SCAIL Modelling Report

Erection of a poultry unit including silos and all associated works

Ty Nant, Talybont, Ceredigion, SY24 5DN

Prepared for E Evans and Co

Roger Parry & Partners

land & property professionals

Roger Parry & Partners LLP
www.rogerparry.net
richard@rogerparry.net
Tel: 01691 655334

1. INTRODUCTION

1.1 This statement should be read in conjunction with all the other documents that have been submitted in connection with the planning application for the erection of a poultry unit at Ty Nant, Talybont.

1.2 The purpose of this SCAIL assessment is to assess the proposed impact the development will have on ecological interest of the area. Particular note is given to the levels of ammonia which shall arise from the proposed poultry unit.

1.3 Basic Ammonia modelling has been carried out, and is discussed and analysed within this statement.

2. LOCATION & PROPOSAL

2.1 The proposal is on land adjacent to the existing range of modern farm buildings that serve the unit. It is noted that the farm buildings are positioned between the Farmhouse and the proposed development. The existence of modern buildings adjoining the proposed development is beneficial as it provides an ideal screen for the development from the Farmhouse.

2.2 It is accessed via a new farm track access.

2.3 There are no other poultry units in the immediate vicinity, and therefore there will be limited cumulative impact.

2.4 The proposal is for a poultry unit, which will be within a permanent unit, which will be fan ventilated and a manure conveyor belt associated with it.

3. PROTECTED ENVIRONMENTAL SITES

3.1 Within a 10km radius of the proposed site, there are 30 designated environmental sites which range from 3.09kms to 9.77kms away.

3.2 The 4 closest Ancient Woodlands have also been assessed.

4. SCAIL MODELLING

4.1 SCAIL is an acronym for 'Simple Calculation of Atmospheric Impact Limits. It is a basic screening tool to assess the potential impact from agricultural sources on

protected environmental sites. The SCAIL assessment provides the assessor with a worst-case scenario of the impact of agricultural developments.

4.2 No Integrated Pollution and Prevention Control Permit (IPPC) is required for the free-range unit, given the proposal does not exceed the housing of over 40,000 hens.

4.3 The SCAIL modelling provides information on the background concentrations and depositions at the receptor (SSSI's) and the process contribution the proposal will have on those critical levels.

4.4 In Appendix 1 you will find the calculations of the SCAIL for the protected environmental sites for the proposed poultry unit.

4.5 In relation to the proposed poultry unit and its associated emissions, it is calculated that it will have a 1% process contribution at the closest SSSI.

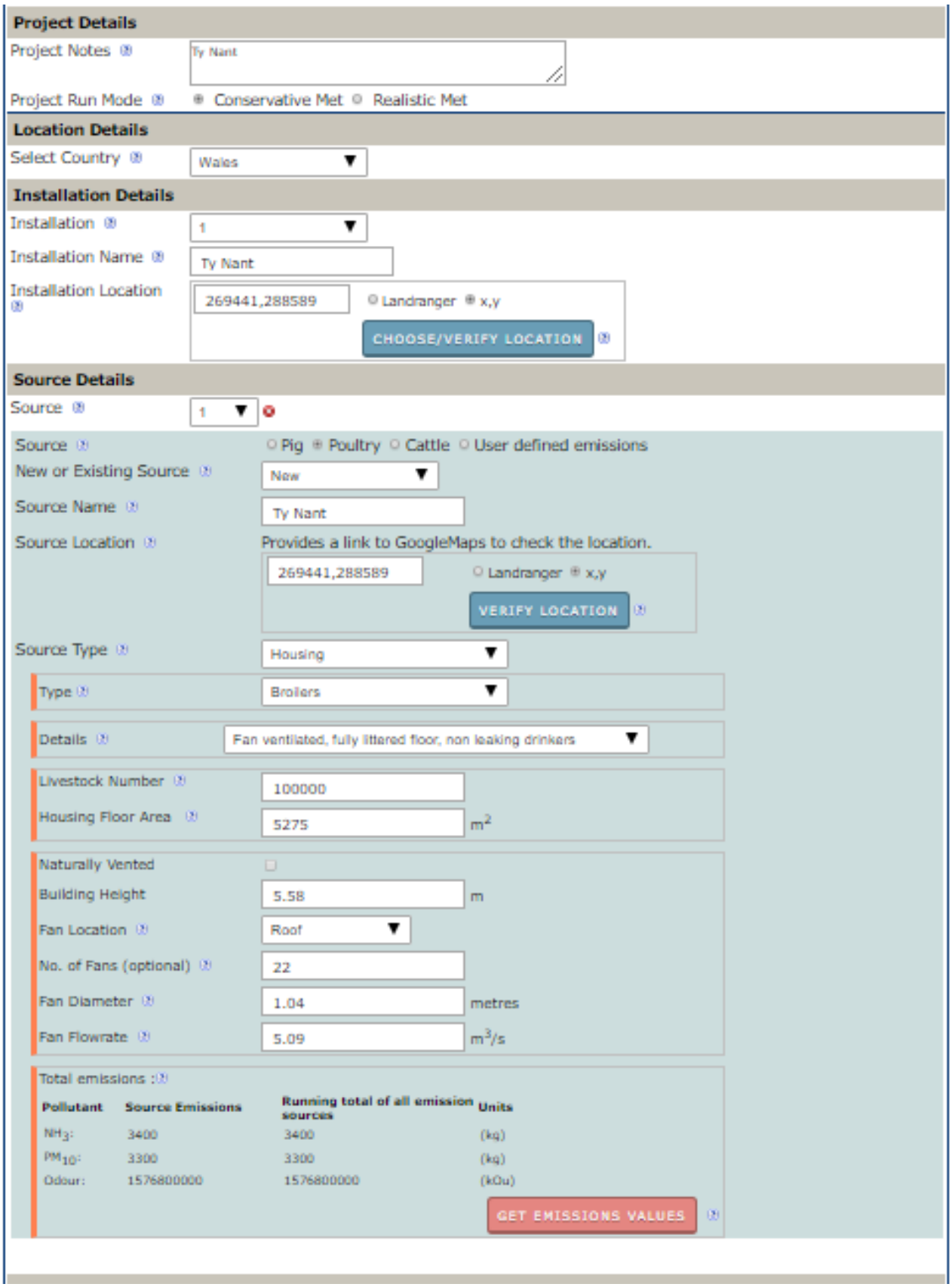
4.6 In light of the above calculations, it is envisaged that detailed modelling will not be required on the impact on the SSSI's.

