

U.S. FOREST OFFSET PROJECT DATA REPORT ANNUAL REPORTING PERIOD – ALL PROJECT TYPES

OPR Staff Use Only	Date Report Received:	OPR Tracking Number:	Date Report Reviewed:	OPR Staff Use Only
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Complete for all reporting years. Entities submitting the project's first Offset Project Data Report must submit the information requested in both **Initial Reporting Period** and the **Annual Reporting** forms to the appropriate Offset Project Registry. For every reporting period thereafter, submit only the information requested in the Annual Reporting Period form.

PART I. ENTITY SUBMITTING REPORT

Is this form being submitted by the Offset Project Operator (OPO) or by the Authorized Project Designee (APD)? <i>Note: The person completing this form should be an OPO/APD employee.</i>			<input type="checkbox"/> OPO <input checked="" type="checkbox"/> APD
Report Version Number: 1.1.1.2	Date Report Completed: November 5, 2021	Date Report Submitted: November 8, 2021	
Person Completing Report: James D. Clark	Phone Number: 707-485-7211	Email Address: jimclark@ncrm.com	

PART II. OFFSET PROJECT INFORMATION

Offset Project Name: Congaree River			
OPR Project ID#: ACR292	ARB Project ID# (if known): CAFR5242	Offset Project Commencement Date: October 21, 2015	
Date of Last Full (On-Site) Verification: October 17, 2019	Reporting Period Start Date: July 1, 2019	Reporting Period End Date: June 30, 2020	
Is this report being submitted for a verification year?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Protocol Version for Project Listing: <input type="checkbox"/> October 20, 2011 <input checked="" type="checkbox"/> November 14, 2014		Protocol Version for Project Reporting: <input type="checkbox"/> October 20, 2011 <input checked="" type="checkbox"/> November 14, 2014	
Is this Offset Project Data Report (OPDR) being submitted for the project's initial Reporting Period? If "yes", the entity submitting this report must also submit the information required in section 9.1.1 of the U.S. Forest protocol. To submit that information, an OPO/APD submitting an OPDR may use one of three Initial Reporting Forms identified in the question immediately below.			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
With this Annual OPDR, is any one of the following three U.S. Forest Offset Project Data Report Initial Reporting Period forms also being submitted?		<input type="checkbox"/> Reforestation <input type="checkbox"/> Improved Forest Management <input type="checkbox"/> Avoided Conversion	

PART III. OPO/APD INFORMATION

A. OPO			
OPO Name: Congaree River, LLC, an Illinois LLC		OPO's CITSS ID#: CA 2001	
Mailing Address: 53 W Jackson Blvd. Suite 530	City: Chicago	State: CA	Zip: 60604
Contact Person: Francis Beidler IV	Phone Number: (312) 922-3808	Email Address: fbeidler@congarree.com	
B. APD (if applicable)			<input type="checkbox"/> No APD/Not Applicable
APD Name: James D. Clark		APD's CITSS ID#: CA 1569	
Mailing Address: PO Box 435	City: Calpella	State: CA	Zip: 95418

