



American Carbon Registry Monitoring Report

Instructions: The American Carbon Registry (ACR) requires that a Project Monitoring Report be provided to the verification body at each Project verification. To facilitate this requirement, use of this monitoring report template is required. Please follow all instructions found within each section and provide all requested information. If a field is not applicable, mark it as "N/A". Please save this Monitoring Report as a PDF prior to uploading to your Project page within the ACR registry system.

Section I: Report Completed By			
1	Name	Cakey Worthington	
2	Title	Director of Implementation	
3	Organization	Bluesource LLC	
4	Phone	(317) 491-0524	
5	Email	cworthington@bluesource.com	
Sec	tion II: Offset Project Information		
1	Project name	Bluesource – Massachusetts Tri-City Improved Forest Management Project	
2	ACR Project ID#	376	
3	ACR account holder	Blue Source, LLC	
4	Reporting period (MM/DD/YYYY–MM/DD/YYYY)	03/17/2017 - 09/15/2018	
5	Project start date (MM/DD/YYYY)	03/17/2017	
6	Current project crediting period (MM/DD/YYYY– MM/DD/YYYY)	03/17/2017 - 03/16/2037	
7	ACR Standard Version at time of listing/initial submittal	ACR Standard Version 4.0	
8	Relevant ACR Sector Standard(s) and Version(s)	ACR Forest Carbon Project Standard v.2.1	
10	ACR-Approved Methodology Title and Version	Improved Forest Management Methodology for Quantifying GHG Removals and Emission Reductions through Increased Forest Carbon Sequestration on Non-Federal U.S. Forestlands v.1.2	
Sec	tion III: Project Details		
1	 Project Description Instructions: Provide a brief project description State the total GHG reductions or removals during the reporting period covered by this monitoring report Project Description: The Bluesource – Massachusetts Tri-City Improved Forest Management Project is located on 13,536 acres of oak-hickory hardwoods with some pine-hemlock and spruce-fir stands in 		





 shorter, even-aged rotations. By committing to maintain forest CO2 stocks above the regional baseline, the project will provide significant climate benefits through carbon sequestration. Total GHG reductions or removals during reporting period (without buffer deduction): 245,239 tCO2e. Program of Activities Project Implementation Instructions: For a PoA, describe any new project instances, fields, producers, or facilities added during the reporting period State whether the additional cohort(s) conform to the project boundaries and baseline criteria established in the initial GHG project plan Provide the start date and crediting period for the additional cohort(s) Define the roles and regonsibilities for all personnel involved in the inclusion of the new cohort(s) Describe procedures to avoid double counting as described in the ACR Standard Provide all necessry information as stipulated in the validated project plan to ensure that leakage, additional ity, baseline establishment, baseline emissions, and eligibility requirements are met by the additional cohort(s) Provide a map of each new instance, field, producer, or facility added during the reporting period N/A: No additional cohorts beyond those described in initial GHG plan have been added to the project. Project Deviations Instructions: ACR may permit project-specific deviations to an existing approved methodology suprocet to the quantification of GHG emissions reductions and removal elnnacement. For instance, where alternate monitoring or measurement regimes are proposed, ACR may permit these changes provided they are conservative. ACR will not permit, on a project specific basis, formages to requirements related to additional proved the deviation State the de		
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	• State whether the required regulatory compliance attestation has or will be provided to the Project's verification body.		
	Blue Source – Massachusetts Tri-City IFM project is not a required project by any law, regulation, or legally binding mandate. The project is in compliance with all local, state, and federal timber laws. An attestation has been provided to affirm these statements.		
Sec	tion IV: AFOLU Projects		
Section IV. AFOLO FIGJECTS 1 Reversals (Please note that reversals must be reported to ACR as soon as they are discover per the ACR Risk Mitigation Agreement)			R as soon as they are discovered
	Instructions:		
		been any intentional or unintentic	onal reversals during the reporting
	period	descuibe the universal is this section	
	• If a reversal has occurred,	describe the reversal in this section	50
	N/A: No reversals have occurred.		
2	Carbon Pools		
	Instructions:		
	-		icable carbon pool as specified (add
	rows for any additional rel	evant carbon pools)	
	Carbon Pool	Previous (total tCO ₂ e)	Current (total tCO ₂ e)
	Live Tree CO2		2,472,304
	Standing Dead		79,895
	Soil		n/a
	Harvested Wood Products		5
3	Inventory		
	Instructions:		
		is using the original inventory	usings the last usification if and is the
	 Describe any changes to the original inventory methodology since the last verification, if applicable For new inventory plots that were re-measured, list the updated confidence statistic and deduction 		
	• For new inventory plots the percentage, if applicable	at were re-measured, list the upd	
L			





