

### Remedial Targets Worksheet, Release 3.2

First released: 2006. Version 3.2: January 2013

This worksheet has been produced in combination with the document 'Remedial Targets Methodology: Hydrogeological risk assessment for land contamination (Environment Agency 2006).

Users of this worksheet should always refer to the User Manual to the Remedial Targets Methodology and to relevant guidance on UK legislation and policy, in order to understand how this procedure should be applied in an appropriate context.

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IMPORTANT: To enable MS Excel worksheet, click Tools, Add -Ins, Analysis Tool Pak and Analysis Tool Pak-VBA (to calculate error functions)

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Details to be completed for e	each assessment			Fortillalit
Site Name:	Fassaroe - Site 2			, of cox
Site Address:	Fassaroe Co. Wickl	ow		Consent
				Copy
Completed by:	Adrian Green			
Date:	04-May-18		Version:	1
Contaminant	Ammonia			
Target Concentration (C <sub>T</sub> )	0.065	mg/l	Origin of C <sub>T</sub> :	Surface Water EQS & GW GTV

This worksheet can be used to determine remedial targets for soils (Worksheets Level 1 Soil, Level 2 and Level 3 Soil) or to determine remedial targets for groundwater (Level 3 Groundwater). For Level 3, parameter values must be entered separately dependent on whether the assessment is for soil or groundwater. For soil, remedial targets are calculated as either mg/kg (for comparision with soil measurements) or mg/l (for comparison with leaching tests or pore water concentrations).

Site details entered on this page are automatically copied to Level 1, 2 and 3 Worksheets.

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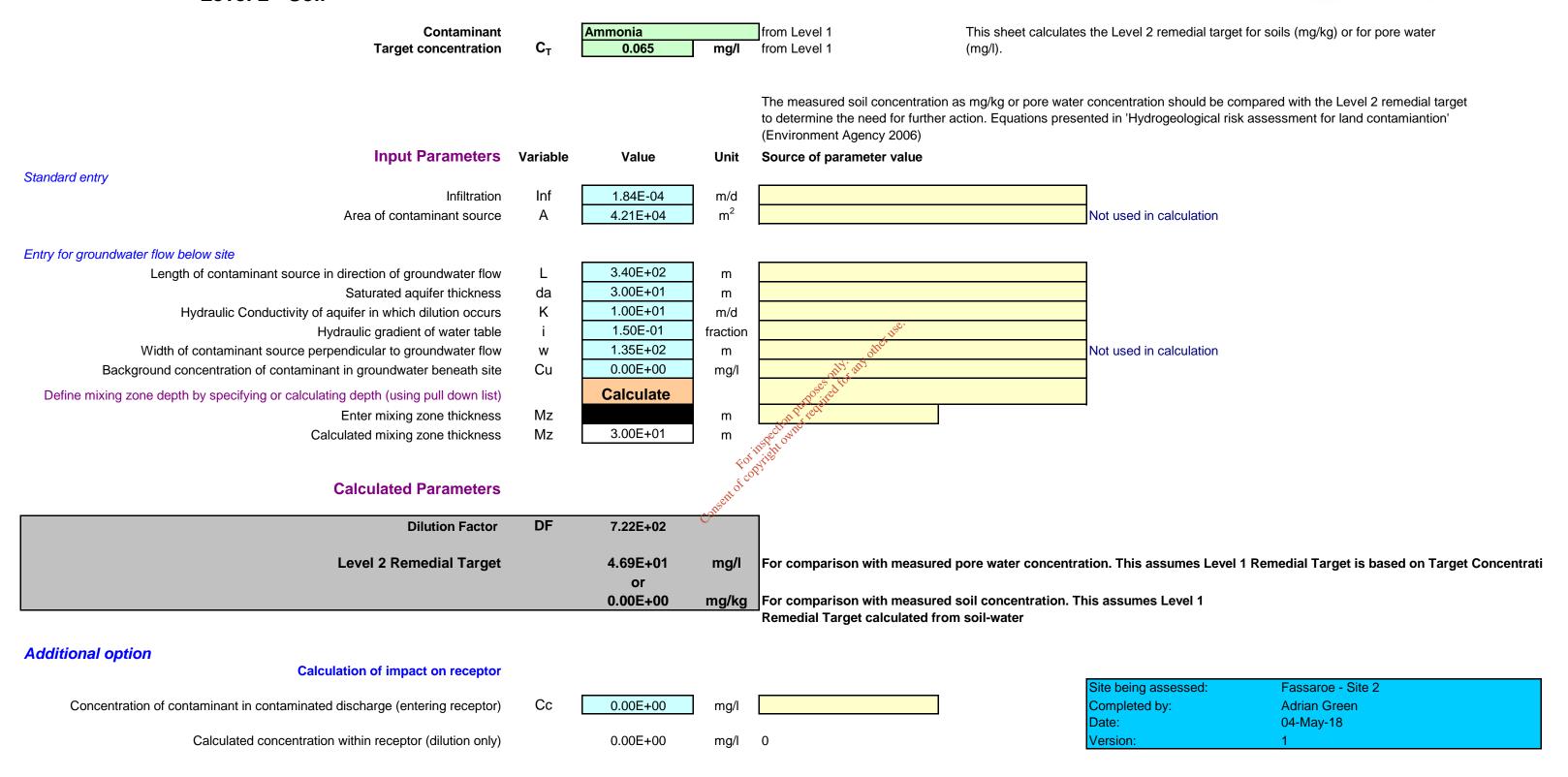
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Data carried forward from an earlier worksheet are identified by a light green background

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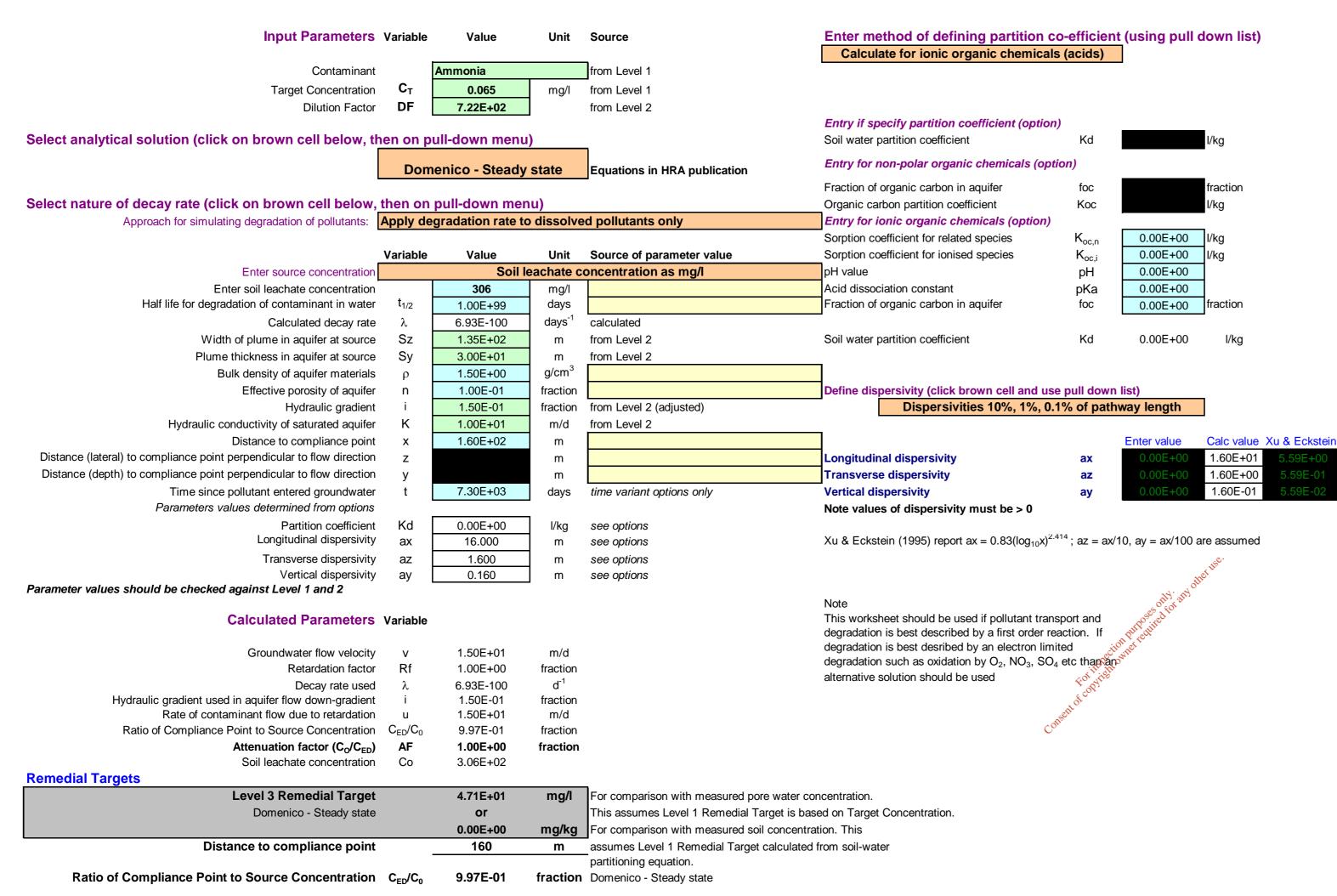






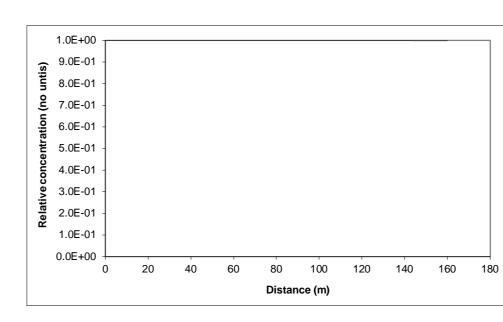
See Note





Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target.

The recommended value for time when calculating the remedial target is 9.9E+99



Note: 'Relative concentration' is the ratio of calculated concentation at a given position compared to the source concentration. The calculations assume plume disperses from the top of the aquifer. An alternative solution assuming the centre of the plume is located at the mid-depth of the aguifer is presented in the calculation sheets.

Calculated (relative) concentrations for distance-concentration graph

**Domenico - Steady state** From calculation sheet Relative Distance concentration (No units) 1.0E+00 1.00E+00 16.0 1.00E+00 24.0 1.00E+00 32.0 1.00E+00

4.24E-01 4.24E-01 4.24E-01 4.24E-01 4.24E-01 1.00E+00 4.24E-01 48.0 1.00E+00 4.24E-01 56.0 1.00E+00 4.24E-01 64.0 1.00E+00 4.24E-01 72.0 1.00E+00 4.24E-01 80.0 1.00E+00 4.24E-01 88.0 1.00E+00 4.24E-01 96.0 1.00E+00 4.24E-01 104.0 1.00E+00 4.24E-01 112.0 1.00E+00 4.24E-01 120.0 9.99E-01 4.24E-01 128.0 9.99E-01 4.23E-01 136.0 9.99E-01 4.23E-01 144.0 9.98E-01 4.23E-01 152.0 9.98E-01 4.23E-01 160.0 9.97E-01 4.23E-01

Concentration

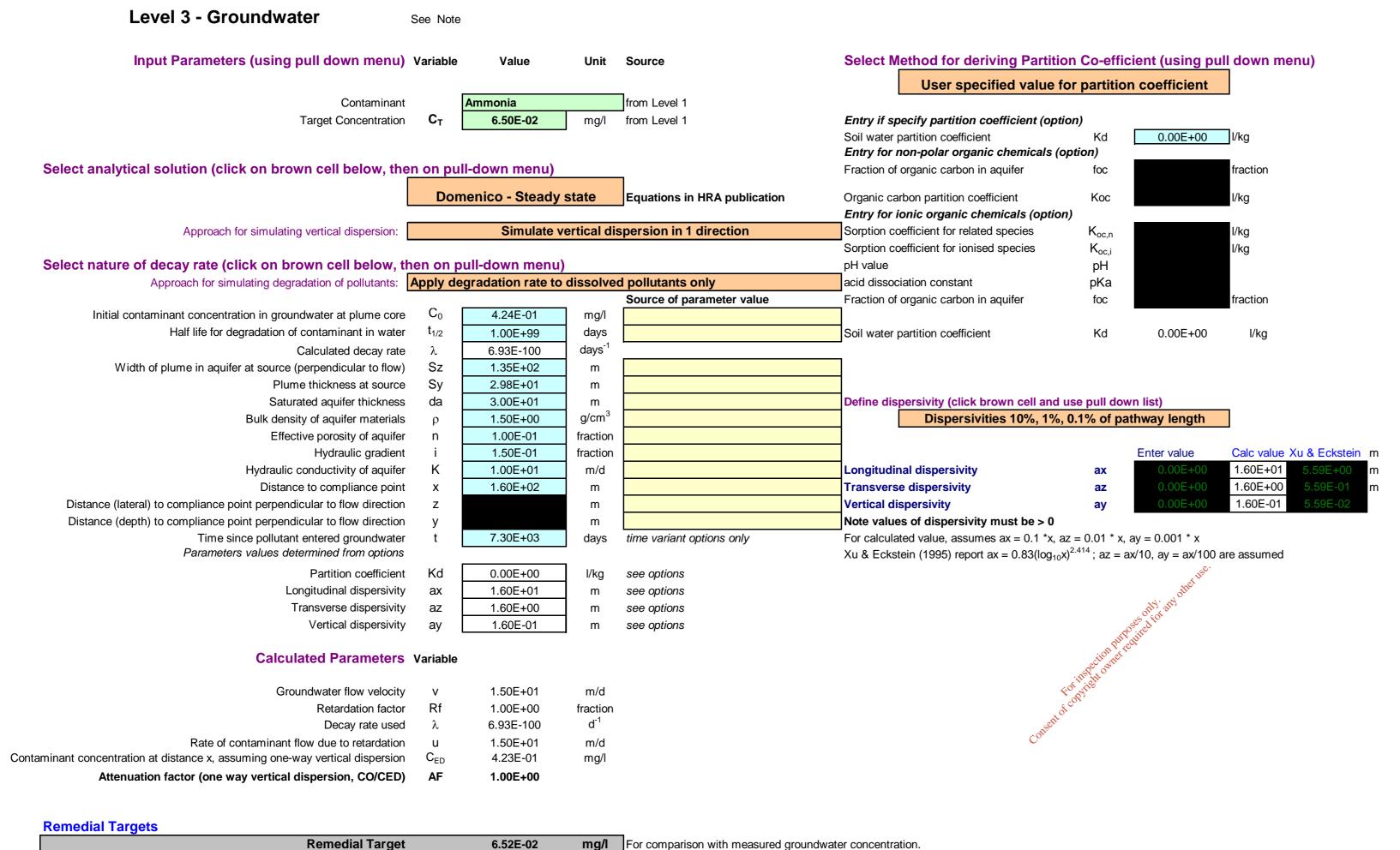
This sheet calculates the Level 3 remedial target for soils(mg/kg) or for pore water (mg/l), based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.By setting a long travel time (e.g. 9E99) it will give the steady state solution, which should always be used when calculating remedial targets.

The measured soil concentration as mg/kg or pore water concentration should be compared with the Level 3 remedial target to determine the need for further action.

