAPHTHALENE 6.1M FLUID	3.58E-07	3.58E-05
MTBE 0.1M SOLUTE	-1.84E-04	1.84E-02
MTBE 6.1M SOLUTE	-5.80E-04	5.80E-02
NAPHTHALENE 0.1M SOLUTE	-4.68E-05	4.68E-03
NAPHTHALENE 6.1M SOLUTE	-6.90E-03	6.90E-01

Initial Total Mass Calculation		moisture		total	soil	starting		
	Kd	concentration	porosity	volume	density	mass	water	soil
Chemical	m^3/g	g/m^3		m^3	g/m^3	g	g	g
Methyl t-Butyl Ether	7.21E-08	10	0.4	13.5	1.50E+06	6.86E+01	5.40E+01	1.46E+01
Benzene	3.70E-07	10	0.4	13.5	1.50E+06	1.29E+02	5.40E+01	7.50E+01
Toluene	8.40E-07	10	0.4	13.5	1.50E+06	2.24E+02	5.40E+01	1.70E+02
Ethylbenzene	1.22E-06	10	0.4	13.5	1.50E+06	3.02E+02	5.40E+01	2.48E+02
Xylenes	1.47E-06	10	0.4	13.5	1.50E+06	3.52E+02	5.40E+01	2.98E+02
Naphthalene	7.15E-06	10	0.4	13.5	1.50E+06	1.50E+03	5.40E+01	1.45E+03

Water Balance Summary	MTBE 0.1m	MTBE 6.1m	Naph 0.1m	Naph 6.1m
FLUX IN/FLUX BOUNDARIES [M^3]	9.75E-01	2.44E+01	4.88E+00	9.75E+02
FLUX IN/PRESSURE HEAD BOUNDARIES [M^3]	2.01E+01	5.02E+02	1.00E+02	2.01E+04
TOTAL FLUX IN [M^3]	2.11E+01	5.27E+02	1.05E+02	2.11E+04