

SCAIL ASSESSMENT – Raygill Moss Farm – Proposed Slurry Lagoon

Natural England request further information regarding the atmospheric impacts of a proposed slurry lagoon at Raygill Moss Farm.

The lagoon is required to allow 6 months slurry storage.

Cattle numbers will not increase.

SCAIL input data is provided as Appendix A

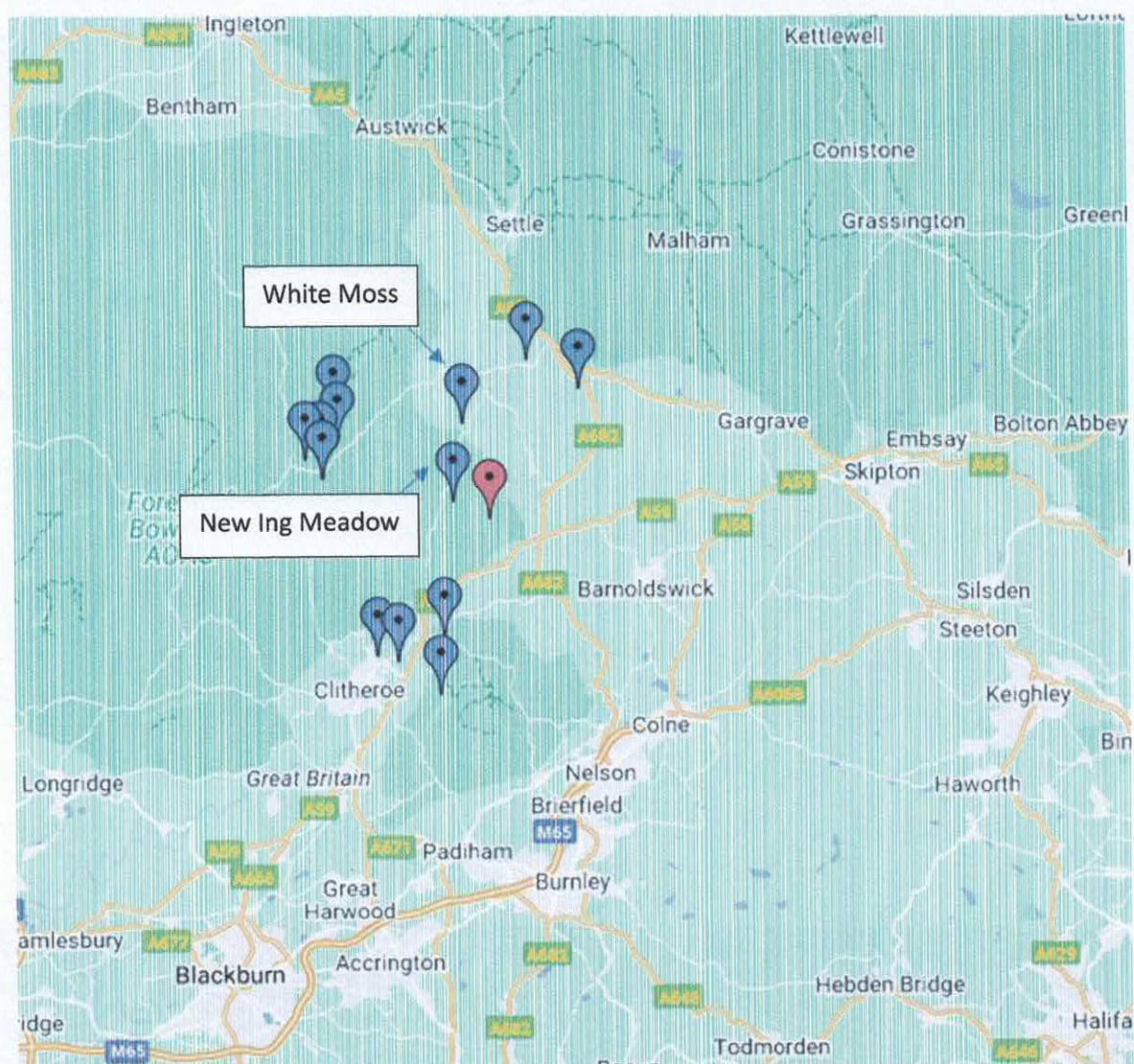
Individual Site Data is shown as Appendix B

Results data is attached separately as an Excel File

No site recorded exceedance levels for NH_3 above the upper exceedance level

The applicant will apply for a Slurry Infrastructure Grant for a floating cover.