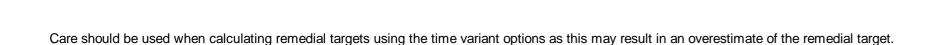
Note if contaminant is not subject to first order degradation, then set half life as 9.9E+99.

te being assessed: Fassaroe - Site 2 Adrian Green

17/05/2018,16:13 Remedial targets worksheet v3.1 EA\_Remedial\_Targets\_Worksheet Site 2\_CAPPED\_UPDATE 2018



**mg/l** Domenico - Steady state



4.23E-01

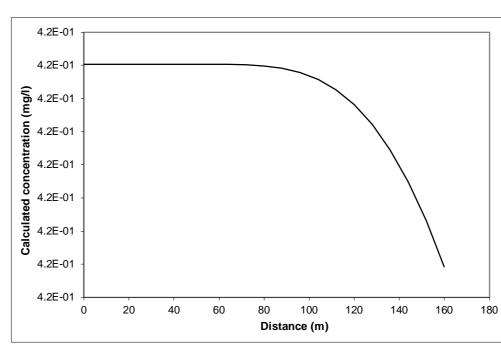
Domenico - Steady state

Distance to compliance point

Concentration of contaminant at compliance point  $C_{ED}/C_0$ 

The recommended value for time when calculating the remedial target is 9.9E+99.





Note graph assumes plume disperses vertically in one direction only. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

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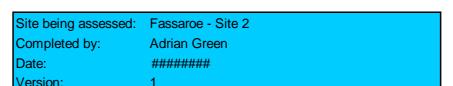
This sheet calculates the Level 3 remedial target for groundwater, based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.

By setting a long travel time it will give the steady state solution, which should be used to calculate remedial targets.

The measured groundwater concentration should be compared with the Level 3 remedial target to determine the need for further action.

Note if contaminant is not subject to first order degradation, then set half life as 9.0E+99.

This worksheet should be used if pollutant transport and degradation is best described by a first order reaction. If degradation is best desribed by an electron limited degradation such as oxidation by O2, NO3, SO4 etc than an alternative solution should be used



Calculated concentrations for distance-concentration graph

Domenico - Steady state				
From calculation sheet				
Distance	Concentration			

	mg/l
0	4.2E-01
8.0	4.24E-01
16.0	4.24E-01
24.0	4.24E-01
32.0	4.24E-01
40.0	4.24E-01
48.0	4.24E-01
56.0	4.24E-01
64.0	4.24E-01
72.0	4.24E-01
80.0	4.24E-01
88.0	4.24E-01
96.0	4.24E-01
104.0	4.24E-01
112.0	4.24E-01
120.0	4.24E-01
128.0	4.23E-01
136.0	4.23E-01
144.0	4.23E-01
152.0	4.23E-01
160.0	4.23E-01

Remedial targets worksheet v3.1 17/05/2018, 16:13

EA\_Remedial\_Targets\_Worksheet Site 2\_CAPPED\_UPDATE 2018Level3 Groundwater

EPA Export 16-02-2019:04:02:28



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Details to be completed for e	each assessment			Fot which
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Site Address:	Fassaroe Co. Wickl	ow		Consent
				Cor
Completed by:	Adrian Green			
Date:	04-May-18		Version:	1
Contaminant	Ammonia			
Target Concentration (C <sub>T</sub> )		mg/l	Origin of C <sub>⊤</sub> :	Surface Water EQS & GW GTV
	0.000	9, .	•	

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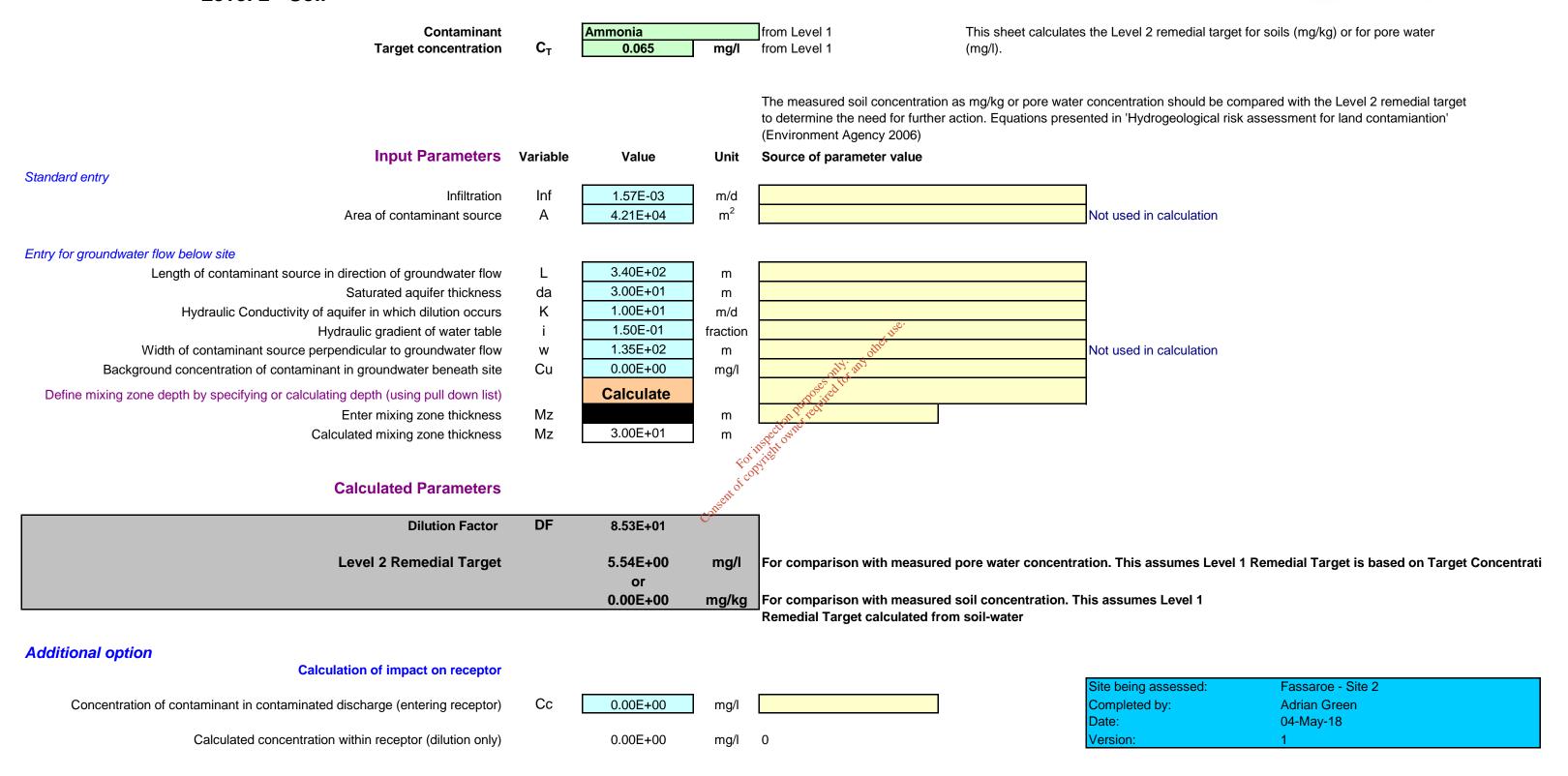
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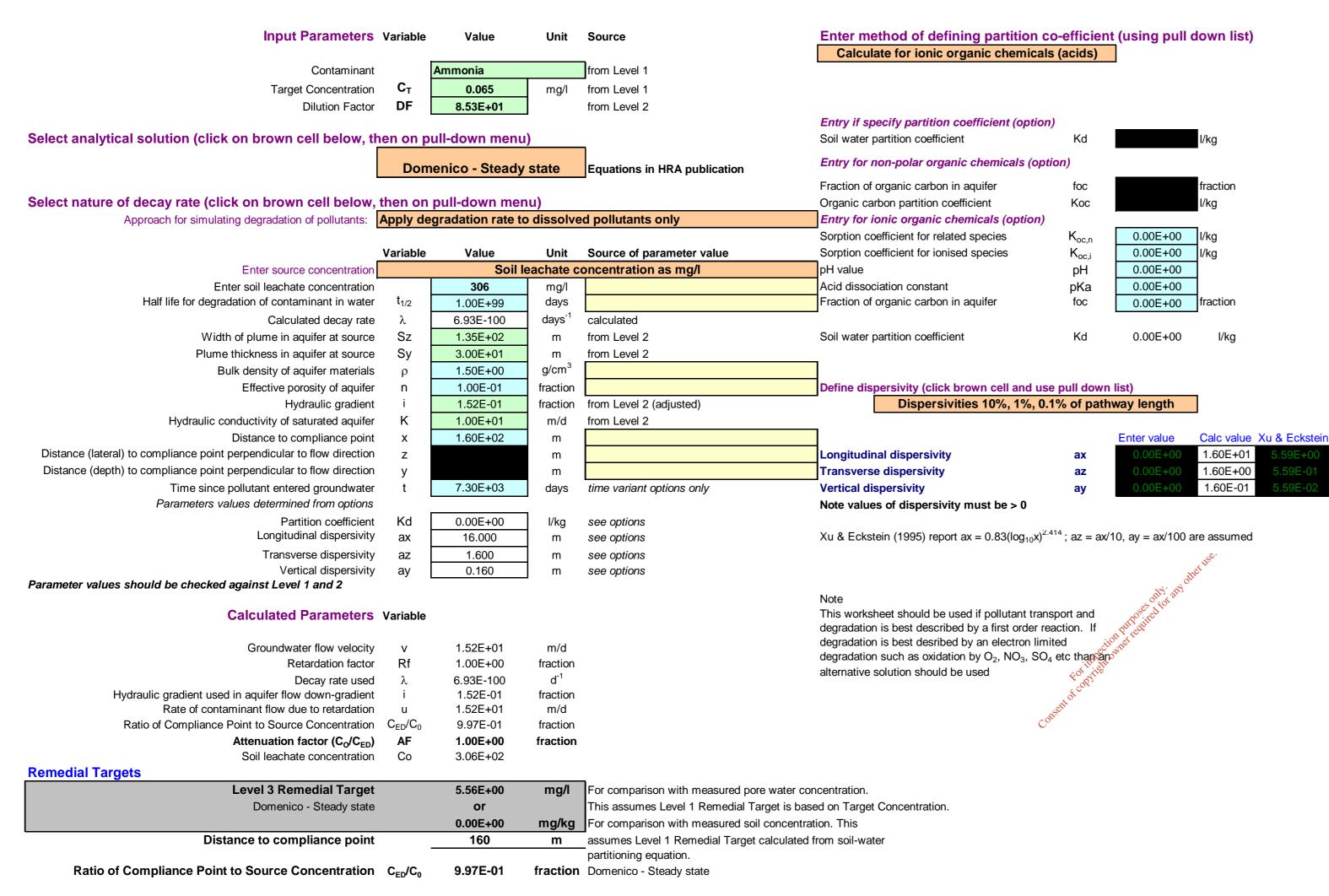






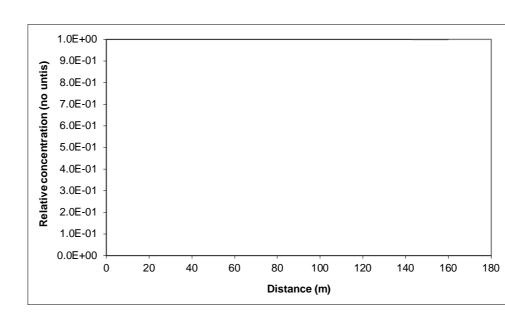
See Note





Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target.

The recommended value for time when calculating the remedial target is 9.9E+99



Note: 'Relative concentration' is the ratio of calculated concentation at a given position compared to the source concentration. The calculations assume plume disperses from the top of the aquifer. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

Calculated (relative) concentrations for distance-concentration graph

**Domenico - Steady state** From calculation sheet

	Relative	
istance	concentration	Concentration
	(No units)	mg/l
0	1.0E+00	3.59E+00
8.0	1.00E+00	3.59E+00
16.0	1.00E+00	3.59E+00
24.0	1.00E+00	3.59E+00
32.0	1.00E+00	3.59E+00
40.0	1.00E+00	3.59E+00
48.0	1.00E+00	3.59E+00
56.0	1.00E+00	3.59E+00
64.0	1.00E+00	3.59E+00
72.0	1.00E+00	3.59E+00
80.0	1.00E+00	3.59E+00
88.0	1.00E+00	3.59E+00
96.0	1.00E+00	3.59E+00
104.0	1.00E+00	3.59E+00
112.0	1.00E+00	3.59E+00
120.0	9.99E-01	3.59E+00
128.0	9.99E-01	3.58E+00
136.0	9.99E-01	3.58E+00
144.0	9.98E-01	3.58E+00
152.0	9.98E-01	3.58E+00
160.0	9.97E-01	3.58E+00

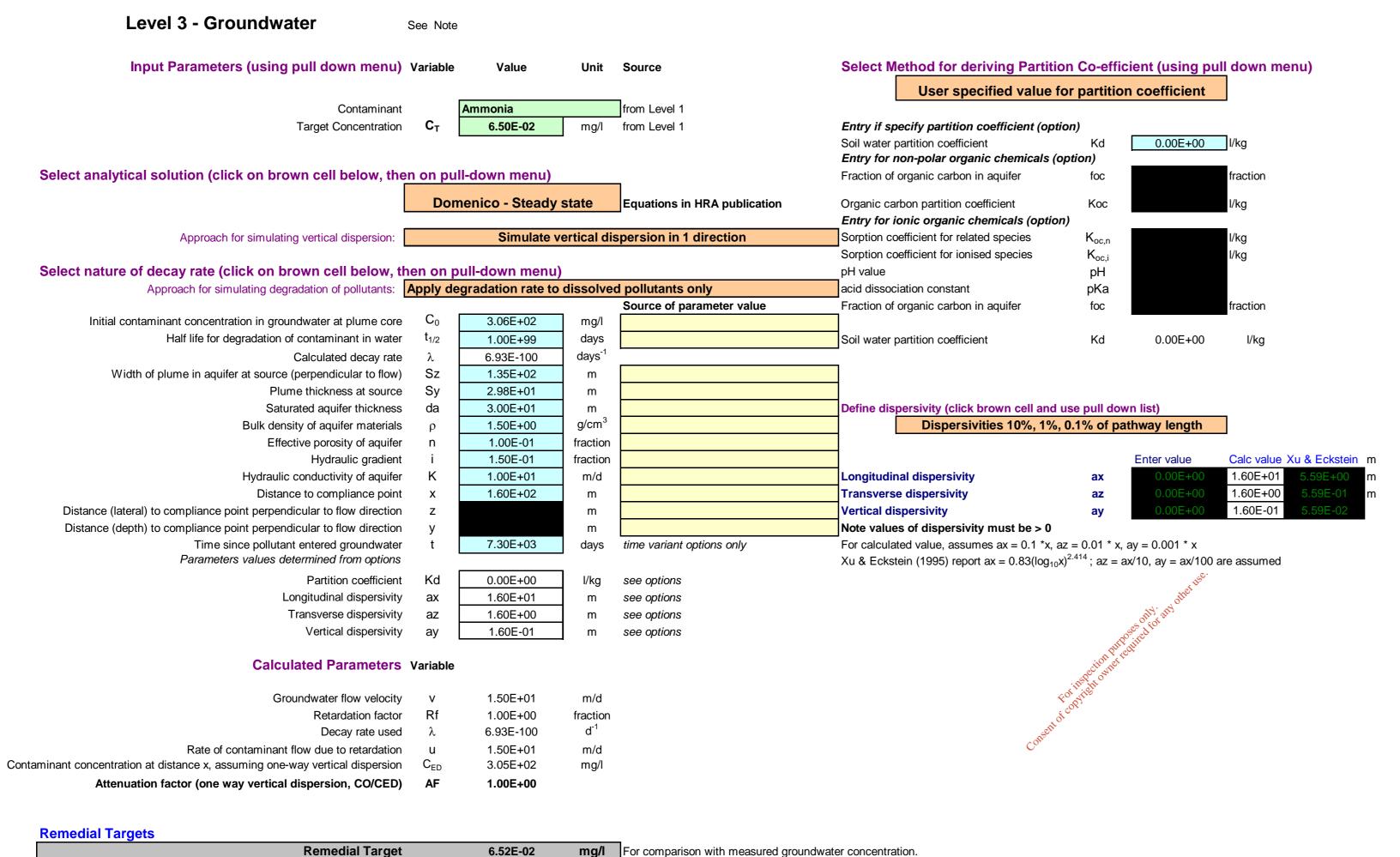
This sheet calculates the Level 3 remedial target for soils(mg/kg) or for pore water (mg/l), based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.By setting a long travel time (e.g. 9E99) it will give the steady state solution, which should always be used when calculating remedial targets.

