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**BCarbon Soil Carbon Application Checklist**

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| Name | Description | Format |
| Map 1 | Map of total property area | pdf + Esri shapefile |
| Map 2 | Map of excluded property area | pdf + Esri shapefile |
| Map 3 | Map of project area eligible for carbon crediting  | pdf + Esri shapefile |
| Map 4 | Map of soil texture data | pdf + Esri shapefile |
| Map 5 | Map of topographic data | pdf + Esri shapefile |
| Map 6 | Map of current land management practices | pdf + Esri shapefile |
| Map 7 | Map of vegetative density  | pdf + Esri shapefile |
| Map 8a-z | Map of other data layers used in stratification | pdf + Esri shapefile |
| Map 9 | Map of proposed project strata | pdf + Esri shapefile |
| Map 10 | Map of proposed soil sample locations | pdf + Esri shapefile |
| Spreadsheet 1 | Spreadsheet with land management history data | Excel spreadsheet |
| Spreadsheet 2 | Spreadsheet with proposed project strata data | Excel spreadsheet |
| Spreadsheet 3 | Spreadsheet with historical soil carbon data (if applicable) | Excel spreadsheet |
| Spreadsheet 4 | Spreadsheet with baseline soil carbon data (if applicable) | Excel spreadsheet |

1. General Information

**Project developer:** Name, address, phone number, email, and website (if available).

**Same as landowner?** Y/N

**Landowner(s):** If no - landowner name, address, phone number, and email.

**Project name(s):**

**Project location(s):** Address and latitude/longitude

**BCarbon Soil Carbon Protocol Version:** i.e. August 2021, March 2022

**Main point of contact with BCarbon for project:** Name, email, and phone number.

1. Project Period

**Application date:** MM/DD/YYYY

**Anticipated baseline sampling date:** MM/DD/YYYY

1. Project Information

**Will interim credits be applied for?** Y/N

**Is the project located on private land?** Y/N

**Is any portion of the project located on public or leased land?** Y/N

1. Site Stratification Information

**Total property area (acres):**

**Project area eligible for carbon crediting (acres):**

**Map of total property area (pdf + Esri shapefile):** Map 1

**Map of excluded property area (pdf + Esri shapefile):** Map 2

**Map of project area eligible for carbon crediting (pdf + Esri shapefile):** Map 3

**Provide soil type map, with source information, used to stratify the project area (pdf + Esri shapefile):** Map 4

**Provide topographic map, with source information, used to stratify the project area (pdf + Esri shapefile):** Map 5

**Provide map of land management practices, with source information, used to stratify the project area (pdf + Esri shapefile):** Map 6

**Provide map of vegetative density (NDVI or other), with source information, used to stratify the project area (pdf + Esri shapefile):** Map 7

**Did you use other data layers to stratify the project area?** Y/N

* **If yes, list the other data layers used:**
* **Attach maps of the other data layers used and sources (pdf + Esri shapefile):** Maps 8a, 8b, 8c, etc.

**What method was used to stratify the property?** (*Verra VCS Module VMD0021* or Other)

* **If Other, report the stratification method used and explain how it was done:**

**Provide map of proposed project strata (pdf + Esri shapefile):** Map 9

**Provide spreadsheet with acreage and descriptions of proposed strata (Excel spreadsheet):** Spreadsheet 1

1. Soil Sampling Information

**Provide historical soil carbon and bulk density measurement results if available (Excel spreadsheet):**  Spreadsheet 2

**Proposed soil sampling service provider:** Name, address, website

**Depth interval of intended soil sampling:**

**What statistical method was/will be used to determine the number of samples needed in each stratum?** (From Section B3.1.1 of protocol: *Verra VCS Module VMD0021* or Other)

* **If Other, report the statistical method used and explain how it is of equivalent statistical rigor to the one listed in the protocol:**

**What sampling method was/will be used to determine the location of soil samples?** (From Section B3.1 of protocol: *Simple random sampling* or *grid sampling* or *cLHS* or Other)

* **If Other, report the sampling method used:**

**Provide map of proposed soil sample locations in each stratum (pdf + Esri shapefile):** Map 10

**Do you have copies of field notes and/or landowner survey data? Y/N**

* **If yes, we may ask for copies of this data.**

**OPTIONAL: Provide 5 different representative photographs of each proposed strata taken at the same time of year (pdf):**

1. Laboratory Analysis Information

**Proposed laboratory:** Name, address, website

**What bulk density analysis method will be used?** (From page B.8 of the BCarbon Soil Carbon Protocol: *KSSL Method Manual Saran-Coated Clods (3B1a)* or *ASTM Method D2937* or *ASTM Method D7263* or Other)

* **If Other, report the bulk density analysis method to be used and explain how it is of equivalent analytical rigor to those listed in the protocol:**

