



EIA Statement

1 Introduction

The **Environmental Impact Assessment (Agriculture) (Wales) Regulations 2017** *exclude routine agricultural operations, work on already improved land*, and projects covered by other regulatory regimes. Specifically, the regulations do not apply to regular maintenance (e.g., routine ditch cleaning, bracken control), cultivation of land with >25% improved grass/clover, or projects requiring separate planning/forestry consent.

Key Exclusions and Exemptions:

- **Routine Operations:** Regular activities carried out over several years, such as routine ditch cleaning or regular fertilizer application.
- **Improved Land:** *Agricultural work on arable land, temporary grasslands, or pastures that already contain more than 25% improved agricultural grasses and/or white clover.*
- **Other Regulatory Regimes:** Projects covered by separate legislation for forestry, land drainage, or specific water management.
- **Built Environment:** The erection of buildings, fences, and certain other structural developments that fall under general planning permission.
- **Small Projects:** While no strict size threshold exists, the [EIA \(Agriculture\) Unit](#) may exclude very small areas of semi-natural habitat from needing a screening decision, focusing instead on larger, more significant impacts.

2. Simple Summary of the Aims and Exclusions of the Regulations

The regulations strictly target "uncultivated" or "semi-natural" land, where improvement works (ploughing, draining, etc.) could significantly impact the environment.

The **Environmental Impact Assessment (Agriculture) (Wales) Regulations 2017** apply to projects on uncultivated or semi-natural land and large-scale restructuring projects. *However, several operations and specific land types are excluded from these requirements:*

2.1 Relevant Exclusions

Excluded Examples include:

2.1.1 Routine Operations

Works that have been carried out regularly over a number of years are generally excluded;

- Routine cleaning** of ditches.
- Regular application** of fertilisers.
- Bracken control** that is not followed by re-seeding.

2.1.2 Cultivated or Improved Land

Agricultural work is excluded if it is performed on land that is already significantly altered for production:

- Arable land** and temporary grasslands.
- Improved pastures** containing more than 25% improved agricultural species (such as perennial ryegrass or white clover).

3. Screening

3.1 Summary & Conclusion

This proposed landspreading of waste washwaters (LoW code 020501 biodegradable materials unsuitable for consumption or processing) to confer agricultural benefit to land by use of mobile plant, is a **waste recovery activity** which is subject to regulation under an **existing Environmental Permit SR 2010 No.4, Permit No. EPR/DB3592ZM**. that the **Operator Puffin Produce Ltd** holds.

This Environmental Impact Assessment Statement is being made to support a **Landspreading Deployment Application** to be carried out on land at **Clarborough Farm**, Narberth Road, Haverfordwest, Pembrokeshire, Wales, SA62 4PB, for approval by Natural Resources Wales. Site Centre Grid Reference: SM 99018 15533.



View of Clarborough Farm from the North

Clarborough Farms' 9 x specified fields to be subjected to landspreading as part of the have been managed and intensively farmed for at least 15 years in the cultivation of arable crops including barley, potato, leeks, cauliflower etc.

It should be concluded that the proposed landspreading at Clarborough Farm is **excluded** from the **Environmental Impact Assessment (Agriculture) (Wales) Regulations 2017**, for the following reasons:

- The farms' specified fields have been **subject to routine agricultural operations** for at least 15 years or more.
- The farms' specified fields **are improved for arable agriculture**.
- The farms' specified fields **are** historically **already improved land**.
- The farms' specified fields **are not uncultivated or semi-natural land**
- The farms' specified fields **are already significantly altered for production of arable cultivation**.

3.1 Site Plan

A **Site Location Map** is provided in **Appendix 1 - Map of Site, Fields, Sensitive Receptors & Locations Data**, along with other supporting **Site Plans, Nearby Receptors, Assessments** and relevant **Data** within the **Appendix - 1** of this document.

3.2 Project Description:

The nature of the work is **landspreading** of waste washwaters containing nutrients **to confer agricultural benefit to land** by use of mobile plant.

Controlled deployment of washwaters, created as a result of rinsing and cleaning milk silos, the washwaters are treated and separated to remove unwanted solids, the heavily diluted recovered and treated washwaters are to be spread on the specified fields using a tractor and slurry tanker utilising a splash plate to apply the liquid directly onto the land beneath.

Heavy cultivations such as ploughing or drainage works **are not to take place** on the site or specified fields **during spreading operations**.

Further information and details are provided separately in the **Agricultural Benefit Statement**.

3.3 Environmental Sensitivity:

There are 9 x specified fields to be subjected to landspreading, which are clustered around the Farm House and Farm Yard, there are **freshwater springs, streams and Millin Brook** that are located down gradient from the fields to the South East, South and South West that borders the mid to lower cluster of these fields.

There are strips of **Ancient Low Wood Land** that also borders the South, West and North West of the lower cluster of Fields.

There is a **Site of Scientific Interest (SSSI)**: Milford Haven Waterway, SSSI ID: 282, SSSI CODE: 32WP3cic, that the freshwater streams springs, streams and Millin Brook feed into which is **located over a kilometre away to the South of Millin Cross**.

Further information and details are provided in **Appendix 1 - Map of Site, Fields, Sensitive Receptors & Locations Data**.

