

SCAIL

Simple Calculation of Atmospheric Impact Limits



[Scail Home](#) | [User Guide](#) | [SCAIL-Agriculture Report](#) | [Regulator Contact Details](#) | [Contact Us](#) | [Online Tutorial](#)

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.**

LOAD INPUT DATA



Project Details

Project Notes

23/00785/FUL - Botcheston Bog Site of Special Scientific Interest

Project Run Mode

☒ Conservative Met ☐ Realistic Met

Location Details

Select Country

England

Installation Details

Installation

1

Installation Name

Manure and Slurry Store

Installation Location

449750,303650

☐ Landranger ☒ x,y

CHOOSE/VERIFY LOCATION

Source Details

Source

2

Source

☒ Pig ☐ Poultry ☐ Cattle ☐ User defined emissions

New or Existing Source

Existing

Source Name

Manure Store

Source Location

Provides a link to GoogleMaps to check the location.

449850,303650

☐ Landranger ☒ x,y

VERIFY LOCATION

Source Type

Litter / Manure storage

Type

Manure heap

Tonnes Fresh Manure (t)

300

Area of Storage (m2)

449.8

Total emissions :

Pollutant	Source Emissions	Running total of all emission sources	Units
NH ₃ :	447	490	(kg)
PM ₁₀ :	0	0	(kg)
Odour:	728481600	738241992	(kOu)

Designated Site details:

Search Radius ? 10 km

RUN RECEPTOR SEARCH ?

No. of Designated Sites ? 16

VERIFY RECEPTOR LOCATIONS ?

Site No.	Name	Distance(km)	Designation	Country	Easting	Northing
1	Botcheston Bog	1.432	SSSI	undefined	448658.5	304576.3
2	Groby Pool & Woods	4.64	SSSI	undefined	451531.7	307934
3	Enderby Warren Quarry	5.599	SSSI	undefined	454008.5	300014.8
4	Sheet Hedges Wood	5.73	SSSI	undefined	452907.3	308431.7
5	Bradgate Park & Cropston Reservoir	6.628	SSSI	undefined	452472.7	309693.2
6	Croft & Huncote Quarry	6.769	SSSI	undefined	451242.6	297047.1
7	Ulverscroft Valley	6.951	SSSI	undefined	450371.3	310572.7
8	Croft Hill	6.971	SSSI	undefined	450947.5	296782.8
9	Cliffe Hill Quarry	7.062	SSSI	undefined	447767.3	310427.5
10	Narborough Bog	7.518	SSSI	undefined	454866.3	298141.2
11	Croft Pasture	7.788	SSSI	undefined	450938.8	295952.8
12	Benscliffe Wood	8.774	SSSI	undefined	451413.5	312264.9
13	Swithland Wood & The Brand	9.018	SSSI	undefined	453766.1	311724.4
14	Roeccliffe Manor Lawns	9.438	SSSI	undefined	453150	312454
15	Bardon Hill	9.839	SSSI	undefined	446112.3	312791.9
16	Bardon Hill Quarry	9.849	SSSI	undefined	445531.7	312550.4

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 ?

SAVE INPUT DATA

CLEAR FORM

CALCULATE