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**Offset Project Monitoring and Verification Report**

**Forms**

**Afforestation**

**Version 1.1**

**Issued by:**

**Bureau of Energy and Technology Policy**

**CT Department of Energy & Environmental Protection**

[**http://www.ct.gov/deep**](http://www.ct.gov/deep)**/**

**April 2016**

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# Overview

To demonstrate the achievement of CO2-equivalent emissions reductions from an afforestation offset project that has received a consistency determination from the Connecticut Department of Energy & Environmental Protection (“Department”), a Project Sponsor must submit to the Department in accordance with instructions (see accompanying instructions packet) a fully completed *Offset Project Monitoring and Verification Report – Afforestation Version 1.1* (“*M&V Report*”), consisting of the coversheet and all forms and related attachments. Following these instructions will ensure that the *M&V Report* contains all necessary information.

The Project Sponsor should review the CO2 Budget Trading Program regulations at [section 22a-174-31a of the Regulations of Connecticut State Agencies](http://eregulations.ct.gov/eRegsPortal/Browse/RCSA/%7BAD17F047-6A0C-40AF-95A1-BF24577EC5CD%7D) (“RCSA”) addressing offset projects and the award of CO2 offset allowances. All offset project submittal materials and documents are available at [www.ct.gov/deep/cwp/view.asp?a=2684&Q=440696&depNav\_GID=1619](http://www.ct.gov/deep/cwp/view.asp?a=2684&Q=440696&depNav_GID=1619).

# Submission Instructions

Please complete this form and supporting documents in accordance with [section 22a-174-31a of the RCSA](http://eregulations.ct.gov/eRegsPortal/Browse/RCSA/%7BAD17F047-6A0C-40AF-95A1-BF24577EC5CD%7D), the RGGI Model Rule ([www.rggi.org/documents](http://www.rggi.org/documents)) and accompanying instructions to ensure the proper handling of your application. These instructions are not a substitute for the requirements of the relevant statutes and any regulations thereunder. You should review all applicable laws prior to completing this application. Remember, it is your responsibility to comply with all applicable laws. There is no fee associated with the submission of this application.

Submit one (1) complete paper hardcopy original and one (1) electronic copy of the *M&V Report* in the form of a CD disk. Submit hardcopies of forms requiring signatures as originally-signed copies and scan such signed forms for electronic submission. Facsimiles of the *M&V Report* are not acceptable under any circumstances.

ATTN: MICHAEL MALMROSE

CO2 BUDGET TRADING PROGRAM

BUREAU OF ENERGY AND TECHNOLOGY POLICY

CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION

10 FRANKLIN SQUARE

NEW BRITAIN, CT 06051

If you have any questions about the *M&V Report*, please contact Michael Malmrose at michael.malmrose@ct.gov or at (860) 827-2933.

The *M&V Report* includes three parts, as described below. Each part comprises specified forms and required documentation. The *M&V Report* has been created as a Microsoft Word document with editable fields. Enter information directly in the fields provided or submit information or documentation as an attachment, as instructed. Include headers on all attachments indicating the form to which each is attached, the offset project name, and offset project ID code.

The Project Sponsor should save an electronic copy for his or her file to serve as a reference for any necessary remediation.

# M&V Report Forms

The *M&V Report* consists of eight (8) forms divided into three parts, as follows:

**Part 1. General Information Forms**

* Form 1.1 – Coversheet
* Form 1.2 – General Information
* Form 1.3 – Attestations
* Form 1.4 – Project Sponsor Statement
* Form 1.5 – Disclosure of Greenhouse Gas Emissions Data Reporting

**Part 2. Category-Specific Information and Documentation Forms**

* Form 2.1 – Demonstration of Conformance with M&V Plan
* Form 2.2 – Determination of Reporting Period Sequestration

**Part 3. Independent Verification Form**

* Form 3.1 – Independent Verifier Certification Statement and Report

Note that although the forms include many embedded instructions, Project Sponsors are advised to consult the accompanying instructions packet for full instructions and documentation requirements.

