



Company Backgrounder

BlueTerra - Where Communities and Nature Thrive Together

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History

BlueTerra LLC was founded by Heather Herold (CEO) and Jeff Huenink (CFO) after collectively spending 16 years in the environmental restoration and resiliency market. They shared a vision of combining innovative technologies with nature-based solutions to design and build projects that promote cross-habitat synergies, delivering ecosystem benefits that single solutions alone cannot achieve. This integrated approach ensures that the projects BlueTerra implements are sustainable, resilient, and provide lasting benefits to both natural ecosystems and human communities.

BlueTerra is a Christ-centered company, grounded in values of integrity, honesty, and love. Our mission goes beyond restoring and protecting God's creation; we aim to build lasting win/win relationships with our team members, clients, industry stakeholders, strategic partners, and vendors. They have become part of our extended family.

While the company does bid on public projects, it also offers a comprehensive design/build approach. This includes assessing needs, engineering solutions, conducting surveys, securing permits, sourcing project funding, constructing the project, and monitoring its success.

Our Mission

BlueTerra LLC is a private, Florida-headquartered company that is driven by a powerful mission: to restore and protect our planet's natural ecosystems while bolstering the resilience of our coastlines and communities. Our world is evolving, and whether driven by human activity or the earth's natural cycles, the impacts are clear—rising sea levels and warming oceans are intensifying storms, hurricanes, and severe weather events. These extreme conditions generate greater wave energy,

accelerating beach erosion, flooding coastal areas, and destroying vital habitats that support critical plant and wildlife ecosystems. The devastation ripples outward, damaging billions of dollars in infrastructure, as we have witnessed in the aftermath of recent storms.

BlueTerra is committed to making a lasting impact on the health and resilience of our planet's ecosystems. By integrating a holistic approach with innovative technologies and nature-based solutions, we are able to address the complex challenges posed by climate-related events. Our dedication to restoring and protecting natural habitats ensures that communities and nature can thrive together, now and in the future.

Challenges Addressed

The challenges we face today are multifaceted and require a comprehensive approach. BlueTerra combines multiple solutions together to achieve cross-habitat synergies.

Rising Sea Levels and Flood Risk

As the oceans continue to encroach upon land, the natural buffer zones that protect inland areas are eroded, leaving communities vulnerable to flooding and storm surges.

Warming Oceans

Warming oceans contribute to the intensification of storms and hurricanes, creating more frequent and severe weather events. These extreme conditions generate greater wave energy, which accelerates beach erosion and destroys vital coastal habitats.

Erosion and Habitat Destruction

As wave energy increases, the natural defenses of our shorelines are worn away, eroding beaches that are critical buffers between communities and the ocean. This process not only affects the aesthetic value of our coastlines but also has dire consequences for the habitats that depend on these areas leading to a loss of biodiversity.

Infrastructure Damage

The destruction of natural habitats and increased erosion also impacts human infrastructure. Coastal areas are home to billions of dollars worth of infrastructure, including homes, businesses, and public facilities. The damage results in substantial economic losses and poses a significant threat to the livelihoods of coastal communities.

BlueTerra's Holistic Approach

As a comprehensive environmental restoration and mitigation firm, BlueTerra stands apart by offering a holistic approach. While many companies focus on isolated solutions, whether it is engineering, surveying, permitting, marine construction, or monitoring, BlueTerra integrates all of these elements into one cohesive service. We do not just create projects; we fund, build, and oversee their success from start to finish.

Integration of Green and Grey Solutions

By blending green (nature-based) and grey solutions, we design and construct projects that foster cross-habitat synergies, yielding ecosystem benefits that cannot be achieved through a single solution alone. Our integrated approach ensures that the projects we implement are sustainable and resilient, providing long-term benefits to both natural ecosystems and human communities.

Comprehensive Services

BlueTerra offers a wide range of services designed to address the diverse challenges faced by coastal and marine environments. Our solutions include:

- **Project Engineering**

We provide expert engineering services to design effective and sustainable restoration projects or can work with an entity's engineer. (optional)

- **Surveying**

Our comprehensive survey services ensure accurate assessments of project sites. (optional)

- **Permitting**

We can manage the complex permitting process, engaging agencies, applying for state and federal permits, and responding to requests for additional information. (optional)

- **Funding**

One of the most difficult components in a project is securing funding. To bring projects to fruition, BlueTerra can secure funding through legislative appropriations, grants, and NGO partnerships.

- **Hurricane Restoration and Mitigation**

BlueTerra provides essential services to help communities recover from hurricane damage and prepare for future storms. We are on mission to rebuild and fortify communities and their ecosystems, ensuring they are more resilient and better equipped to face future challenges. These services include damage assessments, debris removal, temporary emergency repairs, flood mitigation and prevention, coastal and shoreline protection, environmental restoration and habitat protection, and monitoring and data collection.

- **Wave Attenuation Devices® (WAD®s)**

These patented devices attenuate over 90% of wave energy and renourish shorelines naturally, eliminating the need for expensive beach renourishment projects. They also attract oysters that filter millions of gallons of water daily, improving water quality, as well as attract and create Essential Fish Habitat.

- **Springs, Canal, Lake, River, and Stream Restorations**

We provide essential services for maintaining the health of freshwater ecosystems, improving water quality, and supporting biodiversity. Restoration efforts are typically focused on improving habitat quality, water flow, and reducing pollution. Services include nutrient management, erosion control, wetland restoration, riparian buffer restoration, instream habitat improvements, streambank stabilizations, hydrological restorations, sediment management, vegetation and tree trimming and planting, fish and wildlife habitation restorations, invasive species management, and flood management and control.

- **Submerged Aquatic Vegetation Restorations**

We restore vital underwater plant communities that improve water quality and support biodiversity. Enhancing native vegetation also helps to control invasive vegetation species.

- **Living Shorelines**

Our living shoreline projects stabilize coastlines while enhancing their beauty using natural materials and vegetation.

- **Shoreline Stabilizations**

BlueTerra can implement an array of solutions including geotextiles, rip rap, armor stone, breakwaters, groins, gabions, dunes, vegetation, hybrid reefs, and gabions to prevent erosion and protect coastal areas.

- **Environmental Dredging**

Dredging services remove harmful sediments to help restore aquatic habitats, or are used to improve navigation.

- **Oyster and Hybrid Reefs**

We create oyster and hybrid reefs to improve water quality, enhance biodiversity, and protect shorelines.

- **Salt Marsh Restorations**

Restoring salt marshes is crucial not only for preserving biodiversity and protecting coastal communities from erosion and flooding, but also for combating climate change and improving water quality.

- **Wetland Restorations**

We restore wetlands to improve water quality and support diverse wildlife.

- **Mitigation Banking Services**

Our mitigation banking services provide credits for environmental restoration efforts.

- **Buoy and Waterway Marker Installations**

Essential tools for maritime safety and navigation, their presence helps ensure that waterways are navigable, safe, and environmentally protected.

- **Dune Restorations**

Restoring dunes is an essential strategy for protecting coastal areas from erosion and storm damage. It requires a multi-faceted approach combining techniques such as vegetation planting, sand nourishment, and erosion control structures, along with long-term monitoring and maintenance.

- **Hydroseeding**

Hydroseeding is often used for large-scale landscaping projects, erosion control, or grass establishment in areas where traditional seeding methods might not be effective or practical.

- **Endangered Species Monitoring**

Monitoring endangered species during aquatic restoration projects is vital for protecting vulnerable populations, ensuring the success of restoration efforts, preventing unintended harm, and ensuring compliance with local, state, and federal regulations.