The prevailing wind (W – SW) directs deposition away from the closest sites (New Ing Meadow and White Moss)



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We have made a number of improvements to the SCAIL for agriculture tool. We have added cattle as a livestock option to cover their emissions. These are set out for housing, landspreading, manure/slurry storage, grazing and outdoor yards. Users can also add their own emissions. The layout should be simpler to use with larger font and input boxes. If you experience any issues then please [Contact Us](#)

October 18th 2021: SCAIL background pollution maps for Ireland have been updated to the the year 2018.

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.**

INPUT DATA

[LOAD INPUT DATA](#)

Project Details

Project Notes ⓘ Slurry Lagoon Raygill Moss Farm

Project Run Mode ⓘ ☒ Conservative Met ☐ Realistic Met

Location Details

Select Country ⓘ England ▼

Installation Details

Installation ⓘ 1 ▼

Installation Name ⓘ Lagoon

Installation Location ⓘ 380590,449696 ☐ Landranger ☒ x,y[CHOOSE/VERIFY LOCATION](#) ⓘ

Source Details

Source ⓘ 1 ▼ ✕

Source ⓘ ☐ Pig ☐ Poultry ☒ Cattle ☐ User defined emissions

New or Existing Source ⓘ New ▼

Source Name ⓘ Lagoon

Source Location ⓘ Provides a link to GoogleMaps to check the location.

380590,449696 ☐ Landranger ☒ x,y[VERIFY LOCATION](#) ⓘ

Source Type ⓘ Litter / Manure storage ▼

Type ⓘ Slurry storage ▼

Details ⓘ Tank - with crust ▼

Tonnes Fresh Manure (t) ⓘ 3080

Area of Storage (m2) ⓘ 1200

Number of storage days/year ⓘ 180

Total emissions ⓘ

Pollutant	Source Emissions	Running total of all emission sources	Units
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NH₃: 454 454 (kg)
PM₁₀: 0 0 (kg)
Odour: 0 0 (kOu)

GET EMISSIONS VALUES ⓘ

Designated Site details:

Search Radius ⓘ 10 km

RUN RECEPTOR SEARCH ⓘ

No. of Designated Sites ⓘ 14

VERIFY RECEPTOR LOCATIONS ⓘ

Site No.	Name	Distance(km)	Designation	Country	Easting	Northing
1	New Ing Meadow	1.91	SSSI	undefined	378868.4	450523.6
2	White Moss	4.721	SSSI	undefined	379351.2	454251.2
3	Clitheroe Knoll Reefs	5.921	SSSI	undefined	378424.3	444185
4	Pan Beck Fen	7.433	SSSI	undefined	384838.7	455795.1
5	River Ribble: Long Preston Deepes	7.723	SSSI	undefined	382418.3	457199.2
6	Standridge Farm Pasture	8.028	SSSI	undefined	373466.5	453397.9
7	Salthill & Bellmanpark Quarries	8.039	SSSI	undefined	376222.1	442947
8	Langcliff Cross Meadow	8.089	SSSI	undefined	372743.1	451661.3
9	North Pennine Dales Meadows	8.091	SAC	undefined	372730.6	451618.8
10	Coplow Quarry	8.395	SSSI	undefined	375237.6	443229.1
11	Field Head Meadow	8.396	SSSI	undefined	372690.7	452542.6
12	Little Mearley Clough	8.616	SSSI	undefined	378223.3	441411.5
13	Barn Gill Meadow	8.847	SSSI	undefined	373266.3	454659.2
14	Bell Sykes Meadows	9.079	SSSI	undefined	371957.1	452507.3

User specified site

Select ▼ ⓘ Add site

Site Name

Site Location

Landranger x,y

VERIFY LOCATION ⓘ

Habitat within site

please select... ▼

CHECK BACKGROUND LEVELS ⓘ

Human Health Receptor Details

Receptor

Select ▼ ⓘ Add Receptor

PM₁₀ percentile

Annual Average ▼ ⓘ

Receptor Name

Receptor Location

Landranger x,y

VERIFY LOCATION ⓘ

CHECK BACKGROUND PM10 LEVELS ⓘ

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CLEAR FORM

CALCULATE

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Content Specific Help Text

Site Information New Ing Meadow (SSSI)

