William Ruth Algae Control Trial

November 22, 2025, Eloy Arizona

Trial Summary

Daybreak Orchards, Eloy, Arizona was culturing some biological inoculants to apply on their pecan orchard. The biologicals were being cultured in two 800 gallon tubs and then added to the irrigation water. The tubs were overcome with an undesirable blue green algae and filamentous algae. Mr. Ruth. Owner of Vita Products had developed two algaecides that I wanted to experiment with to determine if they were effective to eliminate the algae.

The first product was called algae #1 and was 99% natural.
The second product they called algae #2 and was 50% natural.

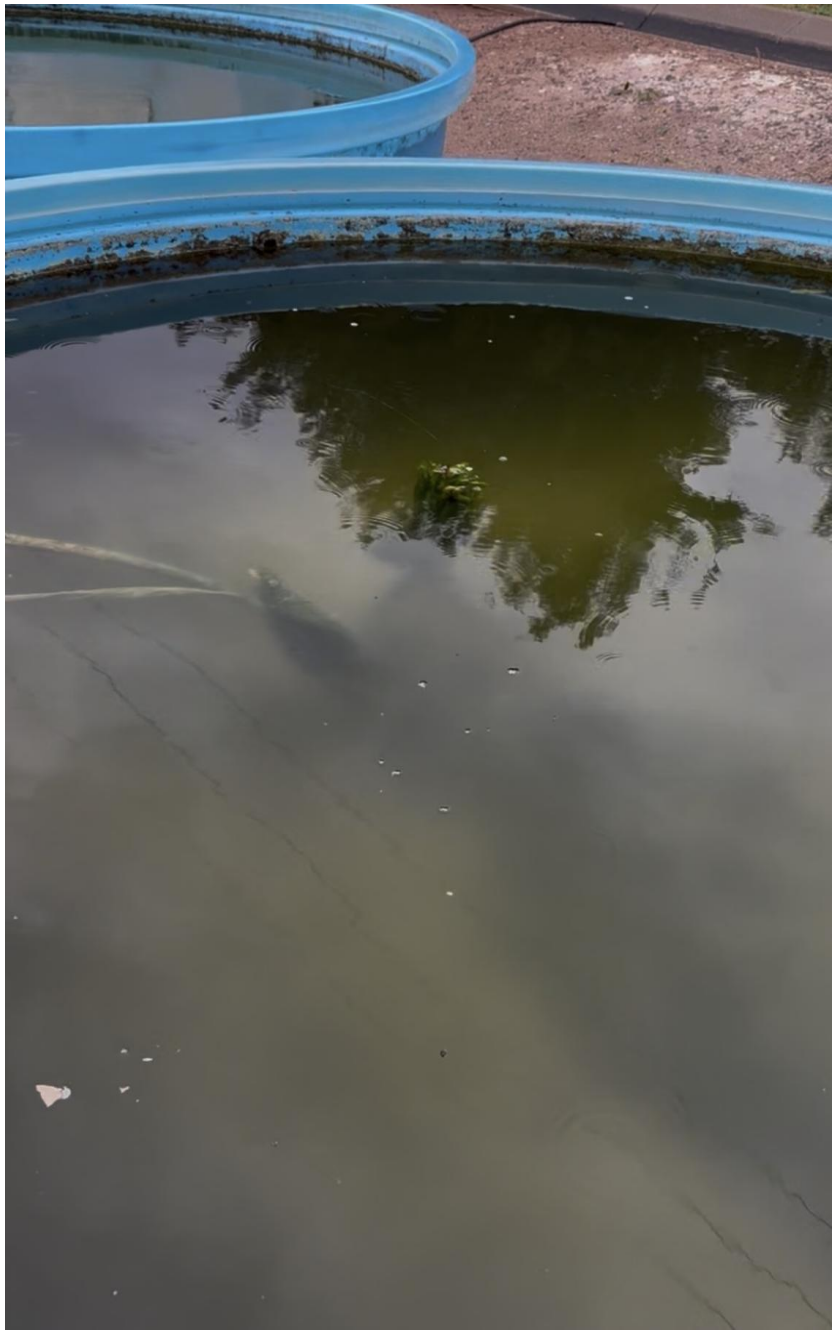
My time in Arizona was limited for a follow up so I applied a pint to each 800 gallon tub for a quicker kill. The algae #1 product resulted in a tan color when applied. The algae #2 product had a blue tint in the water. I agitated both tubs with air to ensure a complete mix and dispersal of the products. The water temperature at the time was 59.4 degrees Fahrenheit.

I returned 2 days later to observe and document the potential control. Both products had a complete kiil of both the blue green algae and the filamentous algae. Product #2 had a light film on the water surface. I removed some of the filamentous algae and to my surprise, there was no foul odor to it. The farmer returned to the site 2 days later and the filamentous algae that I removed still had no foul odor to it.

