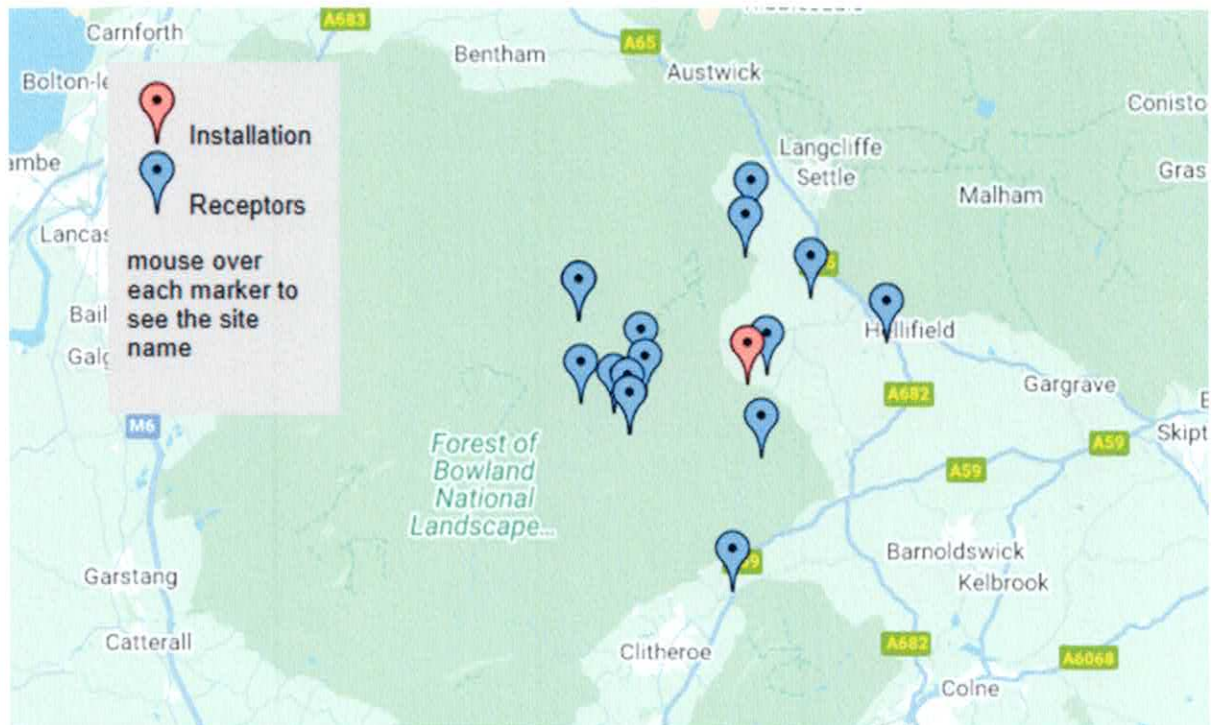


## SCAIL ASSESSMENT – Low Barn Manure Store



The manure store will be within a building and provide storage for 300 tonnes of fresh manure.

SCAIL input data is provided as Appendix A

Results are shown as Appendix B

The results show there will be no significant impact on protected sites.

Results data is attached separately as an Excel csv file

# SCAIL

Simple Calculation of Atmospheric Impact Limits



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## NOTICES

**October 20th 2025:** SCAIL's behaviour in conservative mode is altered when using coordinates under the fields "Installation Name" and "Source Name". Please do not use coordinates there, always use plain English names in these fields.

**September 9th 2025:** SCAIL background pollution maps for **Ireland** have been updated to the the **year 2021** in line with current APIS ([see announcement](#)).

**August 1st, 2025: Important Notice Regarding Meteorological Station Data** A meteorological station that was used to test the development version has made its way to the live version. We are sorry this happened, and we know this will affect some of the runs already performed in this area. **SCAIL runs that used the meteorological station 'BENT' (in Shropshire) need to be re-run**, as concentration and deposition estimates were underestimated. This only affects a very small area of England and Wales.

If a run used the BENT station your .INP file will mention "BENT,SFC" or "BENT,PFL" on the lines following "ME STARTING". Please re-run your input file and the correct met station will be picked up.

**We sincerely apologize for the inconvenience this has caused.** We are currently working on an improved version of SCAIL that will significantly enhance user experience.

