

Supporting Documents for Marlsbrough Farm
Ground Water Transitional Licence Application

Business Trading Name – Marlsbrough Farm Ltd

Business Address – Marlsbrough Farm, Portfield Gate, Haverfordwest Pembrokeshire, SA62 3MP

Category - Technical Supporting Information

Date – 15/11/2019

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Information

Brief history of farm eg type livestock only or mixed with arable crops

Marlsbrough Farm is a modern dairy unit that is located close to the hamlet of Sutton, Pembrokeshire. The principal contacts are Mr Andrew Hughes and Mrs Judith Hughes, Andrew is the fourth generation of the Hughes family to farm Marlsbrough farm.

The dairy farm is an all grass unit and consists of owned and rented land. The farmed land area is 76.5hectares (189cres) owned and 161.9 hectares (400acres) rented on a farm rent agreement.

The land bank is down to grass leys and silage cropping with concentrates fed to the cows to supplement the feed ration. The dairy herd is on a pasture system during the summer months. Under this type of system milk production is predominately from grass with Friesian and Holstein Cross cows producing an annual average 6000- 9000lts per cow and would be classed as a high performing herd.

Average stocking at the farms amounts to 300 dairy cattle, the cows are kept on cubicles/straw-based systems. The younger stock between 3-13months 81animals and 13-24moths 77animals are kept at Marlsbrough Farm. Heifers generally calve at 24months when they joining the milking herd. On average cow numbers are held at 300LSU with barren cows being replaced by first time calvers. It should be noted that herd numbers for the 2019 have reduced due to tuberculosis (TB)

All bull and beef heifer calf's are sold from the farm at approximately 2 to 4 weeks. These animals are fed on a milk substitute and never reach the stage to consume raw water while on the farm.

Water Supply

The farm has two groundwater boreholes that supplies two above ground storage tanks that transfers drinking and wash water for the dairy herd via drinking troughs, plate cooler and milking parlour system cleaning and bulk tank wash. The water transfers through the farm main and is regulated via a pressure cut off switch system and float valves from the drinking troughs and milking parlour system wash, animal drinking pattern and milking times are on a need's basis. The storage tank volumes are 10m³ and 5m³. (Please note Borehole 2 is a backup supply and is only used when Borehole 1 is out of commission for maintenance).

The farm also has a public mains supply from DWR Cymru Welsh Water that the farm can access however, as Marlsbrough farm is at the end of the DWR Cymru supply for that area water pressure is low and would not be sufficient to service the farm water needs.

The farm lies within a groundwater abstraction exempt area Wales.

Natural Water Resource

A growing number of livestock farmers are seeking to source water from alternative sources such as boreholes, springs, rivers, lakes or rainwater harvesting as costs of mains water increases.

Stock farm water is one of the most important natural resources, whether considering direct water consumption being stock drinking, washing and cleaning. Approximately a third to a half of all potable water abstractions are used for drinking with the remaining being used for cleaning parlours, yards and milk cooling.

From the 1 April 2005, an amendment was made to the Water Act 2003 that deregulated abstractions of less than 20m³/day the law now permits you to abstract up to a maximum of 20m³/day (equal to 20,000 litres per day) without the need for a licence. This is subject to conditions:

- (1) You have a legal right to the source of supply if it is on your land.
- (2) The abstraction is not part of a series of abstractions from the same source totalling a quantity greater than 20m³/day.

Natural Resources Wales have introduced an application window where a transitional licence application is required to be submitted during this period 1 January 2018 until 31 December 2019. Following this, there is up to a 3-year determination period. The application fee is currently £135. Transitional licence applications are required to be submitted during the application window 1 January 2018 until 31 December 2019 if you abstract more than the exempt limit.

After the 31 December 2019 if more than 20m³/day a full licence application will have to be submitted to continue using the groundwater abstraction.

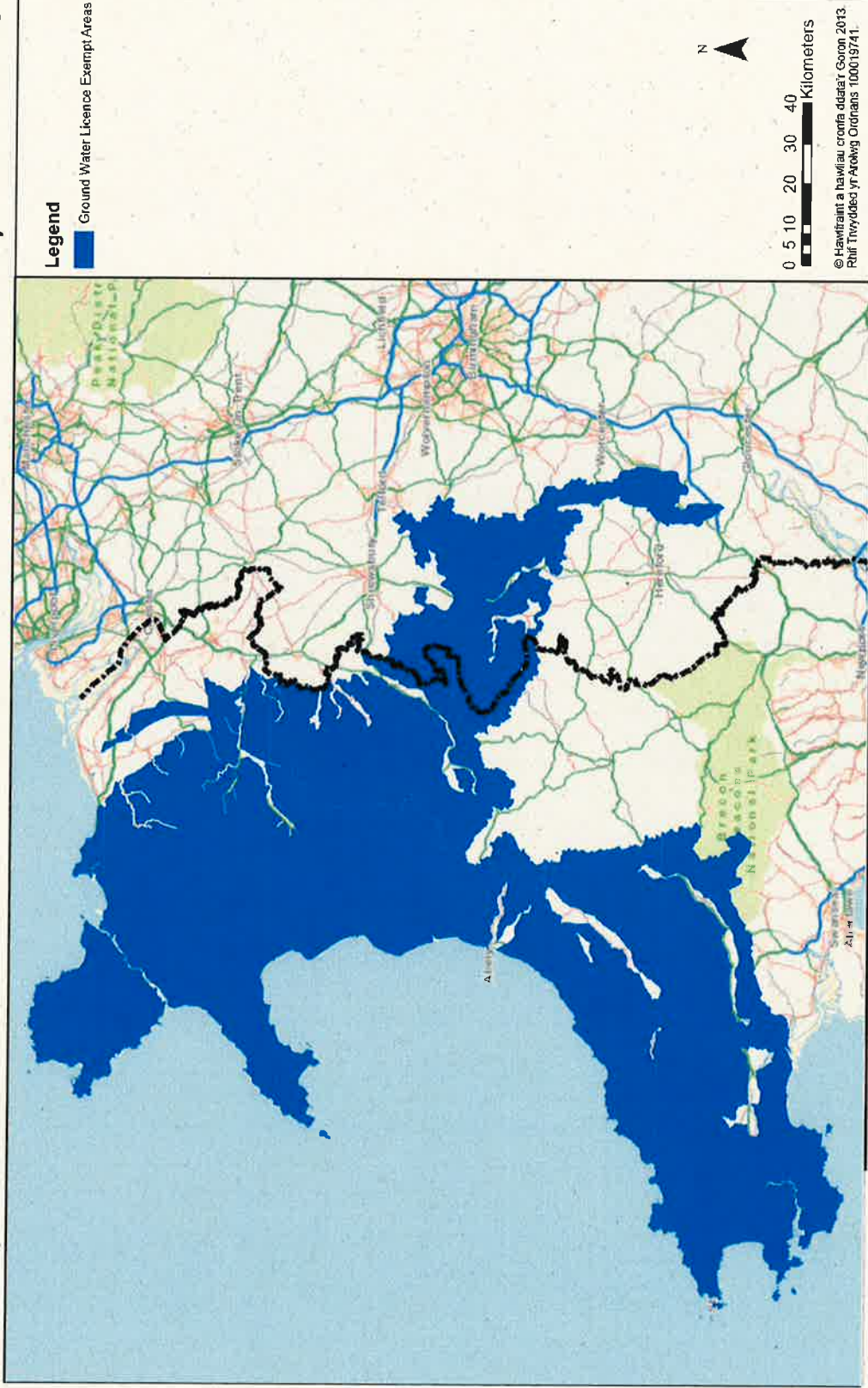
If a farm has several boreholes which one of them may be a domestic supply which all abstract from the same source of supply, i.e. the same groundwater source that in total abstract more than 20m³/day will require a licence.