5. Conclusion

5.1 In light of the above assessment and analysis, it is considered that there would be no significant detrimental impact upon any of the environmental sites within 10km and therefore no further modelling will need to be undertaken.

Appendix 1

Proposed building Simple Calculation of Atmospheric Impact Limits



Project Details

Project Notes: Ty Nant

Project Run Mode: Conservative Met / Realistic Met

Location Details

Select Country: Wales

Installation Details

Installation: 1

Installation Name: Ty Nant

Installation Location: 269441,288589 — Landranger / x,y — CHOOSE/VERIFY LOCATION

Source Details

Source: 1

Source: Pig / Poultry / Cattle / User defined emissions

New or Existing Source: New

Source Name: Ty Nant

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

269441,288589 — Landranger / x,y — VERIFY LOCATION

Source Type: Housing

Type: Broilers

Details: Fan ventilated, fully littered floor, non leaking drinkers

Livestock Number: 100000

Housing Floor Area: 5275 m^2

Naturally Vented

Building Height: 5.58 m

Fan Location: Roof

No. of Fans (optional): 22

Fan Diameter: 1.04 metres

Fan Flowrate: 5.09 m^3/s

Total emissions :

Pollutant	Source Emissions	Running total of all emission sources	Units
NH_3:	3400	3400	(kg)
PM_{10}:	3300	3300	(kg)
Odour:	1576800000	1576800000	(kOu)

GET EMISSIONS VALUES

Sites

VERIFY RECEPTOR LOCATIONS

Site No.	Name	Distance(km)	Designation	Country	Easting	Northing
1	Gwaun Troed-Rhiw-Seiri a Llyn Mynydd-Gorddu	3.09	SSSI	undefined	267713.7	286027.3
2	Craigypistyll	3.27	SSSI	undefined	271141.6	285795.8
3	Coed Cwm Cletwr	3.46	SSSI	undefined	267837	291654.5
4	Mwyngloddfa Llety Ifan Hen (Vaughan Mine)	3.589	SSSI	undefined	269472.8	285000.2
5	Mwyngloddfa Nant-y-Cagl (Eaglebrook Mine)	3.939	SSSI	undefined	273340.5	289146
6	Mwyngloddfa Llechweddhelyg	3.94	SSSI	undefined	268360.4	284800.1
7	Cwmsymlog	4.782	SSSI	undefined	269908	283829.5
8	Dyfi	4.824	SSSI	undefined	265269.8	291012.3
9	Cors Fochno	4.852	SAC	undefined	265413	291293.4
10	Mwyngloddfa Brynyrafr	4.988	SSSI	undefined	274384	287918
11	Banc Llety-Spence	5.013	SSSI	undefined	270024.1	283610.5
12	Cae Ty-Hen	5.226	SSSI	undefined	264263.6	289297.5
13	Coed Cwm Einion	5.78	SAC	undefined	269467	294368.5
14	Coed Cwm Einion	5.78	SSSI	undefined	269467	294368.5
15	Pen Llyn a'r Sarnau / Lleyn Peninsula and the Sarnau	5.959	SAC	undefined	265363.6	292935.2
16	Dyfi Estuary / Aber Dyfi	5.959	SPA	undefined	265366.6	292938
17	Pencarreg-Gopa a Moel Hyrddod	6.288	SSSI	undefined	271197	294626.5
18	Pencreigiau,R Llan	7.082	SSSI	undefined	274166.7	293863.3
19	Pumlumon (Plynlimon)	7.598	SSSI	undefined	276636	286146.2
20	Mwyngloddfa Cwmbrwyno	8.201	SSSI	undefined	271363.9	280616.6
21	Cwm Llyfnant	8.442	SSSI	undefined	271964.5	296644.5
22	Borth - Clarach	8.724	SSSI	undefined	260722.6	288907.2
23	Chwarel Ponterwyd (Ponterwyd Quarry)	8.935	SSSI	undefined	274028.5	280921.3
24	Ffordd Coed Dol-Fawr	9.035	SSSI	undefined	270227.7	279588.7
25	Afon Rheidol Ger Capel Bangor	9.357	SSSI	undefined	265341.5	280177.8
26	Coedydd a Cheunant Rheidol (Rheidol Woods & Gorge)	9.495	SSSI	undefined	274885.4	280810.3
27	Coedydd a Cheunant Rheidol / Rheidol Woods and Gorge	9.495	SAC	undefined	274885.9	280810.7
28	Coed y Gofer	9.549	SSSI	undefined	264388.4	296692.1
29	Rheidol Shingles and Backwaters	9.736	SSSI	undefined	263168.8	281142.1
30	Bryn Bras	9.776	SSSI	undefined	274306	280109.4