The measured soil concentration as mg/kg or pore water concentration should be compared with the Level 3 remedial target to determine the need for further action.

Note if contaminant is not subject to first order degradation, then set half life as 9.9E+99.

Site being assessed:	Fassaroe - Site 2
Completed by:	Adrian Green
Date:	#######
/ersion:	1

17/05/2018,16:12 Remedial targets worksheet v3.1 EA\_Remedial\_Targets\_Worksheet Site 2\_UPDATE 2018



Concentration of contaminant at compliance point C<sub>ED</sub>/C<sub>0</sub> 3.05E+02 mg/l Domenico - Steady state

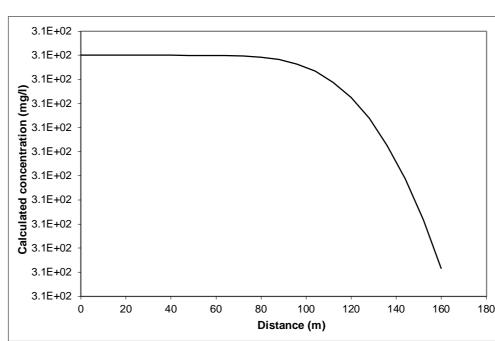
Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target.

Domenico - Steady state

Distance to compliance point

The recommended value for time when calculating the remedial target is 9.9E+99.





Note graph assumes plume disperses vertically in one direction only. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

N	Ot O	

This sheet calculates the Level 3 remedial target for groundwater, based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.

By setting a long travel time it will give the steady state solution, which should be used to calculate remedial targets.

The measured groundwater concentration should be compared with the Level 3 remedial target to determine the need for further action.

Note if contaminant is not subject to first order degradation, then set half life as 9.0E+99.

This worksheet should be used if pollutant transport and degradation is best described by a first order reaction. If degradation is best desribed by an electron limited degradation such as oxidation by O2, NO3, SO4 etc than an alternative solution should be used



Calculated concentrations for distance-concentration graph

Domenico - Steady state
From calculation sheet
Distance Concentration

mg/l
3.1E+02
3.06E+02
3.05E+02
3.05E+02
3.05E+02

Remedial targets worksheet v3.1 17/05/2018, 16:12

EA\_Remedial\_Targets\_Worksheet Site 2\_UPDATE 2018Level3 Groundwater



### Remedial Targets Worksheet, Release 3.2

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Details to be completed for e	each assessment			Fot Windlife
Site Name:	Fassaroe - Site 3a			, of cox
Site Address:	Fassaroe Co. Wickl	low		Consent
				Corr
Completed by:	Adrioan Green			
Date:	04-May-18		Version:	1
Contaminant	Ammonia			
Target Concentration (C <sub>T</sub> )	0.175	mg/l	Origin of C <sub>T</sub> :	Surface Water EQS & GW GTV

This worksheet can be used to determine remedial targets for soils (Worksheets Level 1 Soil, Level 2 and Level 3 Soil) or to determine remedial targets for groundwater (Level 3 Groundwater). For Level 3, parameter values must be entered separately dependent on whether the assessment is for soil or groundwater. For soil, remedial targets are calculated as either mg/kg (for comparision with soil measurements) or mg/l (for comparison with leaching tests or pore water concentrations).

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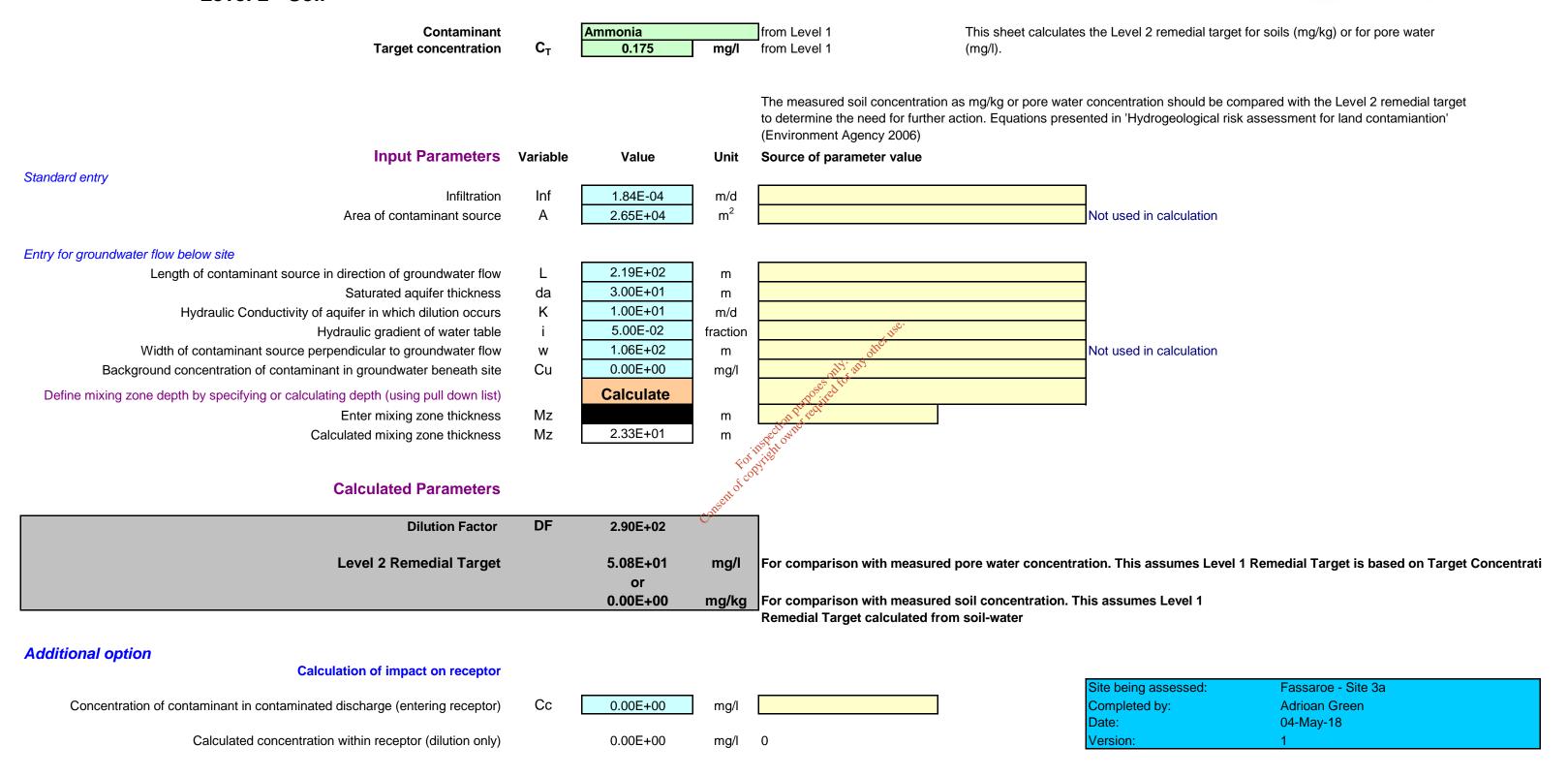
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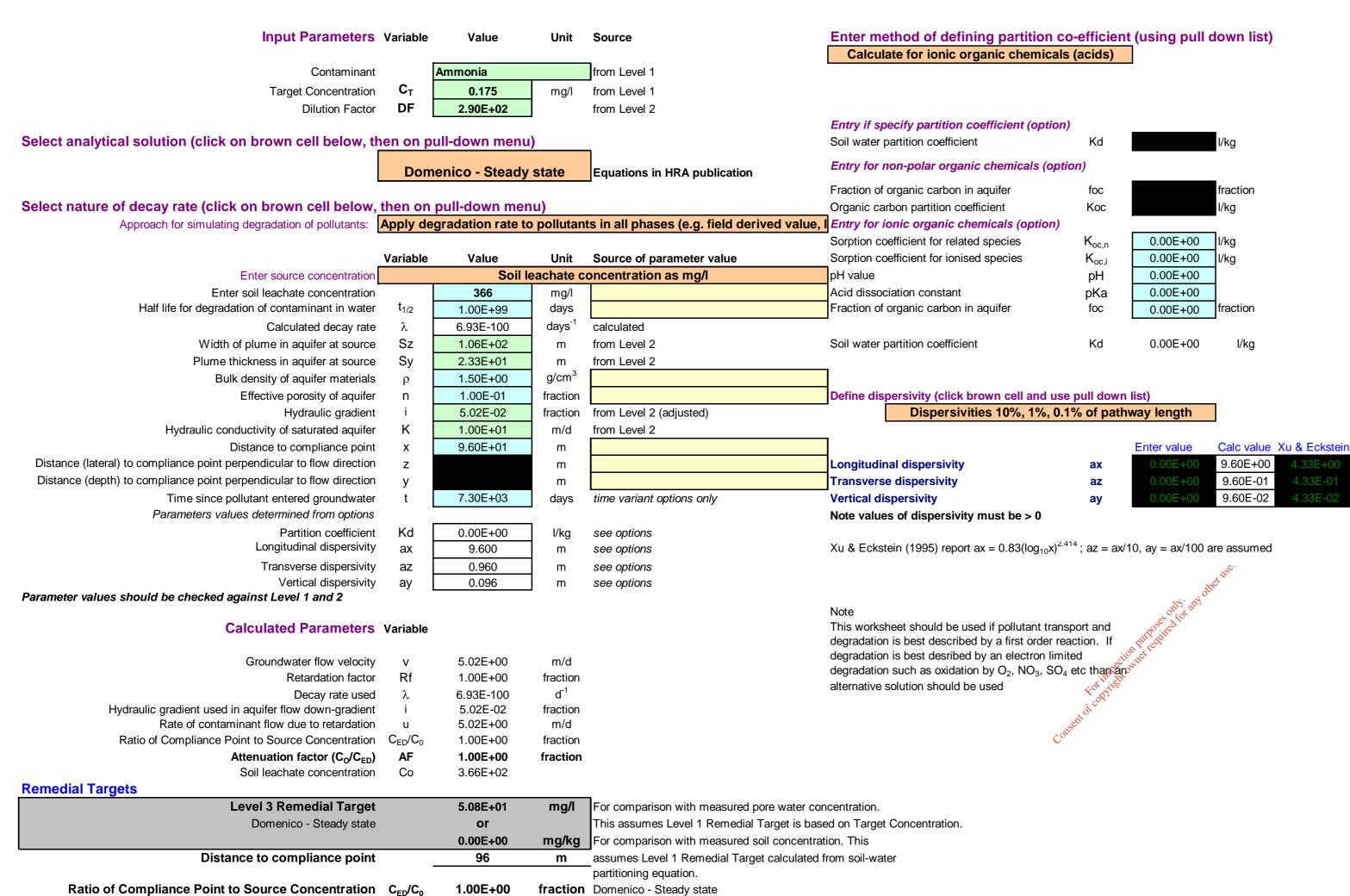






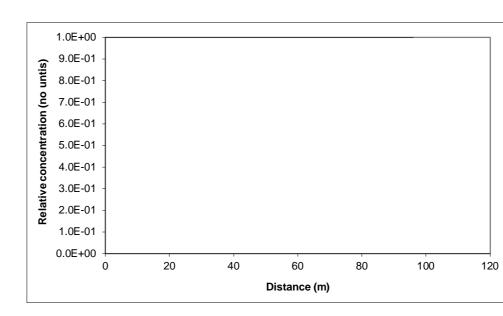
See Note





Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target.

The recommended value for time when calculating the remedial target is 9.9E+99



Note: 'Relative concentration' is the ratio of calculated concentation at a given position compared to the source concentration. The calculations assume plume disperses from the top of the aquifer. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

Calculated (relative) concentrations for distance-concentration graph

Domenico - Steady state
From calculation sheet
Relative
Distance concentratio
(No unit
0 1.0E+0
4.8 1.00E+0

	Itciative	
istance	concentration	Concentrati
	(No units)	mg/l
0	1.0E+00	1.26E+00
4.8	1.00E+00	1.26E+00
9.6	1.00E+00	1.26E+00
14.4	1.00E+00	1.26E+00
19.2	1.00E+00	1.26E+00
24.0	1.00E+00	1.26E+00
28.8	1.00E+00	1.26E+00
33.6	1.00E+00	1.26E+00
38.4	1.00E+00	1.26E+00
43.2	1.00E+00	1.26E+00
48.0	1.00E+00	1.26E+00
52.8	1.00E+00	1.26E+00
57.6	1.00E+00	1.26E+00
62.4	1.00E+00	1.26E+00
67.2	1.00E+00	1.26E+00
72.0	1.00E+00	1.26E+00
76.8	1.00E+00	1.26E+00
81.6	1.00E+00	1.26E+00
86.4	1.00E+00	1.26E+00
91.2	1.00E+00	1.26E+00
96.0	1.00E+00	1.26E+00

This sheet calculates the Level 3 remedial target for soils(mg/kg) or for pore water (mg/l), based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.By setting a long travel time (e.g. 9E99) it will give the steady state solution, which should always be used when calculating remedial targets.

The measured soil concentration as mg/kg or pore water concentration should be compared with the Level 3 remedial target to determine the need for further action.

