

R. TURNER & SON

BASSINGBOURN FARM, FORDHAM, ELY, CAMBS, CB7 5NJ
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The Planning Inspectorate

National Infrastructure

Temple Quay House

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BS1 6PN

31st August 2023

Application by Sunnica Ltd for an order granting development consent for the Sunnica Energy Farm Project. Your ref EN010106.

Unique reference – SUNN-AFP153

Dear Sirs,

We have submitted previous representation expressing our concerns regarding the Sunnica Energy Farm.

As a brief background R F Turner & Son farms 750 acres cropping Winter Wheat, Winter Barley, Maize, Sugar Beet and Potatoes on a rotational basis. Large scale investment in our agricultural operations include a new farm centre, storage facilities for crops and fertilisers, purpose-built buildings for beef production and an equine facility for diversification purposes to help secure long-term sustainability.

Our soil structure is a sandy silt loam over a chalk base; the soil is well bodied to a minimum depth of 250mm. Soil structure is improved year on year by best practice cultivations and organic manure produced by our beef production operation.

Precision farming methods based on expert agronomy advice using soil sample results enable us to improve productivity and at the same time reduce environmental impact.

Our sustainable operations produces soil fertility beyond written expectation.

We have attached our 2022/2023 Omnia cropping report; it clearly details the good condition of the soil, despite being unable to irrigate our yields are above the national average.

| | 2019 | 2020 | 2021 | 2022 |
|------------|------|------|------|------|
| Wheat | 9.80 | 9.90 | 9.80 | 8.20 |
| Barley | 7.36 | 8.27 | 7.56 | 7.40 |
| Sugar Beet | 103 | 76 | 95 | 88 |
| Potatoes | | 65 | 62 | 68 |

Figures represent tons per hectare.

We are bemused that the soil report submitted by the Sunnica consultants Daniel Baird Soil Consultants Ltd deliberately downgrades the soil within the Sunnica site. Our cropping and yields could not be sustained on the soil types described by Daniel Baird Soil Consultancy Ltd.

The report and opinions of 3 independent soil experts employed by the 'Say No to Sunnica' action group concluded a minimum of 50% of the proposed Sunnica site is best and most versatile soil (BMV), this is echoed by Natural England's predictive soil map; we are at a loss as to why Natural England have not challenged the report produced by Daniel Baird Soil Consultancy Ltd.

We are confident from our own farming experience, our agronomy, our detailed soil reports and the report produced by 3 independent experts the soil has been incorrectly described by Sunnica.

We are concerned a decision will be taken based upon incorrect information.

We are at a loss and cannot understand why Natural England have failed to challenge the Sunnica soil report.

The evidence we have produced, Natural England's predictive soil map, our above average yields prove the qualities of the soil and simply dismiss without question the flawed soil report submitted by Sunnica to support their application.

R F Turner & Son

Client **R. F. Turner & Son**
Bassingbourn Farm
Fordham
Address **Ely**
Cambridgeshire
CB7 5NL





