6

with it. We're talking about sewage here — and as Rob Maetzig backgrounds, New Plymouth has been rather efficient in that regard. Nobody wants to think about it, but every community has to deal

they are close to 300m in from close to 400m and extend on an art of the foreshore lesworth St. They are 4m in eter, easily large enough to amodate a small army of grown men... not that he would have ever wanted in there.

ewage.

The chambers are closed off
The chambers are closed off
yeals built as part of the city's
soastal walkway.

But they're there, all right, a
lidden reminder that for almost
its entire history, New Plymouth
has been impressively forwardhinking in providing the right
acilities for disposal of its waste.
If wasn't at the start, though.
For the first 65 years of its
existence, New Plymouth had no
public sewerage system. Instead,
every property at first had its
were regularly visited by
workers with the so-called night
caris that took the waste away.
Unfortunately, the workers



lt's 1984, and New Plymouth Mayor city's state-of-the-art Carrousel se leading-edge facility.

didn't take the waste very far. They dumped it into the Huatoh and Mangaotuku streams. And this, accordingly to popular history of New Plymouth, resulted in a number of epidemics of the often-fatal diseases typhoid and cholera. One only has to wander through cemetery areas at Te Henui and in the St Mary's churchyard to spot sobering references to many young

This consisted of about 16km of sewers in the central part of town that drained to a communal septic tank near where the rest rooms on James Lane are. From there, the partly treated effluent discharged into the Huatoki

Although this worked well nough and was at times ttended, New Plymouth mitinued to grow, and in 1927, he borough engineer Mr C. larke created a comprehensive and far-sighted sewerage scheme The scheme consisted of the



This historic photograph, taken in the early 1930s, shows the sheer size of the liquefying chambers build under New Plymouth.

## children and sometimes entire families killed by these diseases. Something had to be done. Initially, the health authorities responded by dedicating an unpopulated area near the Waiwhakaiho River (now Peringa Park) as the official disposal site for what was known as night soil. But at the start of the 20th century, the New Plymouth Borough Council installed the

This is the original plan for the sewerage scheme that served New Plyrconnecting to a ocean outfall off Eliot St. buth for more than 50 years. It shows the liquefying chambers

## HART TERRY URBAHN 8 DECEMBER 2007 - 2 MARCH 2008 SACRED





BREWSTERE

trunk mains were duplicated and extended. Even then, the work was done with the future in

mind.
This was particularly the case with the duplication of the main sewer west, which also saw it extended to Whaler's Gate so that communities such as Oakura could also eventually be included in New Plymouth's sewerage network.

network.

There was one major failing with New Plymouth's sewerage system of the time, however: it poured raw sewage out to sea. Those two liquelying chambers stored and broke down all the solid wastes while allowing the liquid to flow out to sea via an ocean outfall off Eliot St.

Every now and again, the solids would need to be let go, too, but only when there was an offshore wind and an outgoing tide. But more than once the operators got it wrong and had to watch as a change of wind blew all the solids back to shore again, spreading it all along New Plymouth's beaches.

This issue came to a head in the late 1970s when New Plymouth residents formed what was known as the Clean Sea Action Group and began demanding introduction of full land-based treatment for the biggest local body election issue in 1980, and new Mayor David Lean was swept into power on the strength of his support for the full treatment.

The New Plymouth Waste Water Treatment Plant discharges (out to sea via an ocean outfall) water that's actually cleaner than the near-by Waiwhakaiho River, and all the solid waste is converted to fertiliser that is sold throughout New Zealand.

Called Taranaki Bioboost 630

decide to actually go ahead with
the project.

The plant was to use a new (to
New Zealand) process called the
extended aeration activated
sludge process. Argument flew
back and forth in the council's
debating chamber, and in the end
the decision to go the land-based
way succeeded by a single vote,
after one councillor changed his
mind at the last minute.

New Plymouth's new Carrousel
treatment plant, built in the
Waiwhakaiho Valley, was
commissioned in 1984 at a total
cost of \$18.2 million, and it was so
leading-edge that its construction
immediately triggered a New
Zealand-wide re-examination of
the appropriateness of
discharging raw sewage out to
sea. lew Zealand.
Called Taranaki Bioboost 630
because it contains 6% nitrogen,
% phosphorus and 0.5%
obtassium), it's proving a big hit
not the 1300 tonnes a year that is
roduced is easily sold.
And while today the big
iquefying chambers sit empty,
he main sewers east and west,
unit of glazed earthenware,
continue to be used. They remain
n such good condition that the
modern-day sewer lines have The two-decade old treatment plant continues to operate efficiently as well, to the extent that New Plymouth is now poised to enter a new phase of farsighted development; piping all the district's sewage to the single plant. Inglewood's waste already goes there, thanks to the use of the former Moa-Nui effluent pipeline, which carries it to Manutahi Rd, where it connects via a newer line to the existing sewer that takes Bell Block's waste to the treatment plant. And the New Plymouth District Council as now begun a \$40 million project that, over the next couple of years, will see sewage from Oakura, Waitara, Onaero and Urenui go there as well. Council general manager of community assets Anthony Wilson says the treatment plant is undergoing some upgrading work to handle all the extra flow, which will increase by around 5.3 million litres to a total of 25.3 million litres a day.

"This will complete the vision that many people have had for many years: The only communities that won't be included will be Okato. Lepperton and Egmont Village. "The good news is that, unlike many other communities and districts, New Plymouth has the facilities to be able to achieve this. That's important, because one thing is for sure, and that is the sewage just keeps on coming."