

in the industrial world - the benefits of DELTA technology



Deltawater
solutions

fact sheet 9

Industrial enterprises need high quality water and efficient water-delivery systems to guarantee high productivity and to minimise time and effort. Industrial water treatment is a necessity in the current climate due to poor quality water and the associated problems caused by scale build-up, salinity, iron and corrosion.

We have developed the DELTA industrial water treatment technology to treat water problems in industries ranging from abattoirs and piggeries to wine processing plants, factories and manufacturing plants.

Reducing maintenance and improving water quality are the key benefits of our industrial strength DELTA products. In industries that use water for heating, cooling, sterilisation and washing-down, DELTA minimises the impact of scale build-up and increase efficiency by reducing time and costs spent on maintenance. The DELTA industrial water technology also improves performance of systems involving heat exchange.

CASE STUDY

Greg Williams of Northern Co-operative Meat Company knows the DELTA water treatment technology has turned water woes into a winning business story at its livestock processing plant at Casino in NSW.

The chief engineer learnt of the DELTA technology during a fact-finding mission in 1997 as he battled the effects that Richmond River supply, with its high mineral content, was having on the high-tech abattoir's crucial shell and tube heat exchange system.

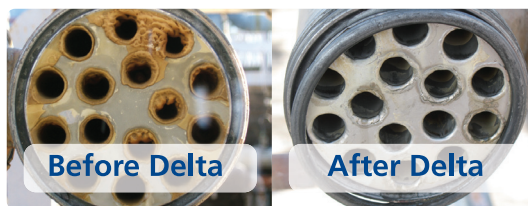
"It was very high-maintenance equipment and had to be pulled apart, managed and cleaned regularly," Greg says. "It was so labour intensive. Every fortnight we had two guys working on it for six hours and we had to use chemicals that were very aggressive."

But regular internal cleaning to remove scale from the heat exchangers, which must maintain a certain temperature to continue the plant's processes and meet national standards, is now a thing of the past. The company is using the Hunter Valley-based company DELTAwater solutions' water treatment technology on their piped hot-water supply and got near-instantaneous results.

"In three months we got away from having to do any internal cleaning at all," Greg says. "It was very quick payback. Then it took about two years for the scale to clear away entirely."

The company, a major water user in the district, also found mineral content in its supply was seasonal and exceptionally hard on equipment, especially when using hot water.

"Thanks to the DELTA technology, we've definitely got efficiency gains due to better heat exchange," Greg says. "We're now implementing DELTA technology in other areas which aren't as critical and we'll definitely get savings on the equipment again."



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Efficiencies and bottom-line accountability underpin industry and business ability to provide quality service and products for customers and clients. Mineral build-up in pipes, plumbing and equipment and salt and mineral-laced water are a constant headache for many businesses and industries across Australia and overseas. And it's in this sector that our DELTA water treatment technology excels.

> LIME TREES, QLD

Lime tree orchardist Phil Oliver's workload has grown since he installed the DELTA water treatment technology. But the northern Queenslander isn't complaining. His trees are flowering and fruiting more than ever, his yield is up and he's sure the result is down to the technology of Hunter Valley-based company DELTAwater solutions.

The company's water treatment technology has transformed his harsh bore water into quality liquid and he's happy to shoulder the extra work from a more productive orchard.

"I'm picking non-stop every two weeks now and I blame Alex and Dianne Panov from DELTAwater solutions," Phil jokes. "I'm behind on picking now because there's so much crop. They've given me much more work. And that's the problem. I have to work harder!"

Phil knew his 450-strong Tahitian lime tree orchard at Biboohra, north of Mareeba, was in trouble when lower branches sprayed with irrigated water from sprinklers started dying and yields slowed.

The orchardist installed a grade-four unit and within three weeks saw a surge of life through his struggling trees. "I started seeing results with new shoots coming through the branches that were still alive around the base," he says.

"And then within four weeks of watering, massive flowering started and it just hasn't stopped."

The Oliver family has also noticed a striking change in their domestic water, which gets the DELTA touch as well.

"I'm very happy with the DELTA technology," Phil says. "People need to know there's something out there that will give them results with their water, whether it's just in the house, in the garden or for farmers like me."



Phil Oliver's lime trees before treatment with a DELTA technology.

Phil, with one of his flourishing lime trees after treatment using DELTA technology.

> ABATTOIR, NSW

Southern Meats' Scott Newton reckons the proof is in the pipelines. And a spotless pipe two months after installing a DELTA Magnetic Water Conditioner was all the evidence the maintenance manager needed.

The technology brought to an end a costly labour-intensive headache that had plagued the Goulburn abattoir-processing plant for years, and now he couldn't be happier. "We were having to manually flush out our effluent-irrigation pipes every six months because they were blocking up with scale and mineral deposits. It was at least a week-long job and it meant we couldn't irrigate during the time we had the contractor on site with his jet-water cleaner."

"Magnets don't wear out and they don't need maintenance. You know, I had a break in that first pipe last week and we had to get an excavator in and dig it out to fit a coupling. We hadn't touched that pipe in more than 10 years and I had a good look at it and it was spotless."

Scott Newton, Southern Meats

So he turned the problem over to DELTAwater solutions to see whether magnetic water technology could save the day. "We were desperate because it was becoming a pain in the neck. So we fitted a magnet to the suction of the waste-water pump at an effluent dam, ran it for probably a couple of months and then dug the pipe up, did an inspection and it was as clean as a whistle. I've been sold on DELTAwater solutions ever since."

That was about a decade ago and now Southern Meats has added another two magnetic water conditioners to its Goulburn plant in NSW; a SU100G3 on a waste-water pump and a SU150G3 to the mains supply. The mains unit has increased efficiency of the plant's boilers by softening the water significantly.