Areas within Wales that are outside the Groundwater exempt area should all have an abstraction licence if they abstracted more than the exempt limit.

Map showing Exempt Groundwater Area Wales



Groundwater abstraction licence exempt areas in Wales



Doc1 Letter of Authorisation

rebecca@kebek.co.uk
07801329662

12 November 2019

Mr A Hughes
Mansbrough Farm Ltd
Portfield Gate
Keyfordbyrant
Pontrilasshire
SA62 3AP

Letter of Authorisation: Kebek Ltd

This is to certify that I, Andrew Hughes authorize our representatives of Kebek Ltd, to act on our behalf with regard to the application for the Transitional License for existing groundwater abstraction at Mansbrough Farm.

Name: Kebek Ltd
Company representative: Rebecca Jones and Keith Owen
Date: 12th October 2019
Contact details:
rebecca@kebek.co.uk 07801329662
keith@kebek.co.uk 07522780346

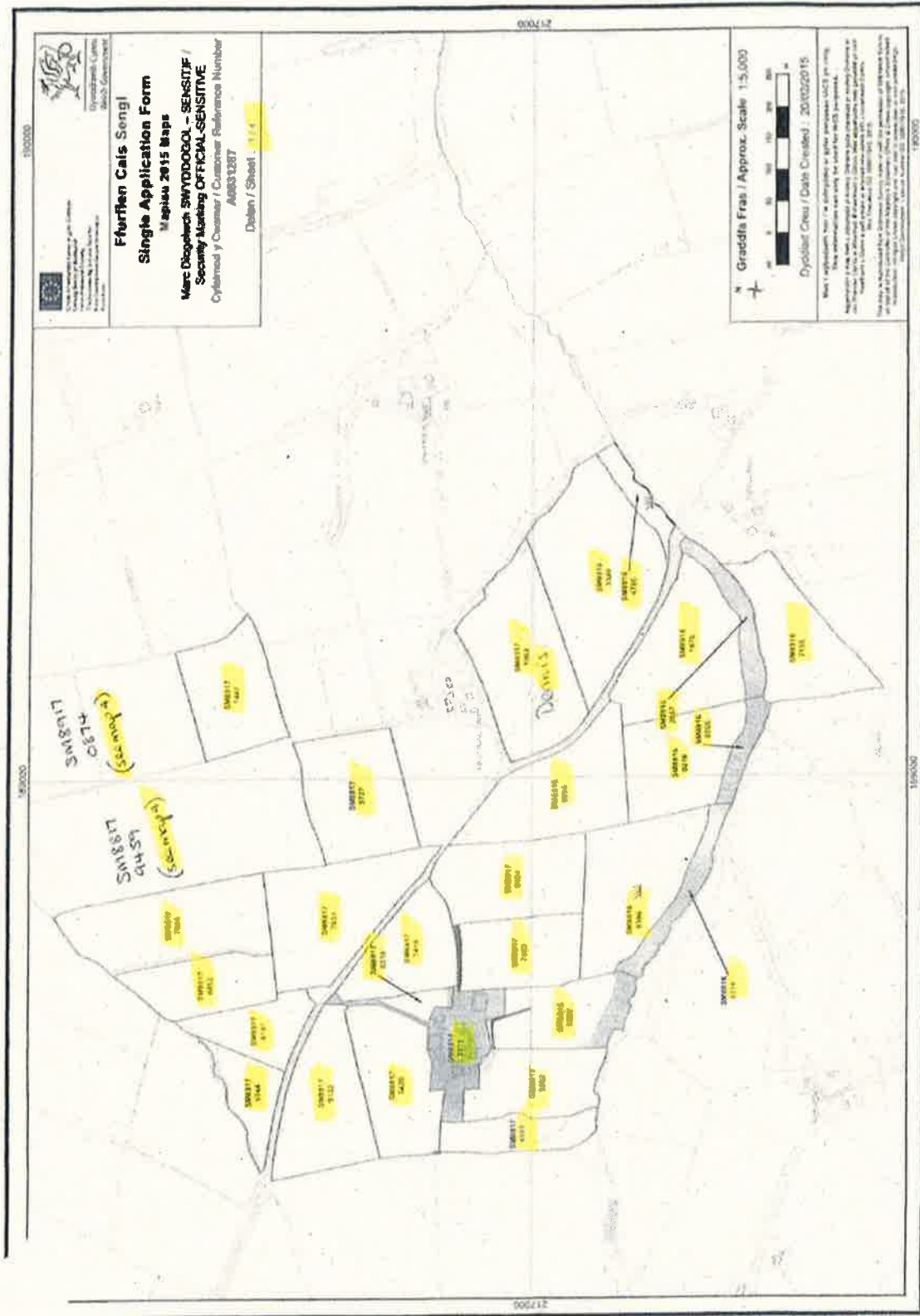
Yours sincerely



Andrew Hughes
Director
Mansbrough Farm



Doc 2 – Entitlement to Land SFP Maps





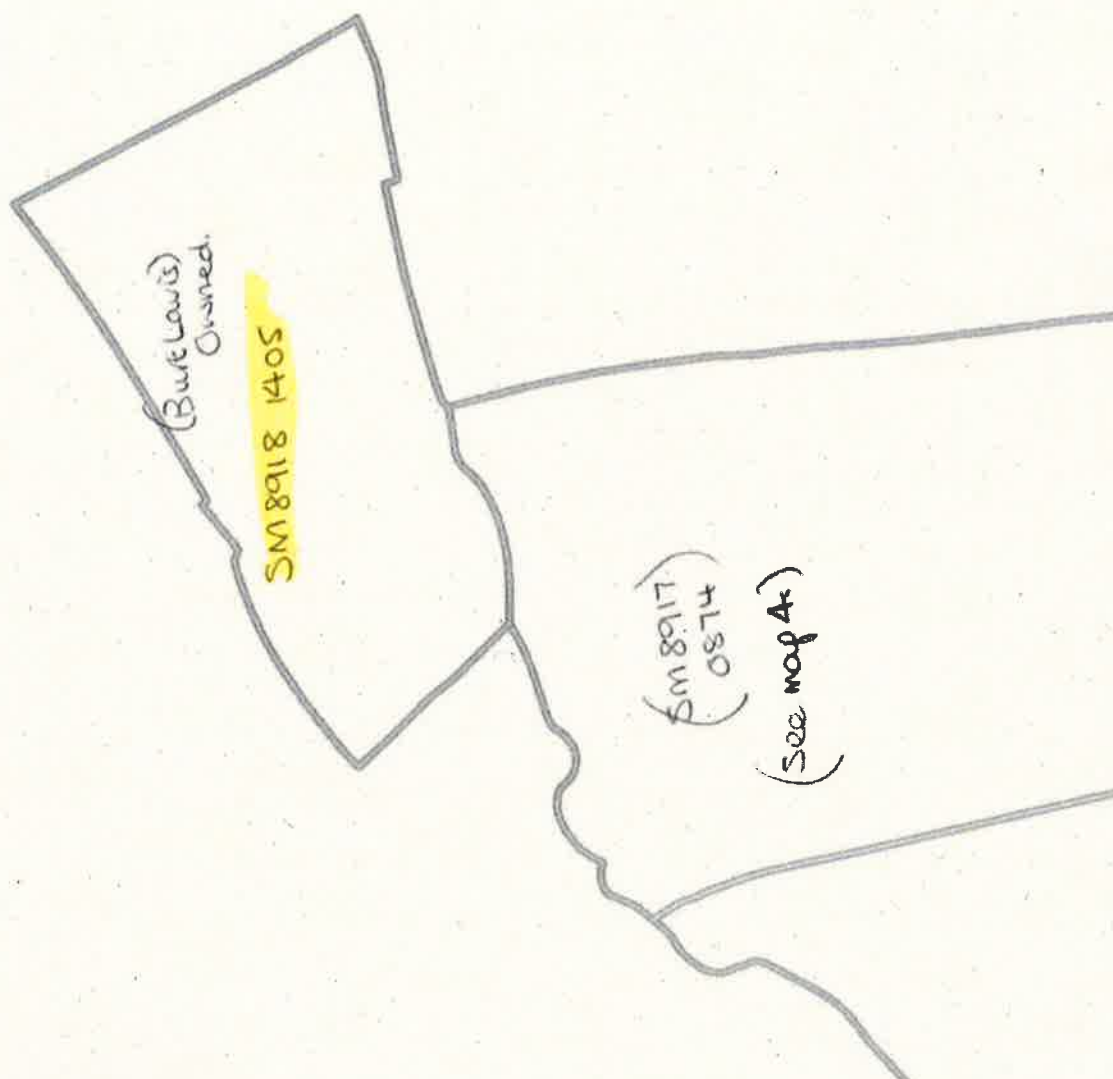
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Eiddo Gwladol Cymru
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Eiddo ar Bwrdd ar Eiddo Gwladol Cymru



Llywodraeth Cymru
Welsh Government

Trading Title:

Customer Reference Number:



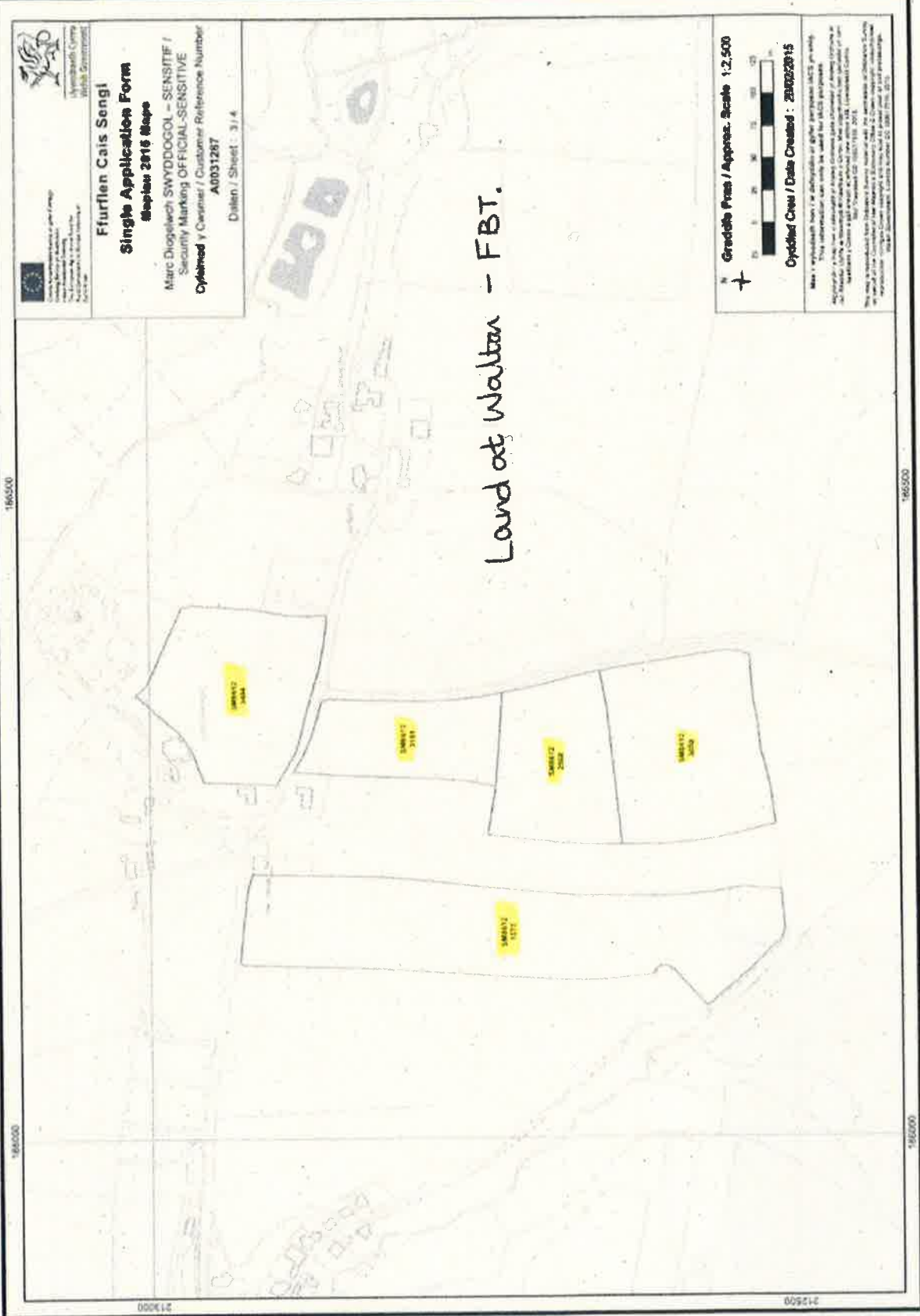
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Approx. Scale: 1 : 2,500

Data Created: 09/11/2019 11:59:20 AM

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Welsh Government
Cyfrinachedd Gwladol
Official Secret
Confidential

Ffurflen Cais Sengl
Single Application Form
Mapiau 2016 Maps
Mare Ddwyblach SWYDDOGOL - SENSITIVE /
Security Marking OFFICIAL-SENSITIVE
Cyfrinwedd y Cyswllt / Confidential Reference Number
A0031287
Dalen / Sheet : 3 / 4

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Cydded Cais / Date Created : 28/02/2015

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This information can only be used for the purposes of the application.
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This information can only be used for the purposes of the application.
Mae'r wybodaeth hon yn ddwyblach os ydych chi'n gyswllt gyda'r awdurdod hon.
This information can only be used for the purposes of the application.

Land at Walton - FBT.

Doc 2 – Entitlement to Land SFP Field Data

Field Data

Deleted entries are displayed as greyed out.

Field Size	BPS Eligible Area	BPS Claimed Area	BPS New Arable Land	Naturally Kept Land	ESPG	Follow Up	Map	Crop	Area	LC	Claim BPS	Claim EFA	Tenure	Feature Change Date	Secondary Crop	Planting Month
SM8612 1572	2.81	2.57	2.57	walton	0.00	0.00		GR2	2.57	PG ✓	✓		B			
SM8612 2956	1.11	1.11	1.11	walton	0.00	0.00		YY23	0.24	OT			B			
SM8612 3059	1.62	1.62	1.62	walton	0.00	0.00		GR2	1.11	PG ✓	✓		B			
SM8612 3181	0.89	0.89	0.89	walton	0.00	0.00		GR2	1.62	PG ✓	✓		B			
SM8612 3494	1.45	1.40	1.38	walton	0.00	0.00		GR2	0.89	PG ✓	✓		B			
SM8816 8397	2.06	1.67	1.67	fm4 2015	0.00	0.00		GR2	1.38	PG ✓	✓		B			
SM8816 8374	0.84	0.00	0	fm4 2015 scrub gone	0.00	0.00		TT99	0.02	OT			B			
SM8816 8384	3.23	3.15	3.15	0.00	0.00	0.00		ZZ11	0.05	OT			B			
SM8816 8374	0.84	0.00	0	0.00	0.00	0.00		GR2	1.67	PG ✓	✓		C			
SM8816 8384	3.23	3.15	3.15	0.00	0.00	0.00		WS1	0.37	OT			C			
SM8816 8384	3.23	3.15	3.15	0.00	0.00	0.00		ZZ97	0.04	OT			C			
SM8816 8384	3.23	3.15	3.15	0.00	0.00	0.00		GR2	3.15	PG ✓	✓		C			

