CITRUS ADVANCED TECHNOLOGY PROGRAM

QUARTERLY & FINAL PROGRESS REPORT FORM: Control of Citrus Greening, Canker & Emerging Diseases of Citrus

▶**PROJECT QUARTER END** August 2022 ◉ *Quarterly Report* ○ *Final*

Proposal Title

Management of tree health and huanglongbing disease pressure using advanced Zn formulations

Today's Date: 09/15/2022

Sponsoring Organization (drop-down): Citrus Research and Development Foundation

Category (drop down): Plant Improvement

ABSTRACT (Executive Summary-public report-do not disclose proprietary information or intellectual property)

1. Please state project objectives and what work was done this quarter to address them:

The main objective is to achieve better fruit retention by applying different formulations of advanced Zn-based products that will result in better yields.

Two nutritional Zn product formulations, technical-grade FertiZink and NuZinc, were produced by our industry collaborator and delivered to support the proposed field trial on grapefruit and orange. Commercial trial sites have been identified and mapped by the research team in three different FL locations with the help of CRDF staff. Foliar application at two rates (400ppm and 800 ppm) has begun as proposed. Routine quality control and characterization of materials as represented in tank-mix conditions has also begun in lab settings.

2. Please state what work is anticipated for next quarter:

In coming months, we anticipate to:
(i) assess HLB and canker severity, determine canker lesion incidence of fruit, quantify fruit drop on a weekly basis.
(ii) determine grapefruit yield, quality, and shelf-life at the end of growing season.
(iii) continue to perform quality control and characterization of materials as represented in tank-mix conditions

3. Please state budget status (underspend or overspend, and why):

Underspend as the UF-subcontracting process just completed.

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Organization: University of Central Florida

Sponsor Project Number: 22-002

Project Duration (years): 1 *Year of Project* 1

% Completion of Objectives (FDACS requirement): 10.00%

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.