Region:	England
Site Name:	New Ing Meadow
Site Code:	3734
Designation Status:	SSSI
Distance from Installation (m):	1910
Receptor Type:	Habitat
Grid Reference:	378868.4,450523.6
Met Site:	CROS
Run Mode:	Conservative
PM ₁₀ Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H ⁺ /ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Lagoon	1	1	-	0.45	-	0.01	0.06	0.004	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H ⁺ /ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.01134	0.06	0.004	-	-
Background concentration at receptor edge	2.11	28.56	2.37 (N:2.04 S:0.33)	-	-
Predicted Environmental Concentration/Deposition (PEC)	2.12	28.62	2.37	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3 	10.0 Neutral grassland upland	maxN: 5.07 maxS: 4.00 minN: 1.07 Neutral grassland upland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 1% Upper: 0%	1%	0%	-	-
% of relevant standard PEC	Lower: 212% Upper: 71%	286%	47%	-	-
EXCEEDANCE	Lower: 1.12 Upper: No exceedance	18.62	-2.70	-	-

Project Notes

Slurry Lagoon Raygill Moss Farm

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Content Specific Help Text

Site Information White Moss (SSSI)

Region:	England
Site Name:	White Moss
Site Code:	3409
Designation Status:	SSSI
Distance from Installation (m):	4721
Receptor Type:	Habitat
Grid Reference:	379351.2,454251.2
Met Site:	CROS
Run Mode:	Conservative
PM ₁₀ Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H ⁺ /ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Lagoon	1	1	-	0.45	-	0	0.01	0.001	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H ⁺ /ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.00249	0.01	0.001	-	-
Background concentration at receptor edge	2.11	28.56	2.37 (N:2.04 S:0.33)	-	-
Predicted Environmental Concentration/Deposition (PEC) 	2.11	28.57	2.37	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3 	5.0 Fen marsh and swamp - lowland	maxN: 2.07 maxS: 1.63 minN: 0.44 Fen marsh and swamp - lowland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC	Lower: 211% Upper: 70%	571%	114%	-	-
EXCEEDANCE 	Lower: 1.11 Upper: No exceedance	23.57	0.30	-	-

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Content Specific Help Text

Site Information Clitheroe Knoll Reefs (SSSI)

Region: England
 Site Name: Clitheroe Knoll Reefs
 Site Code: 3447
 Designation Status: SSSI
 Distance from Installation (m): 5921
 Receptor Type: Habitat
 Grid Reference: 378424.3,444185
 Met Site: CROS
 Run Mode: Conservative
 PM₁₀ Percentile: Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H ⁺ /ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Lagoon	1	1	-	0.45	-	0	0.01	0.001	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H ⁺ /ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.00171	0.01	0.001	-	-
Background concentration at receptor edge	1.95	24.92	2.07 (N:1.78 S:0.29)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.95	24.93	2.07	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3 	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	Lower: 0% Upper: 0%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 195% Upper: 65%	n/a	n/a	-	-
EXCEEDANCE	Lower: 0.95 Upper: No exceedance	n/a	n/a	-	-

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Content Specific Help Text

Site Information		Pan Beck Fen (SSSI)	▼ ⓘ
Region:			England
Site Name:			Pan Beck Fen
Site Code: ⓘ			3243
Designation Status: ⓘ			SSSI
Distance from Installation (m): ⓘ			7433
Receptor Type:			Habitat
Grid Reference:			384838.7,455795.1
Met Site: ⓘ			CROS
Run Mode: ⓘ			Conservative
PM ₁₀ Percentile: ⓘ			Average

Installation Information ⓘ

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m3)	Conc Odour (Ou/m3)
1	Lagoon	1	1	-	0.45	-	0	0.01	0	-	-

Total Depositions/Concentrations and Exceedances ⓘ

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.00117	0.01	0.000	-	-
Background concentration at receptor edge ⓘ	2.35	28.42	2.33 (N:2.03 S:0.30)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	2.35	28.43	2.33	-	-
Environmental Assessment Level or Critical Load / Level ⓘ	Lower: 1 Upper: 3 ⓘ	10.0 Neutral grassland upland	maxN: 4.86 maxS: 4.00 minN: 0.86 Neutral grassland upland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC ⓘ	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC ⓘ	Lower: 235% Upper: 78%	284%	48%	-	-
EXCEEDANCE ⓘ	Lower: 1.35 Upper: No exceedance	18.43	-2.53	-	-