FB T
Land at Walton

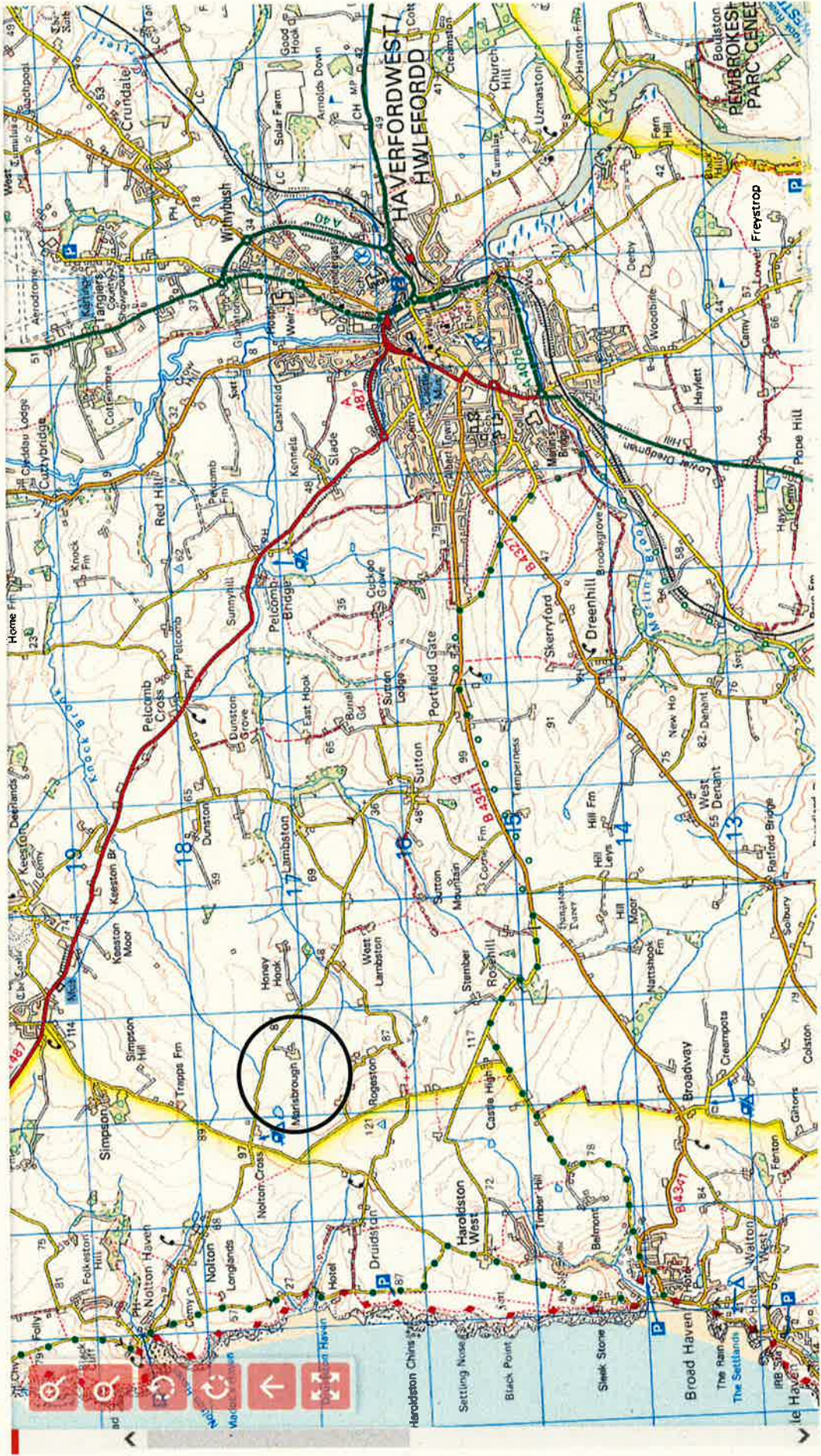
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SM8816 9994																
3.15	3.15	3.15		0.00 0.00				GR2	3.15	PG	✓		C			
SM8817 4503																
1.22	1.22	1.22		0.00 0.00				GR2	1.22	PG	✓		C			
SM8817 5132																
2.82	2.82	2.82		0.00 0.00				GR2	2.82	PG	✓		C			
SM8817 5144																
1.10	1.06	1.06		0.00 0.00				GR2	1.06	PG	✓		C			
								ZZ11	0.04	OT			C			
SM8817 5202			now 2.07													
2.01	1.97	1.97		0.00 0.00				GR2	1.97	PG	✓		C			
								ZZ11	0.04	OT			C			
SM8817 5420																
2.60	2.60	2.60		0.00 0.00				GR2	2.60	PG	✓		C			
SM8817 5911			new size 1.48													
1.56	0.00	0		0.00 0.00				ZZ89	1.56	OT			C			
SM8817 6141																
1.37	1.35	1.35		0.00 0.00				GR2	1.35	PG	✓		C			
								ZZ11	0.02	OT			C			
SM8817 6518																
0.33	0.33	0.33		0.00 0.00				GR2	0.33	PG	✓		C			

Field Size	BPS Eligible Area	BPS Claimed Area	BPS New Arable Land	Naturally Kept Land	ESPG	Follow Up	Map	Crop	Area	LC	Claim BPS	Claim EFA	Tenure	Feature Change Date	Secondary Crop	Planting Month
SM8817 6852	1.80	1.80	fm4 2015	0.00	0.00			GR2	1.80	PG	✓		C			
SM8817 7303	2.07	1.97		0.00	0.00			GR2	1.97	PG	✓		C			
								ZZ97	0.10	OT			C			
SM8817 7419	2.06	2.06		0.00	0.00			GR2	2.06	PG	✓		C			
SM8817 7831	3.44	3.44		0.00	0.00			GR2	3.44	PG	✓		C			
SM8817 7854	3.46	3.46	fm4 2015	0.00	0.00			GR2	3.46	PG	✓		C			
SM8817 8404	2.73	2.64		0.00	0.00			GR2	2.64	PG	✓		C			
								ZZ97	0.09	OT			C			
SM8817 9459	8.96	8.63		0.00	0.00			GR2	8.63	PG	✓		C			
								SC3	0.33	OT			C			
SM8817 9727	2.96	2.96		0.00	0.00			GR2	2.96	PG	✓		C			
SM8916 0276	2.49	2.49		0.00	0.00			GR2	2.49	PG	✓		C			
								ZZ97	0.06	OT			C			
SM8916 0765	0.52	0		0.00	0.00			WS1	0.52	OT			C			