• If new plots were added to inventory, please provide an updated map showing plot locations and describe how plot locations were determined.

No changes to the inventory methodology or plots were made.

Section V: Project Monitoring

1 Parameters Monitored/Modeled Instructions:

• Populate the following tables with all parameters monitored during the reporting period adding tables, as necessary (report all validated modeled parameters using the below tables as well)

Parameter	A1
Units	Acres
Description	Area of IFM Project
Methodology	Strata area figures adjusted based on stocking levels and species distribution
Section	projected in modeling and verified through inventory updates
Equation #(s)	
Source of Data	GIS shape file derived from GPS coordinates
Measurement	

Parameter	Т
Units	Year
Description	Number of years between monitoring time t and t1 (T = $t2 - t1$)
Methodology	
Equation #(s)	
Source of Data	Monitoring reports
Measurement	Subtraction

Parameter	Diameter at breast height of tree
Units	Inches (to 1/10 th an inch)
Description	Tree diameter measure 4.5 feet above ground
Methodology	Measured with Loggers Tape or calipers
Equation #(s)	
Source of Data	Field measurement
Measurement	

Parameter	Н
Units	Feet
Description	Height of tree
Methodology	Measured with clinometer or hypsometer
Equation #(s)	
Source of Data	Field measurement
Measurement	





Parameter	Decay Class
Units	
Description	Qualitative degree of decomposition
Methodology	Qualitative assessment of dead tree into 1 of 4 decay classes based on class
Section	descriptions
Equation #(s)	
Source of Data	Field measurement
Measurement	

Parameter	Tree Live/Dead Status
Units	
Description	Live or Dead
Methodology	Measured per the SIG_Tri-City_Forest_Inventory_Manual_v20170503
Equation #(s)	
Source of Data	Field measurement
Measurement	

Parameter	Defect
Units	%
Description	Qualitative percent of missing biomass
Methodology	Measured per the SIG_Tri-City_Forest_Inventory_Manual_v20170503
Equation #(s)	
Source of Data	Field measurement
Measurement	

Parameter	Species Composition
Units	%
Description	Spp composition as a percentage of basal area
Methodology	Derived from the basal area calculations in the inventory data.
Equation #(s)	
Source of Data	Calculation of project emissions.
Measurement	

Parameter	Harvest Wood Products
Units	Metrics tons CO ₂
Description	Carbon remaining in stored wood products 100 years after harvest for the project in year t.
Methodology Section	Wood volumes will be monitored by Wigmore Forest Resource Management.
Equation #(s)	
Source of Data	Field measurement
Measurement	





Parameter	Forest Carbon
Units	Metrics tons of CO ₂
Description	Carbon stores in above and below ground live trees at the beginning of the
Methodology	Consistent with SIG_Tri-City_Forest_Inventory_Manual_v20170503
Equation #(s)	
Source of Data	Calculation of project emissions.
Measurement	