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Content Specific Help Text

Site Information River Ribble: Long Preston Deeps (SSSI) ▼ ⓘ

Region:	England
Site Name:	River Ribble: Long Preston Deepes
Site Code: 	3246
Designation Status: 	SSSI
Distance from Installation (m): 	7723
Receptor Type:	Habitat
Grid Reference:	382418.3,457199.2
Met Site: 	CROS
Run Mode: 	Conservative
PM ₁₀ Percentile: 	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m3)	Conc Odour (Ou/m3)
1	Lagoon	1	1	-	0.45	-	0	0.01	0	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H ⁺ /ha/yr)	PM ₁₀ (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.00110	0.01	0.000	-	-
Background concentration at receptor edge ②	2.35	28.42	2.33 (N:2.03 S:0.30)	-	-
Predicted Environmental Concentration/Deposition (PEC) ①	2.35	28.43	2.33	-	-
Environmental Assessment Level or Critical Load / Level ②	Lower: 1 Upper: 3 ①	Rivers and streams	Rivers and streams	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC ②	Lower: 0% Upper: 0%	n/a	n/a	-	-
% of relevant standard PEC ②	Lower: 235% Upper: 78%	n/a	n/a	-	-
EXCEEDANCE ①	Lower: 1.35 Upper: No exceedance	n/a	n/a	-	-

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Content Specific Help Text

Site Information Standridge Farm Pasture (SSSI)

Region: England
 Site Name: Standridge Farm Pasture
 Site Code: 3965
 Designation Status: SSSI
 Distance from Installation (m): 8028
 Receptor Type: Habitat
 Grid Reference: 373466.5,453397.9
 Met Site: CROS
 Run Mode: Conservative
 PM₁₀ Percentile: Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H ⁺ /ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Lagoon	1	1	-	0.45	-	0	0.01	0	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H ⁺ /ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.00103	0.01	0.000	-	-
Background concentration at receptor edge	1.83	27.86	2.33 (N:1.99 S:0.34)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.83	27.87	2.33	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3 	10.0 Neutral grassland upland	maxN: 5.21 maxS: 4.00 minN: 1.21 Neutral grassland upland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC	Lower: 183% Upper: 61%	279%	45%	-	-
EXCEEDANCE	Lower: 0.83 Upper: No exceedance	17.87	-2.88	-	-

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Slurry Lagoon Raygill Moss Farm

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Content Specific Help Text

Site Information Salthill & Bellmanpark Quarries (SSSI) ▼ ⓘ

Region: England
 Site Name: Salthill & Bellmanpark Quarries
 Site Code: ⓘ 3469
 Designation Status: ⓘ SSSI
 Distance from Installation (m): ⓘ 8039
 Receptor Type: Habitat
 Grid Reference: 376222.1,442947
 Met Site: ⓘ CROS
 Run Mode: ⓘ Conservative
 PM₁₀ Percentile: ⓘ Average

Installation Information ⓘ

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H ⁺ /ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Lagoon	1	1	-	0.45	-	0	0.01	0	-	-

Total Depositions/Concentrations and Exceedances ⓘ

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H ⁺ /ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.00103	0.01	0.000	-	-
Background concentration at receptor edge ⓘ	1.95	24.92	2.07 (N:1.78 S:0.29)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.95	24.93	2.07	-	-
Environmental Assessment Level or Critical Load / Level ⓘ	Lower: 1 Upper: 3 ⓘ	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 ⓘ	Lower: 0% Upper: 0%	n/a	n/a	-	-
% of relevant standard PEC ⓘ	Lower: 195% Upper: 65%	n/a	n/a	-	-
EXCEEDANCE ⓘ	Lower: 0.95 Upper: No exceedance	n/a	n/a	-	-

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Content Specific Help Text

Site Information Langcliff Cross Meadow (SSSI) ▼ ⓘ

Region:	England
Site Name:	Langcliff Cross Meadow
Site Code: ⓘ	3720
Designation Status: ⓘ	SSSI
Distance from Installation (m): ⓘ	8089
Receptor Type:	Habitat
Grid Reference:	372743.1,451661.3
Met Site: ⓘ	CROS
Run Mode: ⓘ	Conservative
PM ₁₀ Percentile: ⓘ	Average

Installation Information ⓘ

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H ⁺ /ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Lagoon	1	1	-	0.45	-	0	0.01	0	-	-