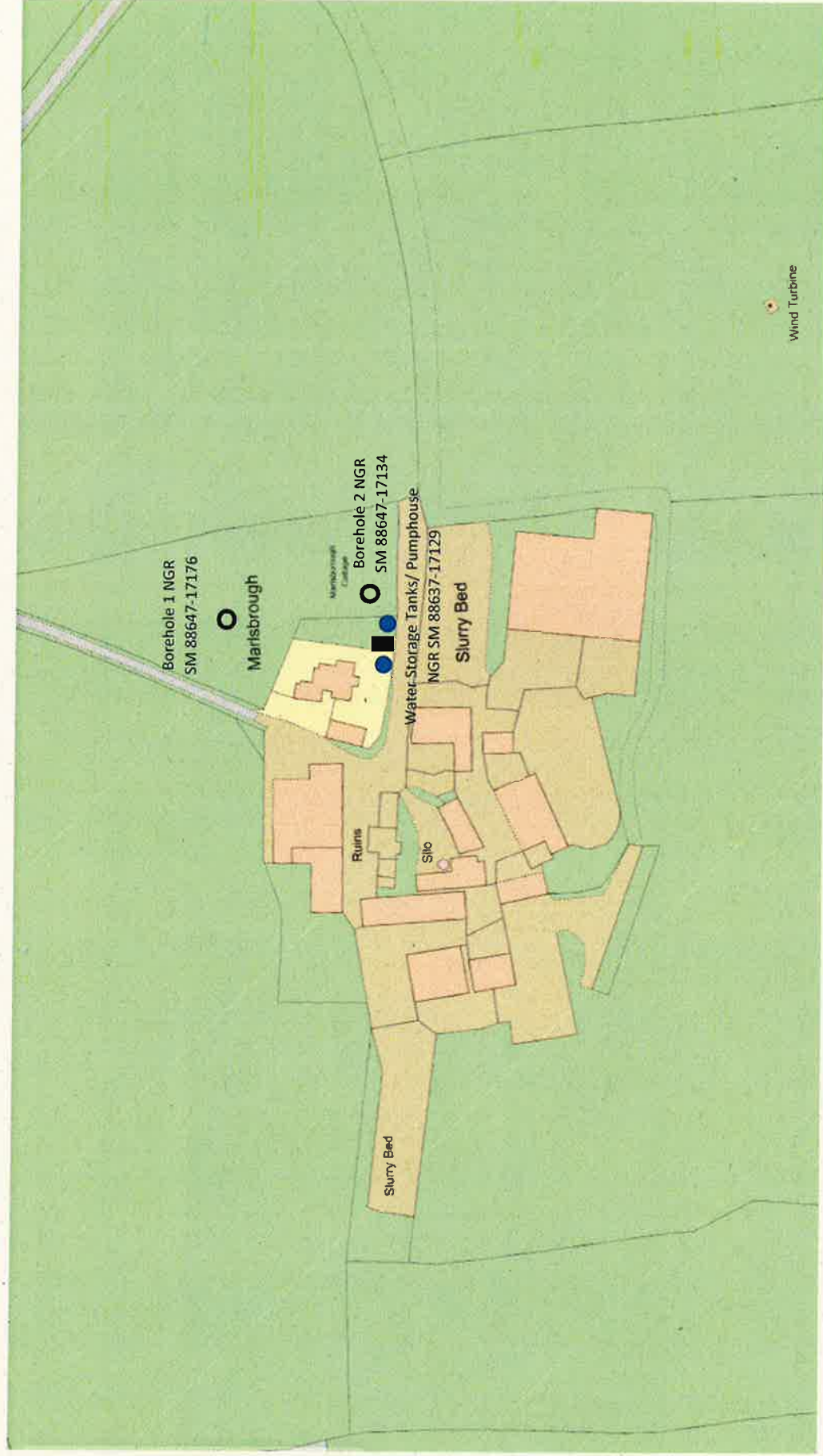
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SM8916 1876	3.36	3.30	3.30		0.00	0.00			GR2	3.30	PG	✓		C			
									ZZ97	0.06	OT			C			
SM8916 2158	2.62	2.62	2.62	open ditch	0.00	0.00			GR2	2.62	PG	✓		C			
SM8916 2667	0.81	0.00	0		0.00	0.00			WS1	0.81	OT			C			
SM8916 3399	4.80	4.80	4.80	dennis	0.00	0.00			GR1	4.80	AR	✓		C			
SM8916 4786	0.57	0.00	0		0.00	0.00			YY16	0.01	OT			C			
									YY23	0.53	OT			C			
									ZZ31	0.03	OT			C			
SM8917 0874	8.39	8.39	8.39		0.00	0.00			GR2	8.39	PG	✓		C			
SM8917 1447	2.40	2.40	2.40		0.00	0.00			GR2	2.40	PG	✓		C			
SM8917 1903	3.87	3.82	3.82	dennis	0.00	0.00			GR2	3.82	PG	✓		C			
									YY23	0.05	OT			C			

Field Size	BPS Eligible Area	BPS Claimed Area	BPS New Arable Land	Naturally Kept Land	ESPG	Follow Up	Map	Crop	Area	LC	Claim BPS	Claim EFA	Tenure	Feature Change Date	Secondary Crop	Planting Month
SM8918 1405																
2.88	2.35	2.80	Burt Lavis new 17 ditch			0.00	0.00	✓	GR2	2.80	PG	✓	C			
Our Land Register shows the permanent feature ZZ11 in this land parcel. If this permanent feature still exists, please declare it, otherwise complete a Manage My Land submission, using your RPW Online account, if you have not already done so.																
The area claimed for BPS exceeds the area available for BPS. If you think your claimed area is correct, please complete a Manage My Land submission, using your RPW Online account, if you have not already done so.																
								YY23	0.04	OT			C	01/01/2019		
								ZZ31	0.04	OT			C	01/01/2018		
								ZZ11	0.53	OT			C			

Doc3 Farm Location Map



Document 4 Marlsbrough Farm: Groundwater Boreholes and Water Storage Tanks Location



