

# Excellence in Energy

Kapuni Open Community Meeting  
Thursday 24th November  
Tikurangi Open Community Meeting  
Tuesday 29th November

## Community Update

Issue 35, December 2022



Ngāti Mutunga tamariki and whānau together with Todd Energy's GM, HSE and Community, David Bradley, plant a Pohutukawa after the signing of a three year partnership between Ngāti Mutunga and Todd Energy. The Pohutukawa were sourced from an endangered, historically significant stand of Pohutukawa planted by Ngāti Mutunga ancestors while taking on water at Paparoa for the Tokomaru waka.

## HELLO FROM TODD ENERGY...

Hello everyone and welcome to our final community newsletter of 2022.

This year saw us complete a very full work programme including the drilling of seven wells by our Big Ben drilling rig, the completion of infrastructure needed to electrify compressors at our Mangahewa C and D wellsites, and the successful execution of a project to re-complete wells to access more gas at the Mangahewa D wellsite. We also recently completed a successful shutdown at our McKee-Mangahewa Production Station.

A massive thank you to all Todd Energy staff, contractors, neighbours and other community members involved in making this year such a success; we couldn't have done it without you.

Looking forward, our Big Ben drilling rig will be moved from the Mangahewa G wellsite to the Kapuni J wellsite in December, where it will commence a four-well campaign scheduled from early January to late April 2023. In addition to this, we have a large Kapuni shutdown planned from late February to mid-March 2023 which will include an intensive maintenance and upgrade programme.

This winter's planting season saw us plant about 4,500 native plants at various sites around North and South Taranaki, including a newly-fenced hectare of farmland near our Mangahewa C wellsite, and the McDonalds Glen Key Native Ecosystem (KNE) near our Kapuni J wellsite.

Many of these planting projects were tangata whenua led and true community events, and we heartily thank everyone involved.

Another recent environmental highlight saw Todd Energy win the Taranaki Regional Council Environmental Award for Environmental Leadership in Business for its restoration of flood damage at the Kapuni Stream. We have included a short article with more detail on the award in this community update.

Finally, as outlined in September's update, we will be profiling different parts of our sustainability work in each of our community newsletters, and this edition includes an update on our emissions reduction workstream.

With that I would like to wish everyone in our community a very happy, healthy and settled Christmas and holiday season, and all the best wishes for 2023.

As always, if you have any questions or concerns about our activities, please contact the community team on 0800 001 007.

Kind regards,  
Mark



# Manukorihi and Matapu students and Taranaki Bulls players muck in planting native plants

In September Todd Energy and the Taranaki Rugby Football Union (TRFU) teamed up to plant native trees as part of the TRFU's Planting Trees for Tomorrow Programme.

"We wanted to be part of planting projects as they're a great way to engage with our local community whilst helping the environment," says Jimmy Fastier, TRFU Commercial Manager.

"Working together with Todd enabled us to create memorable planting days in both North and South Taranaki; it was great to be able to 'make a day out of it' providing the kids with post-planting sausages and cookies, as well as some play time with the Bulls players afterwards. Together we managed to plan two very special planting days."

The first planting day took place in South Taranaki, and saw Taranaki Bulls players, Matapu School Year 7/8 students and local farmers Mark and Mel Cleaver plant 250 native plants in a wetland on the Cleaver's farm located right next to the school. The planting day was a huge success, with the 250 plants planted in no time, even though the site was quite muddy, with many stuck gumboots involved.

After planting it was kai time, with a sausage sizzle and cookies followed some basketball and handball. Well done to all the Matapu School students involved, they really got stuck in (despite the mud!) to help our taiao!

The second planting day took place at Waitara's Ōwae Marae and was a true team event. Students from the Manukorihi intermediate School's rugby team, Taranaki Bulls players, Manukorihi Hapū members, Tree Machine staff, and Geoff White from Te Karanga Nursery got together for a morning of mahi, planting 250 native plants along the boundary of the Marae on North Road.

As with the South Taranaki day, the planting was smashed out in no time, leaving time for a sausage sizzle and cookies (which were provided by Yarrows the Bakers) and a game of touch on the lawn in front of the Marae's Whare Nui.

A big ka pai to the school students and Taranaki Bulls players for putting in the hard yards! Also, a massive thanks to everyone

else who helped make these days happen, particularly the Manukorihi Hapū and the Cleavers for making their land available for planting. There's nothing better than getting out in nature and making a difference, especially when we get to share it with our tamariki and rangatahi, the leaders of the future.