Contact Person: James D. Clark	Phone Number: (707) 485-7211	Email Address: jimclark@ncrm.com
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PART IV. OFFSET PROJECT ELIGIBILITY REQUIREMENTS		
A. Have the Forest Project and associated Project Lands met and been in compliance with all local, state, and federal regulatory requirements during the Reporting Period?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If no, provide an explanation of the non-compliance. N/A		
B. Indicate how the offset project meets the definition of Natural Forest Management per Table 3.2 in the U.S. Forest protocol by completing Questions B1-B4 below: <i>Note: Reforestation projects with deferred inventory and Project Boundaries are still required to complete Questions B1-B4.</i>		
1. Native species: a) Does the project consist of at least 95% native species based on the estimated sum of carbon in the standing live carbon pool? <i>If "no," proceed to question 1b. Otherwise, skip to question B2.</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b) Describe how the project will result in achieving a 95% native species goal over the project life. N/A		
2. Composition of native species: a) Does the Project Area naturally consist of a mixed species distribution such that no single species' prevalence exceeds the percentage value of standing live carbon shown under the heading 'Species Diversity Index' in the Assessment Area Data File? <i>If "no," proceed to questions 2b and 2c. Otherwise skip to question B3.</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b) Explain how the project will demonstrate a trend toward achieving the Species Diversity Index of native species and meet this requirement within 25 years. N/A		
c) If the Project Area does not naturally consist of a mixed species distribution: Will or have you provided a written statement from the government agency in charge of forestry regulation in the state where the project is located stipulating that the Project site is not capable of meeting the requirement of mixed species distribution.		<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Distribution of age classes/sustainable management: a) Indicate how the project meets the requirement for sustainable management if regeneration or commercial harvesting is either planned or initiated within the Project Area demonstrating sustainable long-term harvesting practices. This applies to all forest landholdings of the Forest Owner(s) (check one of the boxes). <i>The full text associated for the options below is found in section 3.8.1 of the U.S. Forest protocol.</i> <div style="margin-left: 20px;"> <input type="checkbox"/> Third party certification <input type="checkbox"/> Adhere to a renewable long-term management plan <input type="checkbox"/> Employs uneven-aged silvicultural practices & maintain canopy retention averaging 40% across forest <input checked="" type="checkbox"/> Not applicable, no commercial harvesting in planned within the project area </div>		
b) On a watershed scale up to 10,000 acres (or the Project Area, whichever is smaller), projects must maintain, or make progress toward maintaining, a maximum of 40% of the project's forest lands in ages that are less than 20 years old. (Areas impacted by Significant Disturbance are exempt from this test until 20 years after reforestation of such areas.) Does the acreage within this project meet this requirement? <i>If "no," proceed to question 3c. Otherwise, skip to question B4.</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Explain how the project demonstrates continuous progress toward meeting this requirement within the next 25 years. N/A		
4. Structural elements (standing and lying dead wood): How does the project ensure that structural elements are retained in sufficient quantities throughout the project life? See Addendum to OPDR (Annual) IV.B.4.		
C. Has there been a decrease in the standing live carbon stocks within the Project Area over any 10-year consecutive period? <i>For the Initial Reporting Period, check "No." If "No," skip to Part V. If yes, answer questions C1 and C2.</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1. If yes, identify the appropriate option and provide additional documentation. <input type="checkbox"/> Decrease is due to the necessity to substantially improve the Project Area's resistance to wildfire, insect, or disease risks. Actions that will be taken to reduce the risks must be documented and the techniques used to improve resistance must be supported by relevant published peer reviewed research. <input type="checkbox"/> Decrease is associated with a planned balancing of age classes and is detailed in a long-term management plan that demonstrates harvest levels can be permanently sustained over time and that		

is sanctioned and monitored by a state or federal agency. This documentation must be submitted at the time of the Project's Listing.

☐ Decrease is part of normal silviculture cycles for forest ownerships less than 1,000 acres.

Note: Documentation is required to be submitted. See Section X for details.

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| 2. Has the Project's inventory of standing live carbon stocks fallen below the Project's baseline standing live carbon stocks, or 20 percent less than the Project's standing live carbon stocks at the project's initiation (whichever is higher)? | <input type="checkbox"/> Yes
<input type="checkbox"/> No |
|--|---|

PART V. PROJECT CHANGES

- | | |
|--|--|
| A. Is all the information in the offset project listing still accurate?
<i>If "Yes," skip to question B.</i> | <input type="checkbox"/> Yes
<input checked="" type="checkbox"/> No |
| 1. Does Part II above report an updated Offset Project Commencement Date, Reporting Period Start Date, and/or Reporting Period End Date? | <input checked="" type="checkbox"/> Yes
<input type="checkbox"/> No |
| 2. Does Part III above report updated OPO/APD Information? | <input type="checkbox"/> Yes
<input checked="" type="checkbox"/> No |
| 3. Are there updates to the Land Ownership listing information?
<i>If "Yes," provide updates below (and/or provide as separate attachment):</i> | <input type="checkbox"/> Yes
<input checked="" type="checkbox"/> No |
| 4. Are there updates to the Offset Project Area listing information?
<i>If "Yes," provide updates below (and/or provide as separate attachment):</i>
See Addendum to OPDR (Annual) V.A.4. | <input checked="" type="checkbox"/> Yes
<input type="checkbox"/> No |
| 5. Are there updates to the Carbon Stock Inventory listing information?
<i>If "Yes," provide updates below (and/or provide as separate attachment):</i>
See Addendum to OPDR (Annual) V.A.5. | <input checked="" type="checkbox"/> Yes
<input type="checkbox"/> No |
| 6. Are there updates to the Offset Project Baseline listing information?
<i>If "Yes," provide updates below (and/or provide as separate attachment):</i>
See Addendum to OPDR (Annual) V.A.6. | <input checked="" type="checkbox"/> Yes
<input type="checkbox"/> No |
| 7. Are there any other updates to the listing information?
<i>If "Yes," provide updates below (and/or provide as separate attachment):</i>
See Addendum to OPDR (Annual) V.A.7. | <input checked="" type="checkbox"/> Yes
<input type="checkbox"/> No |
| B. Have there been any changes in the status of the Forest Owner including, if applicable per Section 3.8.1 of the U.S. Forest protocol, the acquisition of new forest landholdings? | <input checked="" type="checkbox"/> Yes
<input type="checkbox"/> No |
| If yes, describe the changes. Include the sale or transfer of any portion of land within Project Area.
See Addendum to OPDR (Annual) V.B | |
| C. Optional: Has a Qualified Conservation Easement (QCE) been recorded since the previous Reporting Period?

