

WJ Smith Linen Service

Proudly Serving the North East of Victoria



A DIVISION OF
NORTHEAST
HEALTH
WANGARATTA

water



Linen Service Water reduction.

Presented by Clayton Henderson



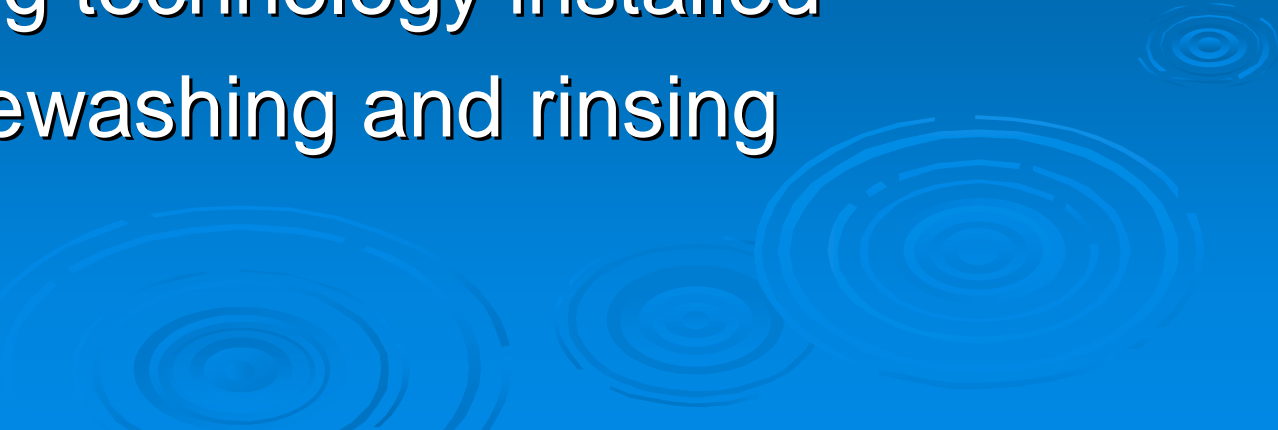
Every Drop of water counts.



**How many drops does
Laundry improvements count for?**




What has improved in the last year.

- Ø Review of the washing cycles
 - Ø Less chemicals used in process
 - Ø Low Alkaline chemicals used
 - Ø New ironing technology installed
 - Ø Lowered rewashing and rinsing
- 

Changes to Chemicals

- ∅ Chlorine Bleach to Hydrogen Peroxide
- ∅ Low Alkali wash chemical used
- ∅ Rinsing chemical increased

Residual Chemical the key

- ∅ Reduce the Chemical Use
 - ∅ Using PH stable chemicals
 - ∅ Less rinse water used
 - ∅ PH stabilized on waste water
 - ∅ Less returned linen for rinsing
 - ∅ More useful grey water?
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One bed sheet is 1KG of dry linen


The reductions in water use with healthcare wash

- ∅ Water use @ January 06 31ltrs/kg
- ∅ Change Bleaching agent - 27ltrs/kg
- ∅ Change to Low Alkali – 23ltrs/kg
- ∅ Change washing cycles – 20ltrs/kg


Annual Savings of 16 mega litres

With no capital cost & reduced operating expenses!

Outlook to future improvements

- ∅ Reviewing all wash cycles
 - ∅ Installing new Washing equipment
 - ∅ Installing storm water tanks
 - ∅ Water recycling plant
 - ∅ Grey water use by Council & NEW
 - ∅ Using solar water heating
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Implementing Water Infrastructure in laundries *The Problems!*