2	Monitoring Plan
	 Instructions: Provide the personnel names and roles/responsibilities for each party involved in monitoring the offset project
	 Provide a description of the GHG management system employed including: The location and recordkeeping/retention requirements for all stored data Methods used to generate data Transfer points and methods of non-automated transfer of data If applicable, describe any calibration procedures and the frequency with which calibration and other maintenance requirements are performed Describe the internal audit and other quality assurance/quality control procedures Sampling methods utilized and performed during the reporting period
	See section D2. Monitoring Plan of the GHG Plan for a detailed outline of the reporting requirements.
Sec	tion VI: GHG Emission Reductions and Removals
1	 Baseline Emissions Instructions: Provide a summary calculation of baseline emissions; attach as an appendix, a spreadsheet documenting baseline emissions quantification Estimated total stock in live trees, dead trees, and wood products in September 2018, grown from the inventory data, is 2,069,532 t CO2e (=Live Tree CO2 baseline + standing dead CO2 baseline + HWP baseline). See "MassCities_RP1_MonitoringCalcs.xlsx" documentation of baseline emissions quantification.
2	 Project Emissions Instructions: Provide a summary calculation of project emissions; attach as an appendix, a spreadsheet documenting project emissions quantification Live tree carbon stocks in the with-project scenario were projected four growing seasons from the March 2017- September 2018 inventory. The projection was developed by deriving individual live tree annual diameter growth rates from one 10-year cycle model run of FVS-NE with no management (reflecting the lack of timber harvest or other forest management activities occurring in the actual case during the monitoring period). The process is detailed below (and in "MassCities_RP1_MonitoringCalcs.xlsx") and matches the process used to degrow live tree stocks





IEKNA	TIONAL					5	
	from March 2017- Septe GHG Plan).	ember 2018	inventory to the N	/larch 17, 201	7 start date	(see Mass Cities	S
	Carbon stock estimates f were modeled via FVS-1			▲		01	eriod
	1. March 2017 – S years with no m	-)18 inventory data	a were entered	d into FVS-N	VE and grown for	or 5
		nd 2022 stor	nnual CO2 growt eks by 5, and then et the end of repor	two growing	seasons of g	e	
	Estimated total stock in inventory data, is 2,552					rown from the	
	No burning of any kind outcome of equation 13	-		-	-	als zero and the	•
	Timber harvests, which March 2017 – Septembe			rvested wood	l products, t	ook place durin	ng the
	Carbon in all pools/sour 15, 2018 monitoring per September 15, 2018 repr sources/sinks (harvested totals through the end of	iod are deta resent two so wood produ	iled in the table b easons of growth ucts and emission	elow. Note th from the Mar	at live tree s ch 2017 star	tocks projected t date. Values fo	to or
	Date	Live t CO2/acre	Standing dead t CO2/acre	Total Standing t CO2/acre	total HWP t CO2/acre	total GHG,P t CO2	
	March 17, 2017	179.7	4.9	184.6			
	September 15, 2018	182.6	5.9	186.6	0.00	186.6	
3		<i>menting leak</i> e is limited l <i>de minimis</i> e there is no	levels. All forest activity-shifting l	ntification e, as no activit lands owned eakage. As de	ty-shifting le by the cities etermined in	akage is allowe are included in the project GH	the
4	Buffer Pool Contributio	n (For AFOL	U and other sequ	estration pro	piects only)		





• Provide a summary calculation of the buffer pool calculation; attach as an appendix, a spreadsheet documenting buffer pool quantification

Buffer Pool contribution: GHG emissions without risk buffer deduction – GHG emissions with 16% buffer = 245,235 *.16 = 39,238

5 Net GHG Emission Reductions/Removals

Instructions:

• State the net GHG emission reductions; provide a summary calculation showing the net GHG emission reduction/removal calculation as required by the relevant methodology

Methodology calculations and estimates of net reductions and removals enhancements are detailed in the table below and in "MassCities_RP1_MonitoringCalcs.xlsx".