Total Depositions/Concentrations and Exceedances ⓘ

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H ⁺ /ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.00102	0.01	0.000	-	-
Background concentration at receptor edge ⓘ	1.83	27.86	2.33 (N:1.99 S:0.34)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.83	27.87	2.33	-	-
Environmental Assessment Level or Critical Load / Level ⓘ	Lower: 1 Upper: 3 ⓘ	10.0 Neutral grassland upland	maxN: 5.07 maxS: 4.00 minN: 1.07 Neutral grassland upland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC ⓘ	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC ⓘ	Lower: 183% Upper: 61%	279%	46%	-	-
EXCEEDANCE ⓘ	Lower: 0.83 Upper: No exceedance	17.87	-2.74	-	-

Project Notes

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Content Specific Help Text

Site Information North Pennine Dales Meadows (SAC) ▼ ⓘ

Region:	England
Site Name:	North Pennine Dales Meadows
Site Code: ⓘ	UK0014775
Designation Status: ⓘ	SAC
Distance from Installation (m): ⓘ	8091
Receptor Type:	Habitat
Grid Reference:	372730.6,451618.8
Met Site: ⓘ	CROS
Run Mode: ⓘ	Conservative
PM ₁₀ Percentile: ⓘ	Average

Installation Information ⓘ

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H ⁺ /ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Lagoon	1	1	-	0.45	-	0	0.01	0	-	-

Total Depositions/Concentrations and Exceedances ⓘ

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H ⁺ /ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.00102	0.01	0.000	-	-
Background concentration at receptor edge ⓘ	1.83	27.86	2.33 (N:1.99 S:0.34)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.83	27.87	2.33	-	-
Environmental Assessment Level or Critical Load / Level ⓘ	Lower: 1 Upper: 3 ⓘ	10.0 Mountain hay meadows	maxN: 0.66 maxS: 0.36 minN: 0.22 Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinia caerulea)	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC ⓘ	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC ⓘ	Lower: 183% Upper: 61%	279%	353%	-	-
EXCEEDANCE ⓘ	Lower: 0.83 Upper: No exceedance	17.87	1.67	-	-

Project Notes



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Content Specific Help Text

Site Information Coplow Quarry (SSSI) ▼ ⓘ

Region:

England

Site Name:

Coplow Quarry

Site Code: ⓘ

3609

Designation Status: ⓘ

SSSI

Distance from Installation (m): ⓘ

8395

Receptor Type:

Habitat

Grid Reference:

375237.6,443229.1

Met Site: ⓘ

CROS

Run Mode: ⓘ

Conservative

PM₁₀ Percentile: ⓘ

Average

Installation Information ⓘ

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m3)	Conc Odour (Ou/m3)
1	Lagoon	1	1	-	0.45	-	0	0	0	-	-

Total Depositions/Concentrations and Exceedances ⓘ

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.00096	0.01	0.000	-	-
Background concentration at receptor edge ⓘ	1.95	24.92	2.07 (N:1.78 S:0.29)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.95	24.93	2.07	-	-
Environmental Assessment Level or Critical Load / Level ⓘ	Lower: 1 Upper: 3 ⓘ	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 ⓘ	Lower: 0% Upper: 0%	n/a	n/a	-	-
% of relevant standard PEC ⓘ	Lower: 195% Upper: 65%	n/a	n/a	-	-
EXCEEDANCE ⓘ	Lower: 0.95 Upper: No exceedance	n/a	n/a	-	-

Project Notes

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Content Specific Help Text

Site Information Field Head Meadow (SSSI) ▼ ⓘ

Region:	England
Site Name:	Field Head Meadow
Site Code: ⓘ	4030
Designation Status: ⓘ	SSSI
Distance from Installation (m): ⓘ	8396
Receptor Type:	Habitat
Grid Reference:	372690.7,452542.6
Met Site: ⓘ	CROS
Run Mode: ⓘ	Conservative
PM ₁₀ Percentile: ⓘ	Average

Installation Information ⓘ

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H ⁺ /ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Lagoon	1	1	-	0.45	-	0	0	0	-	-

Total Depositions/Concentrations and Exceedances ⓘ

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H ⁺ /ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.00096	0.01	0.000	-	-
Background concentration at receptor edge ⓘ	1.83	27.86	2.33 (N:1.99 S:0.34)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.83	27.87	2.33	-	-
Environmental Assessment Level or Critical Load / Level ⓘ	Lower: 1 Upper: 3 ⓘ	10.0 Neutral grassland upland	maxN: 5.07 maxS: 4.00 minN: 1.07 Neutral grassland upland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC ⓘ	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC ⓘ	Lower: 183% Upper: 61%	279%	46%	-	-
EXCEEDANCE ⓘ	Lower: 0.83 Upper: No exceedance	17.87	-2.74	-	-

