

# 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 [?](#) 1

Source [?](#) ☒ Pig ☐ Poultry ☐ Cattle ☐ User defined emissions

New or Existing Source [?](#) Existing

Source Name [?](#) Slurry Store

Source Location [?](#) Provides a link to GoogleMaps to check the location.

449750,303650 ☐ Landranger ☒ x,y  
[VERIFY LOCATION](#) [?](#)

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

Type [?](#) Slurry - circular store

Details [?](#) Rigid cover

Tonnes Fresh Manure (t) [?](#) 0

Area of Storage (m2) [?](#) 154.75

Total emissions [?](#)

| Pollutant         | Source Emissions | Running total of all emission sources | Units |
|-------------------|------------------|---------------------------------------|-------|
| NH <sub>3</sub> : | 43               | 490                                   | (kg)  |

PM<sub>10</sub>:

0

0

(kg)

Odour:

9760392

738241992

(kOu)

GET EMISSIONS VALUES ?

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        | Grobby 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       | Roelcliffe 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

PM<sub>10</sub> percentile

Annual Average 

▼

 ?

Receptor Name

Receptor Location

Landranger

x,y

VERIFY LOCATION ?

CHECK BACKGROUND PM10 LEVELS ?

SAVE INPUT DATA

CLEAR FORM

CALCULATE