

## 2015 LOCEA Award Announcement

The American Society of Civil Engineers, Seattle Section, is pleased to announce the winners of the Local Outstanding Civil Engineering Achievement (LOCEA) Awards. The annual LOCEA awards recognize outstanding projects in the categories of Geotechnical, Structural, Ports and Waterways, Water Resources, Transportation and Development, and Small Project and Non-Construction Studies. Eligible projects are those that: have been accomplished by a civil engineer who is a member of the Seattle Section; is located within the Seattle Section (includes the counties of King, Snohomish, Kitsap, Whatcom, Skagit, San Juan, Island, Clallam, and Jefferson); was substantially completed in calendar year 2014; and is predominantly civil engineering related work.

The 2015 outstanding Structural project is the King County's **South Park Bridge Replacement Project** designed by the HNTB Corporation. The completion of the new South Park Bridge in 2014 marked the end of four years of hardship to the South Park community and reconnected communities and businesses across the Duwamish once again. The new drawbridge is designed to withstand large magnitude earthquakes with minimal damage, improve the surrounding environment, and provide a reliable and safe crossing of the river for pedestrians, cyclists, motorists and freight carriers alike. Notably, the bridge and adjacent park restores pride to the neighborhood, acknowledges the industrial history of the area with salvaged features of the old bridge built into the new bridge, and encourages new development in this up-and-coming community. This beautiful landmark bridge proves to be to a structure to which other moveable bridges will be measured.

The 2015 outstanding Ports and Waterways project is the **Seahurst Park Phase II Ecosystem Restoration Project**. Anchor QEA, LLC partnered with the City of Burien and the U.S. Army Corps of Engineers, Seattle District. The 154-acre Seahurst Park in Burien is a local and regional waterfront destination. The park includes more than 4,000 linear feet of Puget Sound shoreline backdropped with steep, forested bluffs. In the early 1970s, most of the park's shoreline was armored with seawalls, gabions, and riprap to accommodate park development. The armoring became a safety hazard, interrupted natural beach nourishment processes, and degraded marine nearshore and freshwater habitat. The park was transferred from King County to the City of Burien in 1996, and in 2001, the City began developing a Master Plan for the park that would call for protection of the park's natural areas, restoration of marine nearshore and freshwater habitat, and improved shoreline access. The Master Plan was completed in 2002, and the City entered into a partnership with the U.S. Army Corps of Engineers to restore the park's shoreline and recreational facilities. The multi-phase implementation was completed in 2014 with restoration of the north shoreline. The final phase of the project included bulkhead removal, restoration of 2,800 linear feet of beach and riparian habitat, creek daylighting, culvert installation, wetland restoration, replacement of fish ladder facilities used for educational fish rearing, replacement of the parking area with pervious paving and bioretention facilities, replacement of picnic and play area facilities, improvements to trails and walkways, and extensive utility relocations. The City of Burien was successful in obtaining multiple grants that were used to supplement funding from the U.S. Army Corps of Engineers to implement the project. In 2010, the south shoreline of Seahurst Park won a "Best Restored Beach" award from

the American Shore and Beach Preservation Association. Anchor QEA, LLC, led the master planning, design, and permitting, and provided support for grant funding and construction.

The 2015 outstanding Water Resources project is the City of Tacoma's **Green River Filtration Facility**. The project team included MWH Americas as the Design Engineer, Hoffman Construction Company as the General Contractor/Construction Manager, with Agency involvement by the Washington State Department of Health. The Green River Filtration Facility added a physical barrier between the Green River and the tap for Tacoma Water's over 300,000 direct customers in Pierce and south King Counties. The previous unfiltered system, originally built in 1913, sent as a daily average approximately 1,000 pounds of fine sediment into drinking water pipes. Now coagulants are added to the raw water, which causes silt suspended in the water to clump into larger particles that settle out in the new plant. Remaining particles are screened out through filters containing 50 inches of anthracite coal and 20 inches of engineered sand. The cleaner water will meet new public health regulations, plus improve water quality and reliability. The removed solids are dewatered on site and pushed through 20-foot long, 6-foot tall screw presses that further separate the dirt from the water. The process should produce one or two large truckloads of residuals per week on average.

The 2015 outstanding Transportation and Development project is the City of Bellingham's **25th Street Bike and Pedestrian Improvements Project**. The project team was led by Tuttle Engineering and Management and included Osborn Consulting, Inc., GeoEngineers, Inc., Mariano & Associates Design, Northwest Environmental Consulting, and Rubenkönig Planning and Landscape Architecture. This project evaluated the many specialized and inter-connected issues identified along 25th Street and Douglas Avenue in south Bellingham. Improvements to the roadway corridor improved pedestrian and bicycle access and safety, separated vehicular from ADA accessible pedestrian routes of travel, increased overall corridor capacity and circulation, improved and enhanced existing stormwater collection and quality controls - resulting in a positive impact to both the built and natural environments.

The 2015 outstanding Small project is the Northshore Summit Park Design and Construction in the City of Kenmore. The project team, led by Osborn Consulting Inc. included The Watershed Company and Northwest Environmental Consulting. Innovative engineering transformed 3.6 acres of underutilized, waterlogged open space into a quality multiuse park featuring picnic areas, playgrounds, trails, wetland, and forest. Ensnored in a residential neighborhood, finding engineered solutions that carefully balanced environmental and neighbor concerns, community wish lists, and site constraints was essential. Significant drainage and grading improvements were required to manage perched groundwater and protect existing onsite stormwater facilities. The park opened in May 2014 as Kenmore's eighth city park.

The awards will be presented at the Section meeting on June 10<sup>th</sup>, each of the winning teams will make a short presentation of their project. For more information on the Section meeting browse [www.seattleace.org](http://www.seattleace.org).