Project Notes

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Content Specific Help Text

Site Information

Little Mearley Clough (SSSI)

▼ ⓘ

Region:

England

Site Name:

Little Mearley Clough

Site Code: ⓘ

3639

Designation Status: ⓘ

SSSI

Distance from Installation (m): ⓘ

8616

Receptor Type:

Habitat

Grid Reference:

378223.3,441411.5

Met Site: ⓘ

CROS

Run Mode: ⓘ

Conservative

PM₁₀ Percentile: ⓘ

Average

Installation Information ⓘ

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m3)	Conc Odour (Ou/m3)
1	Lagoon	1	1	-	0.45	-	0	0	0	-	-

Total Depositions/Concentrations and Exceedances ⓘ

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.00092	0.00	0.000	-	-
Background concentration at receptor edge ⓘ	1.95	24.92	2.07 (N:1.78 S:0.29)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.95	24.92	2.07	-	-
Environmental Assessment Level or Critical Load / Level ⓘ	Lower: 1 Upper: 3 ⓘ	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 ⓘ	Lower: 0% Upper: 0%	n/a	n/a	-	-
% of relevant standard PEC ⓘ	Lower: 195% Upper: 65%	n/a	n/a	-	-
EXCEEDANCE ⓘ	Lower: 0.95 Upper: No exceedance	n/a	n/a	-	-

Project Notes

Slurry Lagoon Raygill Moss Farm

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Content Specific Help Text

Site Information		Barn Gill Meadow (SSSI)	 
Region:	England		
Site Name:	Barn Gill Meadow		
Site Code: 	3885		
Designation Status: 	SSSI		
Distance from Installation (m): 	8847		
Receptor Type:	Habitat		
Grid Reference:	373266.3,454659.2		
Met Site: 	CROS		
Run Mode: 	Conservative		
PM ₁₀ Percentile: 	Average		

Installation Information ⓘ

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m3)	Conc Odour (Ou/m3)
1	Lagoon	1	1	-	0.45	-	0	0	0	-	-

Total Depositions/Concentrations and Exceedances ⓘ

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.00088	0.00	0.000	-	-
Background concentration at receptor edge ⓘ	1.83	27.86	2.33 (N:1.99 S:0.34)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.83	27.86	2.33	-	-
Environmental Assessment Level or Critical Load / Level ⓘ	Lower: 1 Upper: 3 ⓘ	10.0 Neutral grassland lowland	maxN: 5.07 maxS: 4.00 minN: 1.07 Neutral grassland lowland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC ⓘ	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC ⓘ	Lower: 183% Upper: 61%	279%	46%	-	-
EXCEEDANCE ⓘ	Lower: 0.83 Upper: No exceedance	17.86	-2.74	-	-

Project Notes

Slurry Lagoon Raygill Moss Farm

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Content Specific Help Text

Site Information Bell Sykes Meadows (SSSI) ▼ ⓘ

Region:	England
Site Name:	Bell Sykes Meadows
Site Code: ⓘ	4026
Designation Status: ⓘ	SSSI
Distance from Installation (m): ⓘ	9079
Receptor Type:	Habitat
Grid Reference:	371957.1,452507.3
Met Site: ⓘ	CROS
Run Mode: ⓘ	Conservative
PM ₁₀ Percentile: ⓘ	Average

Installation Information ⓘ

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H ⁺ /ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Lagoon	1	1	-	0.45	-	0	0	0	-	-

Total Depositions/Concentrations and Exceedances ⓘ

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H ⁺ /ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.00084	0.00	0.000	-	-
Background concentration at receptor edge ⓘ	1.83	27.86	2.33 (N:1.99 S:0.34)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.83	27.86	2.33	-	-
Environmental Assessment Level or Critical Load / Level ⓘ	Lower: 1 Upper: 3 ⓘ	10.0 Neutral grassland upland	maxN: 5.07 maxS: 4.00 minN: 1.07 Neutral grassland upland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC ⓘ	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC ⓘ	Lower: 183% Upper: 61%	279%	46%	-	-
EXCEEDANCE ⓘ	Lower: 0.83 Upper: No exceedance	17.86	-2.74	-	-

Project Notes

Slurry Lagoon Raygill Moss Farm