3.4 Agricultural Evidence:

- **Historical Arial Imagery:**

Image Date: 18th February 2016

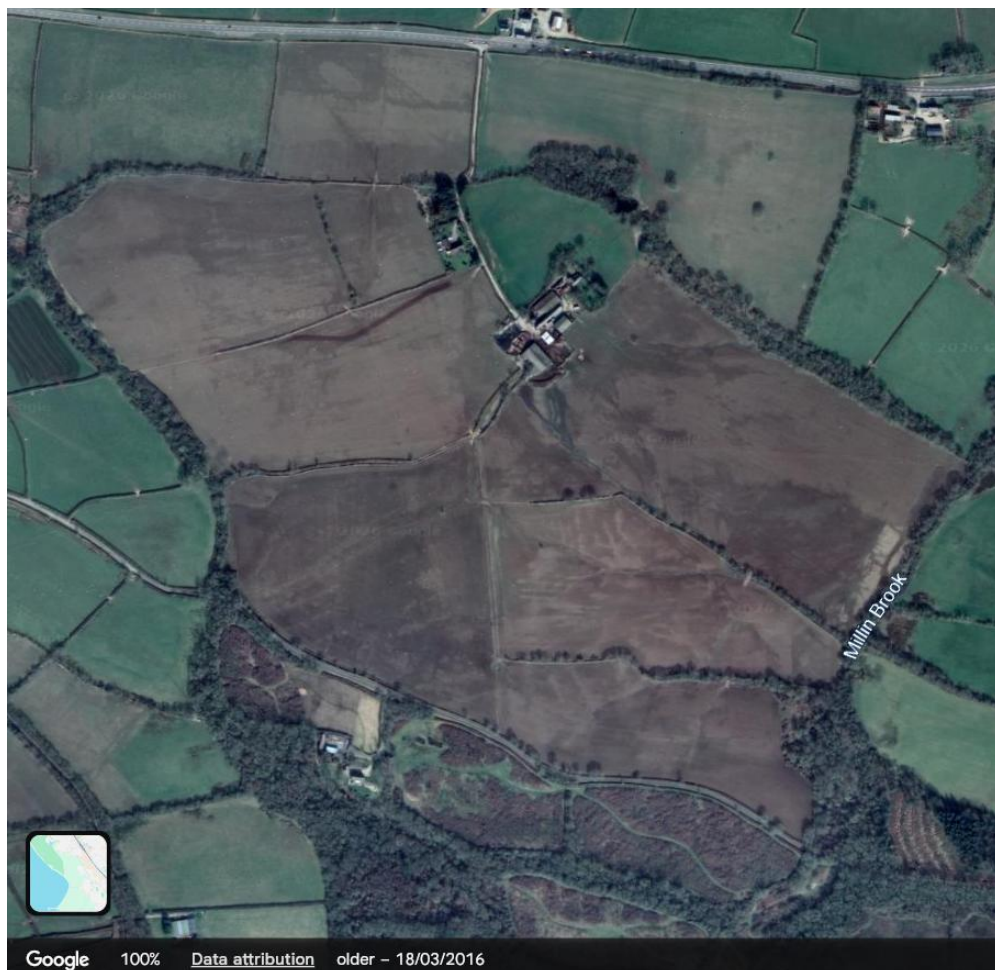


Image Date: 8th July 2018

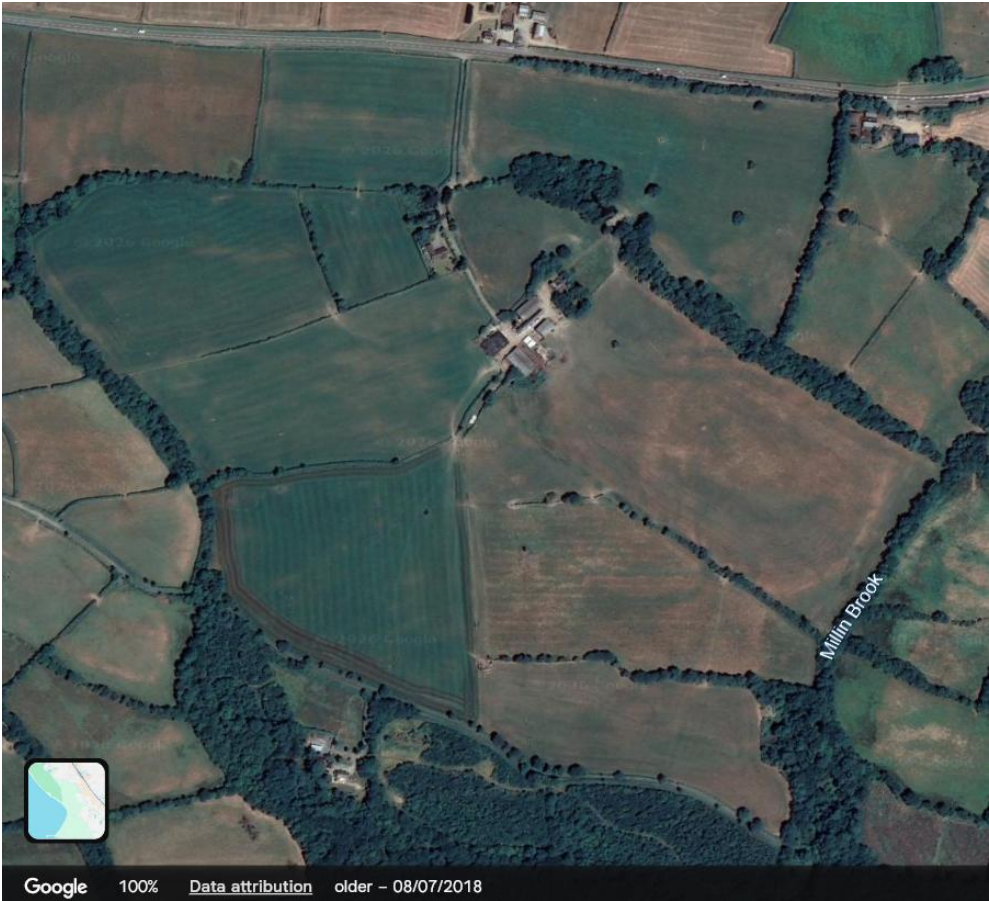
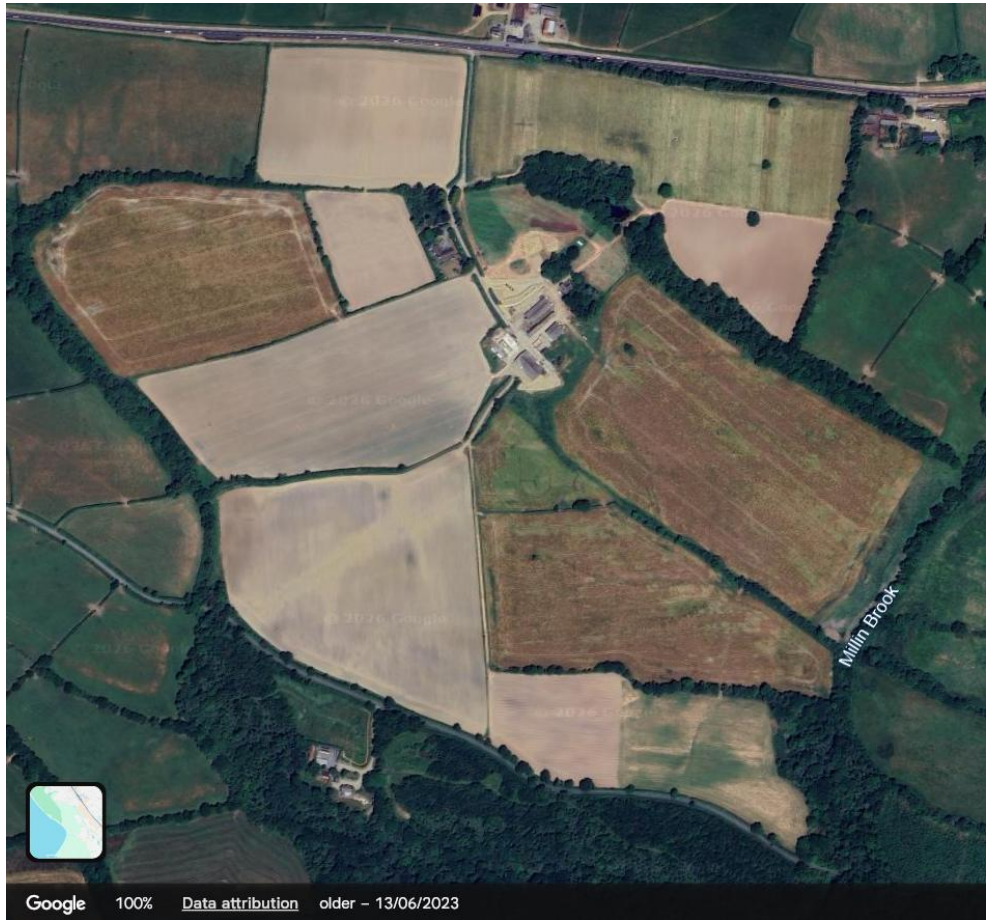


Image Date: 13th June 2023



- Documentation of previous cultivation over the last 5 years:

Clarborough Farm	Ac.	2022	2023	2024	2025
Above Bungalow	10.1	Brassica	Potatoes	Leeks	Cover Crop
Upper Cotts Park	16.6	Cereal	Brassica	Potatoes	Cover Crop
Bungalow Paddock	3.8	Brassica	Leeks	Potatoes	Cover Crop
Triangle yard	4.9	Grass	Grass	Grass	Grass
Middle Cotts Park	18.1	Potatoes	Brassica	Cereal	Cover Crop
Lower Cotts Park	19.8	Brassica	Potatoes	Cereal	Cover Crop
Front Field	30	Cereal	Cover Crop	Cover Crop	Leeks
Gold Mine	16.9	Cereal	Cover Crop	Cereal	Potatoes
Bottom Field	7	Potatoes	Potatoes	Cereal	Daffs
	153.5				
Total Ac. By Crop		2022	2023	2024	2025
Potatoes		25.1	49.2	32.7	16.9
Leeks		12.3	3.8	10.1	30.0
Grass		4.9	4.9	4.9	4.9
Cereal		63.5	-	61.8	-
Cover Crop		-	46.9	30.0	68.4
Daffs		14.0	14.0	14.0	21.0