User specified site 1 Add site

Site Name: 27905 Ancient Semi Natu

Site Location: 269441,288731 ○ Landranger ◉ x,y

VERIFY LOCATION

Habitat within site: Broadleaved, Mixed and Yew Woodland

CHECK BACKGROUND LEVELS

Site Information 27905 Ancient Semi Natural Woodland

Region:	Wales
Site Name:	27905 Ancient Semi Natural Woodland
Site Code:	N/A
Designation Status:	User defined
Distance from Installation (m):	142
Receptor Type:	Broadleaved, Mixed and Yew Woodland
Grid Reference:	269441,288731
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOu/s)	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	Ty Nant	1	1	-	3.4	-	5.06	26.39	1.781	-	-

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	5.06154	39.60	2.700	-	-
Background concentration at receptor edge	0.83	17.92	1.48 (N:1.28|S:0.20)	-	-
Predicted Environmental Concentration/Deposition (PEC)	5.91	57.52	4.18	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Broadleaved, Mixed and Yew Woodland	maxN: 1.32 maxS: 1.03 minN: 0.28 Broadleaved, Mixed and Yew Woodland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 508% Upper: 169%	396%	205%	-	-
% of relevant standard PEC	Lower: 591% Upper: 197%	575%	317%	-	-
EXCEEDANCE	Lower: 4.91 Upper: 2.91	47.52	2.86	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information 30889 Ancient Semi Natural Woodland

Region:	Wales
Site Name:	30889 Ancient Semi Natural Woodland
Site Code:	N/A
Designation Status:	User defined
Distance from Installation (m):	300
Receptor Type:	Broadleaved, Mixed and Yew Woodland
Grid Reference:	269627,288824
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	1.78	9.23	0.623	-	-

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	1.77661	13.80	0.930	-	-
Background concentration at receptor edge	0.83	17.92	1.48 (N:1.28|S:0.20)	-	-
Predicted Environmental Concentration/Deposition (PEC)	2.61	31.72	2.41	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Broadleaved, Mixed and Yew Woodland ALTERNATIVE CRITICAL LOAD INFO	maxN: 1.32 maxS: 1.03 minN: 0.28 Broadleaved, Mixed and Yew Woodland	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 178% Upper: 59%	138%	70%	-	-
% of relevant standard PEC	Lower: 261% Upper: 87%	317%	183%	-	-
EXCEEDANCE	Lower: 1.61 Upper: No exceedance	21.72	1.09	-	-

Project Notes

Ty Nant

Site Information 30871 Ancient Semi Natural Woodland

Region:	Wales
Site Name:	30871 Ancient Semi Natural Woodland
Site Code:	N/A
Designation Status:	User defined
Distance from Installation (m):	212
Receptor Type:	Broadleaved, Mixed and Yew Woodland
Grid Reference:	269257,288694
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	2.81	14.6	0.965	-	-

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	2.81011	21.90	1.500	-	-
Background concentration at receptor edge	0.83	17.92	1.48 (N:1.28|S:0.20)	-	-
Predicted Environmental Concentration/Deposition (PEC)	3.64	39.82	2.98	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Broadleaved, Mixed and Yew Woodland	maxN: 1.32 maxS: 1.03 minN: 0.28 Broadleaved, Mixed and Yew Woodland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 281% Upper: 94%	219%	114%	-	-
% of relevant standard PEC	Lower: 364% Upper: 121%	398%	226%	-	-
EXCEEDANCE	Lower: 2.64 Upper: 0.64	29.82	1.66	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information 30884 Ancient Semi Natural Woodland

Region:	Wales
Site Name:	30884 Ancient Semi Natural Woodland
Site Code:	N/A
Designation Status:	User defined
Distance from Installation (m):	269
Receptor Type:	Broadleaved, Mixed and Yew Woodland
Grid Reference:	269644,288412
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue)	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	Ty Nant	1	1	-	3.4	-	2.02	10.47	0.707	-	-

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	2.01658	15.70	1.100	-	-
Background concentration at receptor edge	0.83	17.92	1.48 (N:1.28|S:0.20)	-	-
Predicted Environmental Concentration/Deposition (PEC)	2.85	33.62	2.58	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Broadleaved, Mixed and Yew Woodland	maxN: 1.32 maxS: 1.03 minN: 0.28 Broadleaved, Mixed and Yew Woodland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 202% Upper: 67%	157%	83%	-	-
% of relevant standard PEC	Lower: 285% Upper: 95%	336%	195%	-	-
EXCEEDANCE	Lower: 1.85 Upper: No exceedance	23.62	1.26	-	-

Project Notes

Ty Nant

Site Information Gwaun Troed-Rhiw-Seiri a Llyn Mynydd-Gorddu (SSSI)

Region:	Wales
Site Name:	Gwaun Troed-Rhiw-Seiri a Llyn Mynydd-Gorddu
Site Code:	5313
Designation Status:	SSSI
Distance from Installation (m):	3090
Receptor Type:	Habitat
Grid Reference:	267713.7,286027.3
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOua)	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	Ty Nant	1	1	-	3.4	-	0.05	0.28	0.019	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Deposition 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	0.05411	0.28	0.019	-	-
Background concentration at receptor edge	0.83	10.50	0.90 (N:0.75|S:0.15)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.88	10.78	0.92	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	3.0 Standing open water - oligotrophic	maxN: 0.78 maxS: 0.41 minN: 0.37 Acid grassland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 5% Upper: 2%	9%	3%	-	-
% of relevant standard PEC	Lower: 88% Upper: 29%	359%	118%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	7.78	0.14	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information Craigypistyll (SSSI)

