Guaranteed Water for Industry Program
Application Form

Businesses can apply to have a site certified as exempt from the water allocation(s) under SDMC Section 673806(c). SDMC Section 67.3804(f) and Section 67.3804(g) list specific requirements for eligibility.

1. Property Information

Company Name _____ Email _____

Street Number Street Name Suffix (Unit, Suite No.) City State Zip Code

Account Number(s) that serve property: ☐☐☐☐☐☐☐☐☐☐☐☐ ☐☐☐☐☐☐☐☐☐☐☐☐

Existing Recycled Water Account(s): ☐☐☐☐☐☐☐☐☐☐☐☐ ☐☐☐☐☐☐☐☐☐☐☐☐

2. To be eligible for the Certification, the following conditions must be met:

Option A:

If business location (manufacturing plant or R&D laboratory) is located anywhere within the City of San Diego, (except within that portion of Otay Mesa served by the Otay Water District), it can obtain the exemption if:

(1) The customer has satisfactorily implemented the Best Management Practices identified by the City Manager. The applicable Best Management Practices for potable process water conservation are specific to broad industry clusters as listed in the attached document.

(2) The customer is in compliance with the California Plumbing Code, title 24, part 5 of the California Code of Regulations, including using all applicable water-conserving fixtures and fittings on the premises to the fullest extent possible.

Option B:

If business location (manufacturing plant or R&D laboratory) is located within the Optimized Zone ("Northern Services Area") see link here: https://www.sandiego.gov/public-utilities/sustainability/recycled-water/switching it can obtain the exemption if:

(1) The customer uses reclaimed water on its premises to the fullest extent possible, including in landscape irrigation and evaporative cooling, if applicable.

(2) The customer is in compliance with the California Plumbing Code, title 24, part 5 of the California Code of Regulations, including using all applicable water-conserving fixtures and fittings on the premises to the fullest extent possible.

3. Certification

By signing below, I certify that the information provided above is true and correct to the best of my knowledge, and that the property listed above meets all the requirements to be eligible for the Guaranteed Water for Industry Program.

Responsible Party: _____ _____ _____ _____

Name and Title (print) Signature Telephone Date

Divian Rubi Contreras
Business Development Officer
Email: DRContreras@sandiego.gov (619)533-6199
1200 Third Avenue, Suite 1400, San Diego, CA 92101

This information is available in alternative formats upon request

Best Management Practices for Potable Process Water Conservation

Aerospace & Defense – As Applicable

Facilities

F-1 Collect reverse osmosis reject water ("RO Concentrate"), soften, and feed this internally reclaimed water to another process or to the central plant for use in cooling towers and chillers.

OR:

F-2 Collect air handler condensate and feed this clean water stream to cooling towers

OR:

F-3 Soften cooling tower feed water to increase cycles of concentration within the chiller/cooling tower loop

General Operations

G-1 Train all employees on water reduction and awareness efforts

G-2 Train all production employees to monitor and track the systems above

Biotechnology & Medical Devices – As Applicable

Facilities

F-1 Collect reverse osmosis reject water ("RO Concentrate"), soften, and feed this internally reclaimed water to another process or to the central plant for use in cooling towers and chillers.

OR:

F-2 Collect air handler condensate and feed this clean water stream to cooling towers

OR:

F-3 Soften cooling tower feed water to increase cycles of concentration within the chiller/cooling tower loop

OR:

F-4 Use process water to replace potable water for quenching pure steam generator blow-down water

<u>General Operations</u>

G-1 Train all employees on water reduction and awareness efforts

G-2 Train all production employees to monitor and track the systems above

Electronics & Telecommunications – As Applicable

Facilities

F-1 Collect reverse osmosis reject water ("RO Concentrate"), soften, and feed this internally reclaimed water to another process or to the central plant for use in cooling towers and chillers.

OR:

F-2 Collect air handler condensate and feed this clean water stream to cooling towers

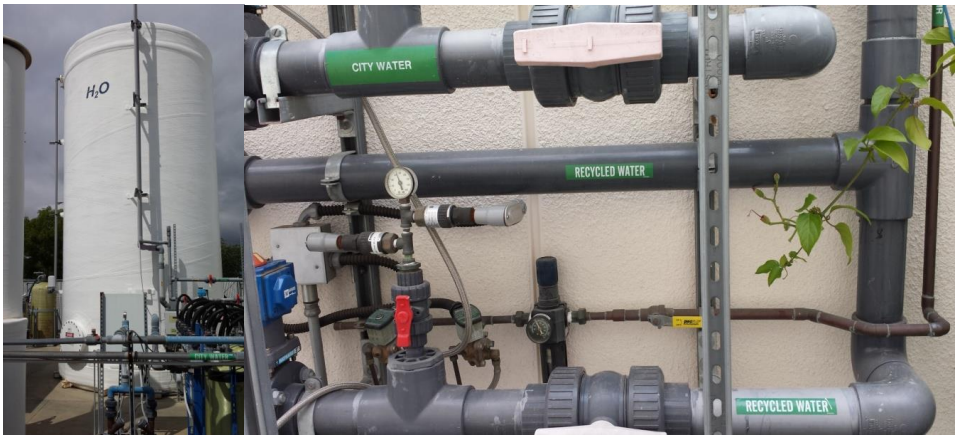
OR:

