



## TIAKI THE DEFINITION

Tiaki means to look after, to guard, to care for, keep and nurture. This single word embodies the full vision of Farm Source's Sustainable Dairying Programme which is centred around caring for the land for future generations - all who work it and all who are connected to it.

TIAKI reflects our commitment to our farmers and to achieving greater on-farm sustainability

**TIAKI**  
Is about being a responsible Co-operative

**TIAKI**  
Leverages our world class tools and capability

**TIAKI**  
Is about developing and delivering solutions

## TIAKI IN PRACTICE:

## FARM ENVIRONMENT PLANS

### GARRY'S FEP TESTIMONIAL

When Garry Reymer was invited to take part in the Farm Environment Plan pilot programme, he recognized it as an ideal opportunity to keep the ball rolling with his on-farm sustainability. The FEP produced for his farm, during the pilot programme, provided instant feedback on all the good work he had already done, and confirmed a clear way forward for future work. Garry appreciated how the FEP was individualised to his farm, including maps and photos of critical locations around the property. Garry stated, "If I had to do it myself the enormity of the task would probably just seem too much. Fonterra has the resources, they know what's got to be done, and they've done plenty of them."

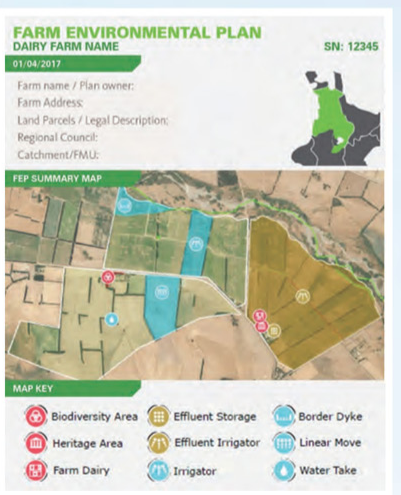


*"It was good to be able to work with a trusted entity, like Fonterra. It gave me confidence it was going to be done properly, done right, with people I know."*  
-Garry Reymer

**Farm Environment Plans (FEPs)** provide farmers with an individually tailored plan to assist them with identifying and managing environmental risks and good management practices specific to their property. Fonterra is well positioned to assist farmers with the development of FEPs by leveraging the existing Sustainable Dairying Advisors and environmental programmes offered by Fonterra, and enhancing them to support farmers and their communities.

### CASE STUDY: FARM ENVIRONMENT PLAN PILOT PROGRAMME

The Farm Environment Plan pilot programme was led by Federated Farmers of New Zealand, and the project partners were Fonterra, Waikato Regional Council, the Foundation for Arable Research (FAR) and DairyNZ. The project was started with a view of helping farmers with the requirements of the proposed regional Plan; and understanding the actual costs of developing and producing FEPs. The project encompassed the delivery of Farm Environment Plans on 11 dairy farms and was piloted under the operation of a Certified Industry Scheme.



The pilot programme highlighted Fonterra's ability to utilise existing tools and skill-sets to deliver FEPs that affect on-farm change at scale.

## PILOT CONCLUSIONS

At the conclusion of the pilot programme it was clear that the FEP process is an efficient way of identifying and addressing environmental risk on farm, and that Fonterra has the appropriate tools and field team skill-set to deliver FEPs at scale.

Farmers reacted positively and appreciated the use of the 'Summary of Actions' table to document actions against timeframes, as well as the visual maps and aids. They liked that the reports were easy to interpret and were individualized to their on-farm needs.

The regulators involved with the pilot programme were satisfied that our FEP pilot achieves the agreed environmental outcomes.

