

**FAR NORTH DISTRICT COUNCIL**  
**CONTRACT 7/18/101**

# **Road Maintenance and Renewals Contract**

**MONTHLY REPORT – JULY 2023**

*Puia St, Ngawha Springs –  
Footpath Replacement*



# 1. SUMMARY

July was a fairly standard July for us. A little bit of rain and cold conditions making the roads on our unsealed network a bit harder to traverse, water tabling and culvert clearing, culvert replacements and designing/planning for summer works about to commence. Speaking of designs the sealed rehabilitation designs are coming along well and the chip sealing designs for both FNDC South and Kaipara as we look to seal two NTA contracts this season. George and Kurt have been out scoping out the pre-seal repairs with the resealing programme with an aim to have the hoe in the ground at the start of September.

Routine works continue to hit targets with another month of good KPM results. The RFS system had a small reprieve at ONLY 250 (funny how you get used to unmanageable numbers so now 250 feels like a walk in the park).

Gabrielle Phase 2 works continue as we had it confirmed that the May rain event was to be funded to Phase 2 levels also. This has meant that a lot of the teams currently working on Gabrielle moved straight into May works. This is significant as May had a lot of nasty under slips that need urgent repair. Signs can only do so much under Phase 1 initial response.

In the unsealed pavement land the 4 graders have been busy right across the network with a 5<sup>th</sup> grader also included within the unsealed pavement overlay team. Roads completed this month include Mill Rd and Range Rd in Kawakawa plus Curtis and Tokawhero Rds. Maintenance metalling has been applied where required.

We are now starting work on the programmed works for cyclic rounds, booking in the spraying, sump clearing, channel sweeps and line marking programmes.

The drainage team carried out culvert replacements out West of Kaikohe with the footpath team also ending up out near the West in Ngawha Springs moving further West in August. We also managed to squeeze in a minor safety improvement project on Kellet St, Opua during the School Holidays to reduce the risk of having kids around the worksite while active.

This month we said goodbye to two long time stalwarts of Ventia. Neil Cates (23 years) and Chris Pratt (19 years) - both semi retiring and moving into different roles elsewhere. We wish the old fellas all the best.



Lastly Ventia's Northland Community Grant Scheme closed off at 42 applicants which is a number far and above all other regions (mainly Australia) that applied. Over the next month or so each application is viewed and discussed with the successful charities/sports teams advised, we cant wait to support the local community groups.

Enjoy the read.

Nga Mihi

Jamie Kitzen



## 2. WORK PROGRAMME

A total of 2,619 individual work items were completed throughout the month of July, of which 2,532 were routine find and fix issues, 3 cyclic or annual rounds, 24 were programmed works, 7 renewal / capital project, and 53 were callouts or emergency response works.

August 2023 forward works programme has been submitted in RAMM.

Task Name	RP Start	RP Finish	Priority	Dispatch	Type of repair	Est Value	Duration	Start
May Event							58 days	Tue 18/07/23
JR Hack							52 days	Wed 26/07/23
MOTUKIORE ROAD	12705	12805	1	154101	Refer to dispatch 154058.	\$14,944.32	0 days	Wed 26/07/23
MOTUKIORE ROAD	12765	12769	1	154058	Exc 10m past, Geogrid + Overlay 500mm, W/T	\$95,000.00	4 days	Wed 26/07/23
MOTUKIORE ROAD	13419	13439	1	154056	Rock Spalls + W/T	\$85,000.00	5 days	Tue 1/08/23
MOTUKIORE ROAD	13419	13439	↓	154103	Make safe prior to 154056	\$4,500.00	0 days	Mon 7/08/23
MOTUKIORE ROAD	13419	13439	↓	154104	Make safe prior to 154056	\$2,974.84	0 days	Mon 7/08/23
MOTUKIORE ROAD	13623	13633	↓	154105	Link to 154053	\$18,438.84	0 days	Mon 7/08/23
MOTUKIORE ROAD	9526	9606	1	154107	Links to 154051 (Phase 3) but could do for under \$10k	\$54,698.96	4 days	Tue 8/08/23
MOTUKIORE ROAD	13543	13583	1	154053	Rock Spalls + W/T	\$98,500.00	10 days	Mon 14/08/23
MOTUKIORE ROAD	13866		↓	154103	Make safe prior to 154053	\$4,500.00	0 days	Fri 11/08/23
MOTUKIORE ROAD	12866	12891	1	154057	Rock Spalls + W/T	\$95,000.00	5 days	Mon 28/08/23

Sample of our May rain event planning above through Microsoft Project.