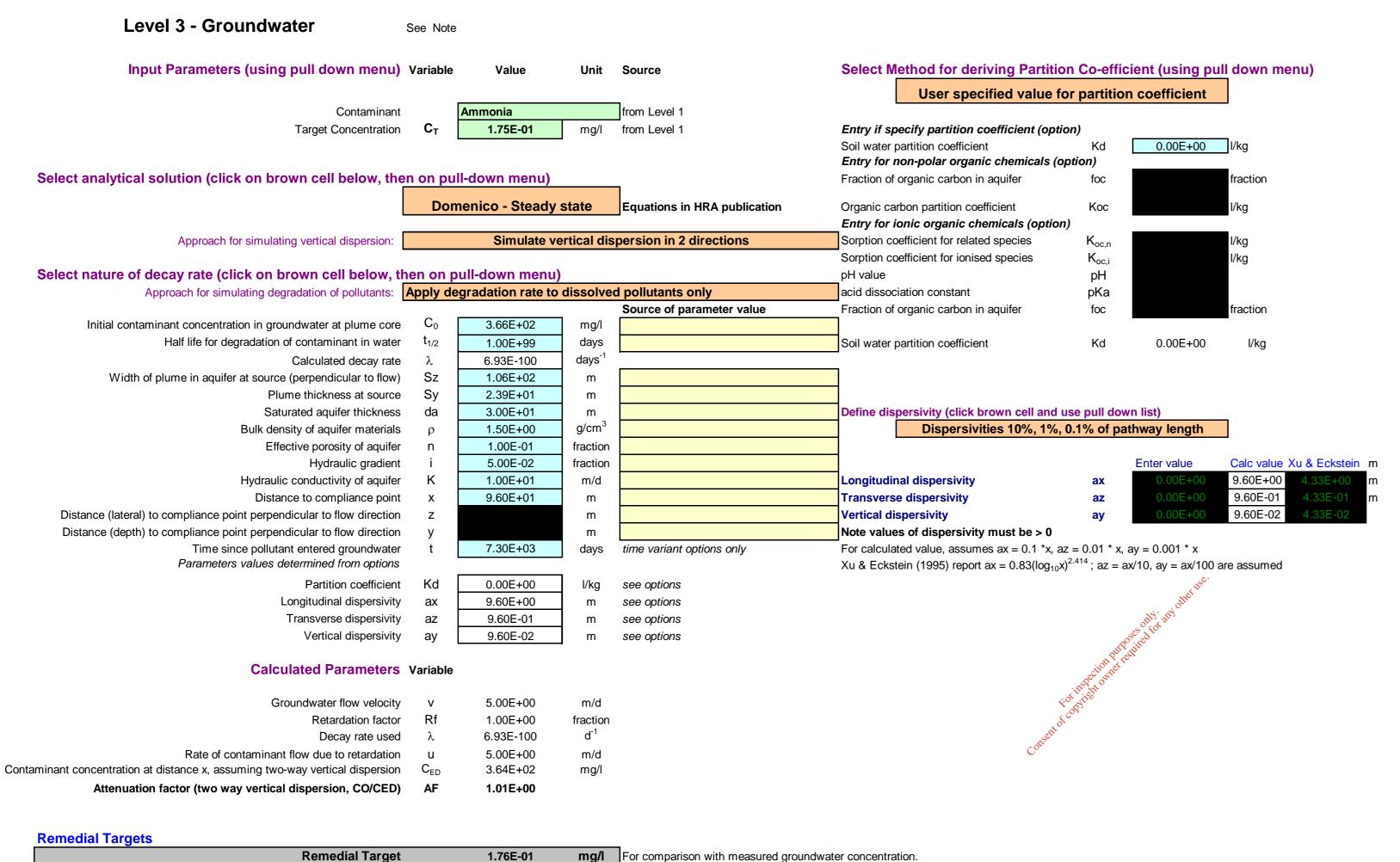
Note if contaminant is not subject to first order degradation, then set half life as 9.9E+99.

Site being assessed: Fassaroe - Site 3a

Completed by: Adrioan Green

Date: #######

Version: 1



**mg/l** Domenico - Steady state

Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target. The recommended value for time when calculating the remedial target is 9.9E+99.

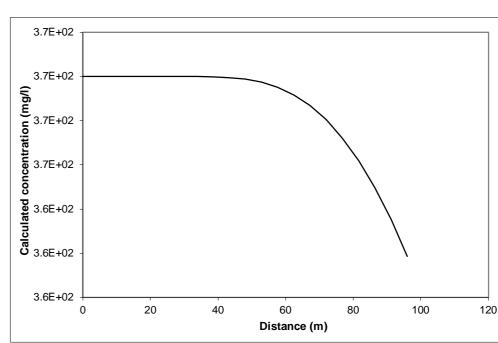
3.64E+02

Domenico - Steady state

Distance to compliance point

Concentration of contaminant at compliance point  $C_{ED}/C_0$ 





Note graph assumes plume disperses vertically in one direction only. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

#### Note

This sheet calculates the Level 3 remedial target for groundwater, based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.

By setting a long travel time it will give the steady state solution, which should be used to calculate remedial targets.

The measured groundwater concentration should be compared with the Level 3 remedial target to determine the need for further action.

Note if contaminant is not subject to first order degradation, then set half life as 9.0E+99.

This worksheet should be used if pollutant transport and degradation is best described by a first order reaction. If degradation is best desribed by an electron limited degradation such as oxidation by O2, NO3, SO4 etc than an alternative solution should be used

Site being assessed: Fassaroe - Site 3a

Completed by: Adrioan Green

Date: ########

Calculated concentrations for distance-concentration graph

Domenico - Steady state
From calculation sheet
Distance Concentration

	mg/l
0	3.7E+0
4.8	3.66E+0
9.6	3.66E+0
14.4	3.66E+0
19.2	3.66E+0
24.0	3.66E+0
28.8	3.66E+0
33.6	3.66E+0
38.4	3.66E+0
43.2	3.66E+0
48.0	3.66E+0
52.8	3.66E+0
57.6	3.66E+0
62.4	3.66E+0
67.2	3.66E+0
72.0	3.66E+0
76.8	3.65E+0
81.6	3.65E+0
86.4	3.65E+0
91.2	3.64E+0
96.0	3.64E+0



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Site Address:	Fassaroe Co. Wickl	ow		Consent
				Cor
Completed by:	Adrian Green			
Date:	04-May-18		Version:	1
Contaminant	Ammonia			
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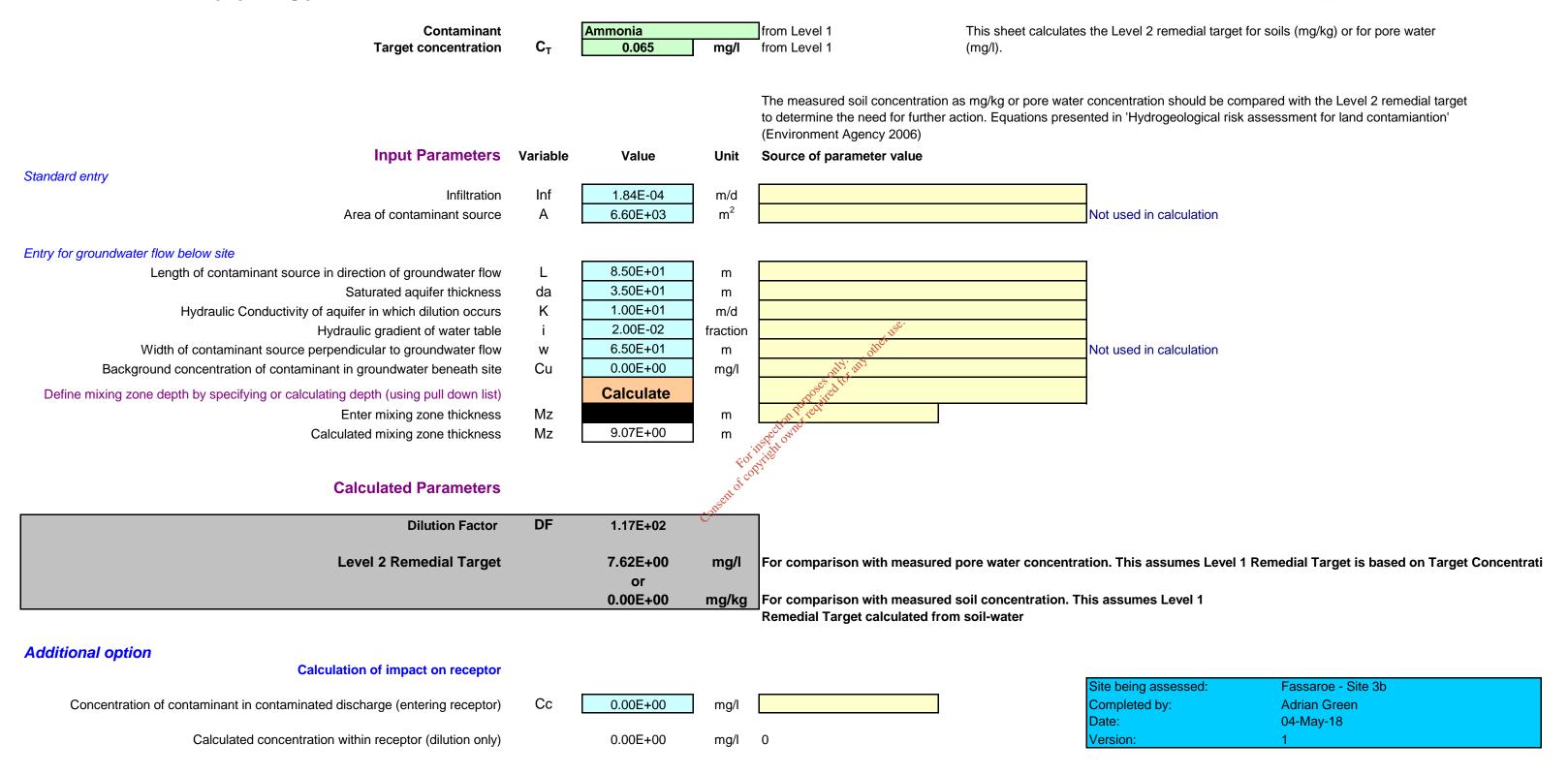
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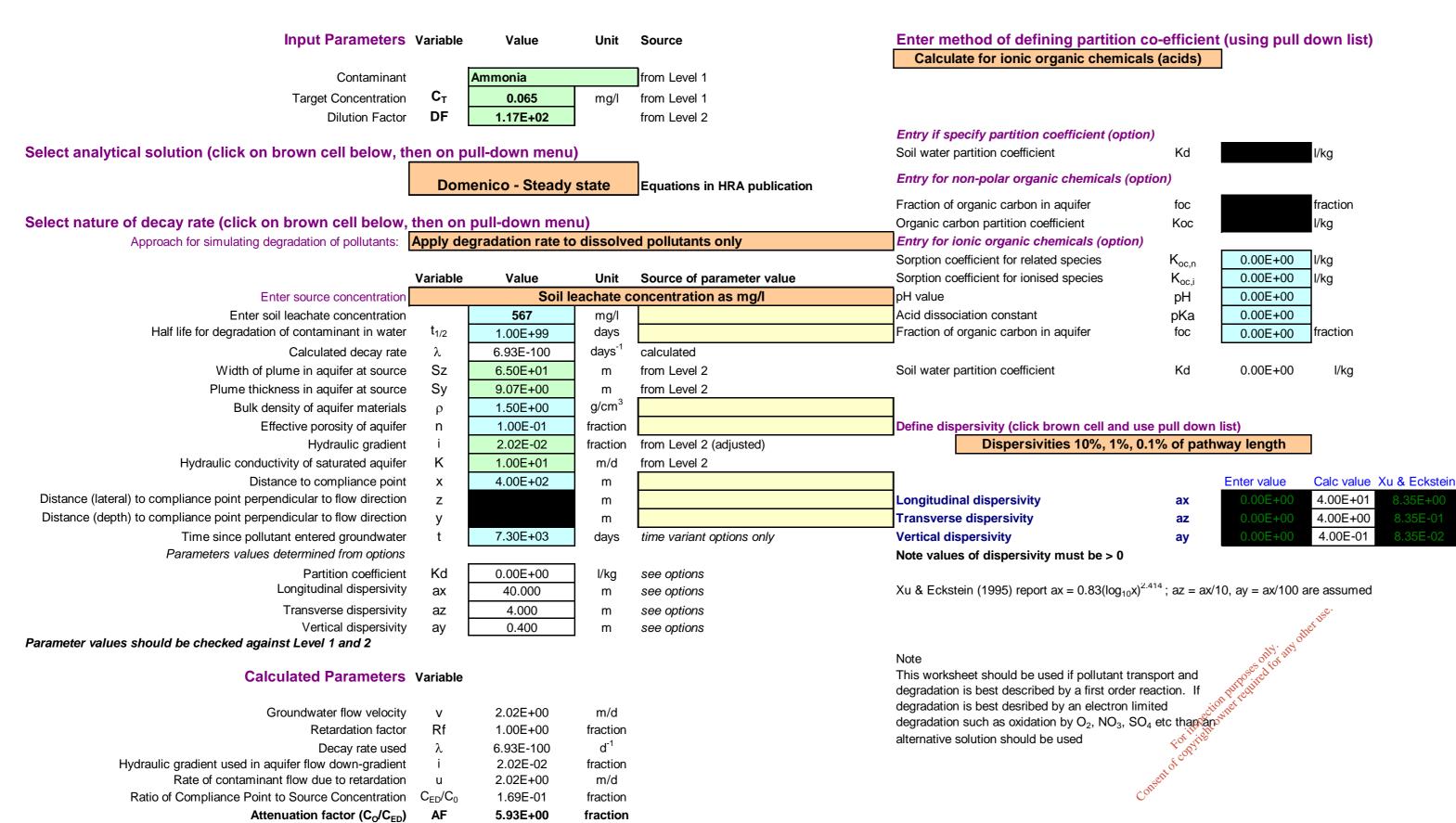
It is recommended that a copy of the original worksheet is saved (all data fields in the original copy are blank).







See Note



mg/l For comparison with measured pore water concentration.

mg/kg For comparison with measured soil concentration. This

partitioning equation.

fraction Domenico - Steady state

m assumes Level 1 Remedial Target calculated from soil-water

This assumes Level 1 Remedial Target is based on Target Concentration.

Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target.

4.52E+01

or

0.00E+00 400

1.69E-01

Soil leachate concentration Co

**Level 3 Remedial Target** 

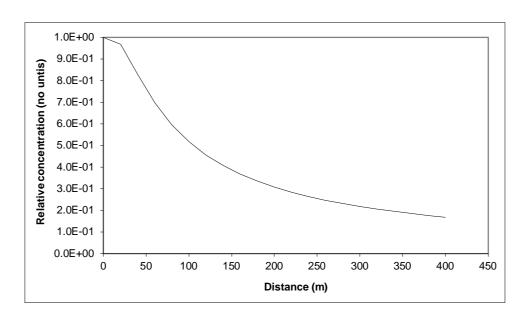
Distance to compliance point

Domenico - Steady state

The recommended value for time when calculating the remedial target is 9.9E+99

Ratio of Compliance Point to Source Concentration  $C_{ED}/C_0$ 





Note: 'Relative concentration' is the ratio of calculated concentation at a given position compared to the source concentration. The calculations assume plume disperses from the top of the aquifer. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

Calculated (relative) concentrations for distance-concentration graph

Domenico - Steady state From calculation sheet

	Relative	
Distance	concentration	Concentration
	(No units)	mg/l
0	1.0E+00	4.83E+00
20.0	9.67E-01	4.67E+00
40.0	8.30E-01	4.01E+00
60.0	6.98E-01	3.37E+00
80.0	5.95E-01	2.88E+00
100.0	5.17E-01	2.50E+00
120.0	4.56E-01	2.20E+00
140.0	4.07E-01	1.97E+00
160.0	3.67E-01	1.78E+00
180.0	3.35E-01	1.62E+00
200.0	3.07E-01	1.49E+00
220.0	2.84E-01	1.37E+00
240.0	2.64E-01	1.28E+00
260.0	2.47E-01	1.19E+00
280.0	2.31E-01	1.12E+00
300.0	2.18E-01	1.05E+00
320.0	2.06E-01	9.95E-01
340.0	1.95E-01	9.43E-01
360.0	1.85E-01	8.96E-01
380.0	1.77E-01	8.53E-01
400.0	1.69E-01	8.15E-01

This sheet calculates the Level 3 remedial target for soils(mg/kg) or for pore water (mg/l), based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.By setting a long travel time (e.g. 9E99) it will give the steady state solution, which should always be used when calculating remedial targets.