F-3 Soften cooling tower feed water to increase cycles of concentration within the chiller/cooling tower loop to at least eight (8) cycles (savings = 50%)


Product Rinsing

R-1 Collect all product rinse water that is suitable for re-use, treat as needed, and feed this internally reclaimed water to another process or to the central plant for use in cooling towers and chillers.





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Food & Beverage Manufacturing – As Applicable

Beer Brewing

B-1 Use flow meters for brewing processes such as lautering/sparging to eliminate unnecessary excess at completion of the process. (savings = 2 gallons/barrel or 6%)


B-2 Correctly size Cold Liquor Tank to fully recover cold water used to chill the wort at the end of the brewing process, so that this water can be used to make-up the subsequent brew. The system shall use automated controls and the heat exchanger shall be properly maintained to ensure maximized efficiency (savings = 7 gallons/barrel, or 23%)

B-3 Use a closed loop cooling system (such as a glycol reservoir with chiller system) in lieu of single pass or "once through" cooling systems to cool fermentation tanks.

(savings = 90%)

Beverage Packaging (canning, bottling, kegging)

P-1 Use a recirculation loop on bottle filler vacuum pump to recover water and re-use elsewhere in the system (savings = 3 to 8 GPM, or 4,320GPD – 11,520 GPD)

P-2 Use automated solenoid valves to control flow of bottle rinsers to shut them off when bottling line in not running

Cleaning

C-1 Use effective "built" cleaning products that are designed to remove solids/soil in fermentation or other beverage production tanks using the least amount of water

C-2 Use a hot water sanitation/recirculation tank/system.

C-3 Use a fully automated and optimized Clean-in-Place (CIP) reuse cleaning system with pH, temperature and level sensors (savings = 30%)

C-4 Properly size CIP tanks for efficient water reuse and recovery

C-5 Use a final rinse water recovery and reuse setup in the CIP system for pre-rinse

C-6 Set up CIP system to use multiple program modes for optimized water usage of each area (filter, cellar tanks, packaging equipment, etc.)

C-7 Optimize rinse water procedures for different sized kegs/containers

C-8 Recover final rinse water for pre-rinse of kegs/containers or use a high pressure detergent cleaning system for keg sanitation (savings = 50%)

C-9 Optimize detergent concentration and temperature to minimize rinse water usage.

C-10 Use dry cleaning processes (use of scrapper and brushes) whenever possible.

Facilities

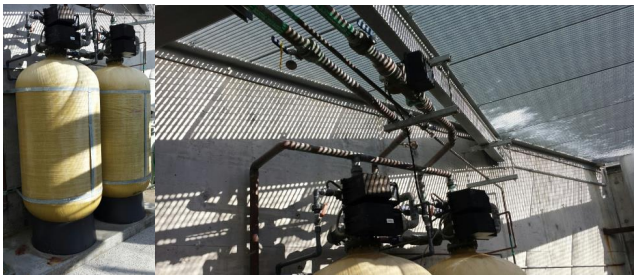
F-1 Collect reverse osmosis reject water ("RO Concentrate"), soften, and feed this internally reclaimed water to another process or to the central plant for use in cooling towers and chillers.

OR:

F-2 Collect air handler condensate and feed this clean water stream to cooling towers or other uses

OR:

F-3 Soften cooling tower feed water to increase cycles of concentration within the chiller/cooling tower loop to at least eight (8) cycles (savings = 50%).



General Operations

G-1 Train all employees on water reduction and awareness efforts

G-2 Train all production employees to monitor and track the systems above

Alternative Compliance and Unspecified Manufacturing

U-1 A manufacturer operating an industrial facility which does not include any of the equipment or processes depicted above may, as an alternative, employ permanent alternative water conservation measures which can be demonstrated to achieve a 20% water use reduction, averaged over a 2-month period, compared to a baseline measure.

U-2 A manufacturer operating an industrial facility which is not classified within any of the industry clusters listed above may, as an alternative, employ permanent alternative water conservation measures which can be demonstrated to achieve a 20% water use reduction, averaged over a 2-month period, compared to a baseline measure.