----

**18th December 2024** SCAIL Agriculture now uses new emission factors and new housing types for both Pig and Poultry for the UK only (Ireland unaffected). Cattle emission factors are also unaffected. You will **not** be able to load or run an old input file and will have to select the new options and then save your inputs. The published emission factors are available on the following page [Ammonia emission factors for pig and poultry screening, modelling and reporting](#)

----

**June 11th, 2024:** SCAIL background pollution maps for the UK have been updated to the the **years 2020-2022** in line with current APIS ([see announcement](#)). We have also introduced a new Hybrid mode for users ([see User Guide](#) for details of how to use it).

Simple Calculation of Atmospheric Impact Limits from Agricultural Sources (SCAIL-Agriculture) is a screening tool for assessing the impact from pig and poultry farms on human health and on semi-natural areas like SSSIs and SACs. The model provides an estimate of the amount of acidity and nitrogen deposited from a farm as well as predictions of air concentrations of odour and PM10. These values can then be used to assess whether impact limits for human health or habitats are exceeded or not.

Information regarding the use of SCAIL-Agriculture as a screening tool and instructions for completing the assessment form are provided in the SCAIL-Agriculture User Guide. The User Guide also contains background information on regulatory requirements for the use of SCAIL-Agriculture, including instances where further detailed modelling of emissions will be required. **The relevant regulatory authority should be consulted for guidance regarding assessment requirements for planning and permitting purposes.**

[LOAD INPUT DATA](#)

Project Details	
Project Notes	Low Barn Manure Store
Project Run Mode	<input type="radio"/> Hybrid Met <input checked="" type="radio"/> Conservative Met <input type="radio"/> Realistic Met
Location Details	
Select Country	England
Installation Details	
Installation	1
Installation Name	Manure Store
Installation Location	378278,454058 <input type="radio"/> Landranger <input checked="" type="radio"/> x,y <input type="button" value="CHOOSE/VERIFY LOCATION"/>
Source Details	
Source	1
Source	<input type="radio"/> Pig <input type="radio"/> Poultry <input checked="" type="radio"/> Cattle <input type="radio"/> User defined emissions
New or Existing Source	New
Source Name	Manure Store
Source Location	Provides a link to GoogleMaps to check the location. 378278,454058 <input type="radio"/> Landranger <input checked="" type="radio"/> x,y <input type="button" value="VERIFY LOCATION"/>

Source Type [?](#) Litter / Manure storage

Type [?](#) Farmyard manure storage

Details [?](#) Stacked heap

Tonnes Fresh Manure (t) [?](#) 300

Area of Storage (m2) [?](#) 150

Total emissions [?](#)

Pollutant	Source Emissions	Running total of all emission sources	Units
NH <sub>3</sub> :	97	0	(kg)
PM <sub>10</sub> :	0	0	(kg)
Odour:	0	0	(kOu)

[?](#)

**Designated Site details:**

Search Radius [?](#) 10 km  [?](#)

No. of Designated Sites [?](#) 16 found  [?](#)

Site No.	Name	Distance(km)	Designation	Country	Easting	Northing
1	White Moss	0.97	SSSI	ENGLAND	379153	454477
2	New Ing Meadow	3.444	SSSI	ENGLAND	378815	450656
3	Standridge Farm Pasture	4.854	SSSI	ENGLAND	373470	453398
4	River Ribble (Long Preston Deepes)	4.967	SSSI	ENGLAND	381264	458027
5	Barn Gill Meadow	5.036	SSSI	ENGLAND	373283	454693
6	Field Head Meadow	5.781	SSSI	ENGLAND	372696	452555
7	Hesley Moss	5.936	SSSI	ENGLAND	378169	459993
8	North Pennine Dales Meadows	5.964	SAC	ENGLAND	372771	451769
9	Langcliff Cross Meadow	5.964	SSSI	ENGLAND	372771	451769
10	Bell Sykes Meadows	6.434	SSSI	ENGLAND	371988	452704
11	Pan Beck Fen	6.735	SSSI	ENGLAND	384734	455975
12	Cocket Moss	7.461	SSSI	ENGLAND	378470	461517
13	Myttons Meadows	7.835	SSSI	ENGLAND	370497	453139
14	Bowland Fells	8.378	SSSI	ENGLAND	370458	457066
15	Bowland Fells	8.378	SPA	ENGLAND	370458	457066
16	Clitheroe Knoll Reefs	9.55	SSSI	ENGLAND	377435	444545