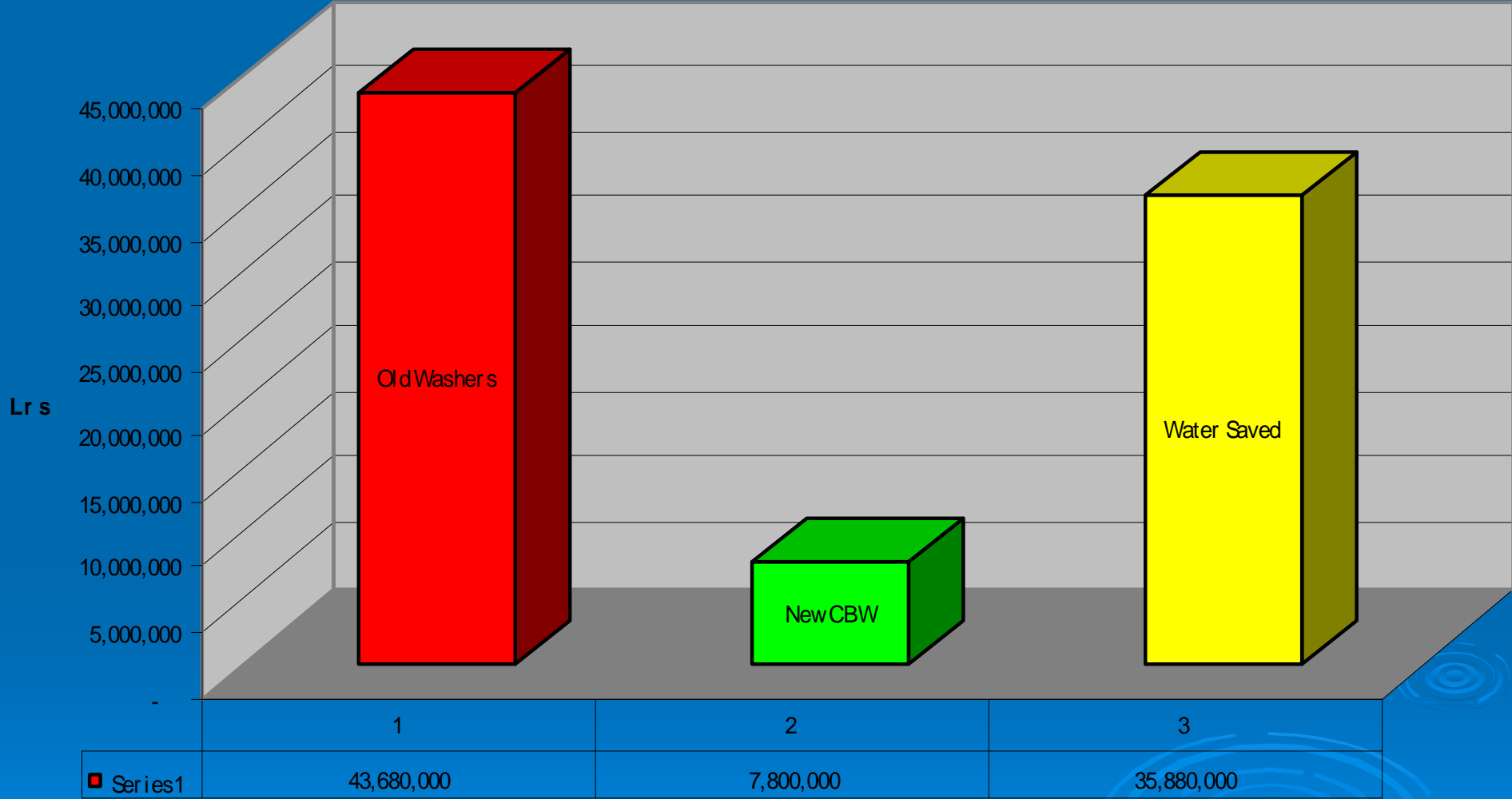
- ∅ Current water cost very low
 - ∅ Water projects need same capital return
 - ∅ Water is not the primary role to community
 - ∅ Laundry requires high capital investment
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- The bottom right corner of the slide features a decorative graphic of several concentric, light blue circles that resemble ripples on water, set against the dark blue background.