<i>If this is for the Initial Reporting Period, check "Yes" if a QCE has been recorded since Listing, check "No" otherwise. If "No," skip to Question D.</i> | <input type="checkbox"/> Yes
<input checked="" type="checkbox"/> No |
| Optional: If yes, provide the date the QCE was recorded. Also provide a copy of the QCE to ARB.
N/A | |
| D. Optional: Have there been any modifications to the inventory methodology of any carbon pools included in the project's boundary since the last Reporting Period?

<i>All projects are required to document any modifications to inventory methodologies in a change log and obtain approval in advance. Qualifying Reforestation Projects may defer answering this question until the second full verification. If this is for the Initial Reporting Period, check "No," unless there have been modifications since project listing, in which case, check "Yes."</i> | <input checked="" type="checkbox"/> Yes
<input type="checkbox"/> No
<input type="checkbox"/> Defer |
| Optional: If yes, describe the modifications.
See Addendum to OPDR (Annual) V.D. | |

PART VI. REVERSALS

Note: Qualifying Reforestation Projects may defer items marked with an asterisk until the second verification.

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|---|---|
| A. Has a reversal occurred during the Reporting Period covered by this report?
<i>If this is for the Initial Reporting Period, check "No."</i>
<i>If "No," skip to question B.</i> | <input type="checkbox"/> Yes
<input checked="" type="checkbox"/> No |
| Has the reversal been classified as intentional or unintentional? | <input type="checkbox"/> Intentional
<input type="checkbox"/> Unintentional |
| Optional: Date(s) Reversal Occurred:
N/A | Optional: Estimated Quantity of Reversal in Units of MtCO ₂ e:
N/A |
| Describe and explain the reversal. | |

N/A		
What is the status of the compensation for the reversal? N/A		
B. For verification years ONLY : Has a reversal occurred during the previous six years? <i>If this is for the Initial Reporting Period, check "No."</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Has the reversal been classified as intentional or unintentional?		<input type="checkbox"/> Intentional <input type="checkbox"/> Unintentional
Optional: Date(s) Reversal Occurred: N/A	Optional: Estimated Quantity of Reversal in Units of MtCO ₂ e: N/A	
Describe and explain the reversal. N/A		
What is the status of the compensation for the reversal? N/A		
C. What is the Project's reversal risk rating?	Risk Rating: 19.24%	<input type="checkbox"/> Defer
What is the Project's fire risk based on level of fuel treatments?	<input type="checkbox"/> High (2%) <input type="checkbox"/> Medium (2.652%) <input type="checkbox"/> Low (3.304%) <input checked="" type="checkbox"/> None (4 %)	

PART VII. HARVEST VOLUMES AND CARBON IN WOOD PRODUCTS

Note: Qualifying Reforestation Projects may defer items marked with an asterisk until the second verification.