Advisor **Rob Jack**
FACTS number **FE606**



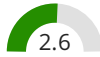

























Chippenham Arable Land

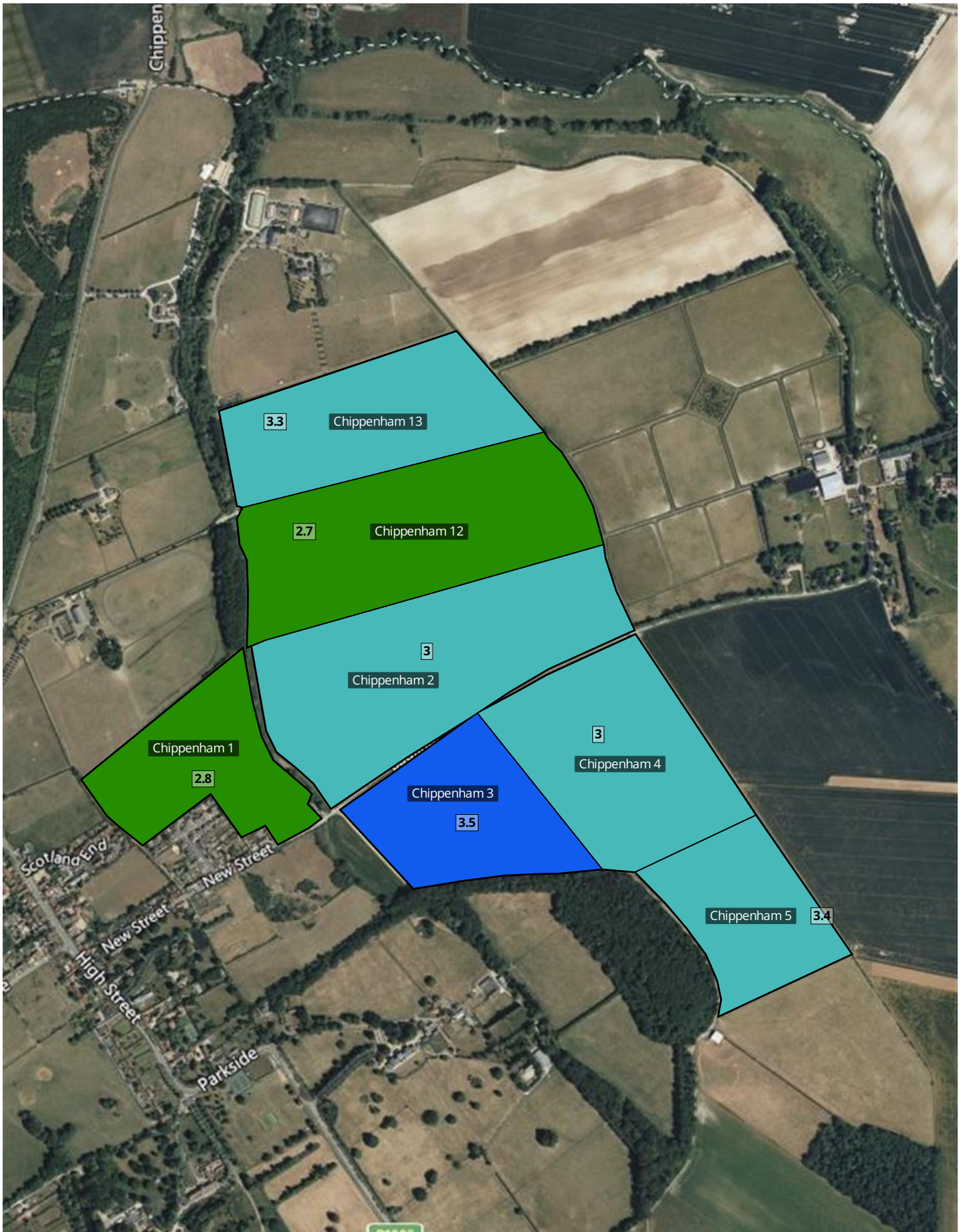
This report includes the following documents:

- Cropping map
- Soil analysis
- Soil analysis map
- Nutrient requirements



| | | | |
|--|---|--|---|
|  Winter Wheat (25.8 ha, 31%) |  Winter Barley (21.3 ha, 26%) |  Sugar Beet (19.8 ha, 24%) |  Potatoes (16.3 ha, 20%) |
|--|---|--|---|

| Field | Analysis number | Analysis date | P ₂ O ₅ | K ₂ O | MgO | pH |
|--------------------------|-----------------|---------------|--|---|---|---|
| | | | <i>index</i> | <i>index</i> | <i>index</i> | |
| Chippenham 1 (8.07 ha) | 9/26/2019_4 | 01/08/2019 |  2.8 |  2.9 |  2.6 |  8 |
| Chippenham 12 (16.28 ha) | 9/8/2020_3 | 01/08/2020 |  2.7 |  3.2 |  2.4 |  8.4 |
| Chippenham 13 (11 ha) | 9/30/2021_1 | 01/08/2021 |  3.4 |  2.5 |  2.2 |  8.1 |
| Chippenham 2 (18.11 ha) | 9/30/2021_1 | 01/08/2021 |  3 |  3.2 |  1.8 |  7.8 |
| Chippenham 3 (8.8 ha) | 9/30/2021_2 | 01/08/2021 |  3.6 |  2.6 |  2.1 |  7.8 |
| Chippenham 4 (13.23 ha) | 9/26/2019_5 | 01/08/2019 |  3 |  2.9 |  2.3 |  8 |
| Chippenham 5 (7.72 ha) | 9/30/2021_2 | 01/08/2021 |  3.5 |  3.3 |  2.5 |  7.6 |