3.5 Consultation Responses:

None

Appendices

Appendix 1 – Map of Site, Fields, Sensitive Receptors & Locations Data

Appendix 2 – Analysis Records

- Waste Washwaters Analysis
- Soil Analysis Reports



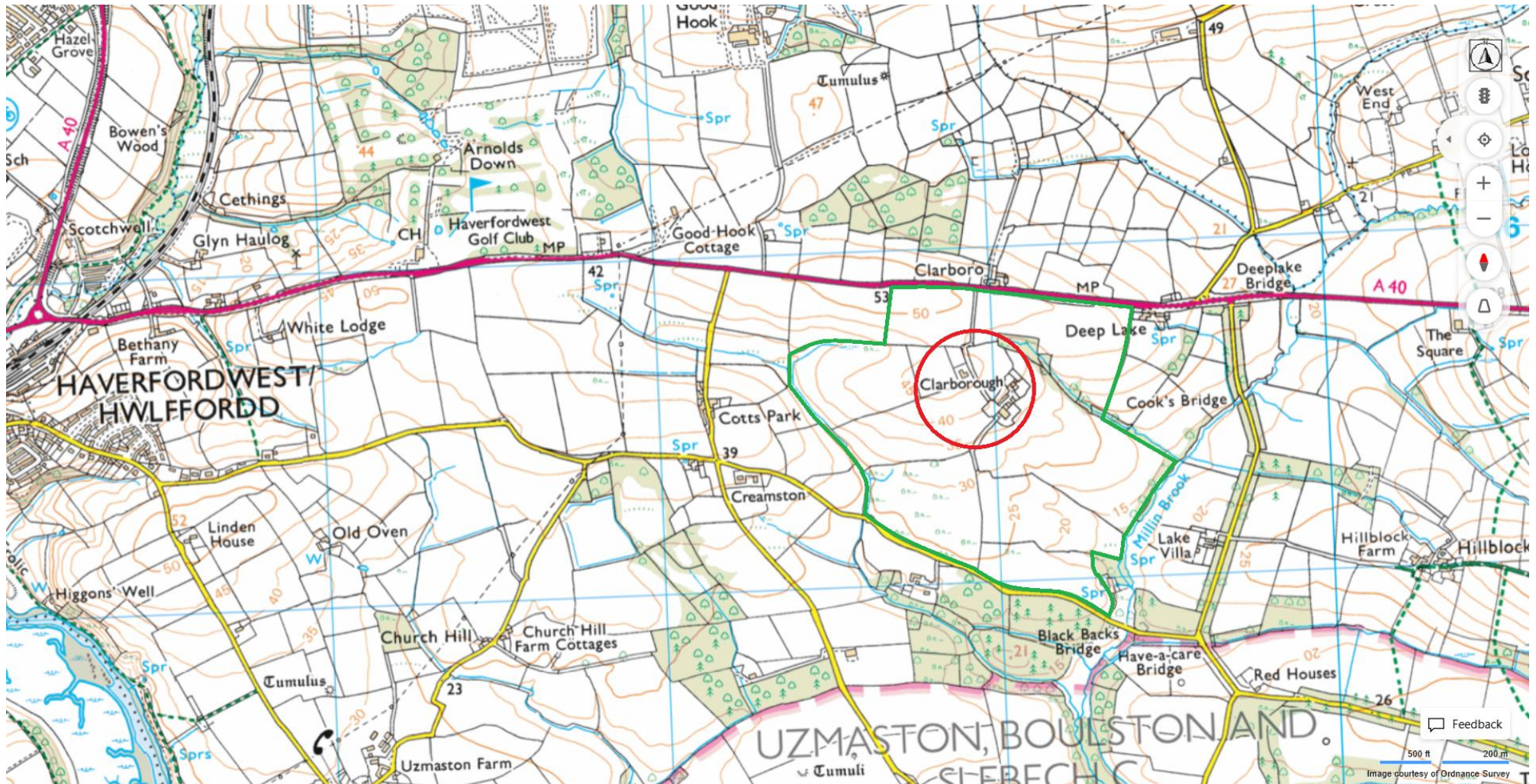
Appendix 1

Map of Site, Fields, Sensitive Receptors & Locations Data

1.1 Site Location Map

Key: ○ - Clarborough Farm, NGR: SM 99018 15533

■ - Extent of Fields



1.2 Landspreading Field Areas Map

Site Centre and Borehole NGR: SM 99018 15533



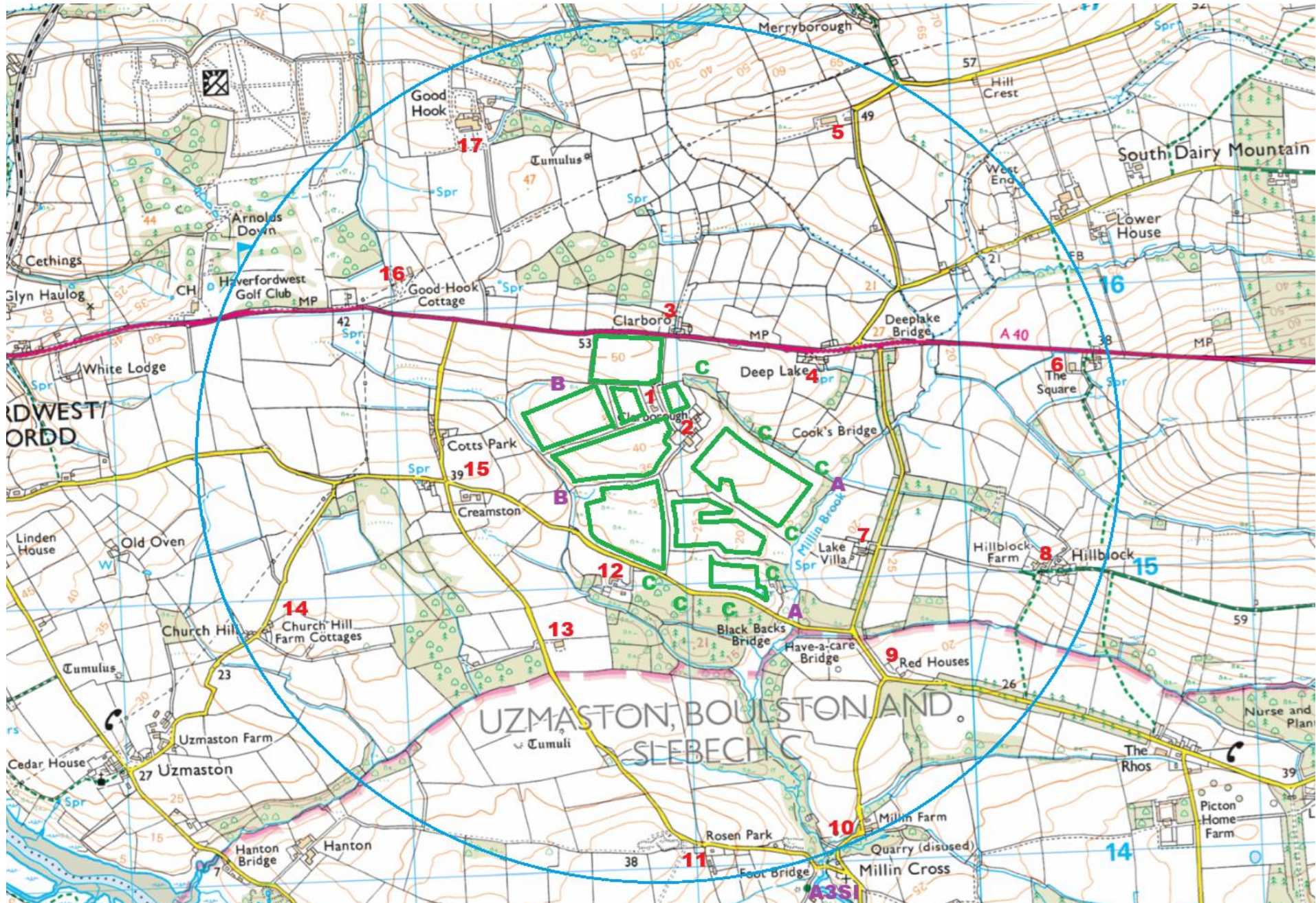
1.3 Aerial Map of Field Locations

Google Earth image date 13/06/2023



1.4 Sensitive Receptors

1.4.1 Sensitive Receptors (1 – 17 and A, B & C) within 1 Km of the [Spreading Activities]) Map



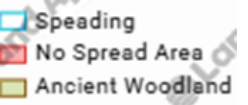
1.4.2 Sensitive Receptors

Table 1.4.2 Key to Sensitive Receptors Map			
Identifier	Description	Location	Comments
R1 to R17	All Residential Dwellings and Properties	Within 1 Kilometre of field boundary spreading activities	Predominant and Prevailing Winds are from the South West (see Wind Rose in Section 1.5 below) put highest risk of any possible malodours causing offence to people located North East (downwind) of field spreading activities.
R1 & R2	On-site Bungalow & Farm Yard	Surrounded by field spreading activities	Greatest risk of any possible malodours from field spreading activities from fields located South and West causing offense to people residing or working in this location. R1 Bungalow is 23 metres and R2 Farm Yard is 50metres from field boundary spreading activities when South Westerly winds prevail.
R3 to R5, R16 & R17	Neighbouring Residential Dwellings and Properties	North: of field closest spreading activities	Greater risk of any possible malodours from field spreading activities causing offense to people residing or working in this location. Closest receptor is R3 Clarboro Farm is 50 metres, then R4 Deep Lake Farm is 300 metres and R5 Farm 900 metres from field boundary spreading activities.
R3 to R10		East: of closest field spreading activities	Greater risk of any possible malodours from field spreading activities causing offense to people residing or working in this location. Closest receptor R7 Lake Villa Stables is 280 metres, then R8 Hill Block Farm is 830 metres and R6 Farm at the Square is 950 metres from field boundary spreading activities.
R10 to R15		South: of closest field spreading activities	Lowest risk of any possible malodours from field spreading activities causing offense to people residing or working in this location. Closest receptor is R12 Dwelling is 90 metres from field boundary spreading activities.
R12 to R17		West: of closest field spreading activities	Lowest risk of any possible malodours from field spreading activities causing offense to people residing or working in this location. Closest receptors are R12 Dwellings and Farm at Cotts Park and Creamston is 290 metres and 340 metres from field boundary spreading activities

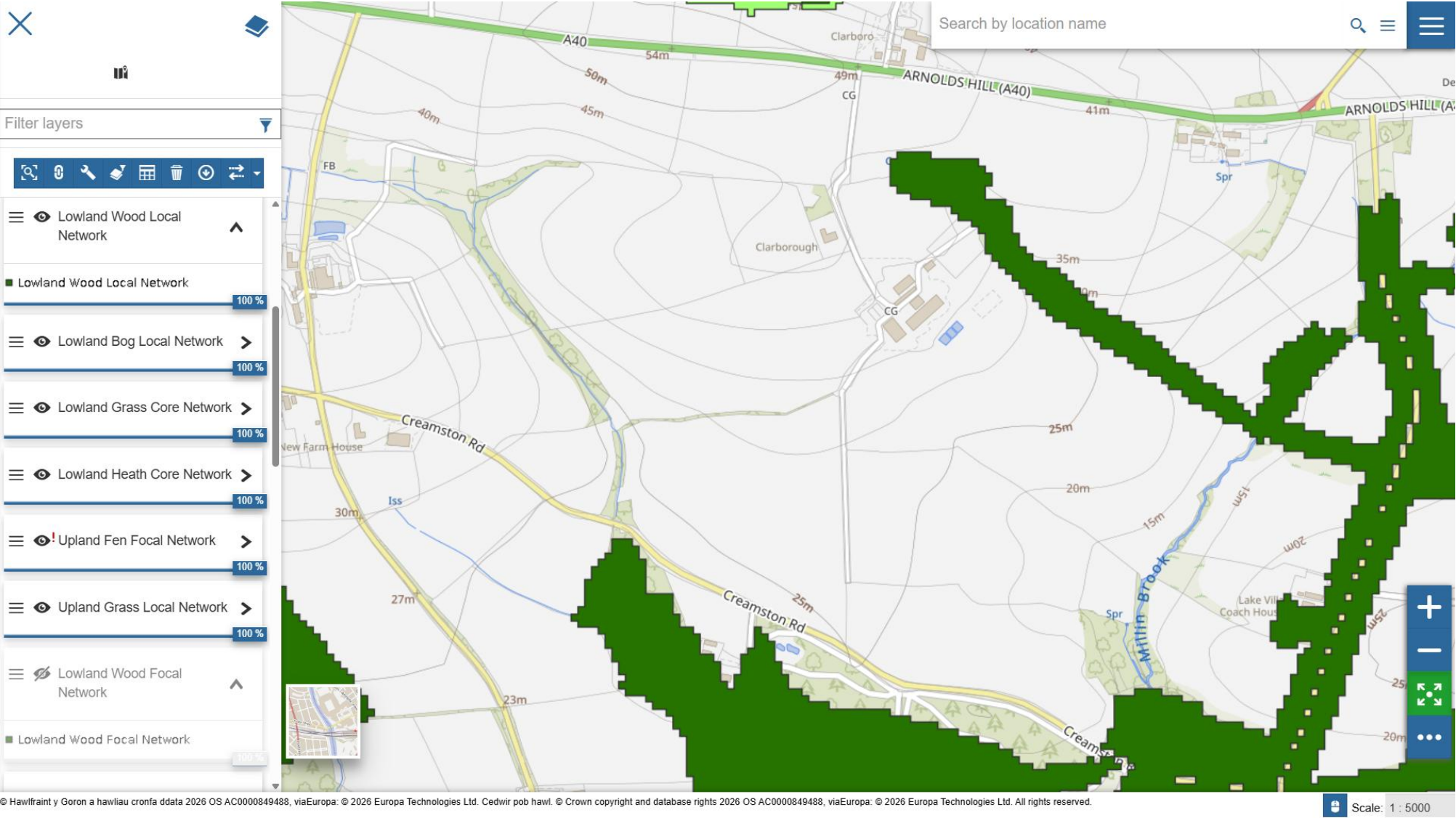
Table 1.4.2 Key to Sensitive Receptors Map