A. *Provide an estimate of the harvest volume for this Reporting Period. This estimate refers to the volume of trees harvested for wood products only.	Harvest Volume (Cubic Feet): 0	<input type="checkbox"/> Defer
B. *Indicate the estimated mill efficiency for wood products produced from the Project Area following requirements in Appendix C, Section C.2.	Mill Efficiency (percent): 67.5	<input type="checkbox"/> Defer
C. *Provide an estimate of carbon in harvested wood products associated with the harvest volumes reported for this Reporting Period.	Carbon estimate (MtCO ₂ e): 0	<input type="checkbox"/> Defer

PART VIII. CARBON STOCKS

In the appropriate columns below, enter the name/identification of all required carbon pools and its estimated carbon stock (MtCO₂e) for the current Reporting Period.

For verification years **ONLY**: Report the estimated carbon stock for every year since the Project's last verification.

☐ Defer

Reforestation Projects may defer full inventory of carbon stocks not affected by site preparation until second verification. If deferring, carbon stocks affected by site preparation must still be reported below.

Carbon Pool <i>Identify the pool by the SSR code (e.g., AC-1) and description (Standing live carbon) in Tables 5.1-5.3.</i>	Current Reporting Period	Current Reporting Period minus 1 year	Current Reporting Period minus 2 years	Current Reporting Period minus 3 years	Current Reporting Period minus 4 years
	7/01/2019 to 6/30/2020	/ to /	/ to /	/ to /	/ to /
IFM-1 Standing Live carbon	1,334,345				
IFM-3 Standing Dead Carbon	18,625				
IFM-7 Carbon in in-use Forest Products	0				
IFM-8 Forest Product Carbon in Landfills	0				

IFM-14 Biological emissions /removals from change in harvesting on forestland outside Project Area	-3,068	0	0		
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PART IX. BASELINE CARBON STOCKS

In the appropriate columns below, enter the name/identification of all required carbon pools and its estimated **baseline** carbon stock (MtCO₂e) for the current Reporting Period.

For verification years ONLY: Report the estimated baseline carbon stock for every year since the Project's last verification.

☐ **Defer**

Reforestation Projects may defer estimating baseline carbon stocks not affected by site preparation until a full inventory is obtained. If deferring, baseline estimates of carbon stock affected by site preparation must still be reported below.

Carbon Pool <i>Identify the pool by the SSR code (e.g., AC-1) and description (Standing live carbon) in Tables 5.1-5.3.</i>	Current Reporting Period 7/01/2019 to 6/30/2020	Current Reporting Period minus 1 year / to /	Current Reporting Period minus 2 years / to /	Current Reporting Period minus 3 years / to /	Current Reporting Period minus 4 years / to /
IFM-1 Standing Live carbon	1,165,838				
IFM-3 Standing Dead Carbon	17,380				
IFM-7 Carbon in In-use Forest Products	2,474				
IFM-8 Forest Product Carbon in Landfills	1,598				

PART X. QUANTIFICATION FACTORS

In the appropriate column below, enter the value for the current Reporting Period.

For verification years ONLY: Report the estimated values for every year since the Project's last verification.

Note: Qualifying Reforestation Projects may defer items marked with an asterisk until the second verification.

	Current Reporting Period	Current Reporting Period minus 1 year	Current Reporting Period minus 2 years	Current Reporting Period minus 3 years	Current Reporting Period minus 4 years
	7/01/2019 to 6/30/2020	/ to /	/ to /	/ to /	/ to /
A. Secondary Effects (MtCO ₂ e)	-3,068				
B. *Confidence Deduction (%) <input type="checkbox"/> Defer	0.0				
C. *Forest Buffer Account Contribution (MtCO ₂ e) <input type="checkbox"/> Defer	4,865				
D. For Avoided Conversion Projects <u>ONLY</u> : What is the Project's uncertainty discount factor?				%	<input checked="" type="checkbox"/> N/A

PART XI. TOTAL NET GHG REDUCTIONS AND GHG REMOVAL ENHANCEMENTS (QR_y)

In the appropriate column below, enter the total net GHG Reductions and GHG Removal Enhancements (MtCO₂e) for the current Reporting Period and all Reporting Periods since the Project's last full verification.

For verification years ONLY: Report the total net GHG Reductions and GHG Removal Enhancements for every year since the Project's last verification.