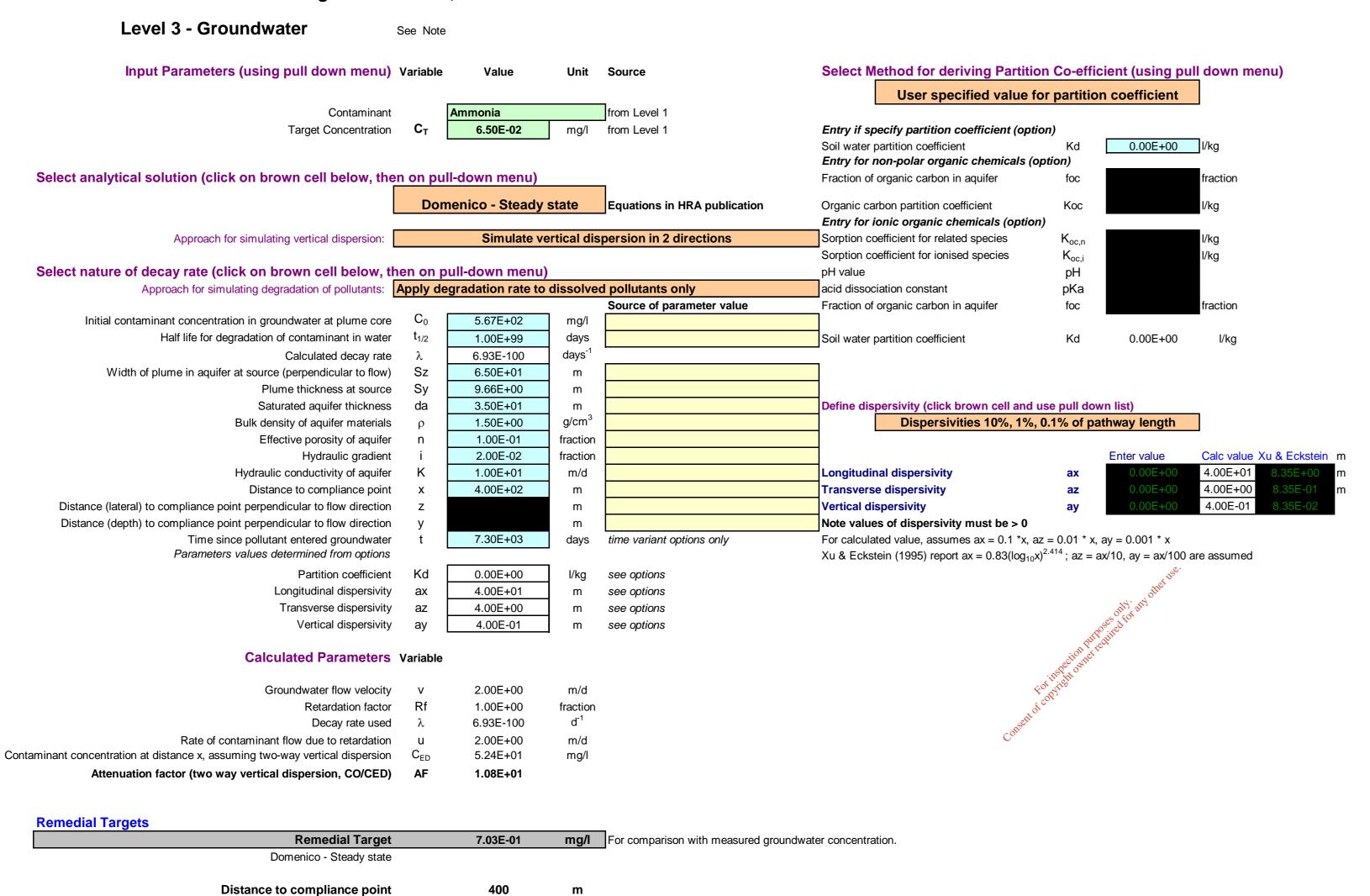
The measured soil concentration as mg/kg or pore water concentration should be compared with the Level 3 remedial target to determine the need for further action.

Note if contaminant is not subject to first order degradation, then set half life as 9.9E+99.

Site being assessed:	Fassaroe - Site 3b
Completed by:	Adrian Green
Date:	########
Version:	1

17/05/2018,16:19 EA\_Remedial\_Targets\_Worksheet Site 3B\_CAPPED\_UPDATE 2018

Remedial Targets



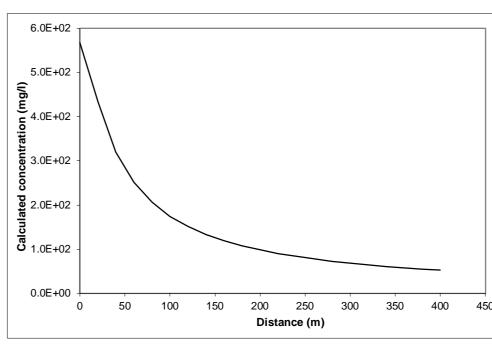
**mg/l** Domenico - Steady state

Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target. The recommended value for time when calculating the remedial target is 9.9E+99.

5.24E+01

Concentration of contaminant at compliance point  $C_{ED}/C_0$ 

Environment Agency



Note graph assumes plume disperses vertically in one direction only. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

Note

This sheet calculates the Level 3 remedial target for groundwater, based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.

By setting a long travel time it will give the steady state solution, which should be used to calculate remedial targets.

The measured groundwater concentration should be compared with the Level 3 remedial target to determine the need for further action.

Note if contaminant is not subject to first order degradation, then set half life as 9.0E+99.

This worksheet should be used if pollutant transport and degradation is best described by a first order reaction. If degradation is best desribed by an electron limited degradation such as oxidation by O2, NO3, SO4 etc than an alternative solution should be used

Site being assessed: Fassaroe - Site 3b

Completed by: Adrian Green

Date: #######

Version: 1

Calculated concentrations for distance-concentration graph

Domenico - Steady state
From calculation sheet
Distance Concentration

	mg/l
0	5.7E+02
20.0	4.34E+02
40.0	3.20E+02
60.0	2.51E+02
80.0	2.06E+02
100.0	1.75E+02
120.0	1.51E+02
140.0	1.33E+02
160.0	1.19E+02
180.0	1.08E+02
200.0	9.84E+01
220.0	9.04E+01
240.0	8.37E+01
260.0	7.79E+01
280.0	7.28E+01
300.0	6.84E+01
320.0	6.45E+01
340.0	6.10E+01
360.0	5.78E+01
380.0	5.50E+01
400.0	5.24E+01



### Remedial Targets Worksheet, Release 3.2

First released: 2006. Version 3.2: January 2013

This worksheet has been produced in combination with the document 'Remedial Targets Methodology: Hydrogeological risk assessment for land contamination (Environment Agency 2006).

Users of this worksheet should always refer to the User Manual to the Remedial Targets Methodology and to relevant guidance on UK legislation and policy, in order to understand how this procedure should be applied in an appropriate context.

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The calculation of equations in this worksheet has been independently checked by Entec (UK) Ltd on behalf of the Environment Agency.

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IMPORTANT: To enable MS Excel worksheet, click Tools, Add -Ins, Analysis Tool Pak and Analysis Tool Pak-VBA (to calculate error functions)

Details to be completed for e	each assessment			Fot of the fifth
Site Name:	Fassaroe - Site 3b			, of cox
Site Address:	Fassaroe Co. Wickl	ow		asetik
				Consent
Completed by:	Adrian Green			
Date:	04-May-18		Version:	1
	_			
Contaminant	Ammonia			
Target Concentration (C <sub>T</sub> )	0.065	mg/l	Origin of C <sub>T</sub> :	Surface Water EQS & GW GTV

This worksheet can be used to determine remedial targets for soils (Worksheets Level 1 Soil, Level 2 and Level 3 Soil) or to determine remedial targets for groundwater (Level 3 Groundwater). For Level 3, parameter values must be entered separately dependent on whether the assessment is for soil or groundwater. For soil, remedial targets are calculated as either mg/kg (for comparision with soil measurements) or mg/l (for comparison with leaching tests or pore water concentrations).

Site details entered on this page are automatically copied to Level 1, 2 and 3 Worksheets.

Worksheet options are identified by brown background and employ a pull-down menus. Data entry are identified as blue background.

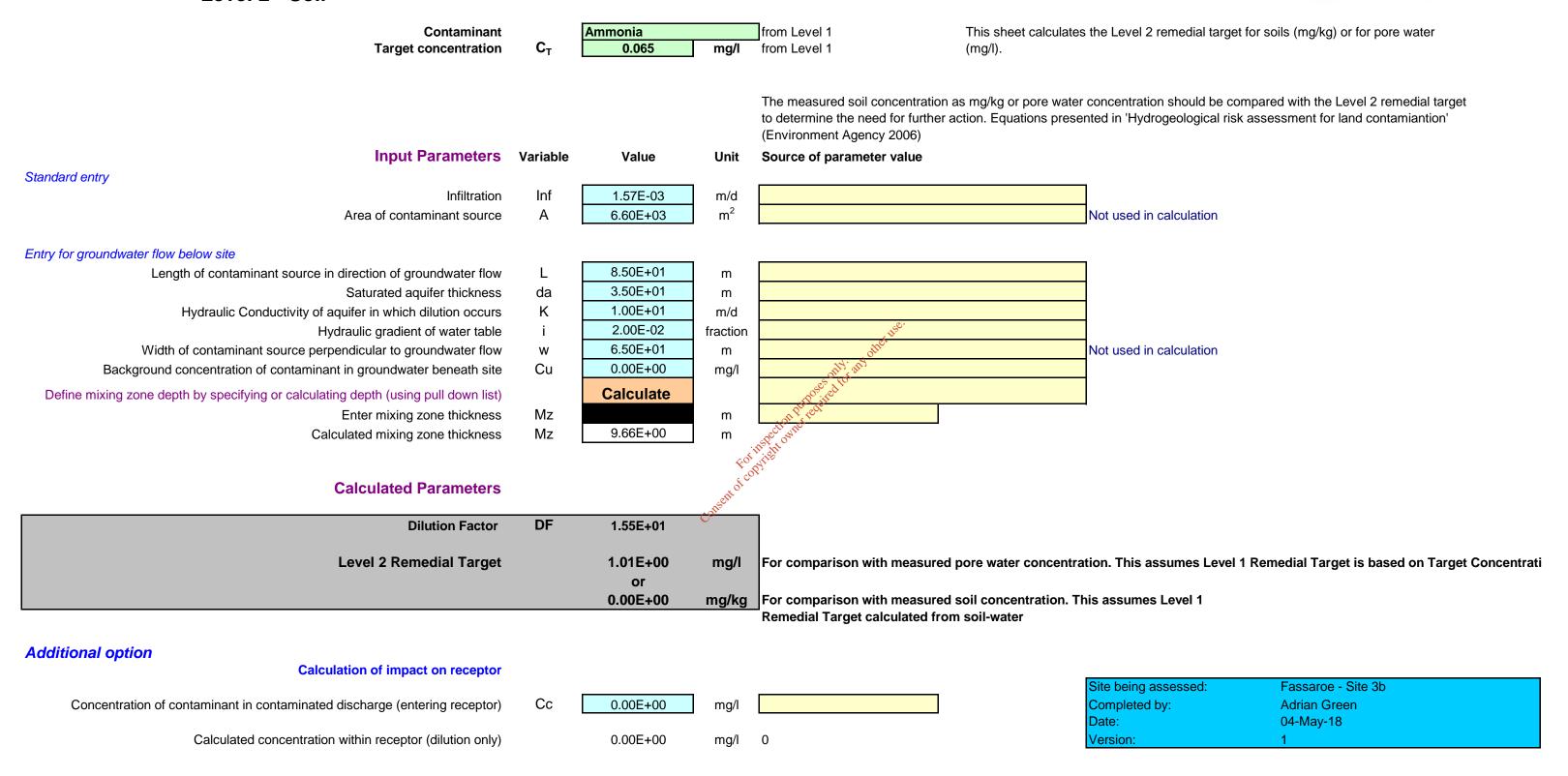
Data origin / justification should be noted in cells coloured yellow and fully documented in subsequent reports.

Data carried forward from an earlier worksheet are identified by a light green background

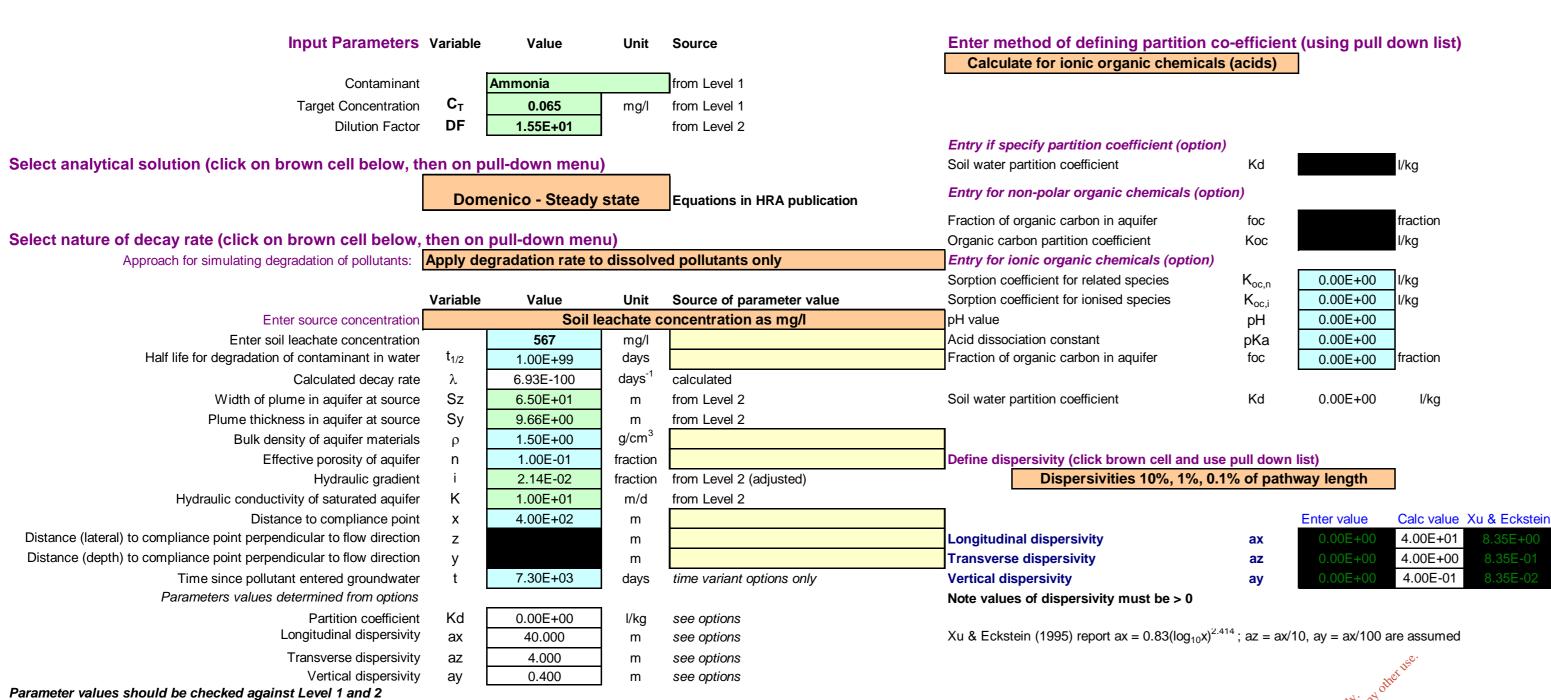
It is recommended that a copy of the original worksheet is saved (all data fields in the original copy are blank).