*The mud tried to claim many gumboots at the South Taranaki planting day including Taranaki Bulls player Josh Setu's redtops.*



*Matapu School students and Taranaki Bulls players at the South Taranaki planting day.*



*Students and staff from Manukorihi Intermediate School getting stuck in planting natives at Ōwae Marae in Waitara.*

## Kapuni Stream restoration wins Taranaki Regional Council Environmental Award

The Restoration of the Kapuni Stream after a large flood in the winter of 2021 has been recognised by the Taranaki Regional Council (TRC) in its annual Environmental Awards.

The remediation, which happened in the summer of 2021-2022, was a collaborative project that included TRC and Todd Energy staff, experienced contractors, local landowners and local iwi and hapū. In recognition of the collaborative nature of the project, as well as its excellent environmental results, the TRC has awarded it the 2022 TRC Environmental Award for Environmental Leadership in Business.

A big congratulations to everyone involved; it's great to see such great work recognised by our Regional Council.



*The remediation at the Kapuni Stream near NOVA's solar plant.*

# Kaponga Primary School to develop a Community Garden

Kaponga Primary School is developing a Community Garden on its grounds to help feed the community whilst also teaching students how to grow their own kai.

"The staff and students at Kaponga Primary School have long had a dream of being able to inquire, research, create, make and share the wonderful benefits that come from being able to feed many people from our own hard mahi," says Kaponga Primary School teacher, Dayna Downs.

"When designing the garden, our students were inspired by pictures of Parihaka, and how they used less modern methods to produce kai for their people," says Dayna. "They did not have raised beds but used gardens directly into the ground. We decided that we would like to explore this technique for ourselves as well. We really want to show our students that it's possible to grow their own food at relatively low cost."

The first phase is underway, with the students buying tools, conducting soil testing, and preparing the ground. Term 1 and 2 next year will see the bulk of the development of the garden.

"We want to reuse and recycle as much as we can," says Dayna. "The garden will include fold away working tables, a recycled plastic bottle greenhouse, a sensory garden, and a whole lot

of arts and crafts made by the students. We'll also have signage for the community explaining how the garden works and setting out the rules, which will include taking only what you need and helping where you can."

"The children are really excited to get stuck in and can't wait to grow kai to help feed our community. The positive impacts this garden will have on many different groups of people are numerous. We know it will be a place that will inspire, evolve, grow and teach for many years to come."

Todd Energy is thrilled to be supporting this endeavour. A massive well done to the staff and students involved, we can't wait to see the positive benefits in the future!



Kaponga Primary School students R-Jay Paterson-Sanson-Knowles and Zebastian Paterson breaking ground for the school's new community garden.

## Tools to help groundwater education in Taranaki

Over the last year, Jane Harvey, the Taranaki Regional Council's Groundwater Scientist, and Evelien Wallace from Todd's Environmental Team, have worked together to develop tools to help increase groundwater hydrology understanding in Taranaki.

"Groundwater hydrology (the way water moves underground) plays a key role in Taranaki's water cycle, making it important to understand and protect. Most people have a limited understanding of how the groundwater system works and there are very limited education tools available," says Jane.

"We wanted to develop some high quality simple tools to help raise awareness across the region."

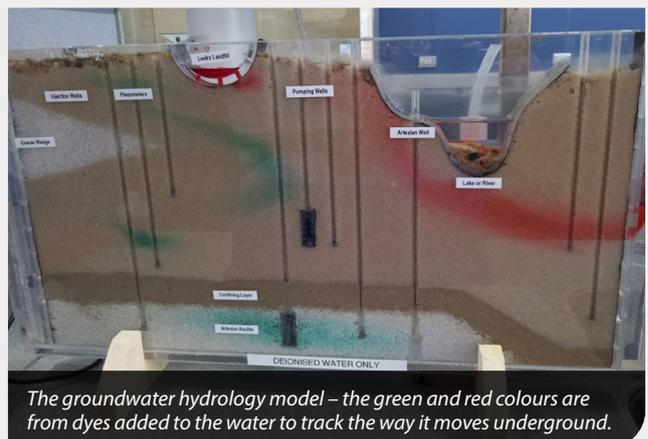
So far this has included buying a groundwater flow model which is a small-scale model designed to show how

groundwater moves underground. The model can be used to show things like how contaminants move through the groundwater system or how a confined aquifer or an artesian spring work.

The next phase will include recording six common groundwater flow scenarios to show how groundwater behaves, and digitising them to produce an easy to use digital tool which will be made available to schools and the general public.



Jane Harvey, Taranaki Regional Council's Groundwater Scientist, operating the recently purchased groundwater hydrology model, which will be used for education in the region.



