

DOORS

- Metal door cores, 70%, Argi-core wheat straw, Rapidly Renewable Material (RRM)
- Wood doors FSC 62% particle board cores, Post Industrial Recycled (PIR).
- Glass door & large sidelight for each office, which creates a more pleasant environment and saving lighting energy.

CONSTRUCTION WASTE MANAGEMENT

- Seventy six percent (76%) of materials were separated from disposable materials and reused material either onsite or locally.

MISCELLANEOUS INFORMATION

What/Who is LEED? The **Leadership in Energy and Environmental Design (LEED)** is an internationally recognized green building certification system, providing third-party verification that a building or community was designed and built using strategies intended to improve performance in metrics such as energy savings, water efficiency, CO₂ emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts.

The Water Resources Center is a functional, educational and visual extension of the water recycling plant it supports. The building, its systems, and its landscape have been designed to serve as an interpretive center that puts regional water issues on display to the regional community, educating the public through exhibitions and guided tours and promoting regional and community connectivity while providing a space for community interaction.



City's Water Quality Laboratory



Exterior redwood siding was harvested from City-owned Grizzly Flats water shed located 8 miles from project site.



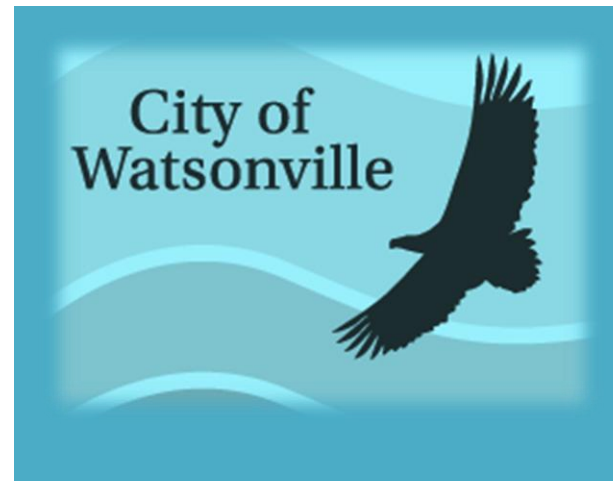
Operable windows, skylights

AWARDS/RECOGNITIONS

- 2010 American Institute of Architecture featured top 10 in the nation Community on the Environment (COTE) Award
- 2010 San Francisco Energy award + Sustainability Honor Award
- 2010 California Green Building Wood Design Award
- Profiled in the Winter 2010 issue of the U.S. Business Review
- Featured in World Architecture News
- Featured in International Academy of Design and Technology
- 2011 Building Design and Construction Team Gold Award

Water Resource Center
500 Clearwater Lane
Watsonville, CA

www.watsonvilleutilities.org
publicworks@ci.watsonville.ca.us



WATER RESOURCES CENTER



LEED PLATINUM BUILDING



ENERGY

Energy efficiency: California has the highest energy efficiency standard in the country. The Watsonville Water Resource Center's energy efficiency is 76% better than the California standard!

HEATING/COOLING

- ☀ Radiant floor heating
- ☀ Radiant floor cooling using recycled water, cooling water returned to WWTP and recycled.
- ☀ Operable windows and roof top vents help to naturally ventilate the building.
- ☀ Active and passive HVAC systems allow laboratory staff to regulate their environment while performing a wide variety of lab analysis.

ELECTRICITY

- ☀ 420 Suntech roof mounted solar panels generate 4.86 Mega Watt hours per year which supplies 80% of the Center's electrical needs. The remaining 20% comes from participating in wind power renewable energy certificates.

LIGHTING

- ☀ Light levels are monitored within the individual work spaces. Light fixtures automatically adjust based on user preference and light coming in through windows and skylights.
- ☀ Motions sensors, lumen sensors and timers are used to control indoor lighting.
- ☀ Premium efficiency florescent light fixtures used.

APPLIANCES

- ☀ All of our major appliances are EnergyStar rated and most substantially exceed EnergyStar requirements.

WINDOWS/SKYLIGHTS

- ☀ Solarban coated low E Glass blocks 62% of heat gain, while allowing 70% of visible light through.
- ☀ Operable windows improve ventilation and reduced need for cooling.
- ☀ Large operable windows allow exterior air to flow into the space. Louvers in the sides of the skylight wells enable air to flow toward the center of the suites and exit through "chimneys".
- ☀ Window blinds are available to further control light levels.
- ☀ Aluminum frames 25% PCR content.
- ☀ Saflex interlayer resistant to breakage for rocking motions of earthquakes 30% PCR content
- ☀ Skylights bring further light into interior spaces that would otherwise be dark & require electric lighting.

CEILING FANS

- ☀ Adjustable speed fans improve space cooling by air movement.

POTABLE WATER USE

- ☀ Low-flow plumbing fixtures used throughout.
- ☀ Recycled water used for toilet flushing.
- ☀ Potable water use 50% lower than conventional buildings and exceeds ASHRAE 90.1 by 76%.

GROUND COVER, SHRUBS & TREES

- ☀ Native California drought tolerant plants and trees.

- ☀ Trees provide shade to reduce heat island affect and provide shade to the building to reduce indoor cooling needs.
- ☀ Bioswales and infiltration swales used in conjunction with storm water retention basis used to eliminate any offsite storm water runoff.

IRRIGATION

- ☀ All plantings have low water needs. Reclaimed water from the waste treatment facility will provide any required site landscape irrigation water during plant establishment.



BUILDING

- ☀ Exterior redwood used for the building's exterior rain-screen was harvested from City-owned Grizzly Flats water shed located 8 miles from project site.
- ☀ Rain screen membrane.
- ☀ Wall structure use wood studs at 24" oc (reduces wall structure by 30%).
- ☀ Overall the buildings use 50% less building materials than conventional structures.
- ☀ Oriented on an east-west axis to maximize day lighting and take advantage of prevailing cool ocean winds.
- ☀ Deep overhanging eaves reduce solar heat gain.

PARKING LOT

- ☀ All rainwater runoff is collected on site and percolated into the ground.
- ☀ Light colored parking stalls (StreetPrint) used to reduce heat island effect.
- ☀ Pervious paving used strategically.
- ☀ Preferred parking for environmentally friendly vehicles.

NANO WALLS



Walls open in the lunch and conference rooms to bring the outdoors into these interior spaces.

POLISHED CONCRETE FLOORING

- ☀ Fly ash added – stronger, uses less water, uses less cement, easier to pour, harder denser finish than typical concrete.
- ☀ Surfaces do not support bacterial growth.
- ☀ Will not wear out like other types of flooring, saves future replacement costs.
- ☀ Easy maintenance.

CONCRETE COUNTER TOPS

- ☀ Will not wear out, never needs to be replaced.
- ☀ Does not support bacteria growth.
- ☀ Contains 20% recycled material and fly ash.

CABINETRY/FURNITURE

- ☀ All cabinetry and furniture are Green Guard Certified (*environmentally friendly and able to be recycled.*)