Region:	Wales
Site Name:	Craigypistyll
Site Code:	4289
Designation Status:	SSSI
Distance from Installation (m):	3270
Receptor Type:	Habitat
Grid Reference:	271141.6,285795.8
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.05	0.26	0.018	-	-

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	0.05051	0.26	0.018	-	-
Background concentration at receptor edge	0.52	10.64	0.95 (N:0.76|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.57	10.9	0.97	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Inland rock	maxN: 0.75 maxS: 0.43 minN: 0.32 Inland rock	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 5% Upper: 2%	5%	3%	-	-
% of relevant standard PEC	Lower: 57% Upper: 19%	218%	129%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	5.90	0.22	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS [Use this Back button. Do not use the browser back button - you could lose all BACK

Site Information Coed Cwm Cletwr (SSSI)

Region:	Wales
Site Name:	Coed Cwm Cletwr
Site Code:	6164
Designation Status:	SSSI
Distance from Installation (m):	3460
Receptor Type:	Habitat
Grid Reference:	267837,291654.5
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.05	0.37	0.025	-	-

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	0.04721	0.37	0.025	-	-
Background concentration at receptor edge	0.73	16.52	1.37 (N:1.18|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.78	16.89	1.4	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland	maxN: 1.22 maxS: 0.93 minN: 0.28 Broad-leaved, mixed and yew woodland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 5% Upper: 2%	7%	2%	-	-
% of relevant standard PEC	Lower: 78% Upper: 26%	338%	114%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	11.89	0.18	-	-

Project Notes

Ty Nant

Use this Back button. Do not use the

Site Information Mwyngloddfa Llety Ifan Hen (Vaughan Mine) (SSSI)

Region:	Wales
Site Name:	Mwyngloddfa Llety Ifan Hen (Vaughan Mine)
Site Code:	5436
Designation Status:	SSSI
Distance from Installation (m):	3589
Receptor Type:	Habitat
Grid Reference:	269472.8,285000.2
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (tpa)	NH_3 (tpa)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.05	0.23	0.016	-	-

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	0.04518	0.23	0.016	-	-
Background concentration at receptor edge	0.83	10.50	0.90 (N:0.75|S:0.15)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.88	10.73	0.92	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	No sensitive habitat or species at this site ALTERNATIVE CRITICAL LOAD INFO	No sensitive habitat or species at this site	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 5% Upper: 2%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 88% Upper: 29%	n/a	n/a	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	n/a	n/a	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information Mwyngloddfa Nant-y-Cagl (Eaglebrook Mine) (SSSI)

Region:	Wales
Site Name:	Mwyngloddfa Nant-y-Cagl (Eaglebrook Mine)
Site Code:	5108
Designation Status:	SSSI
Distance from Installation (m):	3939
Receptor Type:	Habitat
Grid Reference:	273340.5,289146
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (tia)	NH_3 (tia)	Odour (kOua)	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	Ty Nant	1	1	-	3.4	-	0.04	0.21	0.014	-	-

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	0.04044	0.21	0.014	-	-
Background concentration at receptor edge	0.52	10.64	0.95 (N:0.76|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.56	10.85	0.96	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	No sensitive habitat or species at this site ALTERNATIVE CRITICAL LOAD INFO	No sensitive habitat or species at this site	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 4% Upper: 1%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 56% Upper: 19%	n/a	n/a	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	n/a	n/a	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information Mwyngloddfa Llechweddhelyg (SSSI)

Region:	Wales
Site Name:	Mwyngloddfa Llechweddhelyg
Site Code:	5290
Designation Status:	SSSI
Distance from Installation (m):	3940
Receptor Type:	Habitat
Grid Reference:	268360.4,284800.1
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (tpa)	NH_3 (tpa)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.04	0.21	0.014	-	-

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	0.04042	0.21	0.014	-	-
Background concentration at receptor edge	0.93	12.04	1.03 (N:0.86|S:0.17)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.97	12.25	1.04	-	-
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: 4% Upper: 1%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 97% Upper: 32%	n/a	n/a	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	n/a	n/a	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information Cwmsymlog (SSSI)

Region:	Wales
Site Name:	Cwmsymlog
Site Code:	6028
Designation Status:	SSSI
Distance from Installation (m):	4782
Receptor Type:	Habitat
Grid Reference:	269908,283829.5
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue)	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	Ty Nant	1	1	-	3.4	-	0.03	0.17	0.011	-	-

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	0.03220	0.17	0.011	-	-
Background concentration at receptor edge	0.93	12.04	1.03 (N:0.86|S:0.17)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.96	12.21	1.04	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	8.0 Acid grassland ALTERNATIVE CRITICAL LOAD INFO	maxN: 0.78 maxS: 0.41 minN: 0.37 Acid grassland	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 3% Upper: 1%	2%	1%	-	-
% of relevant standard PEC	Lower: 96% Upper: 32%	153%	133%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	4.21	0.26	-	-

Project Notes

Ty Nant

Use this Back button. Do not use the

Site Information Dyfi (SSSI)

Region:	Wales
Site Name:	Dyfi
Site Code:	5856
Designation Status:	SSSI
Distance from Installation (m):	4824
Receptor Type:	Habitat
Grid Reference:	265269.8,291012.3
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.03	0.17	0.011	-	-