See Note





Remedia Targets			_
Level 3 Remedial Target	5.64E+00	mg/l	For comparison with measured pore water concentration.
Domenico - Steady state	or		This assumes Level 1 Remedial Target is based on Target Concentration
	0.00E+00	mg/kg	For comparison with measured soil concentration. This
Distance to compliance point	400	m	assumes Level 1 Remedial Target calculated from soil-water
			partitioning equation.
Ratio of Compliance Point to Source Concentration C <sub>ED</sub> /C <sub>0</sub>	1.78E-01	fraction	Domenico - Steady state

2.14E+00

1.00E+00

6.93E-100

2.14E-02

2.14E+00

1.78E-01

fraction

d<sup>-1</sup>

fraction

fraction

Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target.

Soil leachate concentration Co 5.67E+02

**Calculated Parameters Variable** 

Retardation factor

Decay rate used

Groundwater flow velocity

Attenuation factor (C<sub>O</sub>/C<sub>ED</sub>) AF

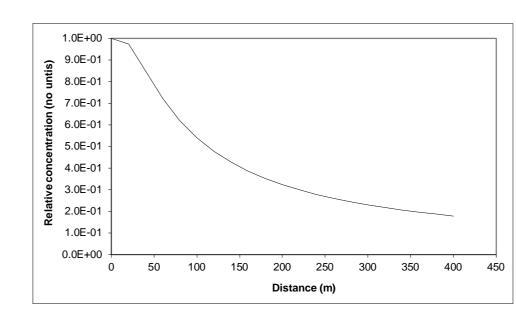
The recommended value for time when calculating the remedial target is 9.9E+99

Hydraulic gradient used in aquifer flow down-gradient

Rate of contaminant flow due to retardation

Ratio of Compliance Point to Source Concentration  $C_{ED}/C_0$ 





Note: 'Relative concentration' is the ratio of calculated concentation at a given position compared to the source concentration. The calculations assume plume disperses from the top of the aquifer. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

Calculated (relative) concentrations for distance-concentration graph

Domenico - Steady state From calculation sheet

	Relative	
Distance	concentration	Concentratio
	(No units)	mg/l
0	1.0E+00	3.66E+01
20.0	9.74E-01	3.57E+01
40.0	8.49E-01	3.11E+01
60.0	7.21E-01	2.64E+01
80.0	6.19E-01	2.27E+01
100.0	5.39E-01	1.98E+01
120.0	4.77E-01	1.75E+01
140.0	4.27E-01	1.56E+01
160.0	3.86E-01	1.41E+01
180.0	3.52E-01	1.29E+01
200.0	3.24E-01	1.19E+01
220.0	2.99E-01	1.10E+01
240.0	2.79E-01	1.02E+01
260.0	2.60E-01	9.54E+00
280.0	2.44E-01	8.95E+00
300.0	2.30E-01	8.43E+00
320.0	2.18E-01	7.97E+00
340.0	2.06E-01	7.56E+00
360.0	1.96E-01	7.18E+00
380.0	1.87E-01	6.85E+00
400.0	1.78E-01	6.54E+00

This sheet calculates the Level 3 remedial target for soils(mg/kg) or for pore water (mg/l), based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.By setting a long travel time (e.g. 9E99) it will give the steady state solution, which should always be used when calculating remedial targets.

The measured soil concentration as mg/kg or pore water concentration should be compared with the Level 3 remedial target to determine the need for further action.

Note if contaminant is not subject to first order degradation, then set half life as 9.9E+99.

Site being assessed:	Fassaroe - Site 3b
Completed by:	Adrian Green
Date:	########
/ersion:	1

17/05/2018,16:18
Remedial targets worksheet v3.1 EA\_Remedial\_Targets\_Worksheet Site 3B\_UPDATE 2018

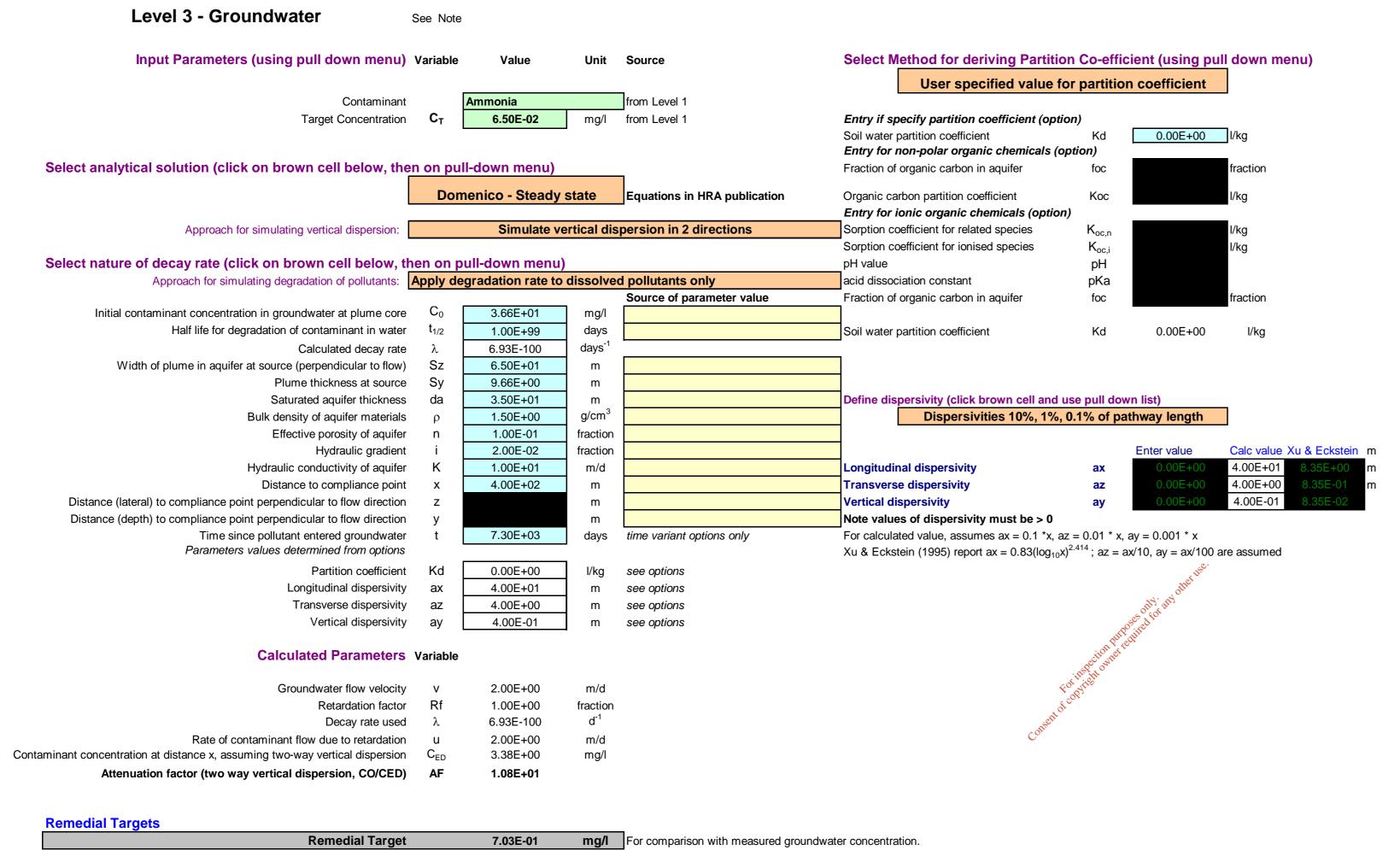
This worksheet should be used if pollutant transport and

degradation is best described by a first order reaction. If

degradation such as oxidation by O2, NO3, SO4 etc than an

degradation is best desribed by an electron limited

alternative solution should be used



**mg/l** Domenico - Steady state

Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target. The recommended value for time when calculating the remedial target is 9.9E+99.

400

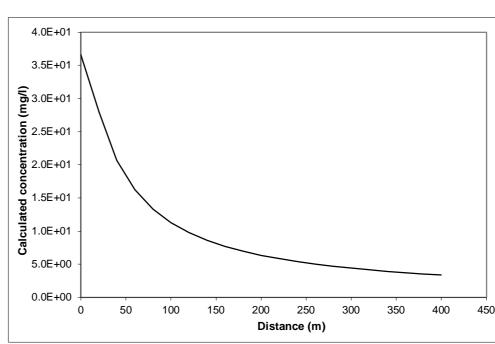
3.38E+00

Domenico - Steady state

Distance to compliance point

Concentration of contaminant at compliance point  $C_{ED}/C_0$ 

Environmen Agency



Note graph assumes plume disperses vertically in one direction only. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

٨	lote	

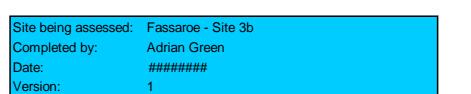
This sheet calculates the Level 3 remedial target for groundwater, based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.

By setting a long travel time it will give the steady state solution, which should be used to calculate remedial targets.

The measured groundwater concentration should be compared with the Level 3 remedial target to determine the need for further action.

Note if contaminant is not subject to first order degradation, then set half life as 9.0E+99.

This worksheet should be used if pollutant transport and degradation is best described by a first order reaction. If degradation is best desribed by an electron limited degradation such as oxidation by O2, NO3, SO4 etc than an alternative solution should be used



Calculated concentrations for distance-concentration graph

Domenico - Steady state
From calculation sheet
Distance Concentration

	mg/l
0	3.7E+01
20.0	2.80E+01
40.0	2.07E+01
60.0	1.62E+01
80.0	1.33E+01
100.0	1.13E+01
120.0	9.75E+00
140.0	8.60E+00
160.0	7.69E+00
180.0	6.95E+00
200.0	6.35E+00
220.0	5.84E+00
240.0	5.40E+00
260.0	5.03E+00
280.0	4.70E+00
300.0	4.41E+00
320.0	4.16E+00
340.0	3.93E+00
360.0	3.73E+00
380.0	3.55E+00
400.0	3.38E+00

Remedial targets worksheet v3.1 17/05/2018, 16:18

EA\_Remedial\_Targets\_Worksheet Site 3B\_UPDATE 2018Level3 Groundwater

EPA Export 16-02-2019:04:02:28



### Remedial Targets Worksheet, Release 3.2

First released: 2006. Version 3.2: January 2013

This worksheet has been produced in combination with the document 'Remedial Targets Methodology: Hydrogeological risk assessment for land contamination (Environment Agency 2006).

Users of this worksheet should always refer to the User Manual to the Remedial Targets Methodology and to relevant guidance on UK legislation and policy, in order to understand how this procedure should be applied in an appropriate context.

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IMPORTANT: To enable MS Excel worksheet, click Tools, Add -Ins, Analysis Tool Pak and Analysis Tool Pak-VBA (to calculate error functions)

				20° 00°
Details to be completed for e	each assessment			For it is in the second
Site Name:	Fassaroe - Site 3c			, of cox
Site Address:	Fassaroe Co. Wickl	low		Consent
				Cor
Completed by:	Adrian Green			
Date:	04-May-18		Version:	1
Contaminant	Ammonia			
Target Concentration (C <sub>T</sub> )	0.065	mg/l	Origin of C <sub>T</sub> :	Surface Water EQS & GW GTV

This worksheet can be used to determine remedial targets for soils (Worksheets Level 1 Soil, Level 2 and Level 3 Soil) or to determine remedial targets for groundwater (Level 3 Groundwater). For Level 3, parameter values must be entered separately dependent on whether the assessment is for soil or groundwater. For soil, remedial targets are calculated as either mg/kg (for comparision with soil measurements) or mg/l (for comparison with leaching tests or pore water concentrations).

Site details entered on this page are automatically copied to Level 1, 2 and 3 Worksheets.

Worksheet options are identified by brown background and employ a pull-down menus. Data entry are identified as blue background.

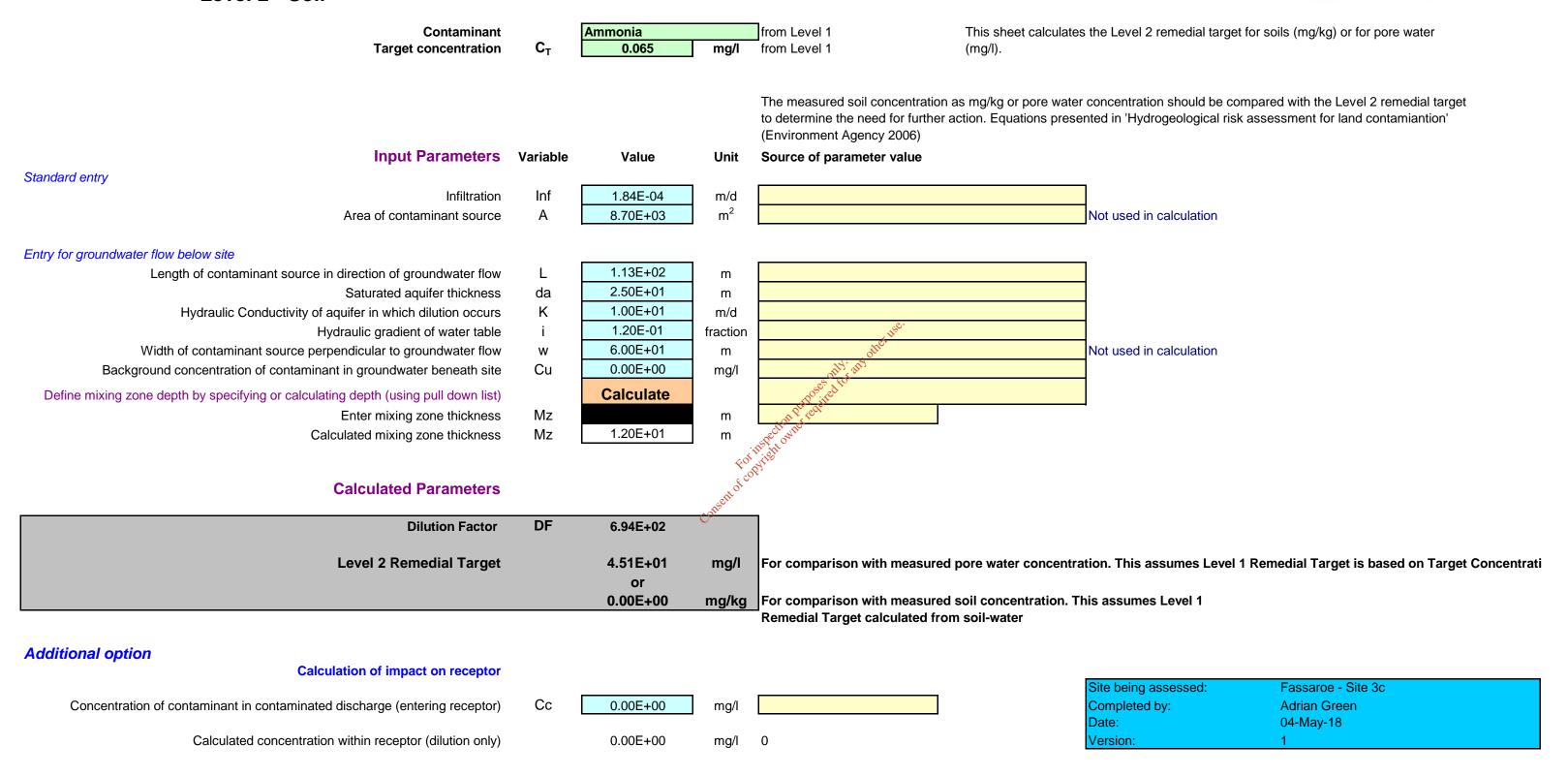
Data origin / justification should be noted in cells coloured yellow and fully documented in subsequent reports.