Conclusion: both algaecides worked for total control of the blue green algae and the filamentous algae as Mr. Ruth predicted.

November, 22 2025

These are the 800 gallon algae tubs that were overrun with the undesirable algae and filamentous algae in Eloy Az.



Nov 22, 2025

The water temperature in the tubs was 59.4 f at 9am.



Nov 22, 2025

The air temperature was 56.5 f at 9 am



Nov 22, 2025

Treatment #1

! Pint was added to this tub and agitated with the aeration system.

! Pint was more than need to control the algae but I only had 2 days to monitor the trial so I applied more than needed to speed up the control process.



Nov 22, 2025

Treatment #2

1 pint added to tub #2, agitated with the aeration system.

! Pint was more than needed to control the algae but I only had to 2 days to monitor the trial so I applied it heavier than needded to speed the process up.



Nov 22, 2025

What the tub looked like after treatmenrt #1



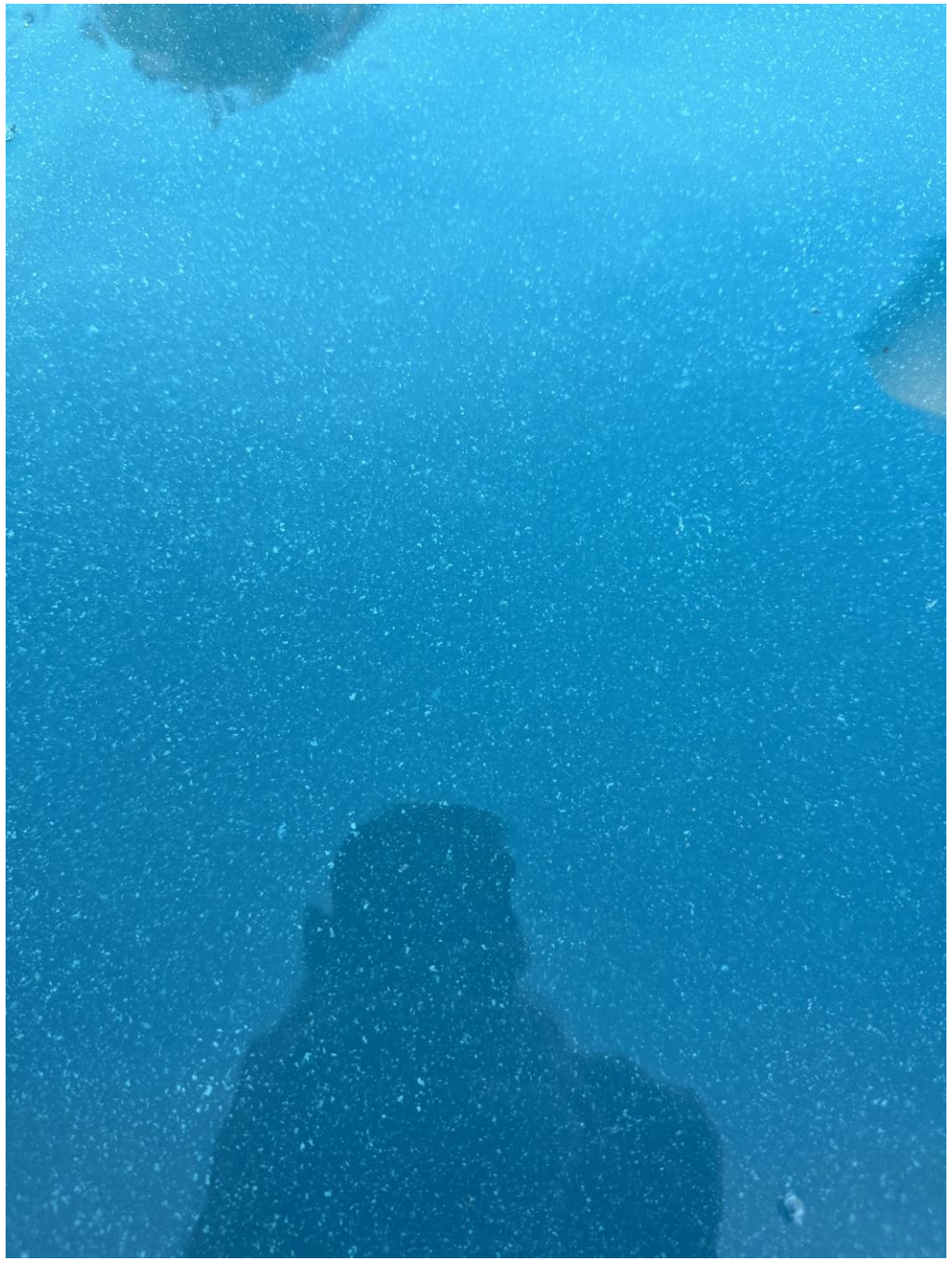
Nov 22, 2025

What tub #2 looked like after the intial treatment and agitation.