Current Reporting Period	Current Reporting Period minus 1 year	Current Reporting Period minus 2 years	Current Reporting Period minus 3 years	Current Reporting Period minus 4 years
	/ to /	/ to /	/ to /	/ to /
25,287				

PART XII. ATTESTATION AND OPO SIGNATURE

I certify under penalty of perjury under the laws of the State of California the GHG reductions and/or GHG removal enhancements for

Project Name:

Congaree River

from

Reporting Period Start Date:

July 1, 2019

to

Reporting Period End Date:

June 30, 2020

are measured in accordance with the Compliance Offset Protocol

Check the appropriate Compliance Offset Protocol:



U.S. Forest Projects, October 20, 2011,



U.S. Forest Projects, November 14, 2014,

and all information required to be submitted to ARB is true, accurate, and complete.

In signing this form, I certify under penalty of perjury of the laws of California that the information contained in this form is true, accurate, and complete. I further certify that I am duly authorized to represent and legally bind the Offset Project Operator (OPO) on all matters related to this form.

SIGNATURE:



PRINTED NAME:

James D. Clark

TITLE:

Authorized Project Designee

DATE:

November 8, 2021



Congaree River

ACR292, CAFR5242

Addendum to OPDR for the Annual Reporting Period Form

Under

Air Resources Board

Compliance Offset Protocol – U.S. Forest Projects

Adopted: November 14, 2014

Prepared October 4, 2021

Version 1.1.1.2

Offset Project Operator	Authorized Project Designee
Congaree River LLC, an Illinois LLC 53 W Jackson Blvd., Suite 530 Chicago, IL 60604 (312) 922-3808	James D. Clark PO Box 435 Calpella, CA 95418 (707) 485-7211

Reporting Period

The reporting period for this Offset Project Data Report is from 7/1/2019 to 6/30/2020.

Protocol Version

Air Resources Board

Compliance Offset Protocol – U.S. forest Projects

Adopted: November 14, 2014

The OPDR and all other project documentation and reports that reference carbon stocks have been prepared and submitted by James D. Clark, California Registered Professional Forester (No. 2528).

Introduction

Congaree River is an Improved Forest Management (IFM) Project that is seeking registration under the California Air Resources Board Compliance Offset Protocol – U.S. Forest Projects Adopted: November 14, 2014. The Offset Project Operator is Congaree River, LLC, an Illinois LLC. The Project is approximately 5,440 acres in size, and is comprised of three properties or tracts, the Rancheria Northeast Tract, Rancheria Southwest Tract, and the Lawson Tract, located in Mendocino County.

Summary of Reporting Period Activities

No commercial harvesting occurred during the reporting period. Twenty-six plots were re-inventoried as part of the RP4 site visit and twelve previously inventoried plots were reset to their original positions, because they had been initially offset, resulting in two plots being found outside the project area.

IV.B.1.

The Congaree River Project Area is characterized by a mix of Redwood, Douglas-fir, and other mixed conifers, tanoak, madrone, and other native hardwoods. Approximately 100% of the Project's biomass is in native species, and thus the Project meets the 95% criteria for carbon in native species.

IV.B.2.

The Congaree River Project Area is characterized by a mix of predominantly redwood, tanoak, and Douglas-fir, and hardwoods, consisting of Pacific madrone, bigleaf maple, live oak, California bay laurel, and other native hardwoods and conifers. It is estimated that, as of 6/30/16, the Project Area is composed of approximately 32% Douglas-fir, 30% redwood, 30% tanoak, 4% pacific madrone, and 4% other hardwoods by basal area. The Congaree River owner intends to manage the timber stands to maintain or increase conifer stocking, ensuring that the Project continues to meet the requirements for composition of native species under Table 3.2

(page 20) of the Compliance Offset Protocol by maintaining species' basal area percentage below 60%, the Species Diversity Index from the Assessment Area Data File.

IV.B.3.

(a) The Congaree River Project will employ natural forest management practices as described in items VI.B.1, VI.B.2, VI.B.3(b), and VI.B.4 as well as sustainable harvesting practices if it elects to conduct commercial harvesting in the future. Commercial harvesting is not currently planned in the Project Area for the near term. If the forest owners elect to conduct commercial harvesting in the future, sustainable long-term harvesting practices will be demonstrated using one or more of the compliant options allowed under section 3.8.1 of the Protocol.

(b) The project proposes to employ primarily uneven-aged management which will maintain no more than 40% of the Project's forested acreage in ages less than 20 years at a watershed scale up to 10,000 acres.