Selling Water change

- Ø Economical justified
- Ø Commercial sound
- Ø Fit into operating plans
- Ø Make people visualise savings



Water Savings With CBW



Between 30-35 Mega Litres of water saved a year

| Town | Ave. Annual Consumption ML/year | | | Percentage of the towns use a CBW can save |
|--------------|---------------------------------|--------|------|--|
| Bright | 550 | We Can | Save | 6% |
| Dartmouth | 50 | We Can | Save | 63% |
| Devenish | 20 | We Can | Save | 157% |
| Glenrowan | 90 | We Can | Save | 35% |
| Goorambat | 20 | We Can | Save | 157% |
| Harrietville | 60 | We Can | Save | 52% |
| Moyhu | 50 | We Can | Save | 63% |
| Mt. Beauty | 500 | We Can | Save | 6% |
| Myrtleford | 1200 | We Can | Save | 3% |
| Oxley | 60 | We Can | Save | 52% |
| Porepunkah | 100 | We Can | Save | 31% |
| Rutherglen | 1000 | We Can | Save | 3% |
| Springhurst | 30 | We Can | Save | 105% |
| St. James | 20 | We Can | Save | 157% |
| Tallangatta | 285 | We Can | Save | 11% |
| Tungamah | 90 | We Can | Save | 35% |
| Walwa | 25 | We Can | Save | 126% |
| Wangaratta | 5500 | We Can | Save | 0.6% |
| Whitfield | 20 | We Can | Save | 157% |
| Wodonga | 8000 | We Can | Save | 0.4% |
| Yackandandah | 125 | We Can | Save | 25% |
| Yarrawonga | 1800 | We Can | Save | 2% |

*Water Usage data taken from North East Water Web site

Facts from usage table

- ∅ If we installed the CBW the water saved would fully supply the township of Springhurst! (Stage 4)
- ∅ The water saved would supply 50% of Oxley or Harrietteville's needs!
- ∅ The water saved would run a number of our smaller towns for 1.5 Years i.e. Whitfield!

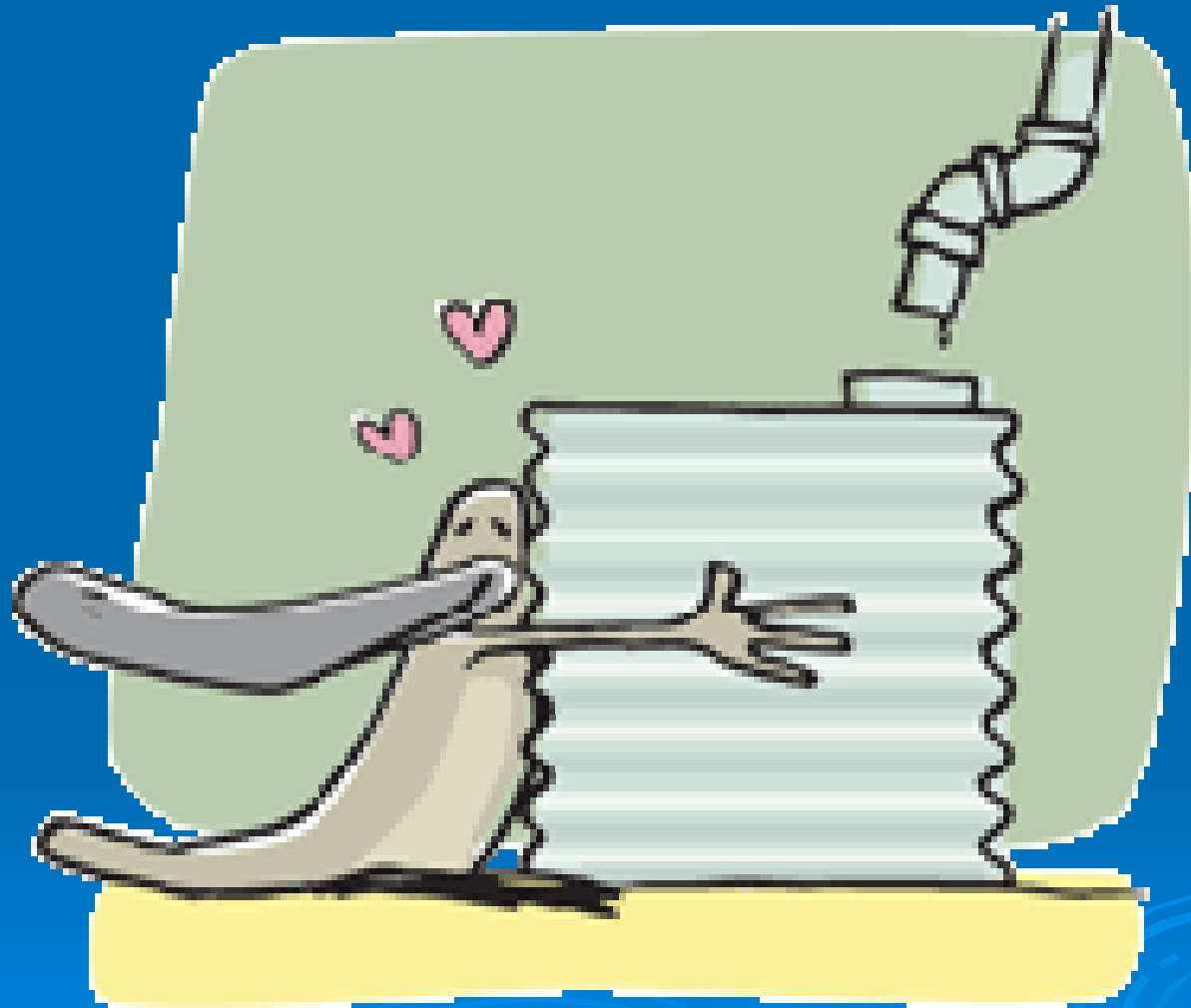
**We can save the water
to fill these 20,000L tanks!**