#### KEY FARMER FEEDBACK:

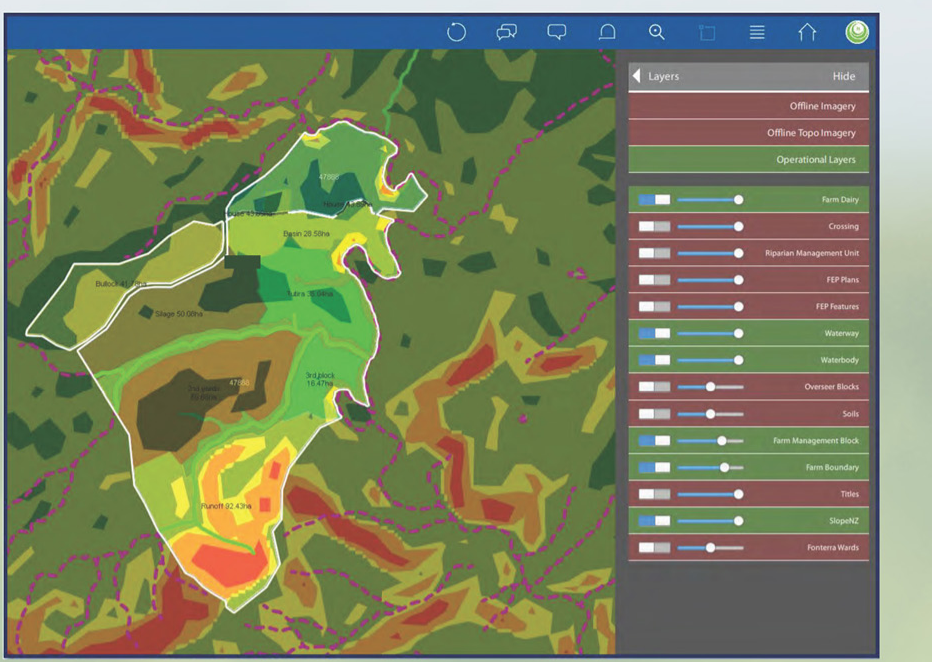
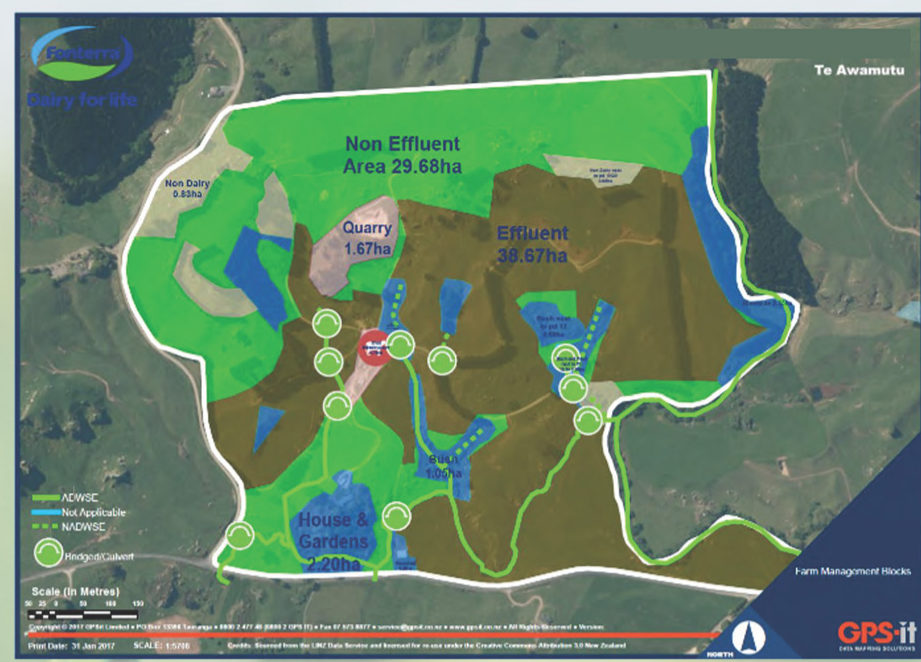
90% agreed that it was effective in identifying actions and practices that could be practically implemented.

100% agreed or strongly agreed that they intend to use the FEP as a tool to manage contaminant loss on their property.

*"There were some suggestions that were made that we weren't aware of. For example, a big one was a race that was an erosion prone area. Water zooms down the race and gets to a crossing. The SDA suggested we make cut outs further up the race and to lift the level of the crossing and we did it. It worked beautifully."*  
- Pilot FEP Farmer

## THE OUTCOME: OUR FARM ENVIRONMENT PLAN REPORTS WERE TAILORED TO EACH FARM WITH VISUAL ELEMENTS ENABLED BY WORLD CLASS TECHNOLOGY.