**What pre-processing method will be used for total and/or organic carbon analysis?** (From page B.7 of the BCarbon Soil Carbon Protocol: air dying - *KSSL Method Manual Air-Dry Preparation (1B1b2b)* + crushing and sieving - *KSSL Method <2-mm Fraction (1B1b2b)* + *KSSL Method <2-mm Fraction Processed to ≈180 μm (1B1b2d)* or Other)

* **If Other, report the** **pre-processing for total carbon analysis method that will be used and explain how it is of equivalent analytical rigor to those listed in the protocol:**

**What method will be used to determine the necessity of measuring inorganic carbon content?** (From page B.8 of the BCarbon Soil Carbon Protocol: *KSSL Method* *Presence of Carbonates (1B1b2d4)* or Other)

* **If Other, report the method to be used to determine the necessity of measuring inorganic carbon content and explain how it is of equivalent analytical rigor to those listed in the protocol:**

**If presence of inorganic carbon is detected, what method will be used to determine inorganic carbon content?** (From page B.8 of the BCarbon Soil Carbon Protocol: *KSSL Method Manual Calcium Carbonates (4E1a1a1)* or *Section 4.2 Calcareous samples in the Australian National Soil Carbon Research Programme*)

* **If Other, report the method to be used to determine inorganic carbon content and explain how it is of equivalent analytical rigor to those listed in the protocol:**

**What method will be used to determine total organic carbon content?** (From page B.8 of the BCarbon Soil Carbon Protocol: *KSSL Method Manual Dry Combustion (4H2)* or *Section 4.1 Measurement of carbon concentration in the Australian National Soil Carbon Research Programme* or *KSSL Method Manual Mid-Infrared Diffuse Reflectance Spectroscopy (MIR–DRS) (7A7)* or *Section 7 Mid-Infrared Spectroscopy in the Australian National Soil Carbon Research* or Other)

* **If Other, report the method to be used to determine total carbon content and explain how it is of equivalent analytical rigor to those listed in the protocol:**

**Will you be measuring root carbon?** Y/N

**If yes, what root washing, separation, and drying method will be used?** (From page B.9 of the BCarbon Soil Carbon Protocol: *Modified KSSL Method Manual Root biomass (6C1) where the ratio of 2-20mm fraction dry roots mass to field-moist soil mass is reported* or Other)

* **If Other, report the root washing, separation, and drying method to be used and explain how it is of equivalent analytical rigor to those listed in the protocol:**

**What root sieving method will be used?** (From page B.9 of the BCarbon Soil Carbon Protocol: *Modified KSSL Method Manual <2-mm Fraction (1B1b2b) where the >2-20mm fraction is kept for further analysis* or Other)

* **If Other, report the root sieving method to be used and explain how it is of equivalent analytical rigor to those listed in the protocol:**

**What pre-processing for total carbon analysis method will be used?** (From page B.9 of the BCarbon Soil Carbon Protocol: *KSSL Method Manual <2-mm Fraction Processed to ≈180 μm (1B1b2d)* or Other)

* **If Other, report the method to be used for pre-processing for total carbon analysis and explain how it is of equivalent analytical rigor to those listed in the protocol:**

**What total carbon content method will be used?** (From page B.9 of the BCarbon Soil Carbon Protocol *KSSL Method Manual Dry Combustion (4H2)* or *Section 4.1 Measurement of carbon concentration in the Australian National Soil Carbon Research Programme* or *KSSL Method Manual Mid-Infrared Diffuse Reflectance Spectroscopy (MIR–DRS) (7A7)* or *Section 7 Mid-Infrared Spectroscopy in the Australian National Soil Carbon Research Programme* or Other)

* **If Other, report the method to be used to measure total carbon content and explain how it is of equivalent analytical rigor to those listed in the protocol:**
1. Interim Crediting Documentation

**Provide baseline soil carbon and bulk density measurement results, if available:** Spreadsheet 3

**Provide peer-reviewed scientific literature used to support interim credit estimates (Excel spreadsheet):**

* Include a link to the paper or digital copy.
* Report the soil carbon sequestration rate, with uncertainties, in units of metric tons of CO2e per acre per year obtained from each paper.
* Briefly explain why these papers are relevant to the carbon project in the application.

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| --- | --- | --- |
| Link to paper | Sequestration rate | Explanation of relevance |
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1. Applicant Attestation and Landowner Agreement

**\*\*\*Applicant will provide executed landowner agreements per the BCarbon certifier agreement. Applicant hereby certifies that, to the best of Applicant’s knowledge, the provided information attached above and throughout this application is true and accurate. Applicant understands that all information provided is subject to verification by BCarbon Inc., and acknowledges that submission of the application does not constitute approval by BCarbon Inc.\*\*\***

**Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_**