User specified site

Site Name

Site Location  Landranger x,y  [?](#)

Habitat within site   [?](#)

**Human Health Receptor Details**

Receptor   PM<sub>10</sub> percentile Annual mean  [?](#)

Receptor Name

# SCAIL

Simple Calculation of Atmospheric Impact Limits



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### Content Specific Help Text

#### Site Information White Moss (SSSI) ▼ ?

Country:	ENGLAND
Site Name:	White Moss
Site Code: <span>?</span>	1002735
Designation Status: <span>?</span>	SSSI
Distance from Installation (m): <span>?</span>	970
Receptor Type:	Habitat
Grid Reference:	379153,454477
Met Site: <span>?</span>	HIGH
Run Mode: <span>?</span>	Conservative
PM <sub>10</sub> Percentile: <span>?</span>	Average

#### Installation Information ?

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0.03	0.17	0.012	-	-

#### Total Depositions/Concentrations and Exceedances ?

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.03326	0.17	0.012	-	-
Background concentration at receptor edge <span>?</span>	1.57	20.39	1.649 (N: 1.456 S: 0.193)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <span>?</span></b>	1.6	20.56	1.66	-	-
Environmental Assessment Level or Critical Load / Level <span>?</span>	Lower: 1 Upper: 3 <span>?</span>	5.0  Erica Tetralix - Sphagnum Papillosum Raised And Blanket Mire	maxN: 0.732 maxS: 0.411 minN: 0.321 Erica Tetralix - Sphagnum Papillosum Raised And Blanket Mire	-	-
ALTERNATIVE CRITICAL LOAD INFO					
SEE OWN THRESHOLDS?					
% of relevant standard PC <span>?</span>	Lower: 3% Upper: 1%	3%	0%	-	-
% of relevant standard PEC <span>?</span>	Lower: 160% Upper: 53%	411%	225%	-	-
<b>EXCEEDANCE <span>?</span></b>	Lower: 0.60 Upper: No exceedance	15.56	0.93	-	-

#### Project Notes

Low Barn Manure Store

# SCAIL

Simple Calculation of Atmospheric Impact Limits



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### Content Specific Help Text

Site Information **New Ing Meadow (SSSI)** ▼ ?

Country:	ENGLAND
Site Name:	New Ing Meadow
Site Code: <span>?</span>	1006296
Designation Status: <span>?</span>	SSSI
Distance from Installation (m): <span>?</span>	3444
Receptor Type:	Habitat
Grid Reference:	378815,450656
Met Site: <span>?</span>	HIGH
Run Mode: <span>?</span>	Conservative
PM <sub>10</sub> Percentile: <span>?</span>	Average

Installation Information ?

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0.02	0.001	-	-

Total Depositions/Concentrations and Exceedances ?

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00409	0.02	0.002	-	-
Background concentration at receptor edge <span>?</span>	1.66	19.95	1.612 (N: 1.425 S: 0.187)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC)</b> <span>?</span>	1.66	19.97	1.61	-	-
Environmental Assessment Level or Critical Load / Level <span>?</span>	Lower: 1 Upper: 3 <span>?</span>	10.0  Anthoxanthum odoratum - Geranium sylvaticum Grassland	maxN: 5.071 maxS: 4.000 minN: 1.071 Anthoxanthum odoratum - Geranium sylvaticum Grassland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC <span>?</span>	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC <span>?</span>	Lower: 166% Upper: 55%	200%	32%	-	-
<b>EXCEEDANCE</b> <span>?</span>	Lower: 0.66 Upper: No exceedance	9.97	-3.46	-	-

Project Notes

# SCAIL

Simple Calculation of Atmospheric Impact Limits



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### Content Specific Help Text

#### Site Information Standridge Farm Pasture (SSSI) ▼ [?](#)

Country:	ENGLAND
Site Name:	Standridge Farm Pasture
Site Code: <a href="#">?</a>	2000206
Designation Status: <a href="#">?</a>	SSSI
Distance from Installation (m): <a href="#">?</a>	4854
Receptor Type:	Habitat
Grid Reference:	373470,453398
Met Site: <a href="#">?</a>	HIGH
Run Mode: <a href="#">?</a>	Conservative
PM <sub>10</sub> Percentile: <a href="#">?</a>	Average