Identifier	Description	Location	Comments	
A, B & A3SI	Surface Waters	East, West and South of field spreading activities	All surface waters drain South towards and into Millin Brook , which finally flows through the Village of Millin Cross and into the Western Cleddau.	
A	Millin Brook	East & South: of closest field spreading activities	Front Field, Gold Mine and Bottom Field with buffer zones are situated 50m metres upgradient from Millin Brook	
B	Stream to Millin Brook	West & South: of closest field spreading activities	Upper, Middle and Lower Cotts Fields with buffer zones are situated 50m metres upgradient from Stream to Millin Brook.	
A3SI	Milford Haven Waterway SSSI sssi id: 282 sssi code: 32WP3	South of closest field spreading activities	Bottom Field with buffer zone is situated 1.07 kilometres or 1070 metres upstream from Milford Haven Waterway. Designated SSSI See map →.	

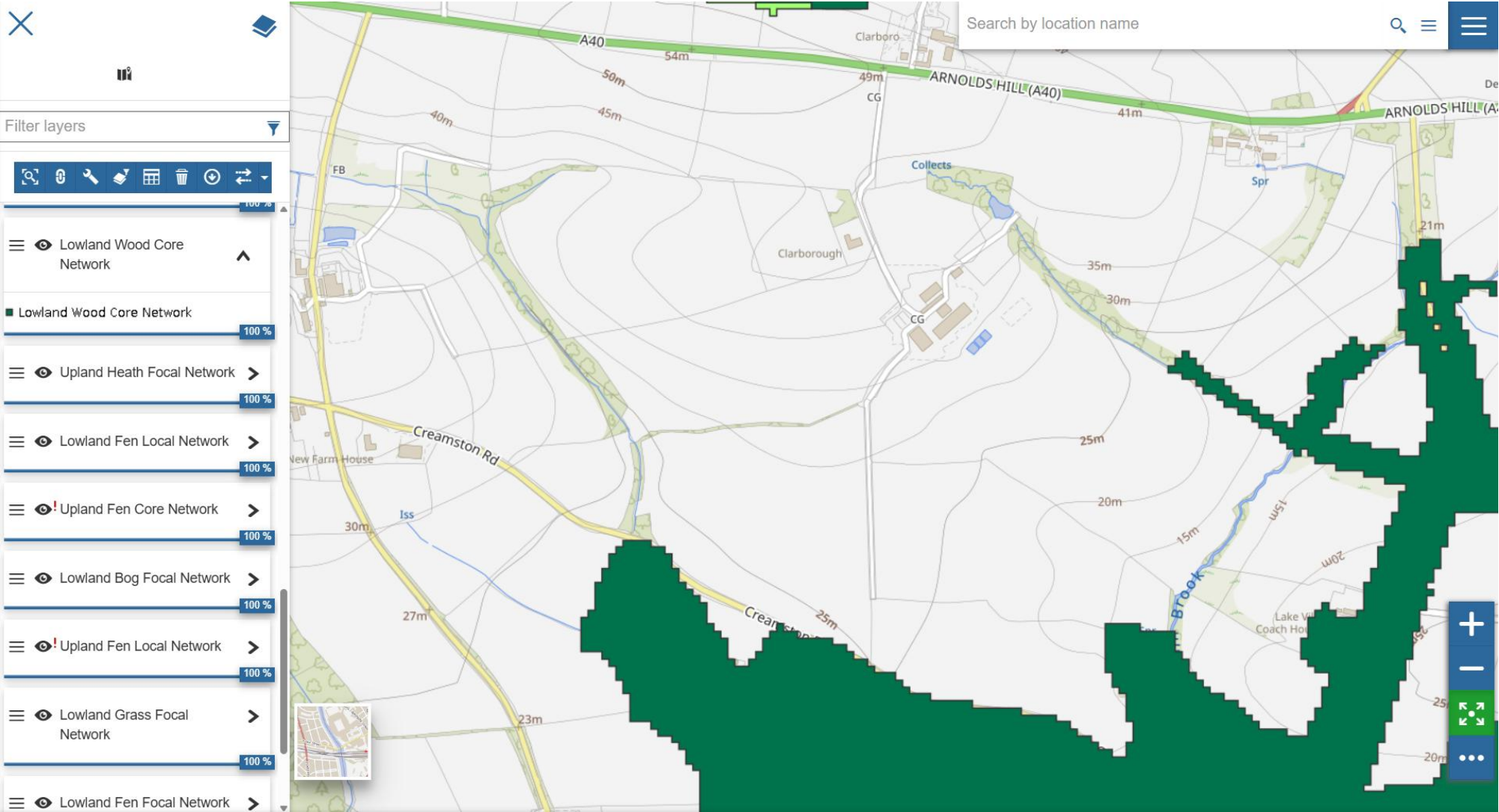
Table 1.4.2 Key to Sensitive Receptors Map

Identifier	Description	Location	Comments	
C	Lowland Woods	North, East & South of closest field spreading activities	Refer to Sections 1.4.3 to 1.4.6 below for map locations and extent of Ancient Woodland.	Key: 
			A buffer of 55.14 metres is in place between the ancient woodland to the East of front field. <i>See map →.</i>	
			A buffer of 50.31 metres is in place to the west of Triangle Yard. <i>See map →.</i>	
			A buffer of 70.47 metres is in place between Gold mine and the springs to the Southeast. <i>See map →.</i>	

