

Pollution Prevention & Best Management Practices



Pollution Prevention Pays!





P2 & BMPs

This presentation will focus on these areas:

- Pollution Prevention also known as P2
- Best Management Practices or BMPs
- Green Business Program
- Pollution Prevention Awards



Pollution Prevention Act of 1990

- Establishes the Pollution Prevention Hierarchy:
 - **Source Reduction** – waste (hazardous substance, pollutant, or contaminants) should be prevented at the source (i.e. prior to recycling, treatment, or disposal)
 - **Recycling** – waste generated should be reused either in the process that created it or in another process
 - **Treatment** – waste that cannot be recycled should be treated to reduce its hazard
 - **Disposal** – waste that is not treated should be disposed of in an environmentally safe manner



Pollution Prevention at Work and at Home

- P2 information for Businesses
 - <https://www centralsan.org/businesses-pollution-prevention-programs>

- P2 information for Residents
 - <https://www centralsan.org/residents-pollution-prevention>



P2 Case Studies

- The EPA encourages businesses to generate less waste and has a collection of case studies that illustrate how business in various sectors have made changes to prevent pollution that have resulted in real savings.
- Find examples of what others in your industry are doing by clicking here: <https://www.epa.gov/p2/pollution-prevention-case-studies>
- We recommend reviewing: Case Studies on Safer Alternatives for Solvent Degreasing Applications <https://www.epa.gov/p2/case-studies-safer-alternatives-solvent-degreasing-applications>



Best Management Practices

- The most efficient (least amount of effort) and effective (best results) way of accomplishing a task, based on repeatable procedures that have proven themselves over time for large numbers of people. ~from Wikipedia.com
- Proactive, practical techniques that help industries reduce pollution at the source.



Best Management Practices

- Links to industry specific BMP Fact Sheets can be found at [https://www.centralsan.org/post/best-management-practices](https://www centralsan.org/post/best-management-practices)
- Find your industry's Fact Sheet. Can you find some new ideas to implement at your business?
- Pollution Prevention Pays!



Contra Costa County Green Business Program

- A partnership of environmental agencies and utilities
- The Green Business Program promotes businesses that operate in an environmentally responsible way
- Businesses participate on a volunteer basis
- For more information, and how to participate go to:
[https://www.centralsan.org/post/shop-green-businesses](https://www centralsan.org/post/shop-green-businesses)



CCCSD

Pollution Prevention Awards

- The P2 Award program promotes business that:
 - Commit to pollution prevention
 - Reduce pollutants discharged to the sewer and/or storm drain
 - Educate employees and the public
- Awards are presented by the CCCSD Board of Directors
- Businesses receive recognition on the Central San Website and in Central San's Lateral Connection
- Annual award program
 - View 2023 Businesses who were recognized here [https://www.centralsan.org/post/pollution-prevention-awards-0](https://www centralsan.org/post/pollution-prevention-awards-0)

P2 Award Winners

- Below are the 2023 Annual Pollution Prevention Winners!

2023 POLLUTION PREVENTION AWARD WINNERS

Congratulations to our Pollution Prevention Award Winners and Recycled Water Champions. Central San is proud to recognize these businesses, organizations, and individuals who are helping keep our community healthy, beautiful, clean, and resilient.

POLLUTION PREVENTION PARTNER



MT. DIABLO UNIFIED STEM ENRICHMENT AND SUPPORT TEACHERS

The Science, Technology, Engineering and Math (STEM) enrichment and support teachers at Mt. Diablo Unified School District have partnered with Central San over the past several years to bring hands-on wastewater education to thousands of students. Through our collaboration with the STEM teachers, this past year we were able to support 23 elementary schools, reaching 80% of the school district's 4th and 5th graders. Our focus was "Water Goes Down the Kitchen Sink" - helping students connect their behavior to impacts on the environment.



RECYCLED WATER BUSINESS CHAMPION



CONTRA COSTA COUNTRY CLUB Pleasant Hill

This is Central San's second time recognizing Contra Costa Country Club as a Recycled Water Business Champion. This 148-hole green oasis in Pleasant Hill uses recycled water for irrigation. First honored in 2018, they have remained a reliable and cooperative recycled water partner, further adjusting their recycled water usage to accommodate Central San during periods of plant maintenance. We appreciate their partnership and commitment to conserving the region's water supplies.

RECYCLED WATER CITIZEN CHAMPION

From July 2022 to June 2023, Glen Tullis visited Central San's recycled water T1 station 354 times. In total, he collected 86,890 gallons of recycled water for irrigating his garden, helping save precious drinking water supplies. Glen proves one person can make a huge impact on water savings. Thank you, Glen, for being a frequent and dedicated recycled water customer!

POLLUTION PREVENTION AWARD WINNERS



Carus Concord

Carus is committed not only to safeguarding the world's blood supply but also to reducing their environmental impact. They eliminate all blood products prior to all sampling in the sewer, and installed a second caducate to disinfect tools such as gloves and other personal protective equipment, allowing them to divert off-hauling these materials as hazardous wastes. Carus is also conscientious about how they store their chemicals, ensuring that they do not enter the water environment.



CRITICA FAMILY DENTISTRY Citrus

Critica Family Dentistry uses the latest technology to minimize patient care and protect the environment. They use resin and a 3D printer to create impressions of partial dentures, eliminating the need for a wet model trimmer which traditionally discharges each water filled with acids to the sewer. They also use enzymatic cleaners instead of high-strength sanitation chemicals, all-steel all-aluminum waste, and employ all-digital photography in place of chemical film developers.



SAN RAMON VALLEY UNIFIED SCHOOL DISTRICT ORGANIZATION Vallejo

San Ramon Valley Unified School District has a long history of complying with all environmental discharge requirements. Not only so they have an emergency disposition when it comes to completing required reports and working with Central San inspectors, they also actively seek advice on how to prevent pollutants from entering the sewer and storm drain systems. They apply best management practices, such as sealing all floor drains in the maintenance shop and providing quality training for their staff. To further their commitment, they have a consultant specifically in work on continuing compliance.



SIDE GATE BREWERY & BEER GARDEN Concord

At Side Gate Brewery & Beer Garden, sustainable practices improve their bottom line while helping the local environment and community. On brew days, they use boiling beer using a pitched heat exchanger filled with tap water to absorb heat. The heated water can then be used for other purposes, saving water and natural gas for heating while requiring no discharges to the sanitary sewer. Side Gate also partners with local farmers who use their spent grain as nutritious feed for their livestock. The brewery saves on disposal costs, and the farmers save money and resources - all for everyone and the environment!



Pollution Prevention & BMPs

- Do you have a unique pollution prevention technique that you would like to share with us?
- We would enjoy hearing about what you do to prevent pollution.
- Email us at chenry@centralsan.org

THANK YOU!