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	0.03188	0.17	0.011	-	-
Background concentration at receptor edge	0.73	9.94	0.86 (N:0.71|S:0.15)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.76	10.11	0.87	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Bogs ALTERNATIVE CRITICAL LOAD INFO	maxN: 0.54 maxS: 0.22 minN: 0.32 Bogs	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 3% Upper: 1%	3%	2%	-	-
% of relevant standard PEC	Lower: 76% Upper: 25%	202%	161%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	5.11	0.33	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS [Use this Back button. Do not use the browser back button, you would lose all] BACK

Site Information Cors Fochno (SAC)

Region:	Wales
Site Name:	Cors Fochno
Site Code:	UK0014791
Designation Status:	SAC
Distance from Installation (m):	4852
Receptor Type:	Habitat
Grid Reference:	265413,291293.4
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.03	0.16	0.011	-	-

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	0.03167	0.16	0.011	-	-
Background concentration at receptor edge	0.73	9.94	0.86 (N:0.71|S:0.15)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.76	10.1	0.87	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Active raised bogs	maxN: 0.54 maxS: 0.22 minN: 0.32 Active raised bogs	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 3% Upper: 1%	3%	2%	-	-
% of relevant standard PEC	Lower: 76% Upper: 25%	202%	161%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	5.10	0.33	-	-

Project Notes

Ty Nant

[Use this Back button. Do not use the

Site Information Mwyngloddfa Brynyrafr (SSSI)

Region:	Wales
Site Name:	Mwyngloddfa Brynyrafr
Site Code:	5291
Designation Status:	SSSI
Distance from Installation (m):	4988
Receptor Type:	Habitat
Grid Reference:	274384,287918
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.03	0.16	0.011	-	-

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	0.03067	0.16	0.011	-	-
Background concentration at receptor edge	0.52	10.64	0.95 (N:0.76|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.55	10.8	0.96	-	-
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: 3% Upper: 1%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 55% Upper: 18%	n/a	n/a	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	n/a	n/a	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information

Banc Llety-Spence (SSSI)

Region:	Wales
Site Name:	Banc Llety-Spence
Site Code:	5328
Designation Status:	SSSI
Distance from Installation (m):	5013
Receptor Type:	Habitat
Grid Reference:	270024.1,283610.5
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.03	0.16	0.011	-	-

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	0.03050	0.16	0.011	-	-
Background concentration at receptor edge	0.61	11.20	0.99 (N:0.80|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.64	11.36	1	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	8.0 Acid grassland	maxN: 0.78 maxS: 0.41 minN: 0.37 Acid grassland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 3% Upper: 1%	2%	1%	-	-
% of relevant standard PEC	Lower: 64% Upper: 21%	142%	128%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	3.36	0.22	-	-

Project Notes

Ty Nant

[Use this Back button. Do not use the

Site Information Cae Ty-Hen (SSSI)

Region:	Wales
Site Name:	Cae Ty-Hen
Site Code:	6130
Designation Status:	SSSI
Distance from Installation (m):	5226
Receptor Type:	Habitat
Grid Reference:	264263.6,289297.5
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.03	0.23	0.015	-	-

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	0.02907	0.23	0.016	-	-
Background concentration at receptor edge	0.87	16.10	1.31 (N:1.15|S:0.16)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.9	16.33	1.33	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland	maxN: 1.63 maxS: 1.49 minN: 0.14 Broad-leaved, mixed and yew woodland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 3% Upper: 1%	5%	1%	-	-
% of relevant standard PEC	Lower: 90% Upper: 30%	327%	82%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	11.33	-0.30	-	-

Project Notes

Ty Nant

Site Information Coed Cwm Einion (SAC)

Region:	Wales
Site Name:	Coed Cwm Einion
Site Code:	UK0030117
Designation Status:	SAC
Distance from Installation (m):	5780
Receptor Type:	Habitat
Grid Reference:	269467,294368.5
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOu/s)	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	Ty Nant	1	1	-	3.4	-	0.03	0.2	0.014	-	-

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	0.02594	0.20	0.013	-	-
Background concentration at receptor edge	0.73	16.52	1.37 (N:1.18|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.76	16.72	1.38	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	15.0 Tilio-Acerion forests of slopes, screes and ravines ALTERNATIVE CRITICAL LOAD INFO	maxN: 1.18 maxS: 0.89 minN: 0.28 Tilio-Acerion forests of slopes, screes and ravines	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 3% Upper: 1%	1%	1%	-	-
% of relevant standard PEC	Lower: 76% Upper: 25%	111%	117%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	1.72	0.20	-	-

Project Notes

Ty Nant

Site Information Coed Cwm Einion (SSSI)

Region:	Wales
Site Name:	Coed Cwm Einion
Site Code:	5385
Designation Status:	SSSI
Distance from Installation (m):	5780
Receptor Type:	Habitat
Grid Reference:	269467,294368.5
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.03	0.2	0.014	-	-

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	0.02594	0.20	0.013	-	-
Background concentration at receptor edge	0.73	16.52	1.37 (N:1.18|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.76	16.72	1.38	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland	maxN: 1.18 maxS: 0.69 minN: 0.28 Broad-leaved, mixed and yew woodland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 3% Upper: 1%	4%	1%	-	-
% of relevant standard PEC	Lower: 76% Upper: 25%	334%	117%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	11.72	0.20	-	-

Project Notes

Ty Nant

Site Information Pen Llyn a'r Sarnau / Lleyn Peninsula and the Sarnau (SAC)

Region:	Wales
Site Name:	Pen Llyn a'r Sarnau / Lleyn Peninsula and the Sarnau
Site Code:	UK0013117
Designation Status:	SAC
Distance from Installation (m):	5959
Receptor Type:	Habitat
Grid Reference:	265363.6,292935.2
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.03	0.13	0.009	-	-