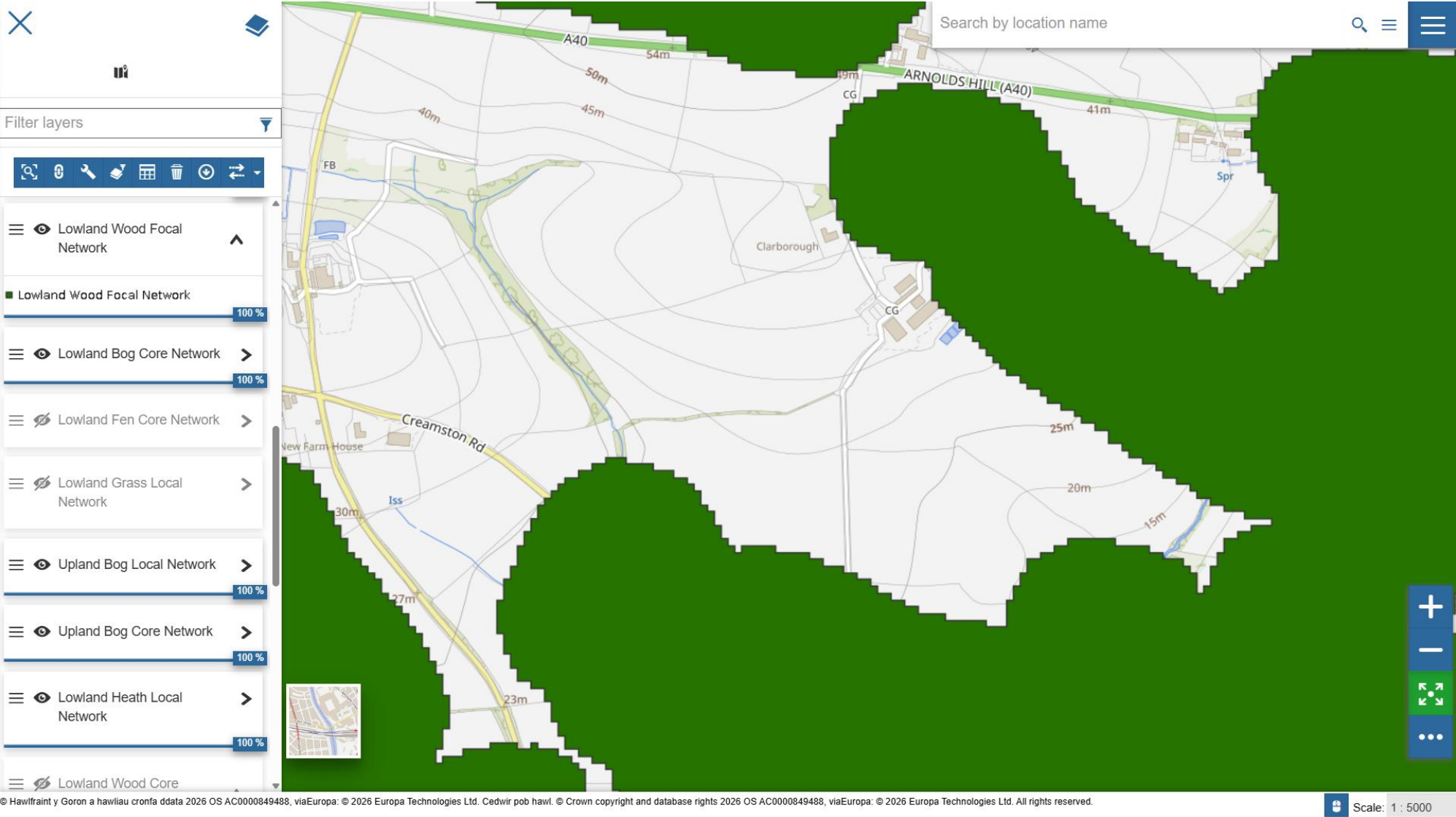
1.4.3 Lowland Wood – Local Network



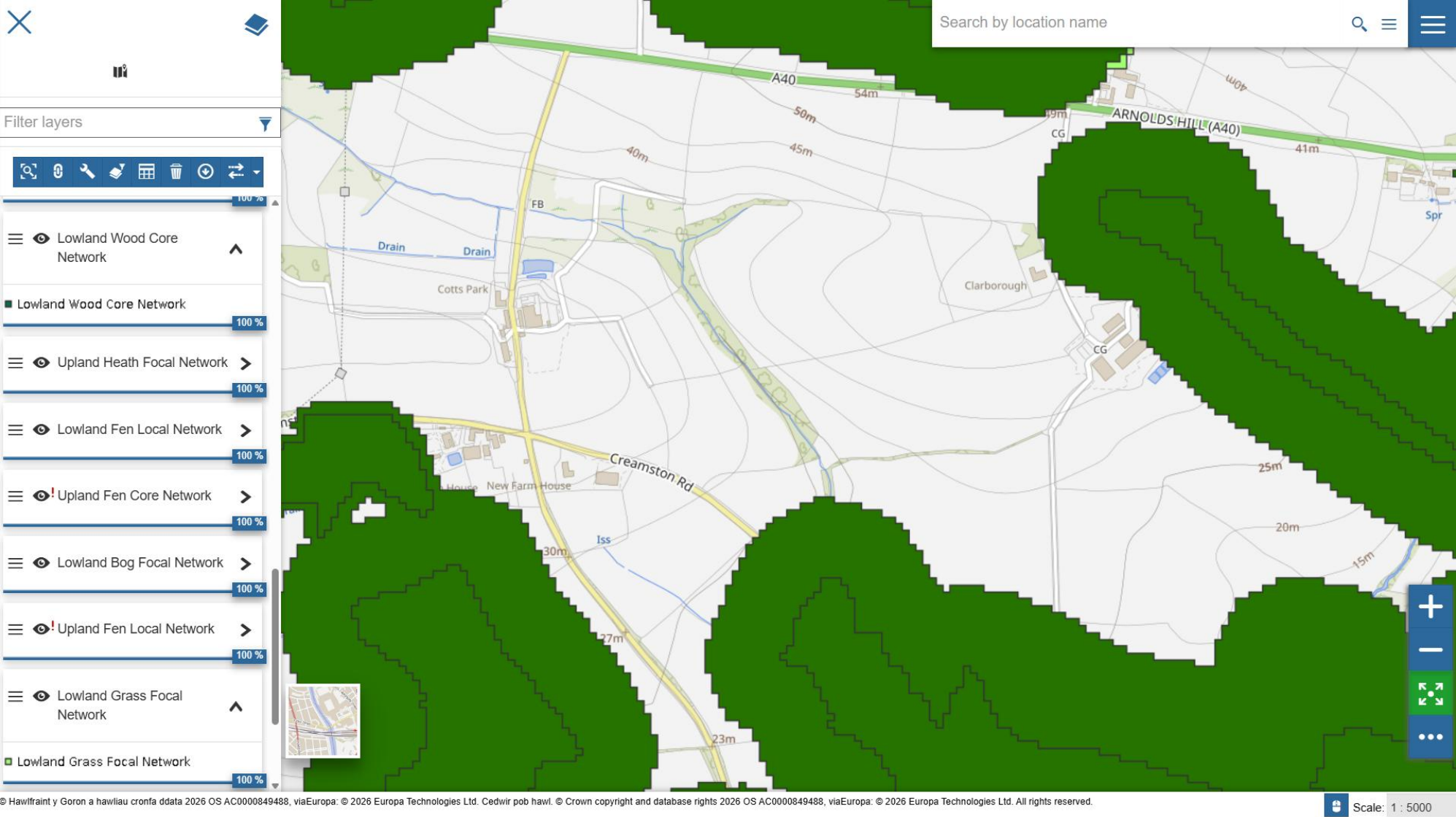
1.4.4 Lowland Wood – Core Network



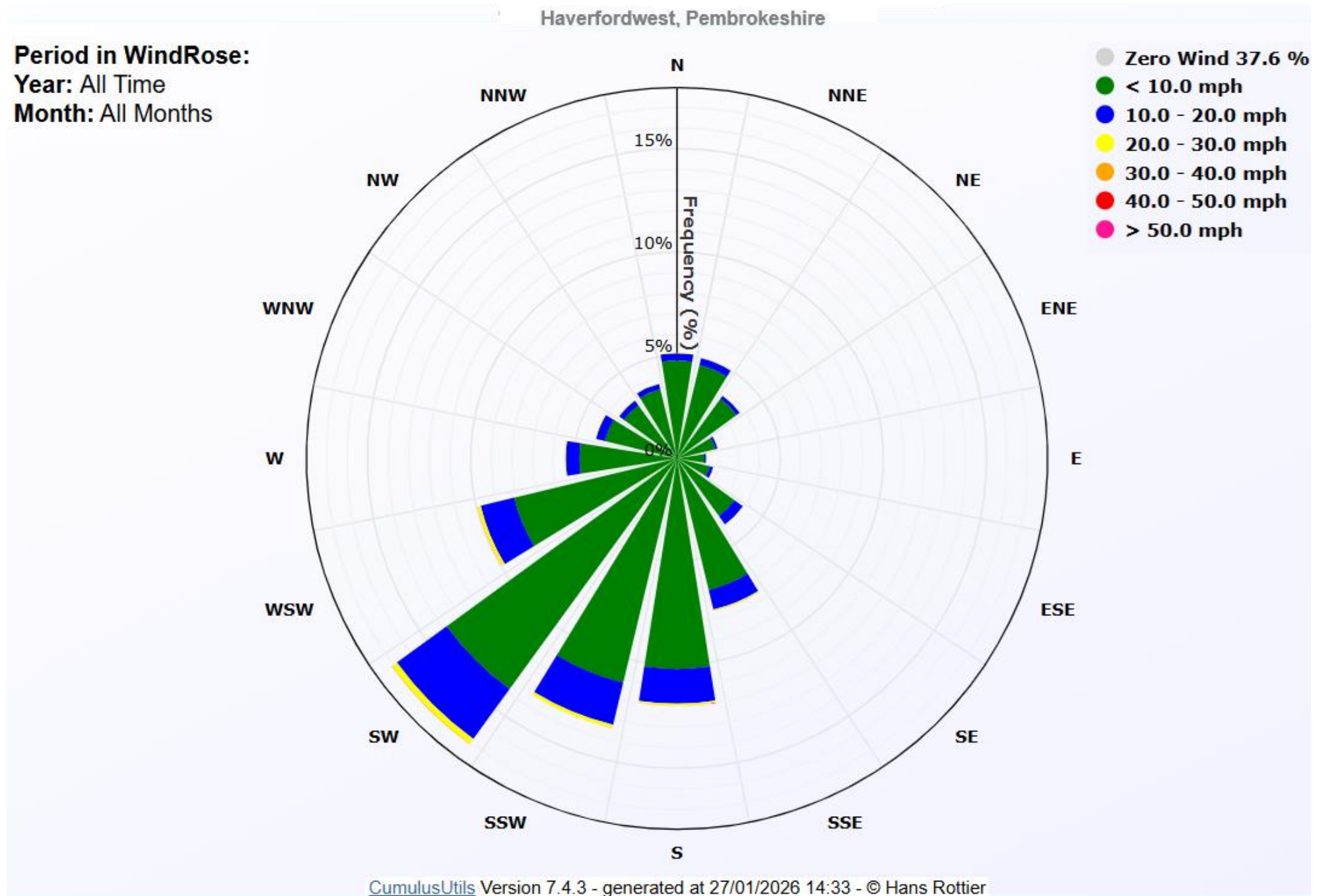
1.4.5 Lowland Wood – Focal Network



1.4.6 Lowland Wood & All Networks



1.5 Wind Rose



1.6 Key to:

1.2 Landspreading Field Areas Map, and;

1.3 Arial Map of Field Locations

Field Areas and Items are numbered in Clockwise order ↻

Table 1.6 Key to Field Areas and Receptor Locations				
Field Item	Description	Grid Reference	Arial Map Centre Reference	Sensitive Receptor Comments
1	Site Centre	SM 99018 15533	Point A	Farm Yard & Borehole location. No spreading area
2	Triangle Yard	SM 98975 15651	Point B	Residential Bungalow 23m to the South West of Triangle Yard. Buffer Zone in place for Millin Brook 50m North & South East and Lowland Wood North East of adjacent Field
3	Front Field	SM 99244 15372	Point C	
4	Gold Mine	SM 99029 15185	Point D	Millin Brook 50m to the South East. Buffer Zones in place for Lowland Wood North, East & South of adjacent Field
5	Bottom Field	SM 99200 15012	Point E	Millin Brook 80m East South East.
6	Lower Cotts	SM 98792 15244	Point F	Buffer Zone in place for Stream to Millin Brook 50m West Buffer Zones in place for Lowland Wood South of adjacent Field
7	Middle Cotts Park	SM 98777 15469	Point G	Buffer Zone in place for Stream to Millin Brook 50m to the West
8	Upper Cotts Park	SM 98605 15606	Point H	
9	Bungalow Paddock	SM 98826 15650	Point I	Residential Bungalow 12m to the East
10	Above Bungalow	SM 98817 15804	Point J	Residential Dwelling 50m to the North

