



Innovative PoolMoss® Improves Holiday World's Water Quality While Reducing Maintenance Costs and Attraction Downtime

Introduction

Holiday World & Splashin' Safari are a privately held theme park and water park located in Santa Claus, Indiana. Splashin' Safari has 18 water rides, including several slides, wave pools, and a lazy river. The park is consistently ranked as one of the top water parks in the country, having been included in the Guinness Book of World Records and voted the best water park in the county in a 2018 USA Today poll.

Challenge

The Splashin' Safari team spent significant time and effort focused on maintaining water quality at the various attractions throughout the park. Unfortunately, chemical water treatment programs fell short in several key areas.

- ❑ Scaling affects the attraction's appearance, making the pool look dirtier. The scale is also difficult to remove and allows more places for algae, bacteria, and microorganisms to gain a foothold and start growing.
- ❑ Clogging of sprayers on attractions
- ❑ Increased water treatment chemical costs
- ❑ Excessive water use due to backwashing multiple times per week
- ❑ Significant downtime required to address water quality issues

Goals

Creative Water Solutions worked with the Splashin' Safari team to develop a water treatment program that addressed the park's existing water quality issues using the company's innovative PoolMoss technology.

The expected outcome of adding PoolMoss to these systems was:

- ❑ Reduce the amount of downtime on specific attractions
- ❑ Reduce the amount of cost and chemicals used
- ❑ Reduce the amount of scale so sprayers could function better
- ❑ Reduce the amount of cost and water used for backwashing filters

Approach

The team focused on implementing PoolMoss technology in 7 attractions. Each body of water was dosed based on size and average bather load. Specific-sized cages were placed in surge tanks, each filled with the proper dose of PoolMoss 3 to treat the bodies of water.

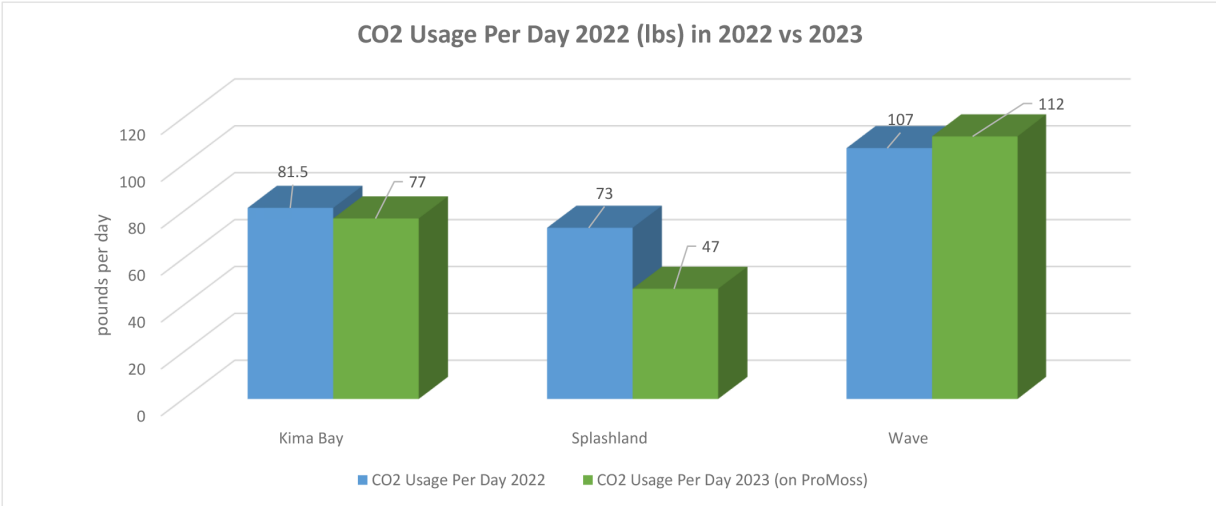
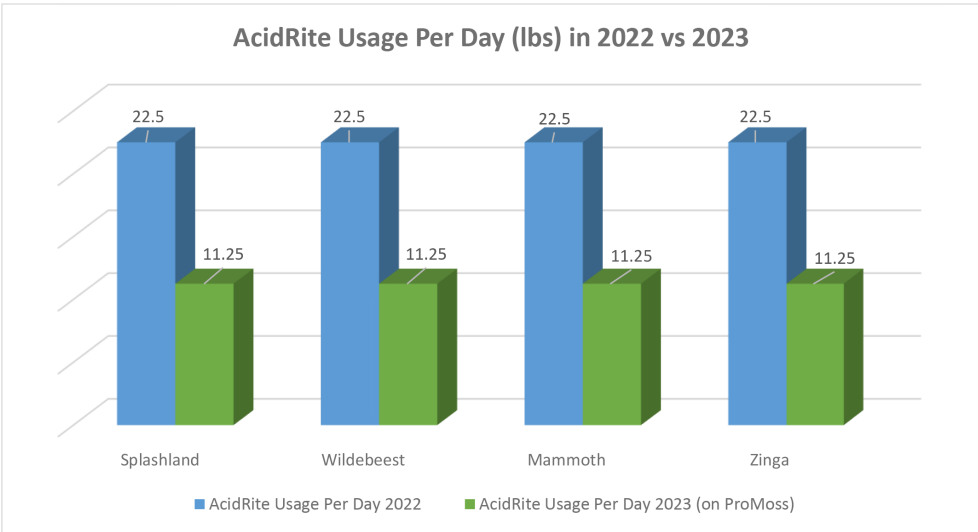