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	0.02506	0.13	0.009	-	-
Background concentration at receptor edge	0.73	9.94	0.86 (N:0.71|S:0.15)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.76	10.07	0.87	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	20.0 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Lutra lutra	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 3% Upper: 1%	1%	n/a	-	-
% of relevant standard PEC	Lower: 76% Upper: 25%	50%	n/a	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	-9.93	n/a	-	-

Project Notes

Ty Nant

Site Information Dyfi Estuary / Aber Dyfi (SPA)

Region:	Wales
Site Name:	Dyfi Estuary / Aber Dyfi
Site Code:	UK9020284
Designation Status:	SPA
Distance from Installation (m):	5959
Receptor Type:	Habitat
Grid Reference:	265366.6,292938
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.03	0.13	0.009	-	-

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	0.02506	0.13	0.009	-	-
Background concentration at receptor edge	0.73	9.94	0.86 (N:0.71|S:0.15)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.76	10.07	0.87	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Anser albifrons flavirostris (Greenland/Ireland/UK)	maxN: 0.57 maxS: 0.25 minN: 0.32 Anser albifrons flavirostris (Greenland/Ireland/UK)	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 3% Upper: 1%	3%	2%	-	-
% of relevant standard PEC	Lower: 76% Upper: 25%	201%	153%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	5.07	0.30	-	-

Project Notes

Ty Nant

Site Information Pencarreg-Gopa a Moel Hyrddod (SSSI)

Region:	Wales
Site Name:	Pencarreg-Gopa a Moel Hyrddod
Site Code:	5935
Designation Status:	SSSI
Distance from Installation (m):	6288
Receptor Type:	Habitat
Grid Reference:	271197,294626.5
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.02	0.12	0.006	-	-

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	0.02361	0.12	0.006	-	-
Background concentration at receptor edge	0.47	10.64	0.95 (N:0.76|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.49	10.76	0.96	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Bogs ALTERNATIVE CRITICAL LOAD INFO	maxN: 0.68 maxS: 0.35 minN: 0.32 Bogs	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	2%	1%	-	-
% of relevant standard PEC	Lower: 49% Upper: 16%	215%	141%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	5.76	0.28	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information Pencreigiau|R Llan (SSSI)

Region:	Wales
Site Name:	Pencreigiau|R Llan
Site Code:	6417
Designation Status:	SSSI
Distance from Installation (m):	7082
Receptor Type:	Habitat
Grid Reference:	274166.7,293863.3
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.02	0.11	0.007	-	-

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	0.02075	0.11	0.007	-	-
Background concentration at receptor edge	0.47	10.64	0.95 (N:0.76|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.49	10.75	0.96	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	3.0 Standing open water - oligotrophic	maxN: 0.75 maxS: 0.43 minN: 0.32 Inland rock	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	4%	1%	-	-
% of relevant standard PEC	Lower: 49% Upper: 16%	358%	128%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	7.75	0.21	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information Pumlumon (Plynlimon) (SSSI)

Region:	Wales
Site Name:	Pumlumon (Plynlimon)
Site Code:	5349
Designation Status:	SSSI
Distance from Installation (m):	7598
Receptor Type:	Habitat
Grid Reference:	276636,286146.2
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOu/s)	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	Ty Nant	1	1	-	3.4	-	0.02	0.1	0.007	-	-

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	0.01926	0.10	0.007	-	-
Background concentration at receptor edge	0.46	13.16	1.19 (N:0.94|S:0.25)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.48	13.26	1.2	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	3.0 Dystrophic loch ALTERNATIVE CRITICAL LOAD INFO	maxN: 0.76 maxS: 0.44 minN: 0.32 Montane habitats	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	3%	1%	-	-
% of relevant standard PEC	Lower: 48% Upper: 16%	442%	158%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	10.26	0.44	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information Mwyngloddfa Cwmbrwyno (SSSI)

Region:	Wales
Site Name:	Mwyngloddfa Cwmbrwyno
Site Code:	4978
Designation Status:	SSSI
Distance from Installation (m):	8201
Receptor Type:	Habitat
Grid Reference:	271363.9,280616.6
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.02	0.09	0.006	-	-

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	0.01780	0.09	0.006	-	-
Background concentration at receptor edge	0.61	11.20	0.99 (N:0.80|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.63	11.29	1	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	No sensitive habitat or species at this site ALTERNATIVE CRITICAL LOAD INFO	No sensitive habitat or species at this site	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 63% Upper: 21%	n/a	n/a	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	n/a	n/a	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information Cwm Llyfnant (SSSI)

Region:	Wales
Site Name:	Cwm Llyfnant
Site Code:	4190
Designation Status:	SSSI
Distance from Installation (m):	8442
Receptor Type:	Habitat
Grid Reference:	271964.5,296644.5
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue)	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	Ty Nant	1	1	-	3.4	-	0.02	0.13	0.009	-	-

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	0.01728	0.13	0.009	-	-
Background concentration at receptor edge	0.54	16.10	0.92 (N:0.73|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.56	16.23	0.93	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland ALTERNATIVE CRITICAL LOAD INFO	maxN: 0.75 maxS: 0.43 minN: 0.32 Inland rock	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	3%	1%	-	-
% of relevant standard PEC	Lower: 56% Upper: 19%	325%	124%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	11.23	0.18	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information Borth - Clarach (SSSI)