The groundwater hydrology model – the green and red colours are from dyes added to the water to track the way it moves underground.

## House of Science comes to Taranaki

Established in 2013, House of Science has a vision that 'every child in New Zealand is scientifically literate'. One of the ways the charity aims to help raise a scientifically literate generation is by supplying primary schools with subscription-based science education resource kits on a variety of topics.

These kits act as a science teaching 'library' for schools; kits are designed to be used to teach a scientific topic (such as invasive species, gravity and hydraulics) and contain the required equipment and instructions to teach that topic in an engaging and

scientifically accurate way. Schools get to use a kit for teaching, and when they're done with that topic, can return it and borrow another one in its place.

This allows schools to teach a variety of scientific topics well, and with minimal cost or impact on the environment. Todd Energy has supported House of Science's entry into Taranaki by sponsoring the development of three science kits to be used in the region.

The first of these kits, 'Hot Stuff' was designed to teach students all about heat including insulation and is already being well-used by schools around the region.

## Our Emissions Reduction Workstream

In our September Community Newsletter, we highlighted the five key areas for our sustainability focus: biodiversity enhancement and protection; waste reduction; water efficiency and quality; Tangata whenua; and emissions reduction.

In this update, Todd's Emissions Reduction Lead, Mike Brophy shares what Todd's been doing to reduce emissions and where future opportunities are.

Earlier this year, Todd Corporation set a net-zero emissions target by 2045 on Scope 1 and 2 emissions. Scope 1 includes emissions associated with burning gas at our facilities for fuel – which is used to run compressors, pumps, and heaters for example – as well as emissions associated with venting, flaring, and our direct petrol and diesel consumption. Scope 2 includes emissions associated with Todd's purchased electricity.

Some of the work that Todd has done to understand where emissions reduction opportunities lie is by engaging with those who know the facilities best – operators, maintenance, and engineering. "We ran 'Limit the Carbon' workshops, with huge, detailed schematics of our plants around the room, discussing inefficiencies or where we were emitting more than necessary," says Mike. "These workshops were open to everyone – staff and contractors – from all different departments to help provide diversity of thought. At the end we had produced around 140 different ideas that were further evaluated and some of these are now being executed."

In our March community update we shared our emissions reduction target for 2022 was 6,000 tCO<sub>2</sub>e, which we have far exceeded. "We expect to reduce our 2022 emissions by 16,000 tCO<sub>2</sub>e" says Mike. "We have made changes to the way we process gas, making

it more efficient and thus reducing fuel gas and emissions. In addition, there was an integrated effort between the teams to reduce the amount of flared gas during our drilling campaign at Kapuni-J."

"Part of our focus has been to increase the visibility and awareness on where our emission sources are. While we know what our total emissions are, we've gone a step further and broken it down to the equipment level to pinpoint exactly where they are. This helps us identify what equipment is operating inefficiently, allowing us to quantify and make improvements. We're also working on providing this visibility in real-time which will enable us to act much more quickly when something is operating inefficiently on-site. We also now consider the impact on our emissions for every project that we do, which in some cases helps us go back to the drawing board and find a greener alternative."

"In our New Plymouth office, we've conducted a building energy audit with the findings helping us to identify opportunities to reduce our electricity consumption. Todd's Digital Team has also created a vehicle booking app for our vehicle fleet, designed to encourage ride sharing and to provide visibility on travel emissions and more sustainable alternatives – such as utilising the hybrid vehicles in our fleet," says Mike.

"Everyone inside Todd has been instrumental in identifying changes we can make to reduce our emissions. The year isn't over yet either, and I'm optimistic we can further beat our 2022 target."

## Activity update

### Kapuni Gas Treatment Plant and Kapuni Production Station

- Oct – Nov: Boiler 2 upgrade
- Dec – March: CUSP Phase 3 project (KAP A)
- Oct – Dec: Train 3 commissioning
- Dec – March: Major shutdown planning
- Late Feb – mid March: Major Kapuni shutdown

### McKee and Mangahewa Production Station (MMPS):

- Jan – Mar: McKee compressor servicing
- Mar: McKee Emergency Shutdown 2023
- Dec – Mar: Electrification project construction and commissioning

### McKee and Mangahewa wellsites:

- Dec: MHW G Phase 2 drilling of MHW36
- Jan: MHW D 2023 shutdown
- Jan – Mar: MHW G MHW33 – MHW36 completions campaign
- Dec – Mar: MHW C & D wellsite separation and compression project activity

All care has been taken to ensure this information is correct at the time of publication.