#### Installation Information [?](#)

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0.01	0.001	-	-

#### Total Depositions/Concentrations and Exceedances [?](#)

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00234	0.01	0.001	-	-
Background concentration at receptor edge <a href="#">?</a>	1.37	20.96	1.720 (N: 1.497 S: 0.223)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <a href="#">?</a></b>	1.37	20.97	1.72	-	-
Environmental Assessment Level or Critical Load / Level <a href="#">?</a>	Lower: 1 Upper: 3 <a href="#">?</a>	10.0  Anthoxanthum odoratum - Geranium sylvaticum Grassland	maxN: 5.214 maxS: 4.000 minN: 1.214 Anthoxanthum odoratum - Geranium sylvaticum Grassland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE ONLY THRESHOLDS?					
% of relevant standard PC <a href="#">?</a>	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC <a href="#">?</a>	Lower: 137% Upper: 46%	210%	33%	-	-
<b>EXCEEDANCE <a href="#">?</a></b>	Lower: 0.37 Upper: No exceedance	10.97	-3.49	-	-

#### Project Notes

# SCAIL

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### Content Specific Help Text

**Site Information** River Ribble (Long Preston Deeps) (SSSI) ▼ ?

Country:	ENGLAND
Site Name:	River Ribble (Long Preston Deeps)
Site Code: <span>?</span>	1003025
Designation Status: <span>?</span>	SSSI
Distance from Installation (m): <span>?</span>	4967
Receptor Type:	Habitat
Grid Reference:	381264,458027
Met Site: <span>?</span>	HIGH
Run Mode: <span>?</span>	Conservative
PM <sub>10</sub> Percentile: <span>?</span>	Average

### Installation Information ?

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0.01	0.001	-	-

### Total Depositions/Concentrations and Exceedances ?

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00226	0.01	0.001	-	-
Background concentration at receptor edge <span>?</span>	1.55	19.66	1.590 (N: 1.404 S: 0.186)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <span>?</span></b>	1.55	19.67	1.59	-	-
Environmental Assessment Level or Critical Load / Level <span>?</span>	Lower: 1 Upper: 3 <span>?</span>	15.0  Lowland fen without open water	No sensitive habitat or species at this site	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC <span>?</span>	Lower: 0% Upper: 0%	0%	n/a	-	-
% of relevant standard PEC <span>?</span>	Lower: 155% Upper: 52%	131%	n/a	-	-
<b>EXCEEDANCE <span>?</span></b>	Lower: 0.55 Upper: No exceedance	4.67	n/a	-	-

### Project Notes

Low Barn Manure Store

[SAVE RESULTS](#) ? [SAVE INPUTS](#) ?

[Use this Back button. Do not use the browser back button - you could lose all inputs!]

[BACK](#) ?

# SCAIL

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### Content Specific Help Text

<b>Site Information</b>	Barn Gill Meadow (SSSI)	▼ ⓘ
Country:	ENGLAND	
Site Name:	Barn Gill Meadow	
Site Code: ⓘ	2000039	
Designation Status: ⓘ	SSSI	
Distance from Installation (m): ⓘ	5036	
Receptor Type:	Habitat	
Grid Reference:	373283,454693	
Met Site: ⓘ	HIGH	
Run Mode: ⓘ	Conservative	
PM <sub>10</sub> Percentile: ⓘ	Average	

### Installation Information ⓘ

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0.01	0.001	-	-

### Total Depositions/Concentrations and Exceedances ⓘ

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00221	0.01	0.001	-	-
Background concentration at receptor edge ⓘ	1.29	21.12	1.737 (N: 1.509 S: 0.229)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) ⓘ</b>	1.29	21.13	1.74	-	-
Environmental Assessment Level or Critical Load / Level ⓘ	Lower: 1 Upper: 3 ⓘ	10.0  Alopecurus pratensis - Sanguisorba officinalis Grassland	maxN: 5.071 maxS: 4.000 minN: 1.071 Alopecurus pratensis - Sanguisorba officinalis Grassland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC ⓘ	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC ⓘ	Lower: 129% Upper: 43%	211%	34%	-	-
<b>EXCEEDANCE ⓘ</b>	Lower: 0.29 Upper: No exceedance	11.13	-3.33	-	-

