

				Select the method of calculating the s	oil water
				Partition Co-efficient by using the pull d	own menu
				below	
				Calculate for non-polar organic che	micais
Contaminant	•	Anthracene	1		
Target concentration	υ _τ	0.0001	_mg/l		
Input Parameters	Variable	Value	Unit	Source of parameter value	
Standard entry			-		
Water filled soil porosity	θ_W	2.95E-01	fraction	Calculated using porosity calculator	This sheet calculates the Level 1 remedial target for soils(mg/kg) based on a
Air filled soil porosity	θa	2.20E-02	fraction	Calculated using porosity calculator	Three options are included for determining the partition coefficient.
Bulk density of soil zone material	ρ	1.90E+00	g/cm ³	Estimate based on typical density of made ground	The measured soil concentration as mg/kg should be compared with the Level 1
Henry's Law constant	Н	2.67E-03	dimensionless	See report	remedial target to determine the need for further action.
Entry if specify partition coefficient (option)			_		
Soil water partition coefficient	Kd		l/kg		
Entry for non-polar organic chemicals (option)					
Fraction of organic carbon (in soil)	foc	4.30E-02	fraction	Average from site contamination testing data	
Organic carbon partition coefficient	Koc	2.60E+04	l/kg	See report	
Entry for ionic organic chemicals (option)			_		
Sorption coefficient for neutral species	K _{oc,n}		l/kg		
Sorption coefficient for ionised species	K _{oc,i}		l/kg		
pH value	pН		pH units		
Acid dissociation constant	pKa				
Fraction of organic carbon (in soil)	foc		fraction		
Soil water partition coefficient used in Level Assessment	Kd	1.12E+03	l/kg	Calculated value	
Level 1 Remedial Target				_	Site being assessed: Preston and South Ribble FRMS
Level 1 Remedial Target		1.12E-01	ma/ka	(for comparison with soil analyses)	Completed by: Chris Contle

Level 1 Remedial Target	1.12E-01	mg/kg	(for comparison with soil analyses)	Completed by:	Chris Cantle
	or			Date:	12-Oct-20
	0.0001	mg/l	(for comparison with leachate test results)	Version:	1

Level 1 - Soil



12-Oct-20

ate:

/ersion:

				Select the method of calculating the s	oil water	
				Partition Co-efficient by using the pull d	lown menu	
				below		
				Calculate for non-polar organic che	micals	
Contaminant		Benzo(b)fluor	anthene			
Target concentration	Cτ	0.000017	mg/l			
Input Parameters	Variable	Value	Unit	Source of parameter value		
Standard entry			7		1-1-1-1-1-1-1-1	
Water filled soil porosity	θ_W	2.95E-01	fraction	Calculated using porosity calculator	selected target calcul	ates the Level 1 remedial target for solls(mg/kg) based on a concentration and theoretical calculation of soil water partitioning.
Air filled soil porosity	θa	2.20E-02	fraction	Calculated using porosity calculator	Three options are	e included for determining the partition coefficient.
Bulk density of soil zone material	ρ	1.90E+00	g/cm ³	Estimate based on typical density of made ground	The measured so	oil concentration as mg/kg should be compared with the Level 1
Henry's Law constant	Н	2.13E-05	dimensionless	See report	remedial target to	o determine the need for further action.
Entry if specify partition coefficient (option)			_		_	
Soil water partition coefficient	Kd		l/kg			
Entry for non-polar organic chemicals (option)			_		_	
Fraction of organic carbon (in soil)	foc	4.30E-02	fraction	Average from site contamination testing data		
Organic carbon partition coefficient	Koc	1.05E+05	l/kg	See report		
Entry for ionic organic chemicals (option)			_		_	
Sorption coefficient for neutral species	K _{oc,n}		l/kg]	
Sorption coefficient for ionised species	K _{oc,i}		l/kg			
pH value	pН		pH units			
Acid dissociation constant	pKa					
Fraction of organic carbon (in soil)	foc		fraction			
			-	-	-	
Soil water partition coefficient used in Level Assessment	Kd	4.50E+03	l/kg	Calculated value		
Level 1 Remedial Target					Site being assess	sed: Preston and South Ribble FRMS
Level 1 Remedial Target		7.65E-02	mg/kg	(for comparison with soil analyses)	Completed by:	Chris Cantle

(for comparison with leachate test results)