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| ***Offset Project Name***

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 | ***Offset Project ID Code***

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### Form 1.1 – Coversheet

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| ***Project Sponsor (RGGI COATS Authorized Account Representative)***

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 |
| ***Project Sponsor Organization***

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 |
| ***Reporting Period***

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 |
| ***RGGI COATS General Account Name***

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 |
| ***RGGI COATS General Account Number***

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 |
| Check the boxes below to indicate submission of the following required forms: |
| [ ]  | Form 1.2 – General Information |
| [ ]  | Form 1.3 – Attestations |
| [ ]  | Form 1.4 – Project Sponsor Statement |
| [ ]  | Form 1.5 – Disclosure of Greenhouse Gas Emissions Data Reporting  |
| [ ]  | Form 2.1 – Demonstration of Conformance with M&V Plan |
| [ ]  | Form 2.2 – Determination of Reporting Period Sequestration |
| [ ]  | Form 3.1 – Independent Verifier Certification Statement and Report |

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| ***Offset Project Name***

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 | ***Offset Project ID Code***

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### Form 1.2 – General Information

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| ***Project Sponsor (RGGI COATS Authorized Account Representative)***

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 |
| ***Telephone Number***

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 | ***Fax Number***

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|       |

 | ***Email Address***

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 |
| ***Street Address***

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 |
| ***City***

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 | ***State/Province***

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 | ***Postal Code***

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 | ***Country***

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| ***RGGI COATS General Account Name***

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| ***RGGI COATS General Account Number***

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| ***Name of Offset Project***

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 | ***Project Commencement Date***

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| ***Summary Description of Offset Project***

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| ***Project City***

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 | ***Project County***

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 | ***Project State***

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| ***Project Sponsor Organization***

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 |
| ***Primary Street Address***

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 |
| ***City***

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 | ***State/Province***

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 | ***Postal Code***

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 | ***Country***

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 |
| ***Brief Description of Project Sponsor Organization***

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| ***Telephone Number***

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 | ***Website URL***

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| ***Independent Verifier (Company/Organization)***

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 | ***States Where Verifier Accredited***

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 |
| ***Primary Street Address***

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 | ***Website URL***

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| ***City***

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 | ***State/Province***

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 | ***Postal Code***

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 | ***Country***

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 |
| ***Point of Contact for Project***

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| ***Contact Telephone Number***

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 | ***Contact Fax Number***

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 | ***Contact Email Address***

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| ***Contact Street Address***

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| ***City***

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 | ***State/Province***

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### Form 1.3 – Attestations

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| The undersigned Project Sponsor certifies the truth of the following statements: |
| 1. All offset projects for which the Project Sponsor or project sponsor organization has received CO2 offset allowances, under the Project Sponsor’s or project sponsor organization’s ownership or control (or under the ownership or control of any entity which controls, is controlled by, or has common control with the Project Sponsor or project sponsor organization) are in compliance with all applicable requirements of the CO2 Budget Trading Program in all participating states.
 |  |
| 1. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this *M&V Report* and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.
 |  |
|  Signature of Project Sponsor  | **/     /**Date (MM/DD/YYYY) |
| Name of Project Sponsor (printed) |  |
| Title |  |
| Organization |  Notary |

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### Form 1.4 – Project Sponsor Statement

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| The undersigned Project Sponsor hereby confirms and attests that the offset project upon which this Monitoring and Verification Report is based is in full compliance with all of the requirements of section 22a-174-31a of the RCSA. The Project Sponsor holds the legal rights to the offset project, or has been granted the right to act on behalf of a party that holds the legal rights to the offset project. The Project Sponsor understands that eligibility for the award of CO2 offset allowances under section 22a-174-31a of the RCSA is contingent on meeting the requirements of section 22a-174-31a of the RCSA. The Project Sponsor authorizes the Department or its agent to audit this offset project for purposes of verifying that the offset project, including the Monitoring and Verification Plan, has been implemented as described in the *Consistency Application* that was the subject of a consistency determination by the Department. The Project Sponsor understands that this right to audit shall include the right to enter the physical location of the offset project and to make available to the Department or its agent any and all documentation relating to the offset project at the Department’s request. The Project Sponsor submits to the legal jurisdiction of Connecticut. |
|  Signature of Project Sponsor  | **/     /**Date (MM/DD/YYYY) |
| Name of Project Sponsor (printed) |  |
| Title |  |
| Organization |  Notary |