IV.B.4.

The Congaree River project does not remove incidental lying dead wood as a part of its stand management activities. It is expected that the accumulation of lying dead wood will be commensurate with recruitment from standing dead trees. The Congaree River project is committed to maintaining if not increasing, the number of standing dead trees within the Project Area as a component of its forest management objectives. The Congaree River project does not currently, nor does it intend in the future to actively pursue salvage operations on its timberlands. Congaree River project has a policy of allowing standing dead trees to remain and recruiting large specimen trees across its ownership as components of its overall timber management strategy.

The Congaree River Project Area has not recently undergone any salvage harvesting. Therefore, all that must be demonstrated is that the greater of one metric ton of carbon per acre or 1% of standing live carbon stocks is present in standing dead wood, or that progress towards these targets is ongoing. The project contains an average of 0.93 Mg C per acre and 1.40% of standing live carbon stocks in standing dead wood. The project will continue to make progress towards the above mentioned standing dead wood target.

V.A.1

The end of the initial reporting period was changed from April 30, 2016 to June 30, 2016 in part II of the initial OPDR.

V.A.4

The Project Area acreage was changed from 5,550 acres to 5,440.15 acres in part V of the initial OPDR and the acreage of the project lands within each assessment area was modified in part V.A of the initial OPDR.

V.A.5

The initial standing live and standing dead stocks were augmented, with updated figures in part VII.C. of the initial OPDR.

V.A.6

The Offset Project Baseline information was augmented, with updated figures in part VIII of the initial OPDR.

V.A.7

The application for listing document stated harvesting has occurred since the Offset Commencement Date. This has been corrected in part VII.A of the initial OPDR, as no

harvesting occurred from the Offset Commencement Date through the end of the initial reporting period.

A table showing biomass components utilized by decay class, for the calculation of standing dead carbon stocks, was added in part VII.B of the initial OPDR.

In part VII.B of the initial OPDR the table of FIA equations was augmented with updated figures and the wood densities utilized are now taken from Table C.1 of Appendix C of the Protocol.

The inventory carbon stocks for the initial reporting period were updated with augmented figures in part VII.C of the initial OPDR.

The application for listing, in part VII.C, stated a harvest is planned during the initial reporting period. This was removed, in part VII.C of the initial OPDR, as no harvest was planned or occur during the initial reporting period.

The inventory confidence statistics was updated with augmented figures in part VII.D of the initial OPDR.

The estimated contribution to the Forest Buffer Account during the initial reporting period was augmented, with updated figures in part VII.E of the initial OPDR.

The percent of basal area composition by species was augmented with updated figures in part V.I of the initial OPDR.

Structural elements (standing and lying dead wood) were updated with augmented figures in part VI.D.4 of the initial OPDR.

V.B.

The Forest Owner acquired new forest landholdings on April 3, 2018 as identified in Section IV.B.3.a above. These additional landholdings are not contiguous with Congaree River. Per Section 3.8.1 of the protocol, these new landholdings will be incorporated within the American Tree Farm Certification of all of Congaree River's forestlands within five years of the acquisition date.

V.D.

The inventory methodology has been revised to include clarifications on data collection procedures, and the inclusion of the walkthrough method is lieu of offsetting plots. These modifications are described in the attached Inventory Change Log.

VIII.

Carbon Pool	Source	Gross CO2e Tonnes per Acre	Total Gross CO2e Tonnes	SSR
Live Carbon Stocks	Sample Plots	245.28	1,334,345	IFM-1
Standing Dead Carbon Stocks	Sample Plots	3.42	18,625	IFM-3
Sum of CO2-equivalent Tonnes from Required Pools		248.70	1,352,970	
Carbon in in-use Forest Products	Harvest Records	N/A	0	IFM-7
Forest Product Carbon in Landfills	Harvest Records	N/A	0	IFM-8
Biological emissions/removals from change in harvesting on forestland outside Project Area	Harvest Records	N/A	-3,068	IFM-14

XI.