Period Start Date	3/17/2017	9/15/2017	9/15/2018
ACR Acct Yr	0	1	2
Project Yr	Start Date	2017	2018
BASELINE			
LIVE TREE	2,432,609	2,207,557	1,982,506
DEAD TREE	65,791	67,890	69,990
HWPs	17,036	17,036	17,036
CBSL	2,515,436	2,292,484	2,069,532
ΔC BSL, tree, t		(225,052)	(225,052)
ΔC BSL, dead, t		2,100	2,100
c BSL, HWP		17,036	17,036
C BSL, AVE		859,792	859,792
Year T	2,515,436	2,292,484	2,069,532
ΔC BSL, t		(205,916)	(205,916)
PROJECT			
LIVE TREE	2,432,609	2,452,457	2,472,304
DEAD TREE	65,791	72,843	79,895
HWPs	2.5	2.5	1,286.7
C Proj	2,498,402	2,525,302	2,553,485
ΔC Proj, tree, t		19,847	19,847
ΔC Proj, dead, t		7,052	7,052
ΔC Proj, t		26,902	28,186
Total Uncertainty		12.4%	12.5%
C ACR (gross),t		232,818	234,102
C ACR (deduct),t		130,049	130,873
Net ERTs Issued, t w/o buffer		122,344	122,892
Net ERTs Issued, t		102,769	103,229
Total Tradeable Balance		102,769	205,997





 Verification Instructions: State whether the project is undergoing a full site visit verification or a desk r State the date of the last full site visit verification Provide the name of the verification body for this reporting period State the number of consecutive years the verification body has verified the p Verification Type: Desk Review Verification Start Date: October 30, 2018 						
Buffer Deduction 19,575.0 See attached appendix for further details: "MassCities_RP1_MonitoringCalcs. Note: the total tradeable balance shows the amount net of 16% buffer, howeve amount will be supplied from a separate account, the full tradeable balance at the credit volume being requested to be issued. Section VII: Verification 1 Verification Instructions: • State whether the project is undergoing a full site visit verification or a desk r • State the date of the last full site visit verification • Provide the name of the verification body for this reporting period • State the number of consecutive years the verification body has verified the p Verification Type: Desk Review Verification Start Date: October 30, 2018 • State		Leakage Deduction		93,127.2	93,640.9	
 See attached appendix for further details: "MassCities_RP1_MonitoringCalcs. Note: the total tradeable balance shows the amount net of 16% buffer, howeve amount will be supplied from a separate account, the full tradeable balance at the credit volume being requested to be issued. Section VII: Verification Verification Instructions: State whether the project is undergoing a full site visit verification or a desk r State the date of the last full site visit verification Provide the name of the verification body for this reporting period State the number of consecutive years the verification body has verified the p Verification Type: Desk Review Verification Start Date: October 30, 2018 		Uncertainty Deduction		17,347.2	17,569.9	
 Note: the total tradeable balance shows the amount net of 16% buffer, howeve amount will be supplied from a separate account, the full tradeable balance at the credit volume being requested to be issued. Section VII: Verification Verification Instructions: State whether the project is undergoing a full site visit verification or a desk restart the date of the last full site visit verification Provide the name of the verification body for this reporting period State the number of consecutive years the verification body has verified the perification Type: Desk Review 		Buffer Deduction		19,575.0	19,663.0	
 amount will be supplied from a separate account, the full tradeable balance at the credit volume being requested to be issued. Section VII: Verification Verification		See attached appendix for further detai	ils: "MassCities_RF	P1_MonitoringCal	cs.xlsx".	
 Verification Instructions: State whether the project is undergoing a full site visit verification or a desk r State the date of the last full site visit verification Provide the name of the verification body for this reporting period State the number of consecutive years the verification body has verified the p Verification Type: Desk Review Verification Start Date: October 30, 2018 		amount will be supplied from a separat	te account, the full			
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 State the date of the last full site visit verification Provide the name of the verification body for this reporting period State the number of consecutive years the verification body has verified the p Verification Type: Desk Review Verification Start Date: October 30, 2018 		Instructions:				
 Provide the name of the verification body for this reporting period State the number of consecutive years the verification body has verified the perification Type: Desk Review Verification Start Date: October 30, 2018 						
• State the number of consecutive years the verification body has verified the p Verification Type: Desk Review Verification Start Date: October 30, 2018						
Verification Type: Desk Review Verification Start Date: October 30, 2018						
Verification Start Date: October 30, 2018						
Verification Start Date: October 30, 2018		Verification Type: Desk Review				
		• •)18			
Name of Verification Body: SCS Global Services		Name of Verification Body: SCS Global Services				
No. of Consecutive Years Verifying Project: 1 year						