Every Day!!



**Current commercial costs do not relate to
community value on saving water.**



**We only save \$75 a day on the
town water costs!**



WATER

WASTE NOT

- ∅ We have wasted 630ML of water in the 20years since the CBW first proposed
- ∅ This would fill 5% of Lake William Hovell and 3% of Lake Buffalo
- ∅ The same amount of water would supply 3400 households a year, or fill 272 Olympic-sized swimming pools.

WANT NOT

Trade Waste Water



- ∅ For every litre of fresh water we use
- ∅ We discharge a litre of dirty trade waste.


Have you noted?

- ∅ Australia is one of the driest continents in the world, and yet is one of the highest users of water per capita.
- ∅ If Melbourne continues to use water at the same rate as the 1990s, water supply is likely to run out within 15 years.

Water Facts

- ∅ One third of the world's population is already facing problems due to water shortage.
- ∅ Global water consumption has risen by almost tenfold since 1900.
- ∅ The Snowy River has been reduced to about 1% of its original flow.
- ∅ Wangaratta is in one of the worst droughts in modern history this year.
- ∅ Victorian government departments have been reported as increasing their water usage by 25% last year

Quotes by Water Minister John Thwaites's

- ∅ At a time when the general community is saving water, government departments must set an example.
 - ∅ Any increase in water consumption by government departments is totally unacceptable
 - ∅ As a result of concerns I had about the drought and government water use, before Christmas I asked the head of Treasury to ensure departments maximised water savings
 - ∅ We will ensure all departments implement such water-saving measures.
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The current Victorian Hospitals

“Water management plan template” States:

- ∅ **Laundries**
- ∅ Consider and investigate water use when purchasing equipment
- ∅ Use a continuous-batch tunnel where volumes of laundry justify one
- ∅ Use hot water reuse systems and other water conserving technology where feasible
- ∅ Evaluate wash cycles and detergent / chemical formulations for maximum efficiency
- ∅ Wash only full loads
- ∅ Consider reuse of final wash for pre-wash or other uses

CBW is our answer to Water use management



CBW is Commercially Viable

- ∅ At current workload savings gained directly from operating expenses will be more than operating lease repayments.
- ∅ Laundry Capacity will be increased significantly
- ∅ Through aggressive marketing and using the increased capacity; the laundry can become a high profit centre for the organisation
- ∅ Organisational risks are greatly reduced
- ∅ OH&S Risks are greatly reduced

Let us fix a leaking laundry



It's commercially, environmentally and ethically
the right thing to do.

As the board of one of the largest organisations in Wangaratta.



**Use your power to make a difference.
Save our Water, Energy and Community.
You will do a lot for our key role in the community
HEALTH!**

From all the Linen Service Team

Thank You for your time

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