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### Form 1.5 – Disclosure of Greenhouse Gas Emissions Data Reporting

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| Check the box below that applies: |
| [ ]  | No greenhouse gas emissions data related to the offset project referenced in this *M&V Report* have been or will be reported to a voluntary or mandatory program other than the CO2 Budget Trading Program. |
| [ ]  | Greenhouse gas emissions data related to the offset project referenced in this *M&V Report* have been or will be reported to a voluntary or mandatory program other than the CO2 Budget Trading Program. Information for all such programs to which greenhouse gas emissions data have been or will be reported is provided below. |
| ***Name of Program to which GHG Emissions Data Reported***

|  |
| --- |
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 |
| Check all that apply: |
| [ ] [ ] [ ] [ ] [ ]  | Reporting is currently ongoingReporting was conducted in the pastReporting will be conducted in the futureReporting is mandatoryReporting is voluntary | ***Enter Frequency of Reporting***

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***Enter Reporting Start Date***

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| ***Program Contact Information – Address***

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 | ***Program Website***

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| ***Categories of Emissions Data Reported***

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 |
| ***Name of Program to which GHG Emissions Data Reported***

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| Check all that apply: |
| [ ] [ ] [ ] [ ] [ ]  | Reporting is currently ongoingReporting was conducted in the pastReporting will be conducted in the futureReporting is mandatoryReporting is voluntary | ***Enter Frequency of Reporting***

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***Enter Reporting Start Date***

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| ***Program Contact Information – Address***

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 | ***Program Website***

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| ***Categories of Emissions Data Reported***

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| Add extra pages as needed. |

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| ***Offset Project Name***

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### Form 2.1 – Demonstration of Conformance with M&V Plan

Provide documentation that procedures and protocols specified in the M&V Plan were performed and records specified in the M&V Plan were generated and retained. All attached documentation must include a header that indicates it is an attachment to Form 2.1 and includes the offset project name and offset project ID code.

Check the boxes below to indicate that the following required documentation is provided as an attachment to Form 2.1:

|  |  |
| --- | --- |
| [ ]  | 1. ***Identification of Sub-populations***. Map to scale identifying how the area within the offset project boundary is divided into sub-populations for determining project carbon sequestration. |
| [ ]  | 2. ***Identification of Sampling Plots***. List of number, sizes, and locations of all sampling plots used for calculating carbon sequestration during the reporting period for each sub-population, including recent photos and distinct sampling plot identifiers. |
| [ ]  | 3. ***Documentation of Direct Measurement Procedures Conducted for Each Carbon Pool in Each Sampling Plot***. List for each carbon pool of all measurement procedures used to calculate carbon sequestered and cross reference of all procedures with those specified in the M&V Plan. |
| [ ]  | 4. ***Assessment of Forest Management Practices if Commercial Timber Harvest Activities Have Occurred or Will Occur***. If applicable, the assessment or certification issued by American Tree Farm System (ATFS), Forest Stewardship Council (FSC), Sustainable Forestry Initiative (SFI), or such other similar organizations as approved by the Department ensuring that the land within the offset project boundary is being managed in accordance with environmentally sustainable forestry practices. |
| [ ]  | 5. ***Documentation of Quality Assurance Procedures Conducted***. Documentation of quality assurance procedures conducted during the reporting period to ensure accuracy in data collection, data analysis, and data storage, and cross reference of all procedures with those specified in the M&V Plan. |

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### Form 2.2 – Determination of Reporting Period Sequestration

Provide documentation of the carbon sequestered during the reporting period where indicated in Form 2.2 or as an attachment to Form 2.2, as directed below. Each attachment must include a header that indicates it is an attachment to Form 2.2 and includes the offset project name and offset project ID code. Multiple attachments may be integrated into a single document, as appropriate, as long as each element is clearly identified, as specified below. For submission of the electronic version of the M&V Report, spreadsheets must be provided as a distinct electronic file or files (distinct spreadsheets may be incorporated into a single spreadsheet file, as appropriate, as long as each element is clearly identified, as specified below).