### Project Notes

Low Barn Manure Store

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### Content Specific Help Text

#### Site Information Field Head Meadow (SSSI) ▼ [?](#)

Country:	ENGLAND
Site Name:	Field Head Meadow
Site Code: <a href="#">?</a>	2000349
Designation Status: <a href="#">?</a>	SSSI
Distance from Installation (m): <a href="#">?</a>	5781
Receptor Type:	Habitat
Grid Reference:	372696,452555
Met Site: <a href="#">?</a>	HIGH
Run Mode: <a href="#">?</a>	Conservative
PM <sub>10</sub> Percentile: <a href="#">?</a>	Average

#### Installation Information [?](#)

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0.01	0.001	-	-

#### Total Depositions/Concentrations and Exceedances [?](#)

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00176	0.01	0.001	-	-
Background concentration at receptor edge <a href="#">?</a>	1.40	21.05	1.728 (N: 1.504 S: 0.225)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <a href="#">?</a></b>	1.4	21.06	1.73	-	-
Environmental Assessment Level or Critical Load / Level <a href="#">?</a>	Lower: 1 Upper: 3 <a href="#">?</a>	10.0  Anthoxanthum odoratum - Geranium sylvaticum Grassland	maxN: 5.071 maxS: 4.000 minN: 1.071 Anthoxanthum odoratum - Geranium sylvaticum Grassland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
<input type="checkbox"/> USE OWN THRESHOLDS?					
% of relevant standard PC <a href="#">?</a>	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC <a href="#">?</a>	Lower: 140% Upper: 47%	211%	34%	-	-
<b>EXCEEDANCE <a href="#">?</a></b>	Lower: 0.40 Upper: No exceedance	11.06	-3.34	-	-

#### Project Notes

# SCAIL

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### Content Specific Help Text

Site Information **Hesley Moss (SSSI)** ▼ ?

Country: ENGLAND  
 Site Name: Hesley Moss  
 Site Code: ? 1006581  
 Designation Status: ? SSSI  
 Distance from Installation (m): ? 5936  
 Receptor Type: Habitat  
 Grid Reference: 378169,459993  
 Met Site: ? HIGH  
 Run Mode: ? Conservative  
 PM<sub>10</sub> Percentile: ? Average

### Installation Information ?

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0.01	0.001	-	-

### Total Depositions/Concentrations and Exceedances ?

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00168	0.01	0.001	-	-
Background concentration at receptor edge <span>?</span>	1.40	20.19	1.646 (N: 1.442 S: 0.204)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <span>?</span></b>	1.4	20.2	1.65	-	-
Environmental Assessment Level or Critical Load / Level <span>?</span>	Lower: 1 Upper: 3 <span>?</span>	5.0  Erica Tetralix - Sphagnum Papillosum Raised And Blanket Mire	maxN: 0.815 maxS: 0.494 minN: 0.321 Erica Tetralix - Sphagnum Papillosum Raised And Blanket Mire	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC <span>?</span>	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC <span>?</span>	Lower: 140% Upper: 47%	404%	202%	-	-
<b>EXCEEDANCE <span>?</span></b>	Lower: 0.40 Upper: No exceedance	15.20	0.83	-	-

### Project Notes

Low Barn Manure Store

# SCAIL

Simple Calculation of Atmospheric Impact Limits



## Results

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### Content Specific Help Text

Site Information North Pennine Dales Meadows (SAC) ▼ ?

Country:	ENGLAND
Site Name:	North Pennine Dales Meadows
Site Code: <span>?</span>	UK0014775
Designation Status: <span>?</span>	SAC
Distance from Installation (m): <span>?</span>	5964
Receptor Type:	Habitat
Grid Reference:	372771,451769
Met Site: <span>?</span>	HIGH
Run Mode: <span>?</span>	Conservative
PM <sub>10</sub> Percentile: <span>?</span>	Average

### Installation Information ?

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0.01	0.001	-	-

### Total Depositions/Concentrations and Exceedances ?

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00167	0.01	0.001	-	-
Background concentration at receptor edge <span>?</span>	1.33	21.50	1.765 (N: 1.536 S: 0.229)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <span>?</span></b>	1.33	21.51	1.77	-	-
Environmental Assessment Level or Critical Load / Level <span>?</span>	Lower: 1 Upper: 3 <span>?</span>	5.0  Limestone pavements	maxN: 4.856 maxS: 4.000 minN: 0.856 Limestone pavements	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC <span>?</span>	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC <span>?</span>	Lower: 133% Upper: 44%	430%	36%	-	-
<b>EXCEEDANCE <span>?</span></b>	Lower: 0.33 Upper: No exceedance	16.51	-3.09	-	-

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### Content Specific Help Text

Site Information Langcliff Cross Meadow (SSSI) ▼ ?