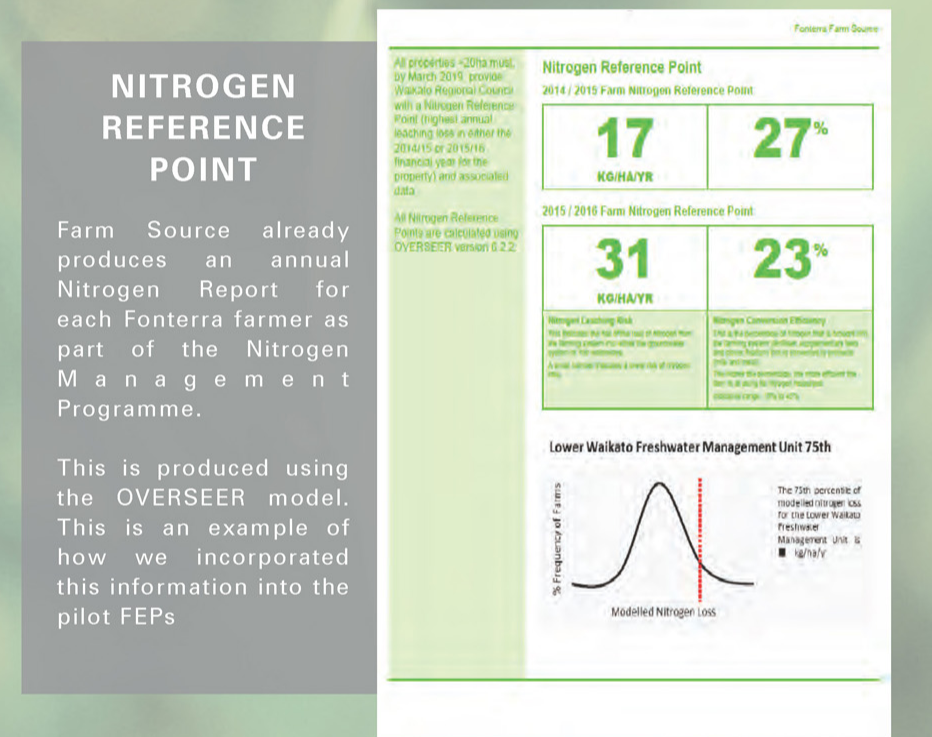
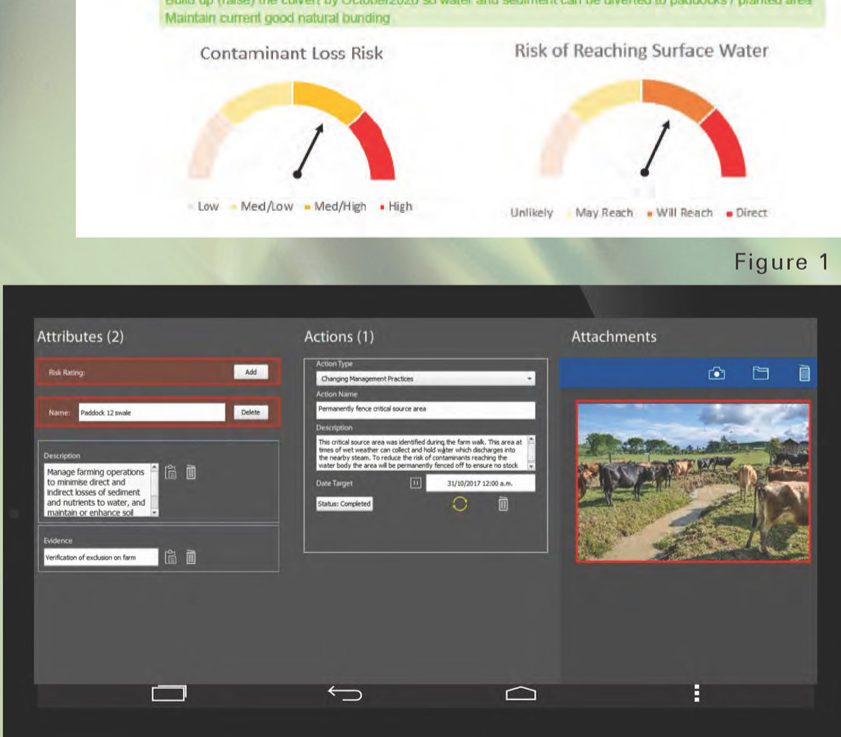
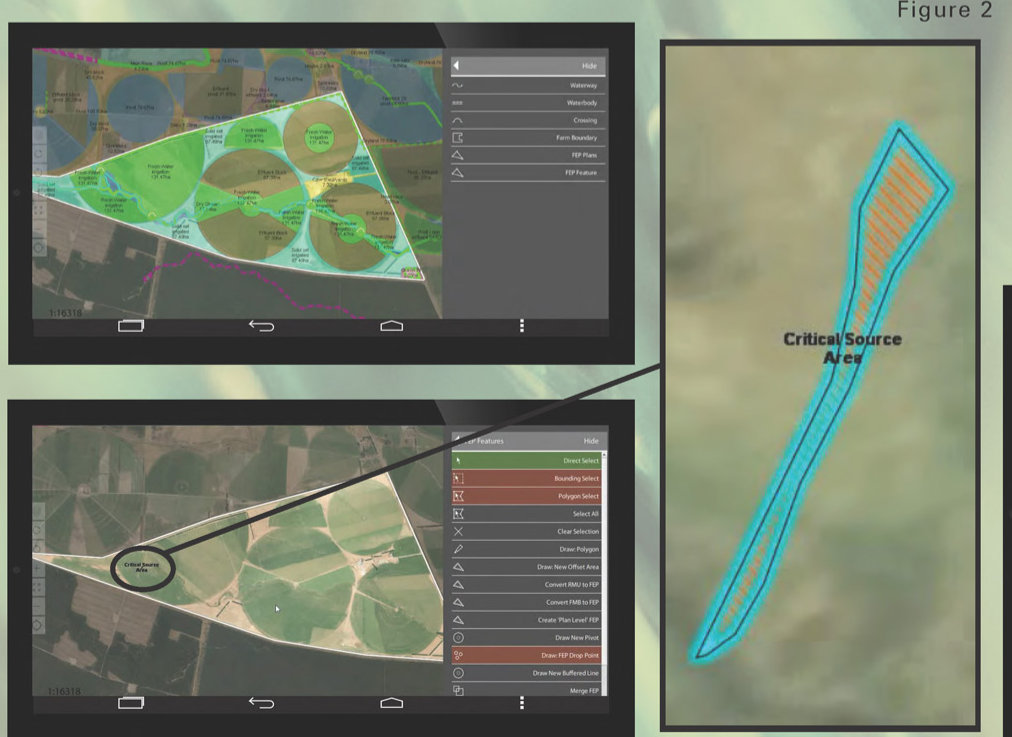
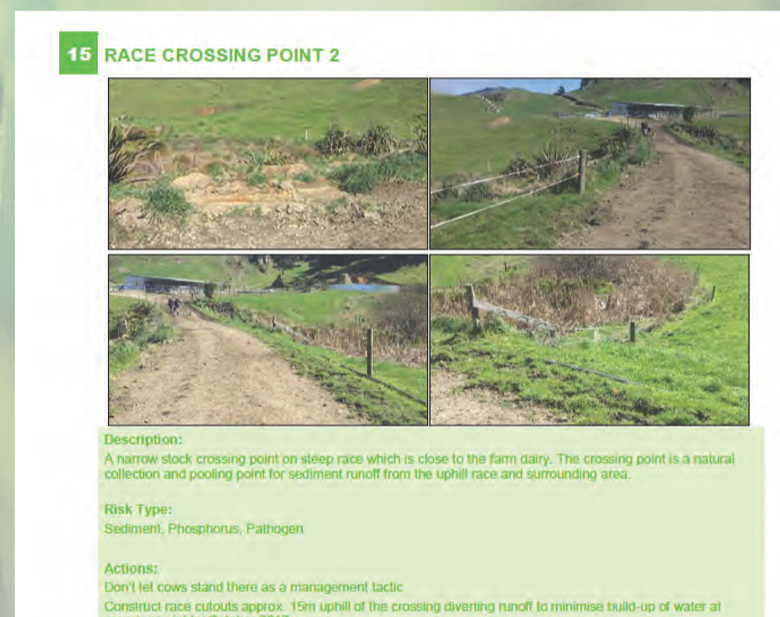
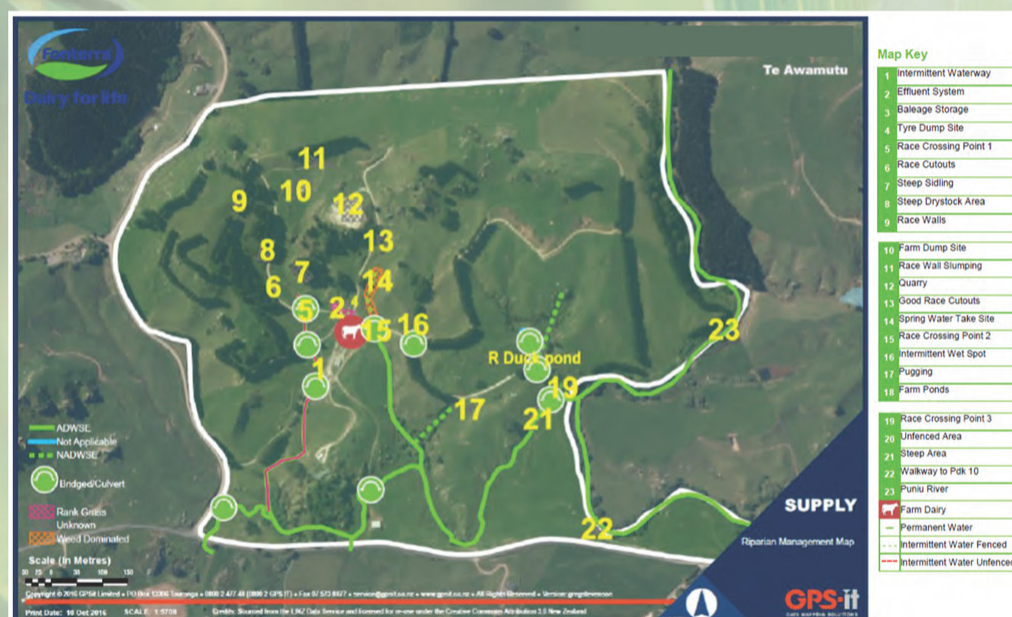
The pilot demonstrated that Fonterra was able to produce an FEP report that was tailored to each farm's needs, incorporated visual aids and provided clear actions for the farmer to follow. Here are some examples of the content produced in the final FEP reports.



