

## VineMAP Report

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**Customer name:** vinescapes  
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**Telephone:**

**Reference:**  
**Date:** 6 June 2019

**Products:**

1. Topographic suitability & grading
2. **Soil suitability information**
3. Landcover suitability and designated 'protected' areas
4. Flood risk and access maps
5. All terrestrial reports (Reports 1 - 4)
6. Climate (including Frost Risk / Report No.7)
7. Frost risk
8. All terrestrial and climate suitability reports

**Area coverage:** 43.1 hectares (ha)  
**Location:** Berkshire, England, United Kingdom  
**National Grid reference:** SU 434 716

**Report description:** This report was generated using Vinescapes' Vineyard suitability Mapping and Assessment Platform (VineMAP), powered by maploom. Maps, data, scoring and results within this report are provided to assist in viticulture suitability assessments. Where serious consideration is being given to establishing a vineyard on land evaluated within this report professional expertise should be sought from Vinescapes to advise on and undertake additional analysis. This includes detailed soil assessments, site and soil amelioration requirements, vineyard design, variety and planting material recommendations, business planning and project management. This report should not be relied on as the sole determinant for viticulture suitability, vineyard establishment or wine production business ventures.

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## Site Overview – Berkshire, England, United Kingdom

Variable	Result	Suitability score
<b>Topography</b>	-	-
Elevation	-	-
Aspect	-	-
Slope	-	-
<b>Soil</b>	Undetermined	Undetermined
<b>Suitable landcover</b>	-	
<b>Area with no protected status</b>	-	
<b>Excellent potential vineyard area</b>	-	
<b>Good potential vineyard area</b>	-	
<b>Low potential vineyard area</b>	-	
	<b>10-year averages</b>	<b>Suitability score</b>
<b>Growing season* average temperature (GST)</b>	-	-
<b>Growing Degree Days (GDD)</b>	-	-
<b>15th March - 31st May frost days</b>	-	-
<b>Average frost temperatures</b>	-	-
<b>Growing season rainfall</b>	-	-
<b>June rainfall</b>	-	-
<b>Combined climatic suitability</b>	-	-

\* The growing season in England is roughly April to October

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## VineMAP soil suitability criteria

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**Soil:** Soil texture, drainage, pH, fertility, nutrient and organic matter content are all important attributes in determining viticultural suitability. Their influences on vine nutrient and water availability, soil temperature and humidity, the solubility of metal ions and the supply of nutrient cations and anions, the number of beneficial microbes, and contributions to soil chemical, physical and biological properties all impact vine health, growth and productivity. Although a range of desirable soil characteristics exist for viticulture, for example it is generally accepted that soil pH should be between 5.5–8.0 for optimum vine growth and soil microbial composition, no one prescriptive ‘ideal’ set of soil properties exists. Rather a broad and generalised range is presented as being suitable under different environmental circumstances and for different rootstocks, clones, varieties, planting densities and training systems. It should also be noted that many soil characteristics, particularly nutrient availability, can be ameliorated via soil management activities to achieve desired traits.

Soil suitability for English and Welsh vineyards is considered to be one or more of the following soils, as described through the LandIS NATMAP SoilScapes (<http://www.landis.org.uk/soilscapes/>) product:

- Shallow lime rich soils over chalk or limestone
- Freely draining soils
- Very acid sandy and loamy soils
- Slightly acid sandy soils
- Slightly acid loamy soils
- Slightly acid but base-rich soils
- Sandy Breckland soil
- Lime-rich loamy soils
- Acid loamy soils over rock

Other soils that may be considered (on a case by case basis) are those classified as:

- Slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils
- Slowly permeable seasonally wet acid loamy and clayey soils
- Slightly acid loamy and clayey soils with impeded drainage

If you are unsure of the soil classification of the land you have selected please visit <http://www.landis.org.uk/soilscapes> to find out.

VineMAP uses the LandIS SoilScapes product to provide an indicative measure of soil characteristics across the UK but please note that this dataset is purely indicative as it is not developed for field scale assessments and should therefore not be relied on as entirely representative of the soils of your selected area.

All prospective vineyard sites require in-field soil sampling and assessment to determine site soil characteristics, amelioration requirements, rootstock, clonal and viticulture suitability. Please contact Vinescapes directly to discuss soil suitability further or/and to undertake this process.

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## Terms and Conditions

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This report was produced under Vinescapes VineMAP Terms and Conditions as accepted online by the customer prior to purchase. For further information regarding Terms and Conditions please contact [info@vinescapes.com](mailto:info@vinescapes.com).

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## Mapping

### Overview

Mapping for this report was generated using the maploom platform. This is a cloud based geospatial analysis and modelling platform that uses open standards and open source analysis tools to deliver a wide range of location-based insights to non-specialist users. Further details can be found at [www.maploom.com](http://www.maploom.com).

### Mapping Datasets

The geospatial datasets used within the report are predominantly drawn from open source datasets. For each map, the data sources and relevant citations are provided.

Further details are summarised below:

Dataset	Map In report	Source	Credit / Disclaimer
Aerial Photography	Extensive use throughout the report	HERE	© HERE, 2019
LiDAR	Extensive use throughout the report	Environment Agency	© Environment Agency copyright and/or database right 2019. All rights reserved.
SSSI - Sites of Special Scientific Interest LNR - Local Nature Reserves NNR – National Nature Reserves SAC – Special Areas of Conservation SPA – Special Protection Areas	Environmental designations	Natural England	© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2019.
Registered Battlefields Registered Parks and Gardens Listed Buildings Scheduled Monuments Building Preservation Notices Certificates of Immunity	Historical Designations	Historic England	© Historic England 2019. Contains Ordnance Survey data © Crown copyright and database right 2019.
World Heritage Sites	Historical Designations	UNESCO	© Historic England 2019 / UNESCO. Contains Ordnance Survey data © Crown copyright and database right 2019.
OpenMap Local	Site Overview: Access	Ordnance Survey	Contains OS data © Crown copyright and database right 2019.
Flood zones 2 and 3	Flood Risk	Environment Agency	© Environment Agency copyright and/or database right 2019. All rights reserved.
CEH Land Cover Map 2015	Land Cover	Centre for Ecology and Hydrology	Rowland, C.S.; Morton, R.D.; Carrasco, L.; McShane, G.; O’Neil, A.W.; Wood, C.M. (2017) Land Cover Map 2015 (25m raster, GB). NERC Environmental Information Data Centre. <a href="https://doi.org/10.5285/bb15e200-9349-403c-bda9-b430093807c7">https://doi.org/10.5285/bb15e200-9349-403c-bda9-b430093807c7</a>