Country: ENGLAND  
 Site Name: Langcliff Cross Meadow  
 Site Code: ? 1003896  
 Designation Status: ? SSSI  
 Distance from Installation (m): ? 5964  
 Receptor Type: Habitat  
 Grid Reference: 372771,451769  
 Met Site: ? HIGH  
 Run Mode: ? Conservative  
 PM<sub>10</sub> Percentile: ? Average

### Installation Information ?

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0.01	0.001	-	-

### Total Depositions/Concentrations and Exceedances ?

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00167	0.01	0.001	-	-
Background concentration at receptor edge <span>?</span>	1.33	21.50	1.765 (N: 1.536 S: 0.229)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <span>?</span></b>	1.33	21.51	1.77	-	-
Environmental Assessment Level or Critical Load / Level <span>?</span>	Lower: 1 Upper: 3 <span>?</span>	10.0  Anthoxanthum odoratum - Geranium sylvaticum Grassland	maxN: 5.071 maxS: 4.000 minN: 1.071 Anthoxanthum odoratum - Geranium sylvaticum Grassland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE ONLY THRESHOLDS?					
% of relevant standard PC <span>?</span>	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC <span>?</span>	Lower: 133% Upper: 44%	215%	35%	-	-
<b>EXCEEDANCE <span>?</span></b>	Lower: 0.33 Upper: No exceedance	11.51	-3.30	-	-

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### Content Specific Help Text

#### Site Information Bell Sykes Meadows (SSSI) ▼ ?

Country:	ENGLAND
Site Name:	Bell Sykes Meadows
Site Code: <span>?</span>	2000350
Designation Status: <span>?</span>	SSSI
Distance from Installation (m): <span>?</span>	6434
Receptor Type:	Habitat
Grid Reference:	371988,452704
Met Site: <span>?</span>	HIGH
Run Mode: <span>?</span>	Conservative
PM <sub>10</sub> Percentile: <span>?</span>	Average

#### Installation Information ?

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0.01	0.001	-	-

#### Total Depositions/Concentrations and Exceedances ?

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00147	0.01	0.001	-	-
Background concentration at receptor edge <span>?</span>	1.38	21.14	1.739 (N: 1.510 S: 0.229)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <span>?</span></b>	1.38	21.15	1.74	-	-
Environmental Assessment Level or Critical Load / Level <span>?</span>	Lower: 1 Upper: 3 <span>?</span>	10.0  Alopecurus pratensis - Sanguisorba officinalis Grassland	maxN: 5.071 maxS: 4.000 minN: 1.071 Alopecurus pratensis - Sanguisorba officinalis Grassland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC <span>?</span>	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC <span>?</span>	Lower: 138% Upper: 46%	212%	34%	-	-
<b>EXCEEDANCE <span>?</span></b>	Lower: 0.38 Upper: No exceedance	11.15	-3.33	-	-

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### Content Specific Help Text

Site Information Pan Beck Fen (SSSI) ▼ ?

Country: ENGLAND  
 Site Name: Pan Beck Fen  
 Site Code: ? 1002971  
 Designation Status: ? SSSI  
 Distance from Installation (m): ? 6735  
 Receptor Type: Habitat  
 Grid Reference: 384734,455975  
 Met Site: ? HIGH  
 Run Mode: ? Conservative  
 PM<sub>10</sub> Percentile: ? Average

### Installation Information ?

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0.01	0	-	-

### Total Depositions/Concentrations and Exceedances ?

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00137	0.01	0.001	-	-
Background concentration at receptor edge <span>?</span>	1.81	20.39	1.637 (N: 1.456 S: 0.180)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <span>?</span></b>	1.81	20.4	1.64	-	-
Environmental Assessment Level or Critical Load / Level <span>?</span>	Lower: 1 Upper: 3 <span>?</span>	15.0  Carex Dioica - Pinguicula Vulgaris Mire	No sensitive habitat or species at this site	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC <span>?</span>	Lower: 0% Upper: 0%	0%	n/a	-	-
% of relevant standard PEC <span>?</span>	Lower: 181% Upper: 60%	136%	n/a	-	-
<b>EXCEEDANCE <span>?</span></b>	Lower: 0.81 Upper: No exceedance	5.40	n/a	-	-