Appendix 2 – Analysis Records



Soil Analysis Reports

Soil analysis report

Customer	PUFFIN PRODUCE LTD WOODLANDS SITE WITHYBUSH SA62 4BS	Distributor	PUFFIN FARMS LTD WOODLANDS SITE WITHYBUSH IND EST HAVERFORDWEST PEMBROKESHIRE SA62 4BS
Sample ref.	BOTTOM FIELD	Received	-
Sample no.	G182955/04	Issued	13/01/2026 (issue 1)
Crop	POTATOES		

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	5.9	6.5						
C.E.C. (meq/100g)	10.7	15.0						
Organic Matter (LOI) (%)	6.9	3.0						
Organic Carbon (LOI) (%)	4.0							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	10	16						
Potassium (ppm)	115	121						
Magnesium (ppm)	98	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	1443	2000						
Sulphur (ppm)	5	10						
Boron (ppm)	1.09	1.60						
Copper (ppm)	2.8	2.1						
Iron (ppm)	869	200						
Manganese (ppm)	22	15						
Molybdenum (ppm)	0.04	0.60						
Sodium (ppm)	95	90						
Zinc (ppm)	2.8	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	5.9	6.5	Low. An acidic environment will reduce soil nutrient availability and the efficiency of any applied fertilisers or organic materials. A sub-optimum pH will also impact on soil microbial populations and rates of activity. Refer to lime requirement.
C.E.C. (meq/100g)	●	10.7	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	6.9	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		4.0	--	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	10	16	[Index 1.0] 210 kg/ha P ₂ O ₅ (168 units/acre).
Potassium (ppm)	●	115	121	[Index 1.9] 330 kg/ha K ₂ O (264 units/acre).
Magnesium (ppm)	●	98	51	[Index 2.9] 40 kg/ha MgO (32 units/acre).
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	1443	2000	CONSIDER TREATMENT.
Sulphur (ppm)	●	5	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.09	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	2.8	2.1	Adequate level.
Iron (ppm)	●	869	200	Adequate level.
Manganese (ppm)	●	22	15	Adequate level.
Molybdenum (ppm)	●	0.04	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	95	90	Normal level.
Zinc (ppm)	●	2.8	4.1	Low priority on this crop. Other crops may be affected.

Legend: ● Low ● Medium ● High

Comments:

Accreditation, Interpretation & Decision Rules

* Any analytical parameters marked with an asterisk indicate the test was conducted under our UKAS accreditation. Lancrop Laboratories is a UKAS accredited testing laboratory No.4164. Full scope is available upon request.

All interpretations and comments are outside of our scope of accreditation.

The laboratory exercises a Simple Acceptance decision rule as per ILAC G8:09.

Distributor & customer details, sample reference and crop are supplied by the customer not the testing laboratory.



Sample no.: **G182955/04**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **BOTTOM FIELD**

Any indicated fertiliser application recommendations are taken from AHDB publication "Nutrient Management Guide (RB209)". Any indicated Lime Requirement assumes a medium textured soil.

Data Privacy

To find out what personal data Yara collects and how Yara uses it, please visit our Digital Farming Privacy Policy at www.yara.com/privacy-and-legal

Soil applied P and K recommendations are taken from AHDB Nutrient management Guide (RB209) for Maincrop yielding 50 t/ha.

The potash recommendations at target or lower indices can be adjusted when yield is likely to be larger or smaller than 50 t/ha by multiplying the difference in expected yield by the potash content per tonne yield (see 8th edition RB209 for more detail). Ensure the potash offtake is balanced by application of potash fertiliser on Index 2 soils, and check that the soil is maintained at Index 2 for both phosphate and potash by soil sampling every 3-5 years.

Additional technical bulletins are available at www.lancrop.com

The amounts of phosphate and potash shown at Index 2 are those recommended to achieve a total yield of 50 t/ha. The phosphate recommendations are intended to achieve optimum yield and should not be adjusted even if larger or smaller yields than 50 t/ha are expected.

Released by *Chris Lindley*..... Laboratory Manager, on behalf of Lancrop Laboratories

Please Note: Whilst every care is taken to ensure that the Results from Analysis are as accurate as possible, it is important to note that the analysis relates to the sample received by the laboratory, and is representative only of that sample. No warranty is given by the laboratory that the Results from Analysis relates to any part of a field or growing area not covered by the sample received. It is important to ensure that any soil, leaf, silage or fruitlet sample sent for analysis is representative of the area requiring analysis and that samples are obtained in accordance with established sampling techniques. A leaflet containing instructions on how to take soil, leaf, herbage, silage and fruit samples for analysis is available from the laboratory on request. Uncertainty measurements of results are available on request

Soil analysis report

Customer PUFFIN PRODUCE LTD
WOODLANDS SITE
WITHYBUSH
SA62 4BS

Distributor PUFFIN FARMS LTD
WOODLANDS SITE
WITHYBUSH IND EST
HAVERFORDWEST
PEMBROKESHIRE
SA62 4BS

Sample ref. FRONT FIELD
Sample no. G182955/08
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.1	6.5						
C.E.C. (meq/100g)	12.8	15.0						
Organic Matter (LOI) (%)	10.3	3.0						
Organic Carbon (LOI) (%)	6.0							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	13	16						
Potassium (ppm)	424	121						
Magnesium (ppm)	137	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	1629	2000						
Sulphur (ppm)	9	10						
Boron (ppm)	1.25	1.60						
Copper (ppm)	3.0	2.1						
Iron (ppm)	1267	200						
Manganese (ppm)	53	25						
Molybdenum (ppm)	0.01	0.60						
Sodium (ppm)	41	90						
Zinc (ppm)	5.9	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	6.1	6.5	Slightly low. An acidic environment will reduce soil nutrient availability and the efficiency of any applied fertilisers or organic materials. A sub optimum pH will also impact on soil microbial populations and rates of activity. Refer to lime requirement.
C.E.C. (meq/100g)	●	12.8	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	10.3	3.0	High. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		6.0	--	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	13	16	[Index 1.5] 210 kg/ha P ₂ O ₅ (168 units/acre).
Potassium (ppm)	●	424	121	[Index 4.1] Possible interference with the availability of Magnesium.
Magnesium (ppm)	●	137	51	[Index 3.5] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	1629	2000	CONSIDER TREATMENT.
Sulphur (ppm)	●	9	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.25	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	3.0	2.1	Adequate level.
Iron (ppm)	●	1267	200	Adequate level.
Manganese (ppm)	●	53	25	Adequate level.
Molybdenum (ppm)	●	0.01	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	41	90	Not a problem for this crop.
Zinc (ppm)	●	5.9	4.1	Adequate level.

Legend: ● Low ● Medium ● High

Comments:

Accreditation, Interpretation & Decision Rules

* Any analytical parameters marked with an asterisk indicate the test was conducted under our UKAS accreditation. Lancrop Laboratories is a UKAS accredited testing laboratory No.4164. Full scope is available upon request.

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Sample no.: **G182955/08**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **FRONT FIELD**

Distributor & customer details, sample reference and crop are supplied by the customer not the testing laboratory.

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Released by *Chris Lindley* Laboratory Manager, on behalf of Lancrop Laboratories

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Soil analysis report

Customer PUFFIN PRODUCE LTD
WOODLANDS SITE
WITHYBUSH
SA62 4BS

Distributor PUFFIN FARMS LTD
WOODLANDS SITE
WITHYBUSH IND EST
HAVERFORDWEST
PEMBROKESHIRE
SA62 4BS

Sample ref. COVER COTTS

Received

Sample no. G182955/06

Issued

-

13/01/2026 (issue 1)

Crop POTATOES

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.5	6.5						
C.E.C. (meq/100g)	13.9	15.0						
Organic Matter (LOI) (%)	7.5	3.0						
Organic Carbon (LOI) (%)	4.3							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	42	16						
Potassium (ppm)	166	121						
Magnesium (ppm)	138	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	1851	2000						
Sulphur (ppm)	9	10						
Boron (ppm)	1.21	1.60						
Copper (ppm)	4.1	2.1						
Iron (ppm)	1055	200						
Manganese (ppm)	69	45						
Molybdenum (ppm)	0.01	0.60						
Sodium (ppm)	78	90						
Zinc (ppm)	7.2	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	6.5	6.5	Adequate level. Maintain pH to ensure optimum nutrient availability and ideal conditions for an active soil biology.
C.E.C. (meq/100g)	●	13.9	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	7.5	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		4.3	--	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	42	16	[Index 3.8] 100 kg/ha P2O5 (80 units/acre).
Potassium (ppm)	●	166	121	[Index 2.4] 300 kg/ha K2O (240 units/acre).
Magnesium (ppm)	●	138	51	[Index 3.5] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	1851	2000	CONSIDER TREATMENT.
Sulphur (ppm)	●	9	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.21	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	4.1	2.1	Adequate level.
Iron (ppm)	●	1055	200	Adequate level.
Manganese (ppm)	●	69	45	Adequate level.
Molybdenum (ppm)	●	0.01	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	78	90	Not a problem for this crop.
Zinc (ppm)	●	7.2	4.1	Adequate level.