or

0.000017

mg/l



				Select the method of calculating the s	soil water
				below	iown menu
				Calculate for non-polar organic che	emicals
Contaminant		Benzene			
Target concentration	Cτ	0.01	mg/l	_	
Input Paramotors	Variable	Value	Unit	Source of noremotor value	
Standard ontry	variable	value	Unit	Source of parameter value	
Water filled soil porosity	θ	2 95E-01	fraction		This sheet calculates the Level 1 remedial target for soils(mg/kg) based on a
Air filled soil porosity	0 _W	2.00E-01	Iracuon		selected target concentration and theoretical calculation of soil water partitioning.
Bulk density of soil zone material	0a	1 90E+00	fraction	Calculated using porosity calculator	Three options are included for determining the partition coefficient.
	ч	2 33E-01	g/cm	Estimate based on typical density of made ground	remedial target to determine the need for further action.
Entry if specify partition coefficient (ontion)		2.002 01	aimensioniess	See report	
Soil water partition coefficient	Kd		1/1		1
Entry for non-nolar organic chemicals (ontion)	i tu		i/kg		1
Erection of organic carbon (in coll)	fac	4 205 02	fraction	Average from site contamination testing date	1
	luc Kaa	4.30E-02	liacuon	Average from site contamination testing data	-
Entry for jonic organic chemicals (option)	NUC	0.702+01	_I/Kg	See report	
Sorption coefficient for neutral species	К		1/1/4 0		1
Sorption coefficient for invited species	K .		l/kg		-
pH value	nH		I/Kg		-
Acid dissociation constant	pKa		pri units		-
Fraction of organic carbon (in soil)	foc		fraction		
	100		Indouon		1
Soil water partition coefficient used in Level Assessment	Kd	2.91E+00	l/kg	Calculated value	
Level 1 Remedial Target					Site being assessed: Preston and South Ribble FRMS

Level 1 Remedial Target	3.07E-02	mg/kg	(for comparison with soil analyses)	Completed by:	Chris Cantle
	or			Date:	12-Oct-20
	0.01	mg/l	(for comparison with leachate test results)	Version:	1



				Select the method of calculating the s	oil water
				Partition Co-efficient by using the pull d	lown menu
				below	
				Calculate for non-polar organic che	micals
Contaminant		Naphthalene			
Target concentration	Cτ	0.002	mg/l		
Input Parameters	Variable	Value	Unit	Source of parameter value	
Standard entry			-		
Water filled soil porosity	θ_W	2.95E-01	fraction	Calculated using porosity calculator	This sheet calculates the Level 1 remedial target for soils(mg/kg) based on a
Air filled soil porosity	θa	2.20E-02	fraction	Calculated using porosity calculator	Three options are included for determining the partition coefficient.
Bulk density of soil zone material	ρ	1.90E+00	g/cm ³	Estimate based on typical density of made ground	The measured soil concentration as mg/kg should be compared with the Level 1
Henry's Law constant	н	1.80E-02	dimensionless	See report	remedial target to determine the need for further action.
Entry if specify partition coefficient (option)			_		
Soil water partition coefficient	Kd		l/kg		
Entry for non-polar organic chemicals (option)			_		
Fraction of organic carbon (in soil)	foc	4.30E-02	fraction	Average from site contamination testing data	
Organic carbon partition coefficient	Koc	6.46E+02	l/kg	See report	
Entry for ionic organic chemicals (option)					
Sorption coefficient for neutral species	K _{oc,n}		l/kg		
Sorption coefficient for ionised species	K _{oc,i}		l/kg		
pH value	pН		pH units		
Acid dissociation constant	pKa				
Fraction of organic carbon (in soil)	foc		fraction		
Soil water partition coefficient used in Level Assessment	Kd	2.78E+01	l/kg	Calculated value	
Level 1 Remedial Target				-	Site being assessed: Preston and South Ribble FRMS

Level 1 Remedial Target 5.58E-02	mg/kg	(for comparison with soil analyses)	Completed by:	Chris Cantle
or			Date:	12-Oct-20
0.002	mg/l	(for comparison with leachate test results)	Version:	1



				Select the method of calculating the s Partition Co-efficient by using the pull d	oil water own menu
				below	
				Calculate for non-polar organic che	micals
Contaminant		Toluene	1		
Target concentration	Ст	0.074	mg/l		
Input Parameters	Variable	Value	Unit	Source of parameter value	
Standard entry			-		
Water filled soil porosity	θ_W	2.95E-01	fraction	Calculated using porosity calculator	This sheet calculates the Level 1 remedial target for soils(mg/kg) based on a
Air filled soil porosity	θa	2.20E-02	fraction	Calculated using porosity calculator	Three options are included for determining the partition coefficient.
Bulk density of soil zone material	ρ	1.90E+00	g/cm ³	Estimate based on typical density of made ground	The measured soil concentration as mg/kg should be compared with the Level 1
Henry's Law constant	н	2.76E-01	dimensionless	See report	remedial target to determine the need for further action.
Entry if specify partition coefficient (option)			-		
Soil water partition coefficient	Kd		l/kg		
Entry for non-polar organic chemicals (option)					•
Fraction of organic carbon (in soil)	foc	4.30E-02	fraction	Average from site contamination testing data	
Organic carbon partition coefficient	Koc	2.04E+02	l/kg	See report	
Entry for ionic organic chemicals (option)					
Sorption coefficient for neutral species	K _{oc,n}		l/kg		
Sorption coefficient for ionised species	K _{oc,i}		l/kg		
pH value	pН		pH units		
Acid dissociation constant	pKa				
Fraction of organic carbon (in soil)	foc		fraction		
Soil water partition coefficient used in Level Assessment	Kd	8.78E+00	l/kg	Calculated value	
Level 1 Remedial Target				_	Site being assessed: Preston and South Ribble FRMS

Level 1 Remedial Target	6.61E-01	mg/kg	(for comparison with soil analyses)	Completed by:	Chris Cantle
	or			Date:	12-Oct-20
	0.074	mg/l	(for comparison with leachate test results)	Version:	1