



# SPEC Environmental Impact Projects

## WHAT IS SPEC DOING?

In over 37 years of business, SPEC Services has performed about 200 projects annually, resulting in over 7,400 projects to date. What work processes and projects does SPEC do that positively impact the environment? Below are a few examples.

## WORK PROCESSES

### Bluebeam Revu

- Bluebeam is a document management program used for document review.
- Using Bluebeam, documents are marked up electronically as opposed to printing paper.
- The QC process can be viewed by anybody, simplifying communication across teams.
- Discussions take place prior to final QC markup, and the entire process saves cumbersome markups on paper as well as pencil, pen, highlighter, etc.



### Vehicle Emissions Reduction

- SPEC provides eight company vehicles for employee use to encourage carpooling to job sites, client offices, etc.
- SPEC has employed a 9/80 Work Week since 2006. By reducing the number of regular work days from 10 to 9 for every two week period, employee commuting requirements have been reduced by 10% with resultant energy conservation and reduction of vehicle emissions.



## EXAMPLE PROJECTS

### Los Cerritos Wetlands – Oil Consolidation & Restoration

- Restoration of 76 acres of wetlands currently used for oil operations with outdated technology.
- The project seeks to restore and protect this area by planting native wetlands plants and removing all non-native species.
- Oil operations will be moved to modern oil production facilities resulting in more oil production with greater efficiency.



### iC4 Sphere

- Per EPA hydrochlorofluorocarbons (HCFC) regulations (Section 601-607 of the Clean Air Act), Freon R22

(currently used for refrigerated storage of isobutane (iC4)) must be phased out of production on January 1, 2020.

- SPEC is designing a pressurized storage system in which an ambient temperature sphere will replace the refrigeration system and refrigerated storage.



- iC4 is used in the production of alkylate, which is a high-octane gasoline blending component.

- This project simplifies operations and reduces power consumption, equipment maintenance, and potential iC4 loss to the flare.

### Premium Slurry Sales

- Ships operating in and near the Ports of Long Beach and Los Angeles are required to use low sulfur fuel in 2020. This lowers the sulfur oxides (SO<sub>x</sub>) in the atmosphere which contribute to environmental health issues along with haze.
- SPEC is designing modifications to storage and handling systems in order to facilitate the supply and sale of low sulfur Bunker Fuel to power ships.
- This project allows treatment of high sulfur Bunker Fuel purchased from the market and makes more low sulfur Bunker Fuel available for commercial use.



### Biogas Connection to SoCal Gas

- Biogas generated from cow manure at 10 different dairy farms in the Pixley, CA area will be collected, treated, and delivered as renewable natural gas to a nearby SoCalGas distribution pipeline.
- Biogas, primarily CH<sub>4</sub> (methane), has 21 times the "global warming potential" of CO<sub>2</sub>.
- SPEC provided detailed engineering, design, procurement, and construction support for the interconnecting metering facility.
- Currently under construction and expected to be operable November 2018.

THE SMALL THINGS WE DO DAILY  
 WILL MAKE A DIFFERENCE

If you have ideas about green initiatives for SPEC Services to consider, please submit your ideas to the Green Team!  
 Submit your ideas to the SPEC Suggestion Box.