Region:	Wales
Site Name:	Borth - Clarach
Site Code:	5554
Designation Status:	SSSI
Distance from Installation (m):	8724
Receptor Type:	Habitat
Grid Reference:	260722.6,288907.2
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOu/s)	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	Ty Nant	1	1	-	3.4	-	0.02	0.09	0.006	-	-

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	0.01672	0.09	0.006	-	-
Background concentration at receptor edge	0.87	9.38	0.80 (N:0.67|S:0.13)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.89	9.47	0.81	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	No sensitive habitat or species at this site ALTERNATIVE CRITICAL LOAD INFO	No sensitive habitat or species at this site	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 89% Upper: 30%	n/a	n/a	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	n/a	n/a	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information Chwarel Ponterwyd (Ponterwyd Quarry) (SSSI)

Region:	Wales
Site Name:	Chwarel Ponterwyd (Ponterwyd Quarry)
Site Code:	6439
Designation Status:	SSSI
Distance from Installation (m):	8935
Receptor Type:	Habitat
Grid Reference:	274028.5,280921.3
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue)	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	Ty Nant	1	1	-	3.4	-	0.02	0.06	0.006	-	-

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	0.01634	0.09	0.006	-	-
Background concentration at receptor edge	0.61	11.20	0.99 (N:0.80|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.63	11.29	1	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	No sensitive habitat or species at this site ALTERNATIVE CRITICAL LOAD INFO	No sensitive habitat or species at this site	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 63% Upper: 21%	n/a	n/a	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	n/a	n/a	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information Ffordd Coed Dol-Fawr (SSSI)

Region:	Wales
Site Name:	Ffordd Coed Dol-Fawr
Site Code:	6241
Designation Status:	SSSI
Distance from Installation (m):	9035
Receptor Type:	Habitat
Grid Reference:	270227.7,279588.7
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.02	0.06	0.006	-	-

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	0.01616	0.06	0.006	-	-
Background concentration at receptor edge	0.85	12.04	1.05 (N:0.86|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.87	12.12	1.06	-	-
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: 2% Upper: 1%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 87% Upper: 29%	n/a	n/a	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	n/a	n/a	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information Afon Rheidol Ger Capel Bangor (SSSI)

Region:	Wales
Site Name:	Afon Rheidol Ger Capel Bangor
Site Code:	5214
Designation Status:	SSSI
Distance from Installation (m):	9357
Receptor Type:	Habitat
Grid Reference:	265341.5,280177.8
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.02	0.12	0.006	-	-

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	0.01562	0.12	0.006	-	-
Background concentration at receptor edge	0.93	19.74	1.03 (N:0.86|S:0.17)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.95	19.86	1.04	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland ALTERNATIVE CRITICAL LOAD INFO	maxN: 0.74 maxS: 0.42 minN: 0.18 Inland rock	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	2%	1%	-	-
% of relevant standard PEC	Lower: 95% Upper: 32%	397%	141%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	14.86	0.30	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Site Information Coedydd a Cheunant Rheidol (Rheidol Woods & Gorge) (SSSI)

Region:	Wales
Site Name:	Coedydd a Cheunant Rheidol (Rheidol Woods & Gorge)
Site Code:	5953
Designation Status:	SSSI
Distance from Installation (m):	9495
Receptor Type:	Habitat
Grid Reference:	274885.4,280810.3
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.02	0.12	0.006	-	-

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	0.01540	0.12	0.006	-	-
Background concentration at receptor edge	0.61	19.32	0.99 (N:0.80|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.63	19.44	1	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland ALTERNATIVE CRITICAL LOAD INFO	maxN: 1.47 maxS: 0.43 minN: 1.03 Dwarf shrub heath	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	2%	0%	-	-
% of relevant standard PEC	Lower: 63% Upper: 21%	389%	44%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	14.44	-0.47	-	-

Project Notes

Ty Nant

SAVE RESULTS SAVE INPUTS

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

BACK

Content Specific Help Text

Site Information: Coedydd a Cheunant Rheidol / Rheidol Woods and Gorge (SAC)

Region:	Wales
Site Name:	Coedydd a Cheunant Rheidol / Rheidol Woods and Gorge
Site Code:	UK0012748
Designation Status:	SAC
Distance from Installation (m):	9495
Receptor Type:	Habitat
Grid Reference:	274885.9,280810.7
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOu/s)	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	Ty Nant	1	1	-	3.4	-	0.02	0.12	0.006	-	-

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	0.01540	0.12	0.006	-	-
Background concentration at receptor edge	0.61	19.32	1.65 (N:1.38|S:0.27)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.63	19.44	1.66	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Old sessile oak woods with Ilex and Blechnum in the British Isles	maxN: 1.48 maxS: 1.19 minN: 0.28 Old sessile oak woods with Ilex and Blechnum in the British Isles	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	1%	1%	-	-
% of relevant standard PEC	Lower: 63% Upper: 21%	194%	112%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	9.44	0.18	-	-

Project Notes

Content Specific Help Text

Site Information: Coed y Gofer (SSSI)

Region:	Wales
Site Name:	Coed y Gofer
Site Code:	6355
Designation Status:	SSSI
Distance from Installation (m):	9549
Receptor Type:	Habitat
Grid Reference:	264388.4,296692.1
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOu/s)	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	Ty Nant	1	1	-	3.4	-	0.02	0.12	0.006	-	-

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	0.01532	0.12	0.006	-	-
Background concentration at receptor edge	0.62	14.14	1.17 (N:1.01|S:0.16)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.64	14.26	1.18	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland ALTERNATIVE CRITICAL LOAD INFO	maxN: 1.18 maxS: 0.89 minN: 0.28 Broad-leaved, mixed and yew woodland	-	-
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	2%	1%	-	-
% of relevant standard PEC	Lower: 64% Upper: 21%	285%	100%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	9.26	-0.00	-	-