Nov 25, 2025, 7:30 am

Visual on tub #2, all algae was dead and a light oily film was on the surface.



Nov 24 2025

The filamentous algae in the tub was also dead.



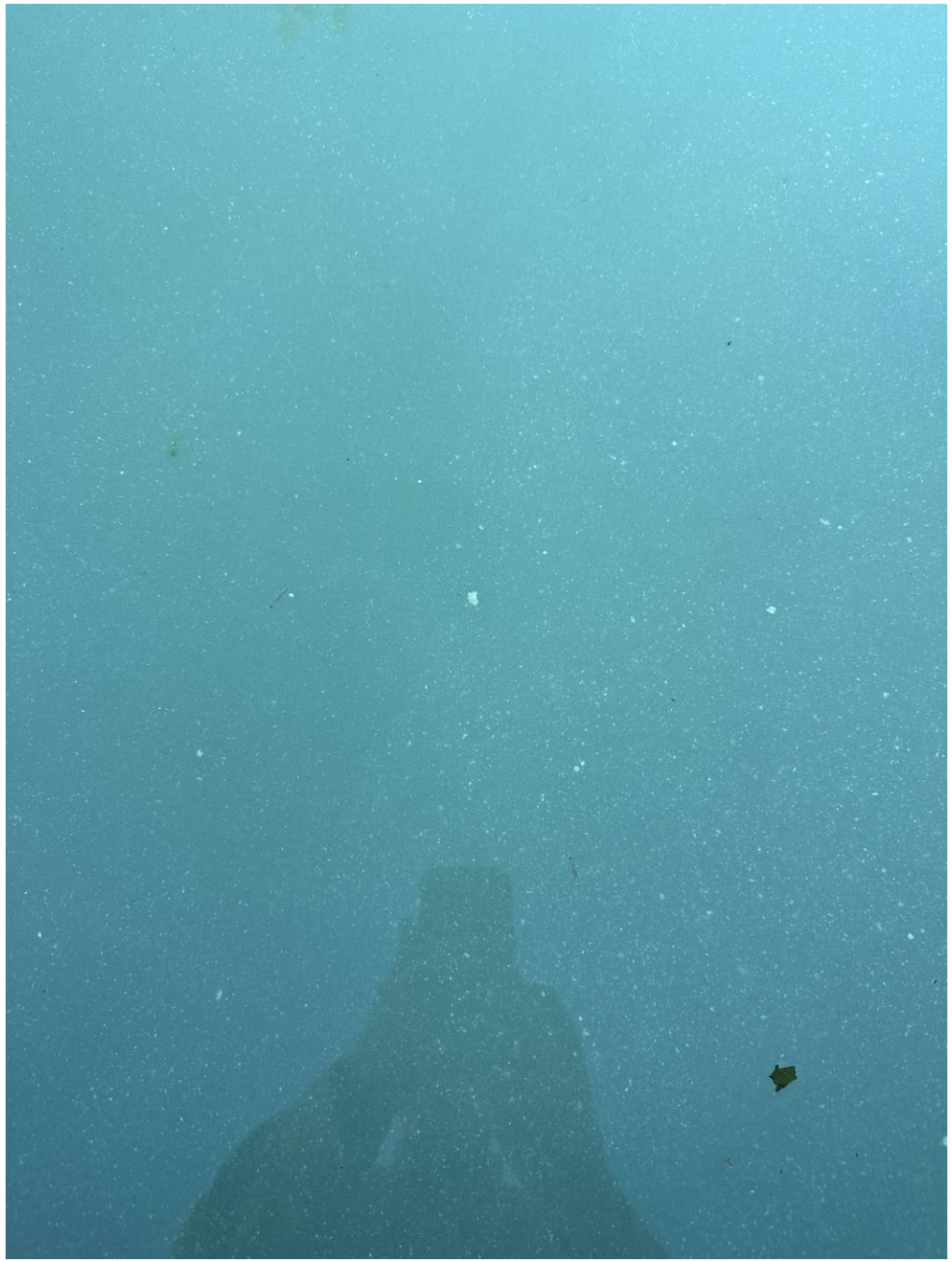
Nov 24, 2024

More evidence that the filamentous algae was dead. I removed a large quantity of the dead filamentous algae and piled it on the ground. The farmer reported that after several days there was no rofor to this pile.



Nov 24, 2025

The algae in tub 1, (treatment #1), was dead and this was the visual. There was no visible film on the surface of the water.



Nov 24, 2025

The fliamnetous alage in treatment #1 was also dead

The farmer and an independent consultant continued to observe these 2 tubs for 2 months after the treatments and no new algae growth was observed.