Results

The attractions that were treated with PoolMoss experienced a significant improvement in water quality. The attractions experienced reduced scaling, required less chemical treatment, and lower backwash cycles. As a result, these attractions experienced more uptime at a lower total maintenance cost. Incorporating PoolMoss also reduced employee and swimmer exposure to chemicals and chlorine disinfection byproducts.

pH Maintenance Using Fewer Chemicals

The use of PoolMoss allowed pH to stay in balance using 50% less chemicals (AcidRite) and CO2

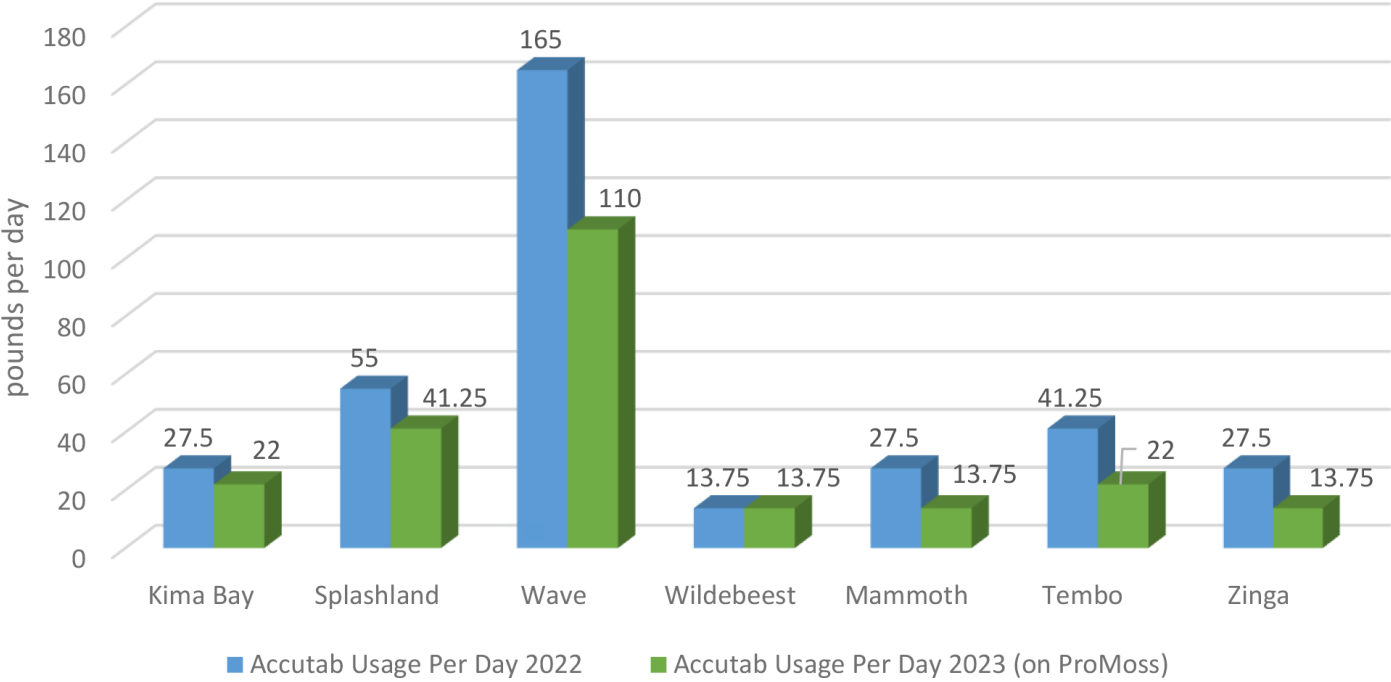


*Because The Wave had less downtime than the previous year, it used more CO2.

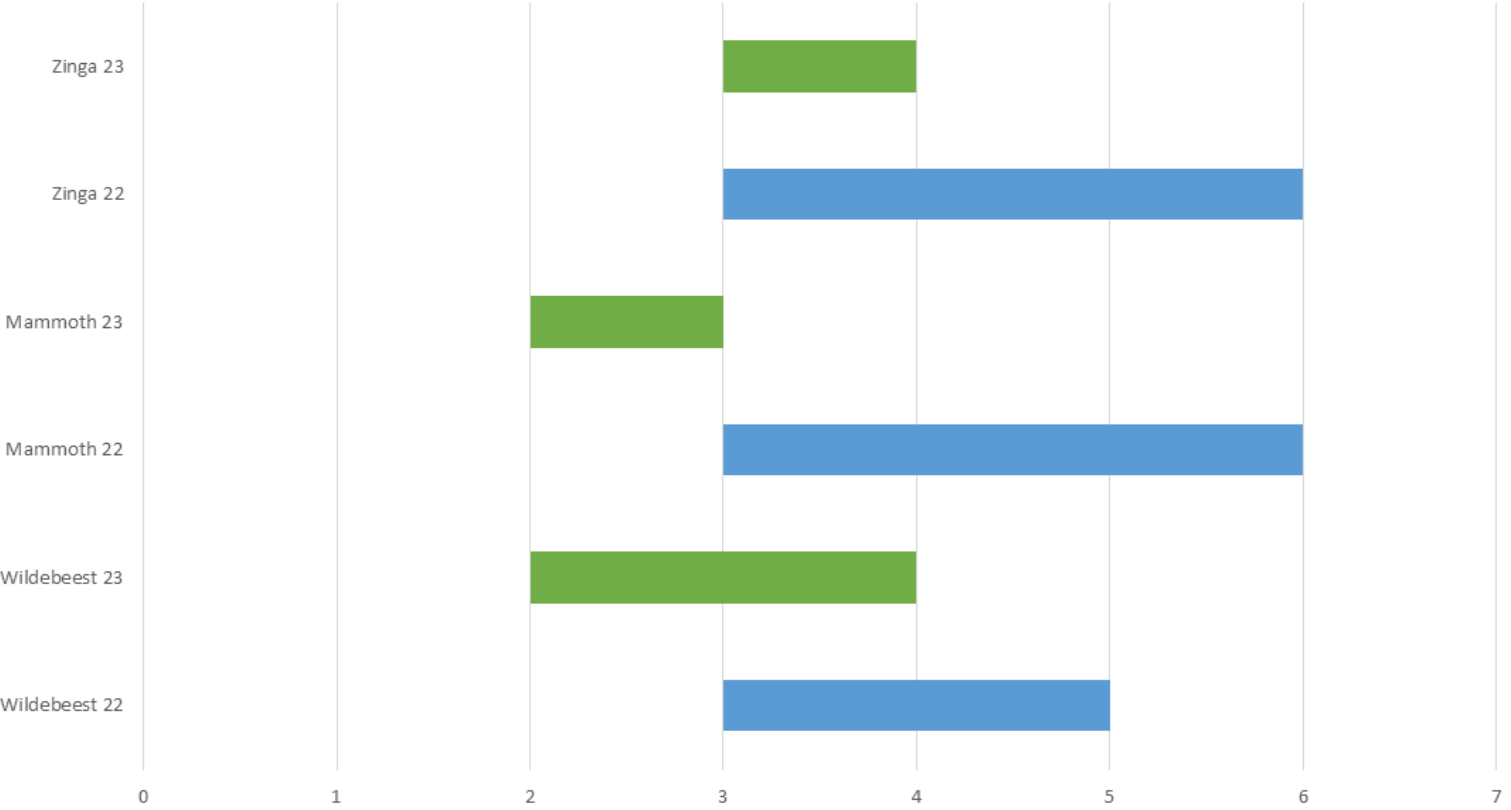
Less Chlorine Required To Maintain Water Quality