Project Notes

Ty Nant

Content Specific Help Text

Site Information Rheidol Shingles and Backwaters (SSSI)

Region:	Wales
Site Name:	Rheidol Shingles and Backwaters
Site Code:	6425
Designation Status:	SSSI
Distance from Installation (m):	9736
Receptor Type:	Habitat
Grid Reference:	263168.8,281142.1
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOu/s)	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	Ty Nant	1	1	-	3.4	-	0.02	0.12	0.008	-	-

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	0.01503	0.12	0.008	-	-
Background concentration at receptor edge	0.94	17.36	0.89 (N:0.74|S:0.15)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.96	17.48	0.9	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland	maxN: 0.98 maxS: 0.80 minN: 0.18 Inland rock	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	2%	1%	-	-
% of relevant standard PEC	Lower: 96% Upper: 32%	350%	92%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	12.48	-0.08	-	-

Project Notes

Ty Nant

Content Specific Help Text

Site Information: Bryn Bras (SSSI)

Region:	Wales
Site Name:	Bryn Bras
Site Code:	5693
Designation Status:	SSSI
Distance from Installation (m):	9776
Receptor Type:	Habitat
Grid Reference:	274306,280109.4
Met Site:	SENN
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (ba)	NH_3 (ba)	Odour (kOue/s)	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	Ty Nant	1	1	-	3.4	-	0.01	0.08	0.005	-	-

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	0.01497	0.08	0.005	-	-
Background concentration at receptor edge	0.61	11.20	0.99 (N:0.80|S:0.19)	-	-
Predicted Environmental Concentration/Deposition (PEC)	0.62	11.28	1	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Inland rock	maxN: 0.75 maxS: 0.43 minN: 0.32 Inland rock	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 1% Upper: 0%	2%	1%	-	-
% of relevant standard PEC	Lower: 62% Upper: 21%	226%	133%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	6.28	0.24	-	-

Project Notes

Ty Nant

SSSI Name	Background Levels		Contribution to ammonia average (NH3) concentration from this proposal	Critical level for habitat (ug)	% contribution to NH3 critical levels (CL for habitat is 3ug)*	Contribution to Nitrogen (N) deposition from this proposal	CL for habitat (kg/ha/yr)	% contribution to N critical loads (CL for habitat Low Level)
	NH3 (ug)	N (kg)						
27905 Ancient Semi Natural Woodland	0.83	17.92	5.08154	3	169%	39.60	10	396%
30889 Ancient Semi Natural Woodland	0.83	17.92	1.77661	3	59.2%	13.80	10	138%
30871 Ancient Semi Natural Woodland	0.83	17.92	2.81011	3	93.67%	21.90	10	219%
30884 Ancient Semi Natural Woodland	0.83	17.92	2.01658	3	67.21%	15.70	10	157%
Gwaun Troed-Rhiw-Seiri a Llyn Mynydd-Gorddu	0.83	10.50	0.05411	3	1.80%	0.28	3	9.3%
Craigypistyll	0.52	10.64	0.05051	3	1.68%	0.26	5	5.2%
Coed Cwm Cletwr	0.73	16.52	0.04721	3	1.57%	0.37	5	7.4%
Cwmsymlog	0.93	12.04	0.03220	3	1.07%	0.17	8	2.1%
Dyfi	0.73	9.94	0.03188	3	1.06%	0.17	5	3.4%
Cors Fochno	0.73	9.94	0.03167	3	1.05%	0.16	5	3.2%
Banc Llety-Spence	0.61	11.20	0.03050	3	1.01%	0.16	8	2%
Cae Ty-Hen	0.87	16.10	0.02907	3	0.9%	0.23	5	4.6%
Coed Cwm Einion	0.73	16.52	0.02594	3	0.8%	0.20	15	1.3%
Coed Cwm Einion	0.73	16.52	0.02594	3	0.8%	0.20	5	4%
Pen Llyn a'r Srnau / Lleyn Peninsula and the Sarnau	0.73	9.94	0.02506	3	0.8%	0.13	20	0.6%
Dyfi Estuary / Aber Dyfi	0.73	9.94	0.02506	3	0.8%	0.13	5	2.6%
Pencarreg-Gopa amoel Hyrddod	0.47	10.64	0.02361	3	0.78%	0.12	5	2.4%
Pencreigiau R Llan	0.47	10.64	0.02075	3	0.69%	0.11	3	3.6%
Pumlumon (Plynlimon)	0.46	13.16	0.01926	3	0.64%	0.10	3	3.3%
Cwm Llfnant	0.54	16.10	0.01728	3	0.57%	0.13	5	2.6%

Afon Rheidol Ger Capel Bangor	0.93	19.74	0.01562	3	0.52%	0.12	5	2.4%
Coedydd a Cheunant Rheidol (Rheidol Woods & Gorge)	0.61	19.32	0.01540	3	0.51%	0.12	5	2.4%
Coedydd a Cheunant Rheidol / Rheidol Woods and Gorge	0.61	19.32	0.01540	3	0.51%	0.12	10	1.2%
Coed y Gofer	0.62	14.14	0.01532	3	0.51%	0.12	5	2.4%
Rheidol Singles and Backwaters	0.94	17.36	0.01503	3	0.50%	0.12	5	2.4%
Bryn Bras	0.61	11.20	0.01497	3	0.49%	0.08	5	1.6%