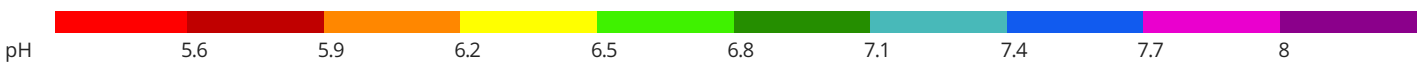
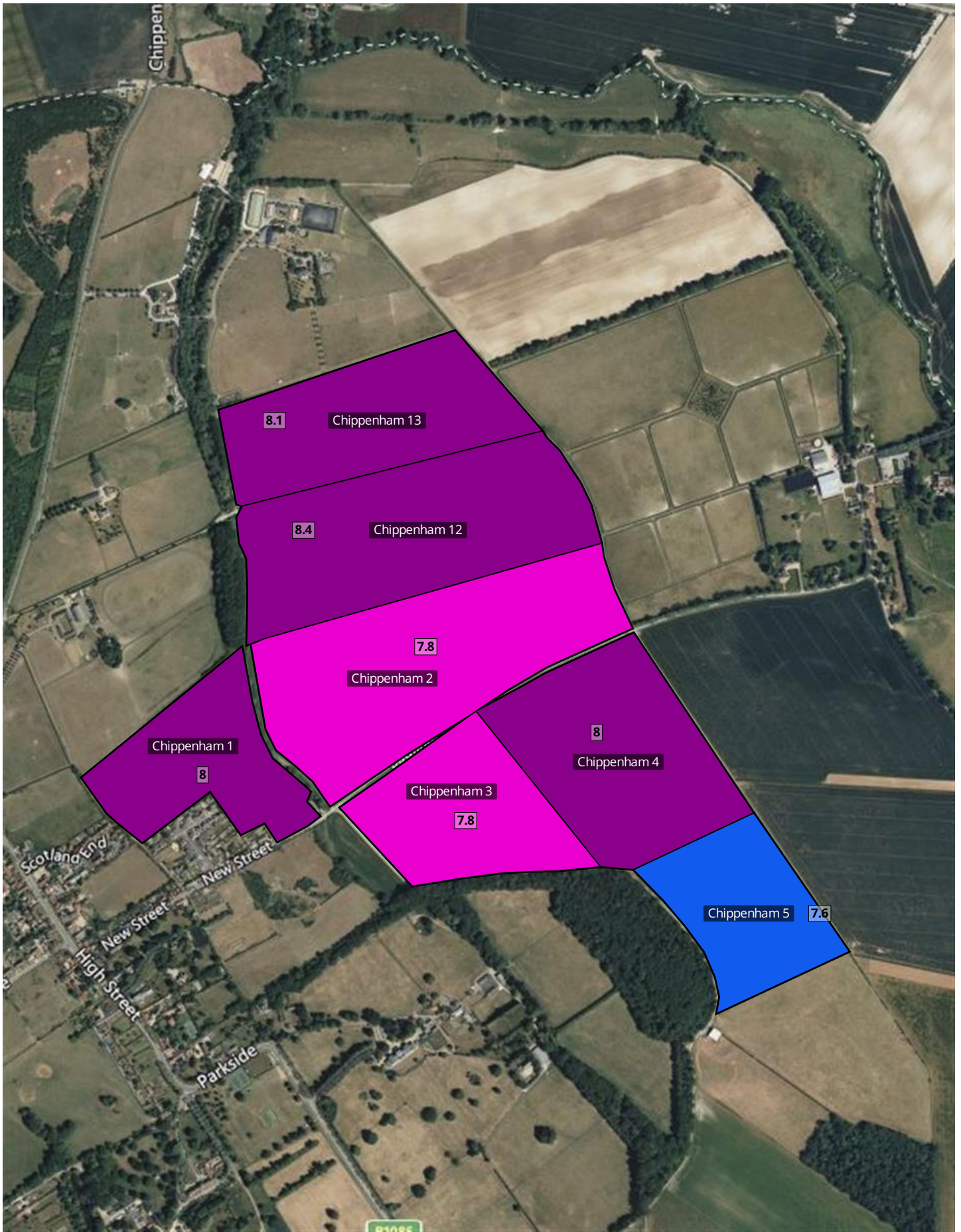
| | | | | | | | | | | | |
|-------|------|-----|----|-------|----|-----|----|------|----|------|-------|
| ppm | <= 0 | 5 | 10 | 12.75 | 16 | 21 | 26 | 36.5 | 46 | 59.5 | > 70 |
| Index | <= 0 | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | > 4.9 |