Introducing PoolMoss reduced the amount of chlorine required to maintain water quality.

Accutab Usage Per Day (lbs) in 2022 vs 2023

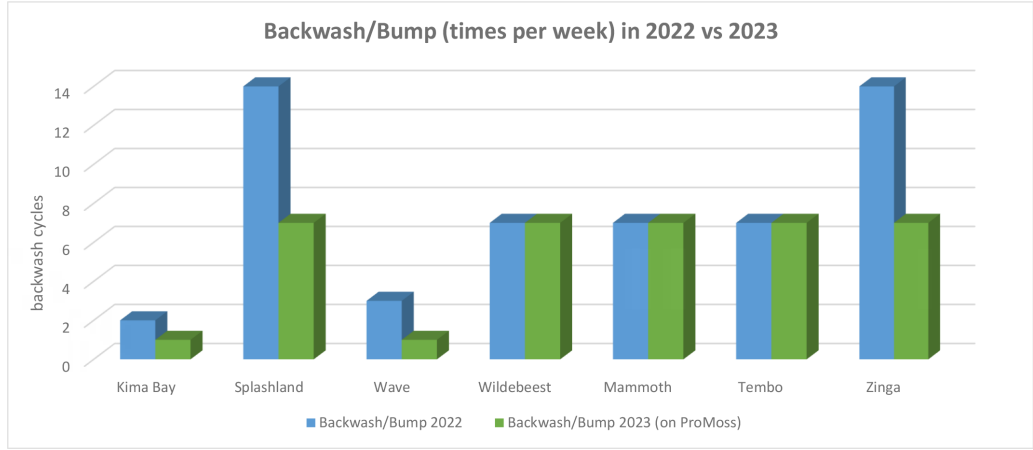


Chlorine Range (ppm) 2022 vs. 2023 (on PoolMoss)



Reduced Number of Backwashes Resulted in Less Water Usage and Increased Attraction Uptime

The use of PoolMoss reduced the amount of backwashes by up to 50% on certain attractions. This reduced the amount of water used and increased the up time of the attractions.



Water to backwash was reduced by an average of 50%.

Improved Appearance

The use of PoolMoss resulted in less scale on rides.



Scale on Tembo Slide BEFORE using PoolMoss™



Reduction of scale on Tembo Slide AFTER using PoolMoss

Conclusion

Creative Water Solutions worked with the Holiday World/Splashin Safari team to improve the park's water quality, lower chemical treatment costs, improve uptimes, and improve the customer experience at key attractions. Creative Water Solutions's innovative PoolMoss technology delivered measurable performance advantages and a more eco-friendly, sustainable customer experience. The company is committed to adopting solutions that help reduce its environmental footprint while maintaining a fun and safe experience for its guests.

PoolMoss® is a registered trademark of Creative Water Solutions LLC

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