Legend: ● Low ● Medium ● High

Comments:

Accreditation, Interpretation & Decision Rules

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Data Privacy

Sample no.: **G182955/06**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **COVER COTTS**

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The potash recommendations at target or lower indices can be adjusted when yield is likely to be larger or smaller than 50 t/ha by multiplying the difference in expected yield by the potash content per tonne yield (see 8th edition RB209 for more detail). Ensure the potash offtake is balanced by application of potash fertiliser on Index 2 soils, and check that the soil is maintained at Index 2 for both phosphate and potash by soil sampling every 3-5 years.

Additional technical bulletins are available at www.lancrop.com

The amounts of phosphate and potash shown at Index 2 are those recommended to achieve a total yield of 50 t/ha. The phosphate recommendations are intended to achieve optimum yield and should not be adjusted even if larger or smaller yields than 50 t/ha are expected.

Released by *Chris Lindley* Laboratory Manager, on behalf of Lancrop Laboratories

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Soil analysis report

Customer PUFFIN PRODUCE LTD
WOODLANDS SITE
WITHYBUSH
SA62 4BS

Distributor PUFFIN FARMS LTD
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HAVERFORDWEST
PEMBROKESHIRE
SA62 4BS

Sample ref. TRIANGLE YARD
Sample no. G182955/01
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.8	6.5						
C.E.C. (meq/100g)	13.5	15.0						
Organic Matter (LOI) (%)	6.8	3.0						
Organic Carbon (LOI) (%)	3.9							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	10	16						
Potassium (ppm)	124	121						
Magnesium (ppm)	100	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	2025	2000						
Sulphur (ppm)	2	10						
Boron (ppm)	1.14	1.60						
Copper (ppm)	3.6	2.1						
Iron (ppm)	1228	200						
Manganese (ppm)	85	60						
Molybdenum (ppm)	< 0.01	0.40						
Sodium (ppm)	81	90						
Zinc (ppm)	4.1	4.1						

Soil analysis report

Customer PUFFIN PRODUCE LTD
WOODLANDS SITE
WITHYBUSH
SA62 4BS

Distributor PUFFIN FARMS LTD
WOODLANDS SITE
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PEMBROKESHIRE
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Sample ref. GOLD MINE
Sample no. G182955/03
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	5.6	6.5						
C.E.C. (meq/100g)	11.9	15.0						
Organic Matter (LOI) (%)	8.7	3.0						
Organic Carbon (LOI) (%)	5.0							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	27	16						
Potassium (ppm)	200	121						
Magnesium (ppm)	101	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	1385	2000						
Sulphur (ppm)	5	10						
Boron (ppm)	1.05	1.60						
Copper (ppm)	2.5	2.1						
Iron (ppm)	636	200						
Manganese (ppm)	38	5						
Molybdenum (ppm)	0.03	0.60						
Sodium (ppm)	35	90						
Zinc (ppm)	3.6	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	5.6	6.5	Low. An acidic environment will reduce soil nutrient availability and the efficiency of any applied fertilisers or organic materials. A sub-optimum pH will also impact on soil microbial populations and rates of activity. Refer to lime requirement.
C.E.C. (meq/100g)	●	11.9	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	8.7	3.0	High. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		5.0	--	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	27	16	[Index 3.1] 100 kg/ha P ₂ O ₅ (80 units/acre).
Potassium (ppm)	●	200	121	[Index 2.7] 300 kg/ha K ₂ O (240 units/acre).
Magnesium (ppm)	●	101	51	[Index 3.0] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	1385	2000	CONSIDER TREATMENT.
Sulphur (ppm)	●	5	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.05	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	2.5	2.1	Adequate level.
Iron (ppm)	●	636	200	Adequate level.
Manganese (ppm)	●	38	5	Adequate level.
Molybdenum (ppm)	●	0.03	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	35	90	Not a problem for this crop.
Zinc (ppm)	●	3.6	4.1	Low priority on this crop. Other crops may be affected.

Legend: ● Low ● Medium ● High

Comments:

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Sample no.: **G182955/03**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **GOLD MINE**

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Data Privacy

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Released by *Chris Lindley*..... Laboratory Manager, on behalf of Lancrop Laboratories

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Soil analysis report

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SA62 4BS

Distributor PUFFIN FARMS LTD
WOODLANDS SITE
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PEMBROKESHIRE
SA62 4BS

Sample ref. MIDDLE COTTS
Sample no. G182954/06
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	7.0	6.5						
C.E.C. (meq/100g)	16.0	15.0						
Organic Matter (LOI) (%)	4.7	3.0						
Organic Carbon (LOI) (%)	2.7							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	28	16						
Potassium (ppm)	227	121						
Magnesium (ppm)	127	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	2459	2000						
Sulphur (ppm)	8	10						
Boron (ppm)	1.53	1.60						
Copper (ppm)	7.8	2.1						
Iron (ppm)	699	200						
Manganese (ppm)	124	70						
Molybdenum (ppm)	0.01	0.30						
Sodium (ppm)	86	90						
Zinc (ppm)	7.3	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	7.0	6.5	Adequate level. Maintain pH to ensure optimum nutrient availability and ideal conditions for an active soil biology.
C.E.C. (meq/100g)	●	16.0	15.0	Cation Exchange Capacity indicates a soil with a good nutrient holding ability.
Organic Matter (LOI) (%)	●	4.7	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		2.7	--	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	28	16	[Index 3.1] 100 kg/ha P ₂ O ₅ (80 units/acre).
Potassium (ppm)	●	227	121	[Index 2.9] 300 kg/ha K ₂ O (240 units/acre).
Magnesium (ppm)	●	127	51	[Index 3.3] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	2459	2000	Adequate level.
Sulphur (ppm)	●	8	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.53	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	7.8	2.1	Adequate level.
Iron (ppm)	●	699	200	Adequate level.
Manganese (ppm)	●	124	70	Adequate level.
Molybdenum (ppm)	●	0.01	0.30	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	86	90	Not a problem for this crop.
Zinc (ppm)	●	7.3	4.1	Adequate level.

Legend: ● Low ● Medium ● High

Comments:

Accreditation, Interpretation & Decision Rules

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Data Privacy

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Sample no.: **G182954/06**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **MIDDLE COTTS**

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Released by *Chris Lindley* Laboratory Manager, on behalf of Lancrop Laboratories

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Soil analysis report

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WOODLANDS SITE
WITHYBUSH
SA62 4BS

Distributor PUFFIN FARMS LTD
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SA62 4BS

Sample ref. ABOVE BUNGALOW
Sample no. G182954/07
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.5	6.5						
C.E.C. (meq/100g)	15.4	15.0						
Organic Matter (LOI) (%)	5.9	3.0						
Organic Carbon (LOI) (%)	3.4							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	18	16						
Potassium (ppm)	250	121						
Magnesium (ppm)	114	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	2085	2000						
Sulphur (ppm)	8	10						
Boron (ppm)	1.31	1.60						
Copper (ppm)	4.1	2.1						
Iron (ppm)	937	200						
Manganese (ppm)	141	45						
Molybdenum (ppm)	0.02	0.60						
Sodium (ppm)	51	90						
Zinc (ppm)	3.4	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH		6.5	6.5	Adequate level. Maintain pH to ensure optimum nutrient availability and ideal conditions for an active soil biology.
C.E.C. (meq/100g)		15.4	15.0	Cation Exchange Capacity indicates a soil with a good nutrient holding ability.
Organic Matter (LOI) (%)		5.9	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		3.4	--	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)		18	16	[Index 2.2] 170 kg/ha P2O5 (136 units/acre).
Potassium (ppm)		250	121	[Index 3.1] 150 kg/ha K2O (120 units/acre). Maintenance.
Magnesium (ppm)		114	51	[Index 3.2] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)		2085	2000	Adequate level.
Sulphur (ppm)		8	10	CONSIDER TREATMENT.
Boron (ppm)		1.31	1.60	CONSIDER TREATMENT.
Copper (ppm)		4.1	2.1	Adequate level.
Iron (ppm)		937	200	Adequate level.
Manganese (ppm)		141	45	Adequate level.
Molybdenum (ppm)		0.02	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)		51	90	Not a problem for this crop.
Zinc (ppm)		3.4	4.1	Low priority on this crop. Other crops may be affected.

Legend:  Low  Medium  High

Comments:

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Sample no.: **G182954/07**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **ABOVE BUNGALOW**

Soil applied P and K recommendations are taken from AHDB Nutrient management Guide (RB209) for Maincrop yielding 50 t/ha.