Data carried forward from an earlier worksheet are identified by a light green background

It is recommended that a copy of the original worksheet is saved (all data fields in the original copy are blank).

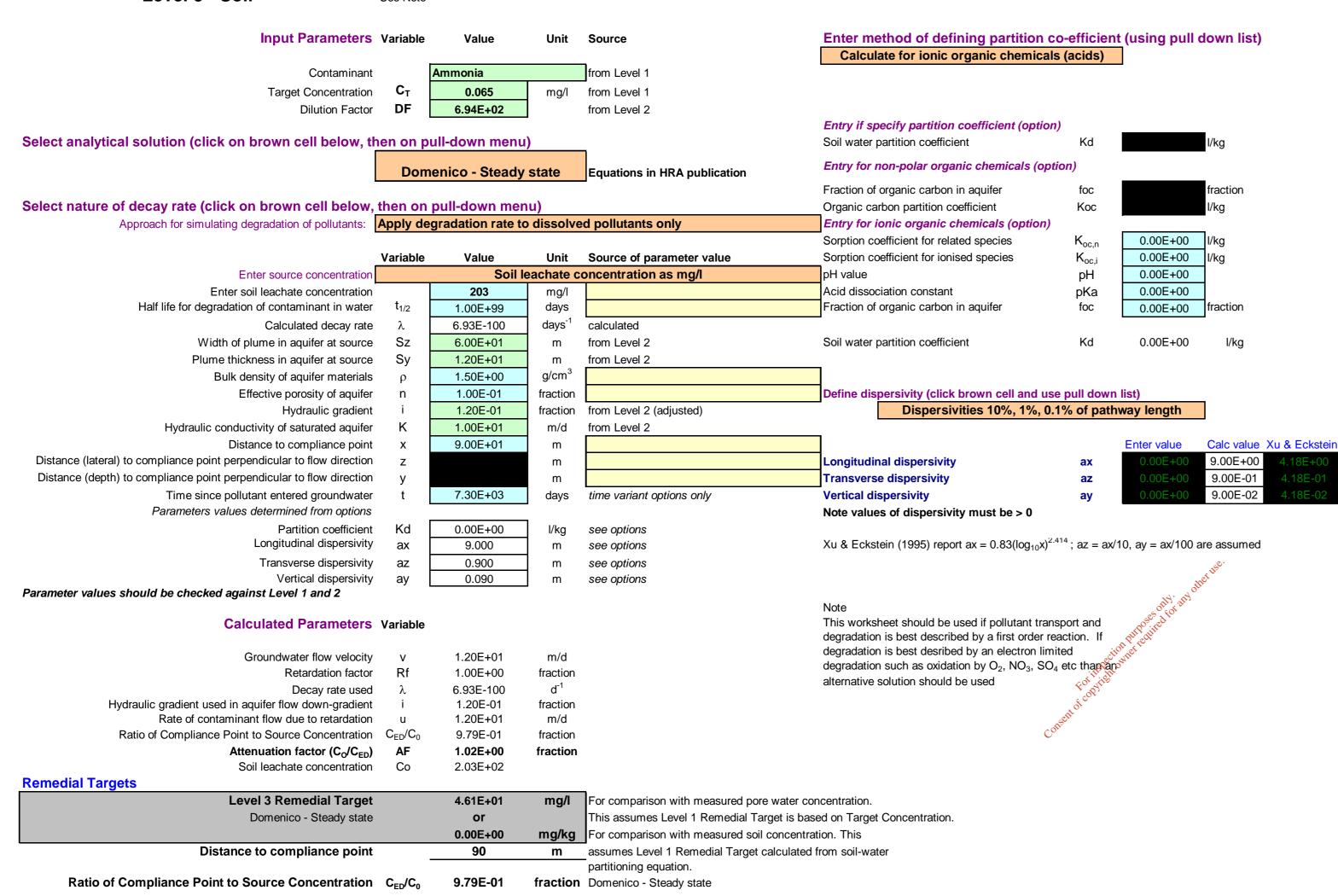






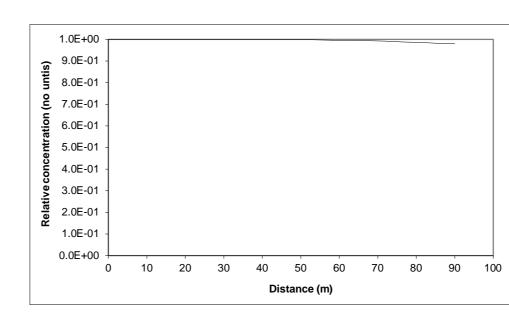
See Note





Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target.

The recommended value for time when calculating the remedial target is 9.9E+99



Note: 'Relative concentration' is the ratio of calculated concentation at a given position compared to the source concentration. The calculations assume plume disperses from the top of the aquifer. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

Calculated (relative) concentrations for distance-concentration graph

Domenico - Steady state From calculation sheet

	Relative	
Distance	concentration	Concentration
	(No units)	mg/l
0	1.0E+00	2.93E-01
4.5	1.00E+00	2.93E-01
9.0	1.00E+00	2.93E-01
13.5	1.00E+00	2.93E-01
18.0	1.00E+00	2.93E-01
22.5	1.00E+00	2.93E-01
27.0	1.00E+00	2.93E-01
31.5	1.00E+00	2.93E-01
36.0	1.00E+00	2.93E-01
40.5	1.00E+00	2.92E-01
45.0	9.99E-01	2.92E-01
49.5	9.98E-01	2.92E-01
54.0	9.98E-01	2.92E-01
58.5	9.96E-01	2.91E-01
63.0	9.95E-01	2.91E-01
67.5	9.93E-01	2.91E-01
72.0	9.91E-01	2.90E-01
76.5	9.88E-01	2.89E-01
81.0	9.85E-01	2.88E-01
85.5	9.82E-01	2.87E-01
90.0	9.79E-01	2.86E-01

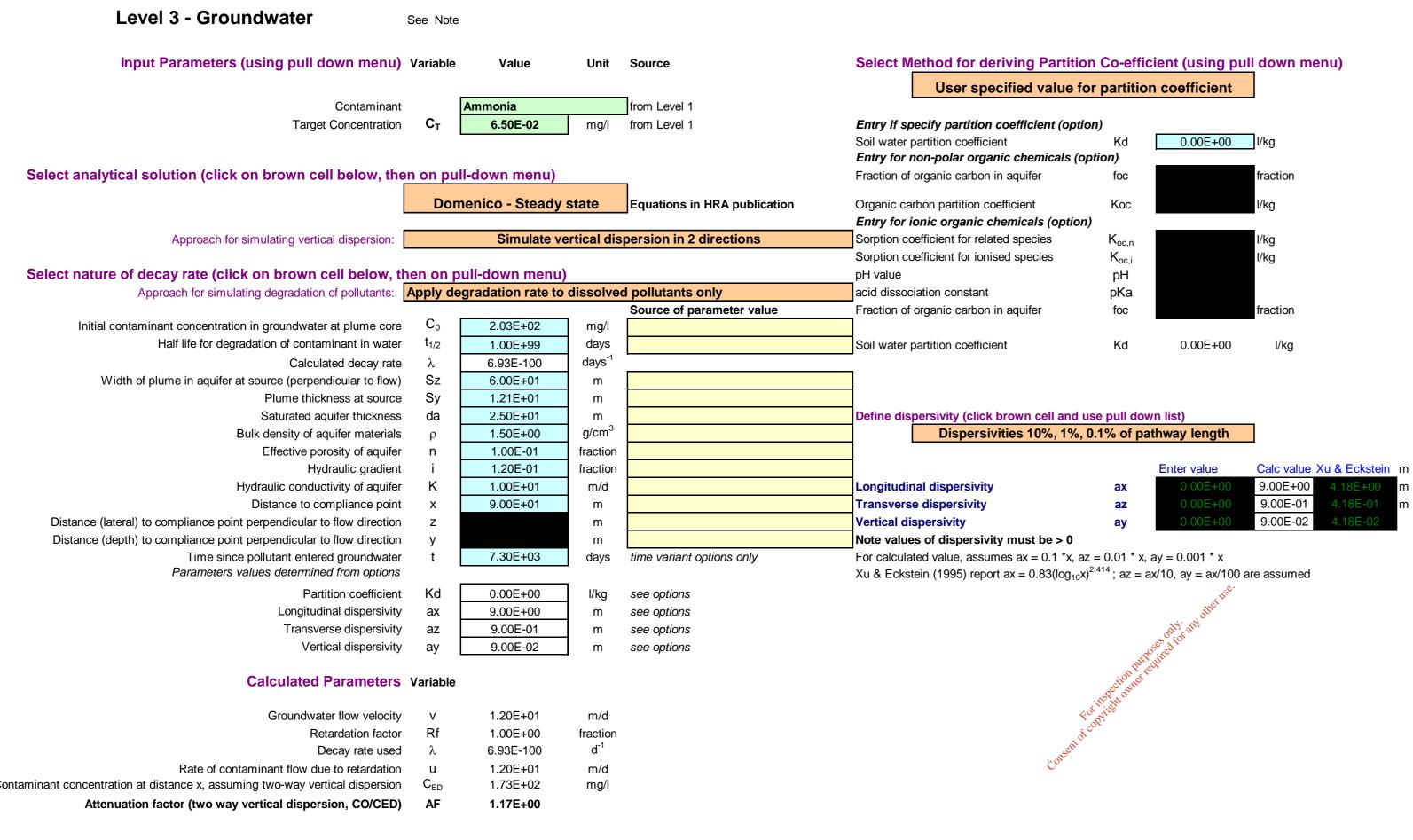
This sheet calculates the Level 3 remedial target for soils(mg/kg) or for pore water (mg/l), based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.By setting a long travel time (e.g. 9E99) it will give the steady state solution, which should always be used when calculating remedial targets.

The measured soil concentration as mg/kg or pore water concentration should be compared with the Level 3 remedial target to determine the need for further action.

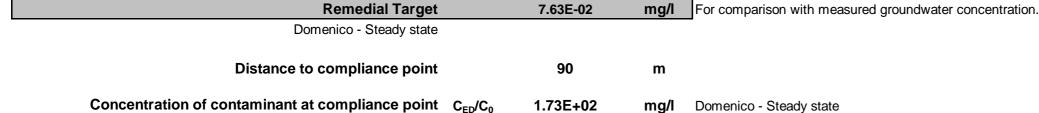
Note if contaminant is not subject to first order degradation, then set half life as 9.9E+99.

te being assessed: Fassaroe - Site 3c Adrian Green

17/05/2018,16:22 Remedial targets worksheet v3.1 EA\_Remedial\_Targets\_Worksheet Site 3C\_CAPPED\_UPDATE 2018

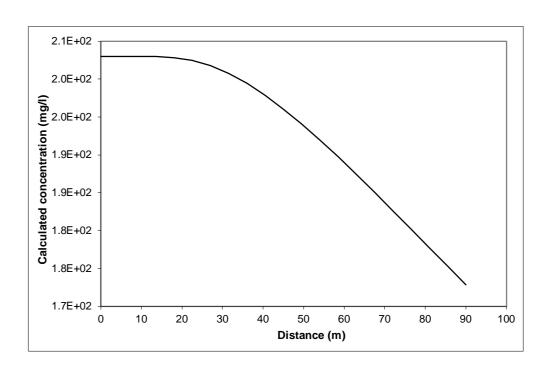






Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target. The recommended value for time when calculating the remedial target is 9.9E+99.





Note graph assumes plume disperses vertically in one direction only. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

#### Note

This sheet calculates the Level 3 remedial target for groundwater, based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.

By setting a long travel time it will give the steady state solution, which should be used to calculate remedial targets.

The measured groundwater concentration should be compared with the Level 3 remedial target to determine the need for further action.

Note if contaminant is not subject to first order degradation, then set half life as 9.0E+99.

This worksheet should be used if pollutant transport and degradation is best described by a first order reaction. If degradation is best desribed by an electron limited degradation such as oxidation by O2, NO3, SO4 etc than an alternative solution should be used



Calculated concentrations for distance-concentration graph

Domenico - Steady state
From calculation sheet
Distance Concentration

	mg/l
0	2.0E+02
4.5	2.03E+02
9.0	2.03E+02
13.5	2.03E+02
18.0	2.03E+02
22.5	2.02E+02
27.0	2.02E+02
31.5	2.01E+02
36.0	1.99E+02
40.5	1.98E+02
45.0	1.96E+02
49.5	1.94E+02
54.0	1.92E+02
58.5	1.90E+02
63.0	1.87E+02
67.5	1.85E+02
72.0	1.83E+02
76.5	1.80E+02
81.0	1.78E+02
85.5	1.75E+02
90.0	1.73E+02

Remedial targets worksheet v3.1 17/05/2018, 16:22
EA\_Remedial\_Targets\_Worksheet Site 3C\_CAPPED\_UPDATE 2018Level3 Groundwater



### Remedial Targets Worksheet, Release 3.2

First released: 2006. Version 3.2: January 2013

This worksheet has been produced in combination with the document 'Remedial Targets Methodology: Hydrogeological risk assessment for land contamination (Environment Agency 2006).

Users of this worksheet should always refer to the User Manual to the Remedial Targets Methodology and to relevant guidance on UK legislation and policy, in order to understand how this procedure should be applied in an appropriate context.

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The calculation of equations in this worksheet has been independently checked by Entec (UK) Ltd on behalf of the Environment Agency.

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IMPORTANT: To enable MS Excel worksheet, click Tools, Add -Ins, Analysis Tool Pak and Analysis Tool Pak-VBA (to calculate error functions)

Details to be completed for e	each assessment			Fot of the life
Site Name:	Fassaroe - Site 3c			, of cofe
Site Address:	Fassaroe Co. Wicklow			Consent
				Corr
Completed by:	Adrian Green			
Date:	04-May-18		Version:	1
0 1 1	A			
Contaminant	Ammonia			
Target Concentration (C <sub>T</sub> )	0.065	mg/l	Origin of C <sub>T</sub> :	Surface Water EQS & GW GTV

This worksheet can be used to determine remedial targets for soils (Worksheets Level 1 Soil, Level 2 and Level 3 Soil) or to determine remedial targets for groundwater (Level 3 Groundwater). For Level 3, parameter values must be entered separately dependent on whether the assessment is for soil or groundwater. For soil, remedial targets are calculated as either mg/kg (for comparision with soil measurements) or mg/l (for comparison with leaching tests or pore water concentrations).

Site details entered on this page are automatically copied to Level 1, 2 and 3 Worksheets.

Worksheet options are identified by brown background and employ a pull-down menus. Data entry are identified as blue background.