| | | | | | | | | | | | |
|-------|--------|------|----|-----|-----|-----|-----|-------|-----|-------|-------|
| ppm | <= 0.1 | 33.6 | 61 | 94 | 121 | 187 | 241 | 329.5 | 401 | 511.5 | > 600 |
| Index | <= 0 | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | > 4.9 |



| | | | | | | | | | | | |
|-------|--------|-------|----|------|----|-------|-----|-----|-----|-----|-------|
| ppm | <= 0.1 | 13.85 | 26 | 39.3 | 51 | 78.25 | 101 | 142 | 176 | 217 | > 250 |
| Index | <= 0 | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | > 4.9 |



● **Potatoes / UNSPEC. GP 3**

| | SNS | N | SO ₃ | P ₂ O ₅ | K ₂ O | MgO |
|--------------------------|-----|-----|-----------------|-------------------------------|------------------|-----|
| Chippenham 12 (16.28 ha) | 2 | 100 | 25 | 150 | 0 | 0 |

● **Sugar Beet / UNSPEC.**

| | SNS | N | SO ₃ | P ₂ O ₅ | K ₂ O | MgO |
|-----------------------|-----|-----|-----------------|-------------------------------|------------------|-----|
| Chippenham 13 (11 ha) | 2 | 120 | 30 | 20 | 120 | 30 |

SODIUM - Consider 200 kg Na₂O/ha when K Index is 0 & 1 (0-120 ppm) and 100 kg Na₂O/ha when K Index is 2 (121-240 ppm)

| | | | | | | |
|-----------------------|---|-----|----|----|-----|----|
| Chippenham 3 (8.8 ha) | 2 | 120 | 30 | 20 | 120 | 40 |
|-----------------------|---|-----|----|----|-----|----|

SODIUM - Consider 200 kg Na₂O/ha when K Index is 0 & 1 (0-120 ppm) and 100 kg Na₂O/ha when K Index is 2 (121-240 ppm)

● **Winter Barley / KWS TARDIS**

| | SNS | N | SO ₃ | P ₂ O ₅ | K ₂ O | MgO |
|-------------------------|-----|-----|-----------------|-------------------------------|------------------|------|
| Chippenham 1 (8.07 ha) | 2 | 171 | 60 | -70 | -330 | -140 |
| Chippenham 4 (13.23 ha) | 2 | 171 | 60 | -80 | -330 | -120 |

● **Winter Wheat / KWS CRANIUM**

| | SNS | N | SO ₃ | P ₂ O ₅ | K ₂ O | MgO |
|-------------------------|-----|-----|-----------------|-------------------------------|------------------|-----|
| Chippenham 2 (18.11 ha) | 2 | 214 | 60 | -50 | -370 | -30 |
| Chippenham 5 (7.72 ha) | 3 | 204 | 60 | -60 | 0 | 0 |