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Released by *Chris Lindley*..... Laboratory Manager, on behalf of Lancrop Laboratories

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Soil analysis report

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SA62 4BS

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WITHYBUSH IND EST
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SA62 4BS

Sample ref. BUNGALOW PADDOCK
Sample no. G182954/08
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.1	6.5						
C.E.C. (meq/100g)	14.8	15.0						
Organic Matter (LOI) (%)	5.9	3.0						
Organic Carbon (LOI) (%)	3.4							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	20	16						
Potassium (ppm)	158	121						
Magnesium (ppm)	117	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	1959	2000						
Sulphur (ppm)	6	10						
Boron (ppm)	1.22	1.60						
Copper (ppm)	5.0	2.1						
Iron (ppm)	803	200						
Manganese (ppm)	79	25						
Molybdenum (ppm)	0.03	0.60						
Sodium (ppm)	39	90						
Zinc (ppm)	3.4	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	6.1	6.5	Slightly low. An acidic environment will reduce soil nutrient availability and the efficiency of any applied fertilisers or organic materials. A sub optimum pH will also impact on soil microbial populations and rates of activity. Refer to lime requirement.
C.E.C. (meq/100g)	●	14.8	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	5.9	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		3.4	—	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	20	16	[Index 2.4] 170 kg/ha P ₂ O ₅ (136 units/acre).
Potassium (ppm)	●	158	121	[Index 2.3] 300 kg/ha K ₂ O (240 units/acre).
Magnesium (ppm)	●	117	51	[Index 3.2] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	1959	2000	CONSIDER TREATMENT.
Sulphur (ppm)	●	6	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.22	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	5.0	2.1	Adequate level.
Iron (ppm)	●	803	200	Adequate level.
Manganese (ppm)	●	79	25	Adequate level.
Molybdenum (ppm)	●	0.03	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	39	90	Not a problem for this crop.
Zinc (ppm)	●	3.4	4.1	Low priority on this crop. Other crops may be affected.

Legend: ● Low ● Medium ● High

Comments:

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Sample no.: **G182954/08**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **BUNGALOW PADDOCK**

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Soil analysis report

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SA62 4BS

Sample ref. UPPER COTTS
Sample no. G182954/10
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.2	6.5						
C.E.C. (meq/100g)	14.3	15.0						
Organic Matter (LOI) (%)	5.5	3.0						
Organic Carbon (LOI) (%)	3.2							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	22	16						
Potassium (ppm)	138	121						
Magnesium (ppm)	111	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	2119	2000						
Sulphur (ppm)	5	10						
Boron (ppm)	1.41	1.60						
Copper (ppm)	5.1	2.1						
Iron (ppm)	890	200						
Manganese (ppm)	59	30						
Molybdenum (ppm)	0.02	0.60						
Sodium (ppm)	40	90						
Zinc (ppm)	3.5	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	6.2	6.5	Slightly low. An acidic environment will reduce soil nutrient availability and the efficiency of any applied fertilisers or organic materials. A sub optimum pH will also impact on soil microbial populations and rates of activity. Refer to lime requirement.
C.E.C. (meq/100g)	●	14.3	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	5.5	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		3.2	—	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	22	16	[Index 2.6] 170 kg/ha P ₂ O ₅ (136 units/acre).
Potassium (ppm)	●	138	121	[Index 2.1] 300 kg/ha K ₂ O (240 units/acre).
Magnesium (ppm)	●	111	51	[Index 3.1] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	2119	2000	Adequate level.
Sulphur (ppm)	●	5	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.41	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	5.1	2.1	Adequate level.
Iron (ppm)	●	890	200	Adequate level.
Manganese (ppm)	●	59	30	Adequate level.
Molybdenum (ppm)	●	0.02	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	40	90	Not a problem for this crop.
Zinc (ppm)	●	3.5	4.1	Low priority on this crop. Other crops may be affected.

Legend: ● Low ● Medium ● High

Comments:

Accreditation, Interpretation & Decision Rules

* Any analytical parameters marked with an asterisk indicate the test was conducted under our UKAS accreditation. Lancrop Laboratories is a UKAS accredited testing laboratory No.4164. Full scope is available upon request.

All interpretations and comments are outside of our scope of accreditation.

The laboratory exercises a Simple Acceptance decision rule as per ILAC G8:09.

Distributor & customer details, sample reference and crop are supplied by the customer not the testing laboratory.

Sample no.: **G182954/10**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **UPPER COTTS**

Any indicated fertiliser application recommendations are taken from AHDB publication "Nutrient Management Guide (RB209)". Any indicated Lime Requirement assumes a medium textured soil.

Data Privacy

To find out what personal data Yara collects and how Yara uses it, please visit our Digital Farming Privacy Policy at www.yara.com/privacy-and-legal
Soil applied P and K recommendations are taken from AHDB Nutrient management Guide (RB209) for Maincrop yielding 50 t/ha.

The potash recommendations at target or lower indices can be adjusted when yield is likely to be larger or smaller than 50 t/ha by multiplying the difference in expected yield by the potash content per tonne yield (see 8th edition RB209 for more detail). Ensure the potash offtake is balanced by application of potash fertiliser on Index 2 soils, and check that the soil is maintained at Index 2 for both phosphate and potash by soil sampling every 3-5 years.

Additional technical bulletins are available at www.lancrop.com

The amounts of phosphate and potash shown at Index 2 are those recommended to achieve a total yield of 50 t/ha. The phosphate recommendations are intended to achieve optimum yield and should not be adjusted even if larger or smaller yields than 50 t/ha are expected.

Released by Chris Lindley Laboratory Manager, on behalf of Lancrop Laboratories

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Soil analysis report

Customer PUFFIN PRODUCE LTD
WOODLANDS SITE
WITHYBUSH
SA62 4BS

Distributor PUFFIN FARMS LTD
WOODLANDS SITE
WITHYBUSH IND EST
HAVERFORDWEST
PEMBROKESHIRE
SA62 4BS

Sample ref. ROAD FIELD
Sample no. G182954/09
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.3	6.5						
C.E.C. (meq/100g)	14.9	15.0						
Organic Matter (LOI) (%)	6.9	3.0						
Organic Carbon (LOI) (%)	4.0							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	17	16						
Potassium (ppm)	140	121						
Magnesium (ppm)	108	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	2257	2000						
Sulphur (ppm)	5	10						
Boron (ppm)	1.34	1.60						
Copper (ppm)	5.5	2.1						
Iron (ppm)	709	200						
Manganese (ppm)	40	35						
Molybdenum (ppm)	0.01	0.60						
Sodium (ppm)	45	90						
Zinc (ppm)	4.1	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	6.3	6.5	Slightly low. An acidic environment will reduce soil nutrient availability and the efficiency of any applied fertilisers or organic materials. A sub optimum pH will also impact on soil microbial populations and rates of activity. Refer to lime requirement.
C.E.C. (meq/100g)	●	14.9	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	6.9	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		4.0	—	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	17	16	[Index 2.1] 170 kg/ha P ₂ O ₅ (136 units/acre).
Potassium (ppm)	●	140	121	[Index 2.2] 300 kg/ha K ₂ O (240 units/acre).
Magnesium (ppm)	●	108	51	[Index 3.1] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	2257	2000	Adequate level.
Sulphur (ppm)	●	5	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.34	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	5.5	2.1	Adequate level.
Iron (ppm)	●	709	200	Adequate level.
Manganese (ppm)	●	40	35	Adequate level.
Molybdenum (ppm)	●	0.01	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	45	90	Not a problem for this crop.
Zinc (ppm)	●	4.1	4.1	Adequate level.

Legend: ● Low ● Medium ● High

Comments:

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Sample no.: **G182954/09**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **ROAD FIELD**

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Additional technical bulletins are available at www.lancrop.com

The amounts of phosphate and potash shown at Index 2 are those recommended to achieve a total yield of 50 t/ha. The phosphate recommendations are intended to achieve optimum yield and should not be adjusted even if larger or smaller yields than 50 t/ha are expected.

Released by *Chris Lindley* Laboratory Manager, on behalf of Lancrop Laboratories

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Washwaters Analysis

Slurry analysis report

Customer	PUFFIN PRODUCE LTD WITHYBUSH IND ESTATE HAVERFORDWEST SA62 4BS	Distributor	PUFFIN FARMS LTD WOODLANDS SITE WITHYBUSH IND EST HAVERFORDWEST PEMBROKESHIRE SA62 4BS
Sample ref.	PCL DAF	Received	27/03/2026
Sample no.	G182938A/01	Issued	16/04/2026 (issue 1)

Nutrient	Fresh weight (kg/m3)	Fresh weight (units/1000 gallons)	kg applied at (250 kg N/ha)	kg applied at (250 m3/ha)
Total Nitrogen (%)	1.40	12.6	250.0	351.0
Phosphorus as P2O5	0.05	0.5	9.5	13.4
Potassium as K2O	0.21	1.91	258.2	40.4
Magnesium as MgO	0.02	0.15	20.9	2.8
Calcium as CaO	0.08	0.76	102.4	21.0
Sulphur as SO3	0.80	7.20	975.6	200.0
Copper Slurry	0.0001	0.00	<1	<1
Zinc Slurry	0.0002	0.00	<1	<1
Av N (NO3-N + NH4-N)	0.11	0.99	134.1	27.5
Nitrate Nitrogen	0.09	0.81	109.8	22.5
Ammonium Nitrogen	0.02	0.18	24.4	5.0

Additional analysis	Result
Dry Matter (kg/m3)	3.80
pH	5.7
C:N RATIO	4.7
Mercury (mg/l)	< 0.01

Comments:

Results are quoted on a fresh weight basis and represent total levels (unless otherwise indicated). Not all the above amounts will be available in the first season. Nitrogen is particularly variable and is affected by the weather after spreading and speed of incorporation into the soil. For information relating to the % of these total nutrients that are available in the first year of use please refer to AHDB publication Nutrient Management Guide (RB209) - Section 2 Organic Materials.

For applications within nitrate vulnerable zones, refer to column three for nutrient levels applied at N max field limit 250kg N/ha, then refer to table two for the application rate in t/ha required to achieve 250 kg N/ha.

For low/zero nitrogen level wastes, refer to column four for nutrient levels applied at 250 t/ha in accordance with the relevant waste permitting regulations.

Released by *Chris Lindley*..... Laboratory Manager, on behalf of Lancrop Laboratories

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