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### Content Specific Help Text

#### Site Information Cocket Moss (SSSI) ▼ ?

Country:	ENGLAND
Site Name:	Cocket Moss
Site Code: <span>?</span>	1001852
Designation Status: <span>?</span>	SSSI
Distance from Installation (m): <span>?</span>	7461
Receptor Type:	Habitat
Grid Reference:	378470,461517
Met Site: <span>?</span>	HIGH
Run Mode: <span>?</span>	Conservative
PM <sub>10</sub> Percentile: <span>?</span>	Average

#### Installation Information ?

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0.01	0	-	-

#### Total Depositions/Concentrations and Exceedances ?

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00116	0.01	0.000	-	-
Background concentration at receptor edge <span>?</span>	1.30	19.24	1.568 (N: 1.374 S: 0.194)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <span>?</span></b>	1.3	19.25	1.57	-	-
Environmental Assessment Level or Critical Load / Level <span>?</span>	Lower: 1 Upper: 3 <span>?</span>	5.0  Carex Rostrata - Sphagnum Recurvum (Fallax) Mire	maxN: 0.811 maxS: 0.490 minN: 0.321 Carex Rostrata - Sphagnum Recurvum (Fallax) Mire	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC <span>?</span>	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC <span>?</span>	Lower: 130% Upper: 43%	385%	194%	-	-
<b>EXCEEDANCE <span>?</span></b>	Lower: 0.30 Upper: No exceedance	14.25	0.76	-	-

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### Content Specific Help Text

#### Site Information Myttons Meadows (SSSI) ▼ ?

Country:	ENGLAND
Site Name:	Myttons Meadows
Site Code: <span>?</span>	1002614
Designation Status: <span>?</span>	SSSI
Distance from Installation (m): <span>?</span>	7835
Receptor Type:	Habitat
Grid Reference:	370497,453139
Met Site: <span>?</span>	HIGH
Run Mode: <span>?</span>	Conservative
PM <sub>10</sub> Percentile: <span>?</span>	Average

#### Installation Information ?

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0.01	0	-	-

#### Total Depositions/Concentrations and Exceedances ?

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00107	0.01	0.000	-	-
Background concentration at receptor edge <span>?</span>	1.33	21.40	1.768 (N: 1.529 S: 0.239)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <span>?</span></b>	1.33	21.41	1.77	-	-
Environmental Assessment Level or Critical Load / Level <span>?</span>	Lower: 1 Upper: 3 <span>?</span>	10.0  Anthoxanthum odoratum - Geranium sylvaticum Grassland	maxN: 5.071 maxS: 4.000 minN: 1.071 Anthoxanthum odoratum - Geranium sylvaticum Grassland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC <span>?</span>	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC <span>?</span>	Lower: 133% Upper: 44%	214%	35%	-	-
<b>EXCEEDANCE <span>?</span></b>	Lower: 0.33 Upper: No exceedance	11.41	-3.30	-	-

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### Content Specific Help Text

#### Site Information Bowland Fells (SSSI) ▼ [?](#)

Country:	ENGLAND
Site Name:	Bowland Fells
Site Code: <a href="#">?</a>	1005542
Designation Status: <a href="#">?</a>	SSSI
Distance from Installation (m): <a href="#">?</a>	8378
Receptor Type:	Habitat
Grid Reference:	370458,457066
Met Site: <a href="#">?</a>	HIGH
Run Mode: <a href="#">?</a>	Conservative
PM <sub>10</sub> Percentile: <a href="#">?</a>	Average