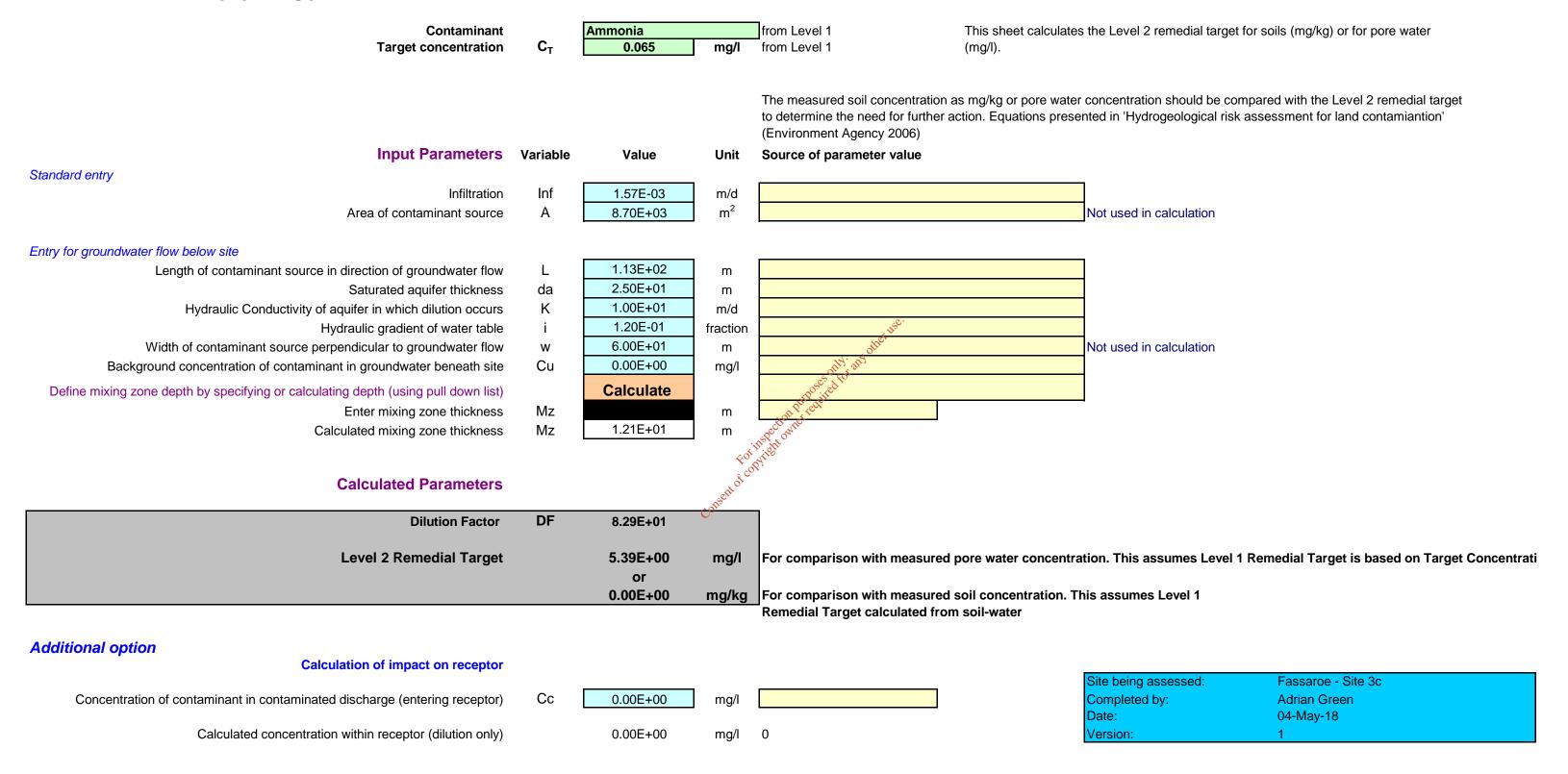
Data origin / justification should be noted in cells coloured yellow and fully documented in subsequent reports.

Data carried forward from an earlier worksheet are identified by a light green background

It is recommended that a copy of the original worksheet is saved (all data fields in the original copy are blank).

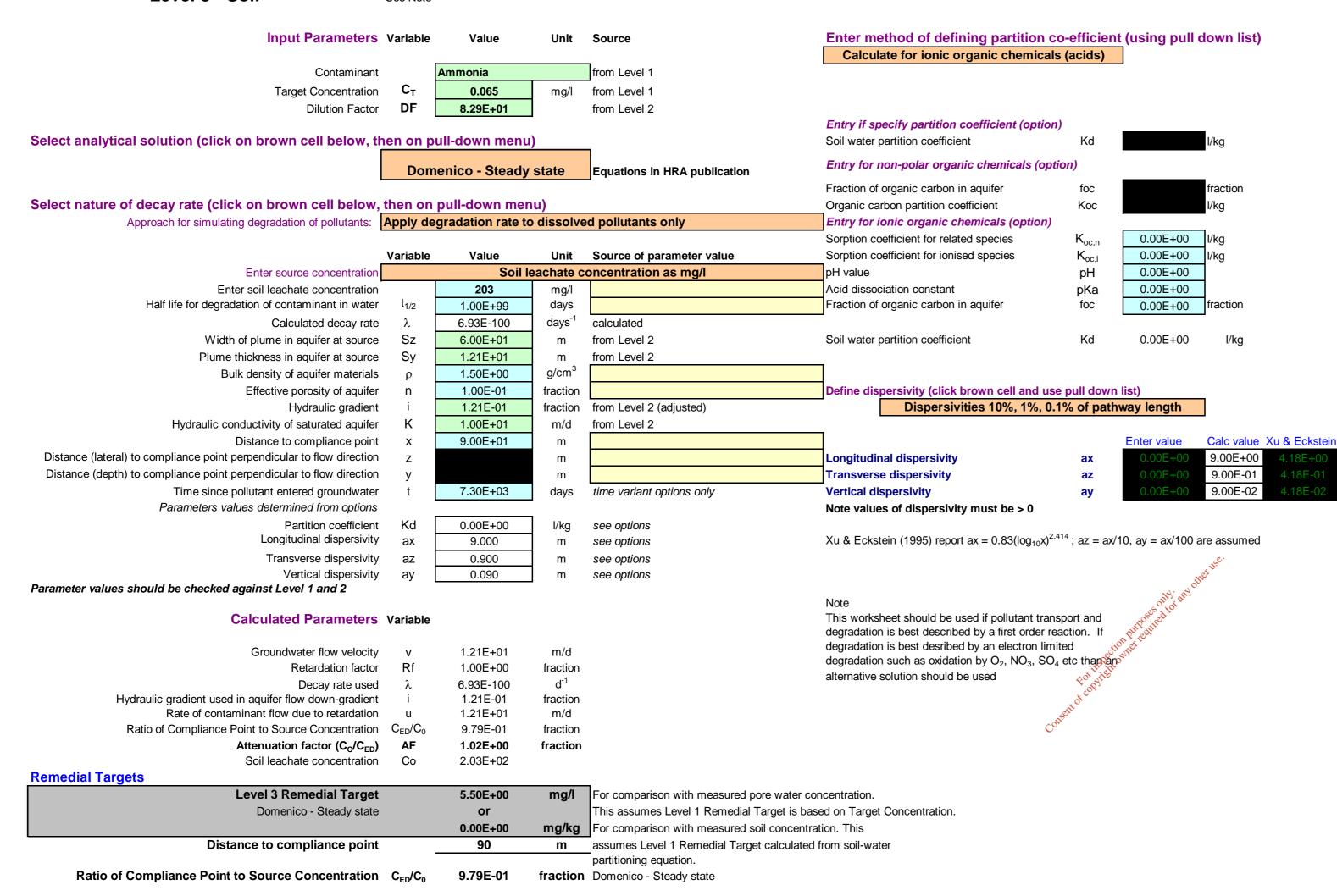






See Note

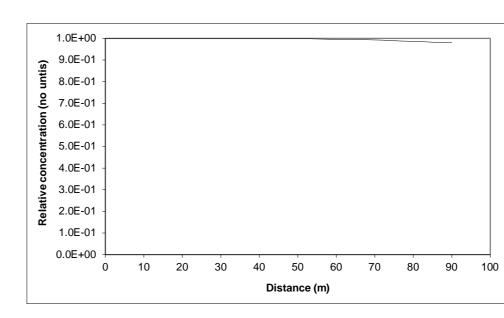




Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target.

The recommended value for time when calculating the remedial target is 9.9E+99

Remedial targets worksheet v3.1



Note: 'Relative concentration' is the ratio of calculated concentation at a given position compared to the source concentration. The calculations assume plume disperses from the top of the aquifer. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

Calculated (relative) concentrations for distance-concentration graph

Domenico - Steady state From calculation sheet Relative

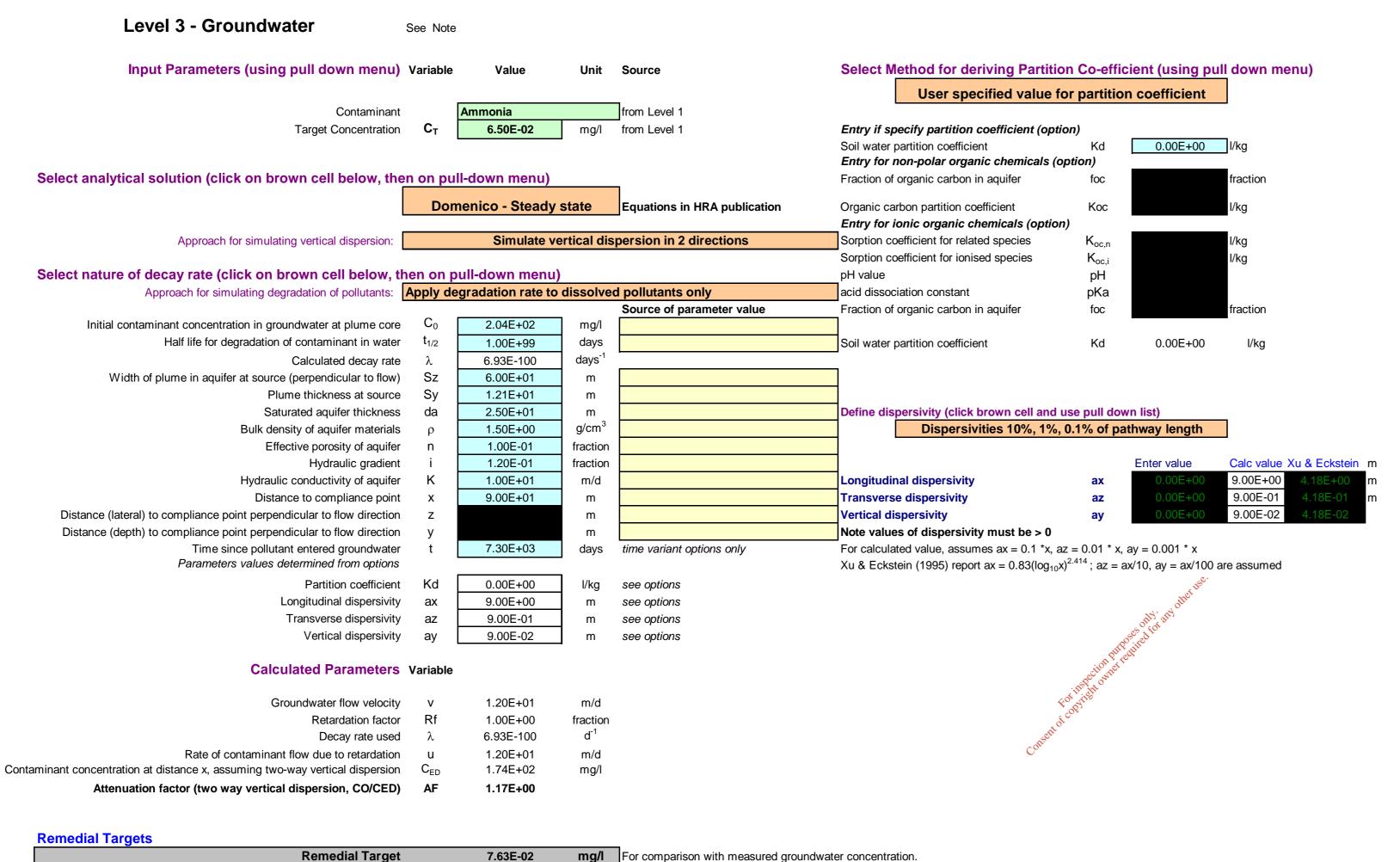
	Relative	
istance	concentration	Concentrati
	(No units)	mg/l
0	1.0E+00	2.45E+00
4.5	1.00E+00	2.45E+00
9.0	1.00E+00	2.45E+00
13.5	1.00E+00	2.45E+00
18.0	1.00E+00	2.45E+00
22.5	1.00E+00	2.45E+00
27.0	1.00E+00	2.45E+00
31.5	1.00E+00	2.45E+00
36.0	1.00E+00	2.45E+00
40.5	1.00E+00	2.45E+00
45.0	9.99E-01	2.45E+00
49.5	9.98E-01	2.45E+00
54.0	9.98E-01	2.44E+00
58.5	9.96E-01	2.44E+00
63.0	9.95E-01	2.44E+00
67.5	9.93E-01	2.43E+00
72.0	9.91E-01	2.43E+00
76.5	9.88E-01	2.42E+00
81.0	9.86E-01	2.41E+00
85.5	9.82E-01	2.41E+00
90.0	9.79E-01	2.40E+00

This sheet calculates the Level 3 remedial target for soils(mg/kg) or for pore water (mg/l), based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.By setting a long travel time (e.g. 9E99) it will give the steady state solution, which should always be used when calculating remedial targets.

The measured soil concentration as mg/kg or pore water concentration should be compared with the Level 3 remedial target to determine the need for further action.

Note if contaminant is not subject to first order degradation, then set half life as 9.9E+99.

Site being assessed:	Fassaroe - Site 3c
Completed by:	Adrian Green
Date:	#######
/ersion:	1



**mg/l** Domenico - Steady state

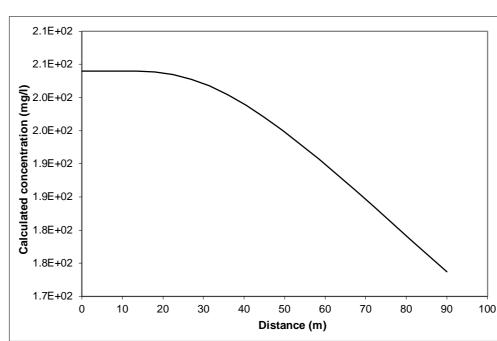
Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target. The recommended value for time when calculating the remedial target is 9.9E+99.

1.74E+02

Domenico - Steady state

Distance to compliance point

Concentration of contaminant at compliance point  $C_{ED}/C_0$ 



Note graph assumes plume disperses vertically in one direction only. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

This sheet calculates the Level 3 remedial target for groundwater, based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.

By setting a long travel time it will give the steady state solution, which should be used to calculate remedial targets.

The measured groundwater concentration should be compared with the Level 3 remedial target to determine the need for further action. Note if contaminant is not subject to first order degradation, then set half life as 9.0E+99.

This worksheet should be used if pollutant transport and degradation is best described by a first order reaction. If degradation is best desribed by an electron limited degradation such as oxidation by O2, NO3, SO4 etc than an alternative solution should be used

Site being assessed: Fassaroe - Site 3c Adrian Green ########

Calculated concentrations for distance-concentration graph

Domenico - Steady state From calculation sheet Concentration Distance

	mg/l
0	2.0E+02
4.5	2.04E+02
9.0	2.04E+02
13.5	2.04E+02
18.0	2.04E+02
22.5	2.03E+02
27.0	2.03E+02
31.5	2.02E+02
36.0	2.00E+02
40.5	1.99E+02
45.0	1.97E+02
49.5	1.95E+02
54.0	1.93E+02
58.5	1.91E+02
63.0	1.88E+02
67.5	1.86E+02
72.0	1.84E+02
76.5	1.81E+02
81.0	1.79E+02
85.5	1.76E+02
90.0	1.74E+02

17/05/2018, 16:21 Remedial targets worksheet v3.1 EA\_Remedial\_Targets\_Worksheet Site 3C\_UPDATE 2018Level3 Groundwater