Quantification of Net GHG Reductions and GHG removal enhancements:

	Reporting Period	RP5	Notes
1	Actual Onsite Stocks	1,352,970	This is the total carbon in all reported pools within the Project Area, regardless of statistical confidence. ($AC_{\text{onsite}, y}$)
2	Confidence Deduction	0.0%	The confidence deduction is based on the sampling error of the combined estimate of carbon in all onsite carbon pools (see above). (CD_y)
3	Adjusted Actual Onsite Stocks (Adjusted for Confidence Deduction)	1,352,970	Actual onsite carbon stocks adjusted using the confidence deduction. $AC_{\text{onsite}, y} * (1 - CD_y)$
4	Annual Increment in Actual Onsite Carbon Stocks	31,613	Difference from prior year ($\Delta AC_{\text{onsite}}$). In year 1, prior year stocks are assumed to be zero, so difference is equal to initial adjusted onsite carbon stocks.
5	Baseline Onsite Carbon Stocks	1,183,218	Baseline estimates of onsite carbon stocks are not affected by the confidence deduction. ($BC_{\text{onsite}, y}$)
6	Annual Increment in Baseline Onsite Stocks	0	Difference from prior year ($\Delta BC_{\text{onsite}}$). In year 1, prior year stocks are assumed to be zero, so difference is equal to initial unadjusted) onsite carbon stocks.
7	Quantified GHG Reductions / Removals for Onsite Stocks	31,613	Row 4 minus row 6. ($\Delta AC_{\text{onsite}} - \Delta BC_{\text{onsite}}$)
Accounting for Carbon Stored in Wood Products			
8	Actual Wood Products In-use	0	Carbon stored long-term In-use, calculated from actual harvested carbon values. (Component of $AC_{\text{wp}, y}$)

	Reporting Period	RP5	Notes
9	Actual Wood Products Landfill	0	Carbon stored long-term in landfills, calculated from actual harvested carbon values. If actual harvest volumes for the year(s) are less than baseline harvest volumes, then this value is included in $AC_{wp, y}$.
10	Actual Wood Products PDM	0	Based on actual carbon in standing live carbon stocks harvested in each year(s), prior to delivery to mills (PDM). Used to calculate Secondary Effects.
11	Baseline Wood Products In-use	2,474	Carbon stored long-term In-use, calculated from averaged baseline carbon values. (Component of $BC_{wp, y}$).
12	Baseline Wood Products Landfill	1,598	Carbon stored long-term in landfills, calculated from averaged baseline carbon values. If actual harvest volumes for the year(s) are less than baseline harvest volumes, then this value is included in $BC_{wp, y}$.
13	Baseline Wood Products PDM	15,338	Based on carbon in standing live carbon stocks harvested each year(s) in the baseline analysis, prior to delivery to mills (PDM). Used to calculate Secondary Effects.
14	Difference in Actual and Baseline Carbon Stored in Wood Products	-4,072	Difference between actual and baseline carbon stored long-term in wood products in each year ($AC_{wp, y} - BC_{wp, y}$). May be negative.
15	Quantified GHG Reductions / Removals for Carbon Stored in Wood Products	-3,258	Equal to $(AC_{wp, y} - BC_{wp, y}) * 80\%$ (the Market Response Factor). May be negative.
Accounting for Secondary Effects			

	Reporting Period	RP5	Notes
16	PDM Difference	-15,338	The difference between the values in rows 10 and 13, above.
17	Secondary Effect Adjustment	-3,068	Either zero, if the value in row 15 is positive, or 20% of the value in row 16 if it is negative. (SE_y)
Calculation of Total Net GHG Reductions/Removals and Buffer Pool Contribution			
18	Negative Carryover from Prior Year	0	This is any negative amount from the prior year's total net GHG reductions/removals that is not due to a reversal. (N_{y-1})
19	Total Net GHG Reductions/Removals	25,287	Equal to the sum of the values in rows 7, 15, 17, and 18. (QR_y)
20	Total ROCs Issued	25,287	Total number of ROCs that ARB will issue for quantified GHG reductions/removals. ARBOCs are not issued for partial tonnes.
21	Risk of Reversal	19.24%	Reversal Risk Rating from Table 6 above.
22	Required Buffer Pool Contribution	4,865	The number of ROCs that must be contributed to the Buffer Pool each year, based on the risk of reversal. Calculated by multiplying the Total ROCs Issued (row 20) by the risk of reversal (row 21). Any remainder must be rounded up to the next tonne.
23	ROCs Issued to the Project	20,422	Total ROCs issued to the Project in each year. Equal to row 20 minus row 22.