Doc5 - Photographic Evidence Borehole Chambers

GW Abstraction point 1 Marlsbrough Farm



Doc5 - Photographic Evidence Borehole Chambers

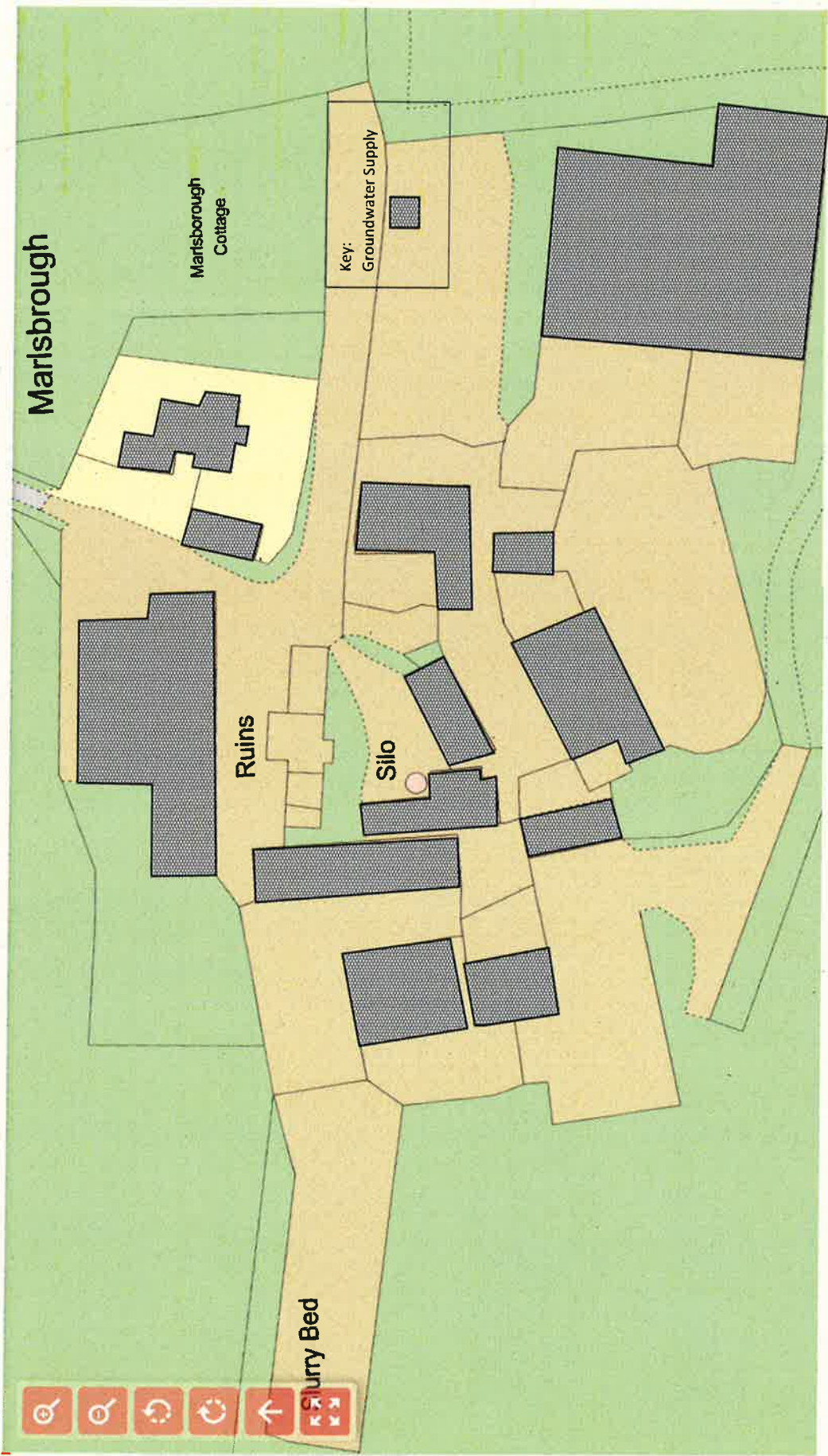
GW Abstraction point 2 Marlsbrough Farm



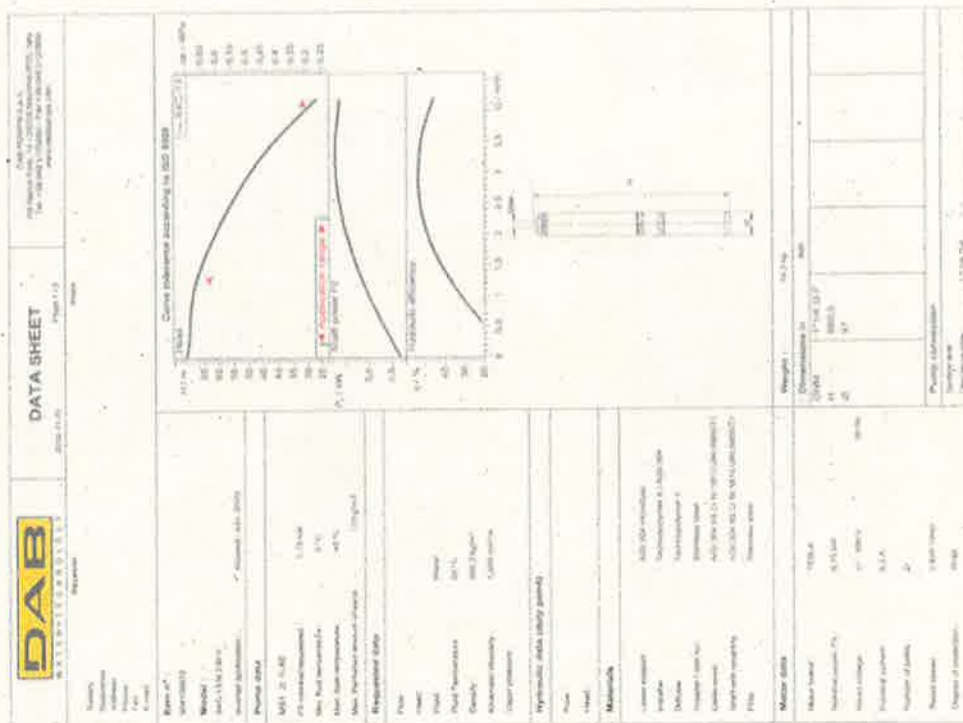
Doc5 - Photographic Evidence Storage Tanks & Pump House



