



Reforestation Des Moines, Iowa - 2019 Validation Report Year 6

Document Prepared by City Forest Credits

October 28, 2025

PROJECT OVERVIEW

<i>Project Name</i>	Reforestation Des Moines, Iowa - 2019
<i>Project Registry Number</i>	005
<i>Project Type</i>	Tree Planting
<i>City Forest Credits Protocol Version</i>	Version 6, dated August 11, 2018
<i>Project Start Date</i>	December 4, 2019
<i>Project Location</i>	Des Moines, Iowa
<i>Project Operator</i>	Trees Forever

SUMMARY

State what stage of crediting this Validation Report applies to (i.e. after planting, Year 4, 6, 14, or 26). Provide a few sentences about the overall project. Include the Planting Design and Quantification Method.

Trees Forever planted trees through the Growing Futures project throughout the City of Des Moines from April – December of 2019. Tree planting locations were a mix of street tree (right of way) and park plantings, with a major focus on street tree plantings. Tree planting totals for the 2019 season were: 731 trees, combination of overstory and understory. The method of planting is single-tree dispersed (spaced 10' or more apart, i.e. street trees or linear plantings).

This Validation Report is for the Year 4 crediting phase.

DATA COLLECTION AND CARBON QUANTIFICATION

Carbon Quantification (Section 10 and Appendix A)

Criteria

Project Operator must follow the data collection and quantification methods outlined in Appendix A of the Protocol.

Issue Validated

Project Operator used the single tree quantification method, per Protocol criteria in Appendix A. CFC used the sample calculator in the quantification workbook to determine that 142 trees needed to be sampled. CFC used a random number generator to select the 142 trees to be sampled from the tree planting data submitted with the initial crediting documents.

Project Operator collected data on the 142 tree random sample spanning the project area, as provided by City Forest Credits. The status of each tree was documented, along with a geotagged photo. After sampling was completed, the project has a current mortality status of 29 vacant/dead trees. There were no changes to the Project Area.

The Carbon Quantification Summary is as follows:

Total number of trees planted	731
Project area (acres), if applicable	N/A
Total number of trees per acre, if applicable	N/A
Credits attributed to the project (tCO ₂ e)	1,829
Credits after mortality deduction (20% or insert observed mortality, if greater)	1,463
Contribution to Registry Reversal Pool Account (5%) (tCO ₂ e)	73
Total credits to be issued to the Project Operator (tCO₂e)	1,391
Total credits requested to be issued in Year 6 (30% of above)	413

GHG Assertion: Project Operator asserts that the Project results in GHG emissions mitigation of 1,391 tons CO₂e over the 26-year Project Duration. Project Operator asserts that per Protocol guidelines, 30% of Project GHG emissions mitigation is issued at Year 6, or 413 tons CO₂e.

Co-Benefits Quantification (Section 12 and Appendix A)

Criteria

Project Operator must follow the co-benefit quantification methods for rainfall interception, air quality, and energy savings.

Issue Validated

Project Operator has followed the co-benefits quantification method using the templates provided by City Forest Credits. The following table documents the quantified ecosystem services in resource units and avoided costs per year when Project Trees reach 25 years old.

<i>Ecosystem Services</i>	<i>Resource Units</i>	<i>Value</i>
Rainfall Interception (m ³ /yr)	3,373.52	\$24,151.25
Air Quality (t/yr)	0.1079	\$500.07
Energy: Cooling – Electricity (kWh/yr)	107,685.08	\$8,173.30
Energy: Heating – Natural Gas (kBtu/yr)	1,576,606.29	\$15,347.84
Grand Total (\$/yr)		\$48,172.46

VERIFICATION REPORT

CFC reviewed the Verification Report dated October 22, 2025 by Brian Goodall to ensure it accurately reflects the documentation contained in the Year 6 Project Design Document Amendment and supporting documents.

VALIDATION CONCLUSION

I attest that all the information provided in this validation report is free of material misstatement, to the best of my knowledge. The project complies with the validation criteria outlined in the City Forest Credits Standard and Tree Planting Protocol Version 6.

Approved by City Forest Credits on October 28, 2025.