

Muaupoko Tribal Authority Incorporated

Muaupoko Coastal Research Project

This is the second report required to fulfil the I.F.S project for MSI purposes
for the period 1 October 2011 to 31 March 2012



Robert Warrington – Project Manager
5/15/2012

Muaupoko Coastal Research Project

Project Team: Robert Warrington, Marokopa Matakatea, & whanau

Condensed Project Objective:

1. To express Kaitiakitanga for managing our fishery:
2. Utilise western science to supplement matauranga Maori to combat non-traditional pollution.
3. Muaupoko would like to see the Manawatu River accords actions transfer into to positive change.
4. To implemented an agreed quality monitoring process that can be repeated on a six monthly basis by trained members of Muaupoko hapū.¹

The team considers Objective one and four to be met, albeit on-going, while two and three require further advancement of the project to determine the effectiveness.

Actions during the period (1 Feb 2011. – 31 March 2012): This section reflects progress against the actions specified in the sub-project outlines. An additional item follows regarding budget expenditure.

Planned Deliverables and Progress Chart from 1 February 2011 to 31 March 2012:

Completion Date (Monthly)	Deliverable = Planned Achievement	Measure of Completion How do you know it's done?	Resource & Time required Skill required? Person? Time required?
By end of March 2011	Participate in 7 full day Mediated Modelling workshops to prepare Action Plan for River Leaders Accord	Action Plan submitted	COMPLETE

¹ Objectives in summary form taken from initial scoping paper entitled Muaupoko Coastal Research Project 2011 - 2014

End of May 2011	Identify 6 core team members to share knowledge and undertake the research with Project Leader and Project Kaumatua	Acceptance letters with dates for each noho posted to each member	COMPLETE Hui was advertised and 30 plus whanau attended the initial overview. Due to the larger numbers than expected attending, and considerable interest received outside the overview meeting, the core group is now expanded to those that turn up.
Requires further action	Design survey methodology <ul style="list-style-type: none"> - What is going to be recorded and why important - How (GPS? Only) - How will data be entered into database? - How will the raw data be analysed? - How will data be put on website? 	Survey form written up. How to use and download data from GPS understood. Website update (We might be able to source an example to use from elsewhere and adjust it)	COMPLETE COMPLETE COMPLETE
31 May 2011	Training for Team members	Team members able to use GPS and fill in survey form	COMPLETE We now have an expert GPS operator (Peter Tuatara) We now have an expert Video Camera operator (Sileena MCGregor) We now have equipment manufacturing specialists (Bruce Proctor)

31 May 2011	Implement Survey 1 ALSO Commence collecting Video footage for Documentary	Survey 1 results written up and posted on web-site	COMPLETE COMPLETE
15 October 2011	Update EERNZ on progress with research project and provide material to update IFS website	Report provided to EERNZ in format required by Ministry of Science and Innovation	COMPLETE
30 November 2011	Implement Survey 2	Survey 2 results written up and posted on web-site	Complete - Survey Carried out in January 2012 to compliment Massey Study Course
31 December 2011	Advertise for and selection of Scholarship recipients x 2	Student is accepted at Tertiary Institute, and student reports back to Team Members at noho	In Progress – Criteria being considered by newly elected M.T.A Board Members
15 April 2012	Update EERNZ on progress with research project and provide material to update IFS website	Report provided to EERNZ in format required by Ministry of Science and Innovation	COMPLETE – 21 June 2012



Figure 1 January 2012 survey

We found water was best to pour over the sand in the sieve, as that was better for the critters that we were looking, rather than shaking the sieve. Some bright spark decided that if we dig a hole, the water from the seepage would be easier to gather there rather than to travel to the surf and back again. It worked a little, but next time we will take more watering buckets, as it was quite slow to gather enough water.

Budget and Financial:

See Excel file attached

Opportunities –

M.T.M data will be available. That is the toxicity testing done on shellfish from the Wairiri area and south of that. I am advised that the second round of testing is planned for within the month and the results will be available shortly after.

The budget for this program has been monitored and shows that a surplus of funds will be available at the conclusion of the project unless it is directed towards another initiative.

In keeping with the kaupapa, the excess of funds will be directed towards building capacity in fresh water monitoring techniques for project team members.

The following chart will be an addition to the original plan:

Completion Date (Monthly)	Deliverable = Planned Achievement	Measure of Completion How do you know it's done?	Resource & Time required Skill required? Person? Time required?
By end of December 2012	Hold one full day hui on freshwater testing methods, including e-coli testing, heavy metals, pathogens, sediments	Whare booked Guest speakers arranged	Project Team 1 day per member
By end of December 2012	Identify what testing equipment is available for our use	Items located and purchased	Robert Warrington
End December 2012	Invite Ngati Kauwhata Team to Muaupoko to share their experience on testing the Oroua River	Part of above wananga	Mike and Robert to arrange

End August 2012	<p>Locate a suitable qualified expert to interpret the results of our survey</p> <p>Invite Jenny M (she may be able to assist in interpreting the results)</p>	Written interpretation of survey results	Robert to arrange 1 day
-----------------	--	--	----------------------------

Knowledge Transfer –

Date and Event	Kind of Knowledge Sharing	Participants (Organisations)
Jan 2012 Survey	Whanau members were blessed to have Massey University course participants join us in our January 2012 survey	Massey University
Jan 2012 debrief hui	<p>Debrief after second excavation. This enabled personal observations to be shared with our guests. Great opportunity to share Muaupoko views with guests.</p> <p>It was speculated that the number of living organisms we find in some of the quadrants shows that the beach sands are healthy, else there would not be that diverse a range of living species in there at all.</p> <p>Where no living organisms were found suggest not such a healthy living environment, but we would still need to find out why that was.</p> <p>The number of shellfish that was taken from a 15 metre area in the low tide area was easily twice as much as that taken in the same spot last survey, however, the difference was probably due to the fact that the survey was undertaken during a full moon phase.</p> <p>It was mentioned though that the pipipi seemed a little thinner than they should be.</p>	18 additional manuhiri and 14 whanau in attendance

GPS	Our GPS expert is now fully conversant with the use of the GPS system, and will be in a position to teach another member	Peter T

Publications –

No additional Publications



Figure 2 Kerehi "the pippi whisperer" teaching our guests the difference between Pippi and Tuatua

Next Steps

Looking forward to the next six months were we will for the first time offer scholarships, and plan for the first of two beach day visits.

There is also another excavation survey, mid-winter that needs to be carried out.

APPENDIX

The survey results are attached for your perusal.