Doc6 Marlsbrough Farm: Borehole/Pump House Distribution Plan



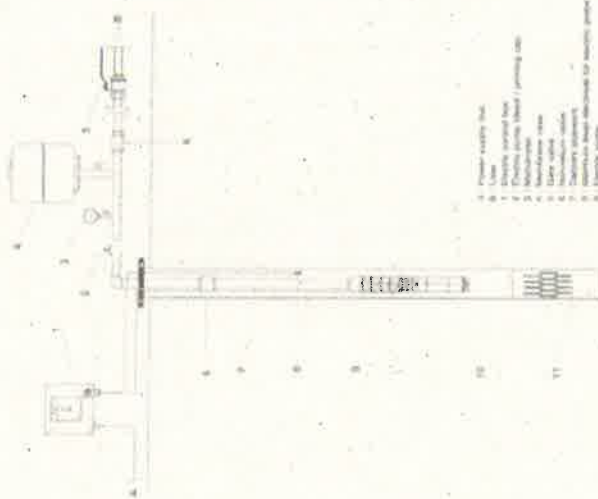
Doc7 Groundwater Pump Specifications DAB S4C-19



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1111

Abstracts provided by the author.



1. People eating hot.
2. Use
3. Eating animal hot
4. Eating from head / printing car
5. Melancholy
6. headless vein
7. Bare table
8. headless vein
9. Delivery system
10. various high decrease for society people
11. Empty young
12. time
13. time

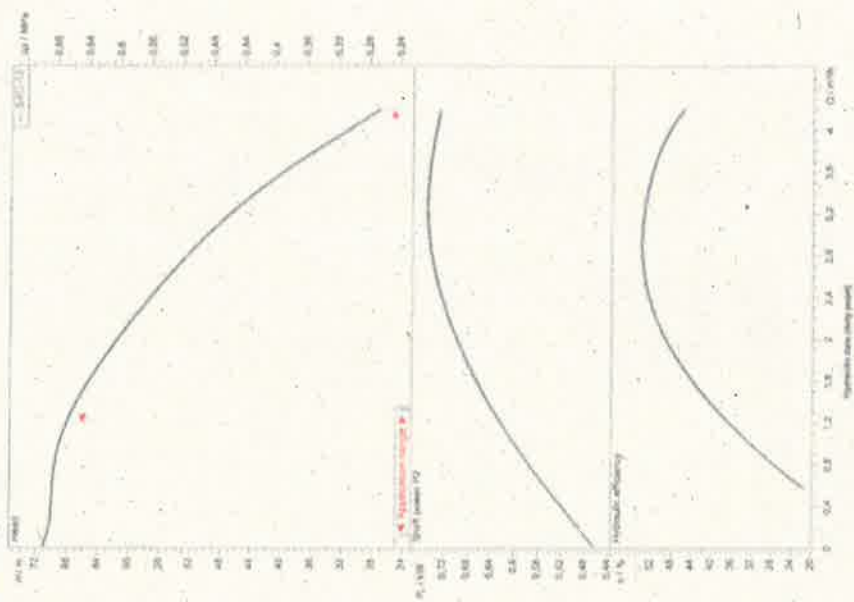
THE CHAIRMAN, NATIONAL ACADEMIES OF SCIENCES AND ARTS

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A 6027 M. G. 11. 2001

Carole Mathews, *Corresponding to 1900*



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CONCLUSIONS

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ANALYST: JAMES M. HARRIS

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	DIMENSIONAL DRAWING		DAB s.p.a. Via S. Maria, 14 - 20090 Segrate (MI) Tel. 02 574911 - Fax 02 574912 www.dab.it
Disegnato Verificato Approvato Data Foglio	Revisione Data Foglio	Titolo	
<p style="text-align: center;">SAC-13 M 220 V</p> 			
Dimensioni in mm DN100 H Ø	Pagine correlate Sezioni Disegni 1:100		
Data Foglio	Disegnato Verificato	Data Foglio	Firma

Doc8 Livestock Numbers from Farm Records Extracted from BCMS

Marlsbrough Farm Ltd

Client Ref: M280
Y/e 05/04/2019

Stock	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Livestock																					
Bulls																					
Holstein	1	1	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Holstein Friesian/Blue	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Holstein Friesian	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mare	274	326	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336
Cows																					
Friesian	81	24	25	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
1-2	80	80	82	79	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
3-4	44	70	65	61	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
5-6	38	14	21	19	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Beef																					
2+	45			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3+																					
4-6				3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7+																					
Stock	268	168	204	207	191	211	211	211	211	211	211	211	211	211	211	211	211	211	211	211	211
Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stock	5	9	4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Stock	1																				
Yearling	82	68	108	69	73	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Female	134	154	238	222	190	190	229	229	229	229	229	229	229	229	229	229	229	229	229	229	229
Yearling	72	68	103	90	130	79	118	79	118	79	118	79	118	79	118	79	118	79	118	79	118
Lambs	160	222	980	200	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280
Other sheep (all ewes)	15																				
	454	500	629	615	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644	644
Value																					
Flock	8,300	8,000	11,300	11,100	9,900	9,900	9,900	9,900	9,900	9,900	9,900	9,900	9,900	9,900	9,900	9,900	9,900	9,900	9,900	9,900	9,900
Dairy	205,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500	283,500
Lambs	134,496	192,790	128,536	118,500	98,588	98,588	98,588	98,588	98,588	98,588	98,588	98,588	98,588	98,588	98,588	98,588	98,588	98,588	98,588	98,588	98,588