#### Installation Information [?](#)

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0	0	-	-

#### Total Depositions/Concentrations and Exceedances [?](#)

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00096	0.01	0.000	-	-
Background concentration at receptor edge <a href="#">?</a>	1.02	22.13	1.844 (N: 1.581 S: 0.264)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <a href="#">?</a></b>	1.02	22.14	1.84	-	-
Environmental Assessment Level or Critical Load / Level <a href="#">?</a>	Lower: 1 Upper: 3 <a href="#">?</a>	5.0  Calluna Vulgaris - Deschampsia Flexuosa Heath	maxN: 0.654 maxS: 0.334 minN: 0.321 Calluna Vulgaris - Eriophorum Vaginatatum Blanket Mire	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC <a href="#">?</a>	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC <a href="#">?</a>	Lower: 102% Upper: 34%	443%	281%	-	-
<b>EXCEEDANCE <a href="#">?</a></b>	Lower: 0.02 Upper: No exceedance	17.14	1.19	-	-

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### Content Specific Help Text

#### Site Information Bowland Fells (SPA) ▼ [?](#)

Country:	ENGLAND
Site Name:	Bowland Fells
Site Code: <a href="#">?</a>	UK9005151
Designation Status: <a href="#">?</a>	SPA
Distance from Installation (m): <a href="#">?</a>	8378
Receptor Type:	Habitat
Grid Reference:	370458,457066
Met Site: <a href="#">?</a>	HIGH
Run Mode: <a href="#">?</a>	Conservative
PM <sub>10</sub> Percentile: <a href="#">?</a>	Average

#### Installation Information [?](#)

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0	0	-	-

#### Total Depositions/Concentrations and Exceedances [?](#)

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00096	0.01	0.000	-	-
Background concentration at receptor edge <a href="#">?</a>	1.02	22.13	1.844 (N: 1.581 S: 0.264)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <a href="#">?</a></b>	1.02	22.14	1.84	-	-
Environmental Assessment Level or Critical Load / Level <a href="#">?</a>	Lower: 1 Upper: 3 <a href="#">?</a>	5.0  Circus cyaneus	maxN: 0.822 maxS: 0.180 minN: 0.642 Circus cyaneus	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC <a href="#">?</a>	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC <a href="#">?</a>	Lower: 102% Upper: 34%	443%	224%	-	-
<b>EXCEEDANCE <a href="#">?</a></b>	Lower: 0.02 Upper: No exceedance	17.14	1.02	-	-

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### Content Specific Help Text

Site Information Clitheroe Knoll Reefs (SSSI) ▼ ?

Country: ENGLAND  
 Site Name: Clitheroe Knoll Reefs  
 Site Code: ? 1000894  
 Designation Status: ? SSSI  
 Distance from Installation (m): ? 9550  
 Receptor Type: Habitat  
 Grid Reference: 377435,444545  
 Met Site: ? HIGH  
 Run Mode: ? Conservative  
 PM<sub>10</sub> Percentile: ? Average

### Installation Information ?

No.	Name	No. of sources	No. of new sources	PM <sub>10</sub> (t/a)	NH <sub>3</sub> (t/a)	Odour (kOu/a)	Conc NH <sub>3</sub> (µg/m <sup>3</sup> )	Dep N (kg/ha/yr)	Dep Acid (kEq H <sup>+</sup> /ha/yr)	Conc PM <sub>10</sub> (µg/m <sup>3</sup> )	Conc Odour (Ou/m <sup>3</sup> )
1	Manure Store	1	1	-	0.097	-	0	0	0	-	-

### Total Depositions/Concentrations and Exceedances ?

Concentrations/Depositions and Critical Loads/Levels	NH <sub>3</sub> (µg/m <sup>3</sup> )	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H <sup>+</sup> /ha/yr)	PM <sub>10</sub> (µg/m <sup>3</sup> )	Odour (Ou/m <sup>3</sup> )
Process Contribution (PC) at receptor edge	0.00078	0.00	0.000	-	-
Background concentration at receptor edge <span>?</span>	1.65	19.91	1.620 (N: 1.422 S: 0.197)	-	-
<b>Predicted Environmental Concentration/Deposition (PEC) <span>?</span></b>	1.65	19.91	1.62	-	-
Environmental Assessment Level or Critical Load / Level <span>?</span>	Lower: 1 Upper: 3 <span>?</span>	No sensitive habitat or species at this site	No sensitive habitat or species at this site	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC <span>?</span>	Lower: 0% Upper: 0%	n/a	n/a	-	-
% of relevant standard PEC <span>?</span>	Lower: 165% Upper: 55%	n/a	n/a	-	-
<b>EXCEEDANCE <span>?</span></b>	Lower: 0.65 Upper: No exceedance	n/a	n/a	-	-

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