Tiaki's FEPs are developed using innovative GIS software tools. This involves the use of colour, farm maps, farm photos, intuitive gauges and easy to understand graphics. These are some of the farm maps that show various layers of information to cover a variety of different requirements.

### CRITICAL SOURCE AREAS

Our FEPs highlight critical source areas, each area is accompanied by a photo, a description of the area, what containments are at risk of being lost and what actions are required (fig 1). These areas are numbered and relate directly to the farm map of critical source areas (fig 2.)



| Block Area | On-Farm Action | Completion Date | Completed                |
|------------|----------------|-----------------|--------------------------|
| 1          | ...            | ...             | <input type="checkbox"/> |
| 2          | ...            | ...             | <input type="checkbox"/> |
| 3          | ...            | ...             | <input type="checkbox"/> |
| 4          | ...            | ...             | <input type="checkbox"/> |
| 5          | ...            | ...             | <input type="checkbox"/> |
| 6          | ...            | ...             | <input type="checkbox"/> |
| 7          | ...            | ...             | <input type="checkbox"/> |
| 8          | ...            | ...             | <input type="checkbox"/> |
| 9          | ...            | ...             | <input type="checkbox"/> |
| 10         | ...            | ...             | <input type="checkbox"/> |
| 11         | ...            | ...             | <input type="checkbox"/> |
| 12         | ...            | ...             | <input type="checkbox"/> |
| 13         | ...            | ...             | <input type="checkbox"/> |
| 14         | ...            | ...             | <input type="checkbox"/> |
| 15         | ...            | ...             | <input type="checkbox"/> |
| 16         | ...            | ...             | <input type="checkbox"/> |
| 17         | ...            | ...             | <input type="checkbox"/> |
| 18         | ...            | ...             | <input type="checkbox"/> |
| 19         | ...            | ...             | <input type="checkbox"/> |
| 20         | ...            | ...             | <input type="checkbox"/> |
| 21         | ...            | ...             | <input type="checkbox"/> |
| 22         | ...            | ...             | <input type="checkbox"/> |
| 23         | ...            | ...             | <input type="checkbox"/> |
| 24         | ...            | ...             | <input type="checkbox"/> |
| 25         | ...            | ...             | <input type="checkbox"/> |
| 26         | ...            | ...             | <input type="checkbox"/> |
| 27         | ...            | ...             | <input type="checkbox"/> |
| 28         | ...            | ...             | <input type="checkbox"/> |
| 29         | ...            | ...             | <input type="checkbox"/> |
| 30         | ...            | ...             | <input type="checkbox"/> |
| 31         | ...            | ...             | <input type="checkbox"/> |
| 32         | ...            | ...             | <input type="checkbox"/> |
| 33         | ...            | ...             | <input type="checkbox"/> |
| 34         | ...            | ...             | <input type="checkbox"/> |
| 35         | ...            | ...             | <input type="checkbox"/> |
| 36         | ...            | ...             | <input type="checkbox"/> |
| 37         | ...            | ...             | <input type="checkbox"/> |
| 38         | ...            | ...             | <input type="checkbox"/> |
| 39         | ...            | ...             | <input type="checkbox"/> |
| 40         | ...            | ...             | <input type="checkbox"/> |
| 41         | ...            | ...             | <input type="checkbox"/> |
| 42         | ...            | ...             | <input type="checkbox"/> |
| 43         | ...            | ...             | <input type="checkbox"/> |
| 44         | ...            | ...             | <input type="checkbox"/> |
| 45         | ...            | ...             | <input type="checkbox"/> |
| 46         | ...            | ...             | <input type="checkbox"/> |
| 47         | ...            | ...             | <input type="checkbox"/> |
| 48         | ...            | ...             | <input type="checkbox"/> |
| 49         | ...            | ...             | <input type="checkbox"/> |
| 50         | ...            | ...             | <input type="checkbox"/> |