A. Reporting Period Data

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| 1. ***Reporting Period***. |
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 | Enter the dates of the reporting period (start/end) |
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 | Enter dates when measurements were taken (may include a range) |
| 2. ***Net Carbon Sequestered***. Enter results of net carbon sequestration calculations: |
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 | Reporting period carbon stock in short tons of CO2-e |
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 | Baseline period or previous reporting period carbon stock in short tons of CO2-e |
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 | Net carbon sequestration during reporting period in short tons of CO2-e |
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 | Potential future carbon losses discount (enter NA if long-term insurance retained; enter 0.9 if no long-term insurance retained) |
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 | Loss-adjusted net carbon sequestration during reporting period in short tons of CO2-e (net carbon sequestration multiplied by potential future losses discount factor, if applicable) |
| 3. ***Reporting Period Carbon Pools***. Enter reporting period carbon content in short tons of CO2-e for the included carbon pools: |
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 | Live above-ground tree biomass (required) |
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 | Live below-ground tree biomass (required) |
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 | Soil carbon (required) |
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 | Dead organic matter and coarse woody debris (required, unless the baseline measurement for this carbon pool is at or near zero, in which case measurement of this carbon pool is optional) |
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 | Live above-ground non-tree biomass (optional) |
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 | Dead organic matter, forest floor (optional) |
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 | Total of above |

***B. Reporting Period Documentation***

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| Check the boxes below to indicate that the following required documentation is attached:  |
| [ ]  | 4. ***Reporting Period Description***. Map to scale providing a description of practices/management and land cover currently in place within the offset project boundary. |

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| ***Offset Project Name***

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 | ***Offset Project ID Code***

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| [ ]  | 5. ***Field Measurement Data***. Spreadsheet containing field measurement data collected from each sampling plot for determining biomass and carbon for each carbon pool, including:* Sampling plot names
* Sampling plot dimensions
* Sampling plot slopes
* Tree diameters
* Tree heights
* Standing dead wood diameters, heights, and decomposition classes
* Dead wood transect lengths
* Dead wood diameters and decomposition classes
* Non-tree vegetation and forest floor quadrat sizes
* Non-tree vegetation and forest floor field sample weights
* Non-tree vegetation and forest floor laboratory sample dry weights
* File names for plot photograph
 |
| [ ]  | 6. ***Documentation of Carbon Calculations***. Spreadsheet that documents all carbon calculations. |
| [ ]  | 7. ***Demonstration of Quantified Accuracy***. Spreadsheet that documents quantified accuracy for the combined carbon pool measurement. |

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| ***Offset Project Name***

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 | ***Offset Project ID Code***

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### Form 3.1 – Independent Verifier Certification Statement and Report

An accredited independent verifier must sign and date the form. Attach the accredited verifier report. The attached verifier report must include a header that indicates it is an attachment to Form 3.1 and includes the offset project name and offset project ID code.

|  |  |
| --- | --- |
| ***Name of Accredited Independent Verifier***

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 |
| I certify that the accredited independent verifier identified above reviewed this *M&V Report*, including all forms and attachments, in its entirety, including a review of the following: |
| 1. | The verifier has reviewed the entire *M&V Report* and evaluated the contents of the report in relation to the applicable requirements of section 22a-174-31a of the RCSA and the required information that must be provided in the *M&V Report*. |
| 2. | The verifier has evaluated the adequacy and validity of information supplied by the Project Sponsor to determine CO2-equivalent sequestration in accordance with subsection 22a-174-31a(f) of the RCSA and the required documentation that must be provided in the *M&V Report*. |
| 3. | The verifier has evaluated the adequacy and consistency of methods used by the Project Sponsor to quantify, monitor, and verify CO2-equivalent sequestration in accordance with the applicable requirements of subsection 22a-174-31a(f) of the RCSA and the Monitoring and Verification Plan submitted as part of the *Consistency Application*. |
| A verification report is attached that documents the verifier’s review of the items listed above and includes evaluation conclusions and findings. |

|  |  |
| --- | --- |
|  Signature of Verifier Representative  |      /     /     Date (MM/DD/YYYY) |
| Name of Verifier Representative (printed) |  |
| Title |  |
|  |  Notary |