## 3. ROUTINE INSPECTION REPORT

Our 3 inspectors have been working through routinely programmed inspections, review of the due dates for these modules was completed last month for NTA review.

### Sealed:

There are currently 0 sealed inspections running overdue, 362 completed.

### Unsealed:

There are currently 0 un-sealed inspections running overdue, 208 completed.

### Drainage

There are currently 0 drainage inspections running overdue, 13 completed.

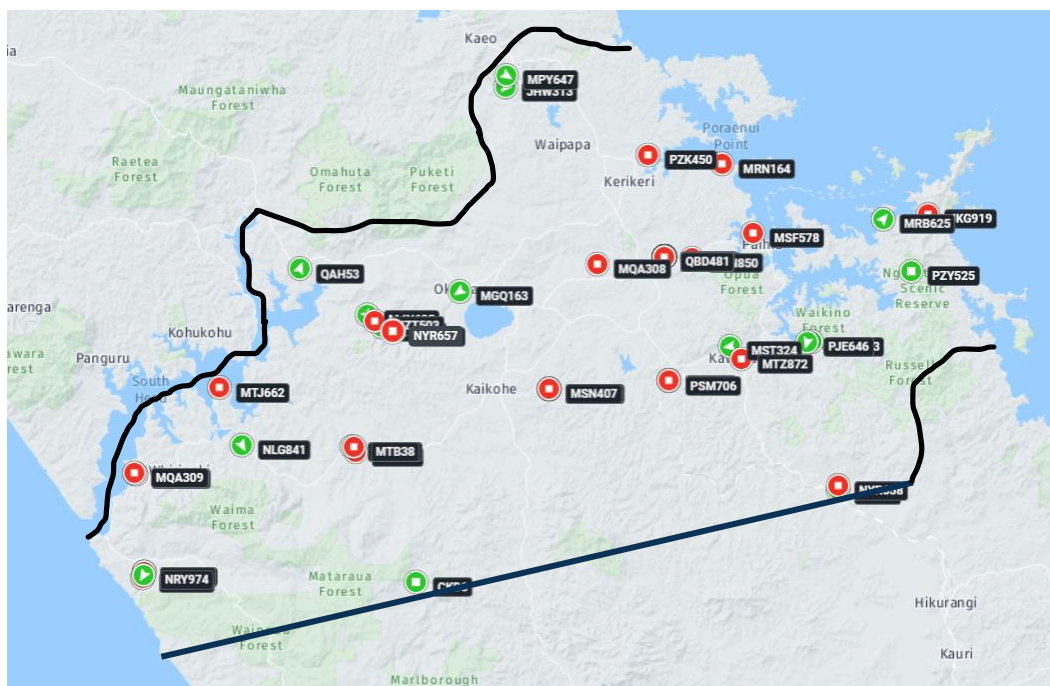
Network Area Inspection	
South Area – July 23	
Week 1	327.4 km
Week 2	320.3 km
Week 3	257.1 km
Week 4	150.6 km
<b>Total KM</b>	<b>1,055.6 km</b>



## 4. ROUTINE WORKS COMPLETED

Routine maintenance activities completed in July:

- 497 sealed potholes repaired.
- 1,878 unsealed potholes repaired.
- 175.5km of unsealed roads graded equating to 22.5% of the total unsealed network.



*I was scrolling through our online vehicle system (E Road) on 31<sup>st</sup> July and was blown away by the spread of vehicles across the network.*

## 5. DRAINAGE MAINTENANCE & RENEWALS

Drainage maintenance activities completed in July:

- 80m of heavy water tabling (Storm recovery package & scheduled work)
- 430m of water table reconstruct/scouring. (Storm recovery package & scheduled work)
- 77.5m of Culvert pipes replaced/new. (Renewals Programme)
- 0 Culverts flushed.



Ray's crew have managed to tick off a few more urgent culvert replacements and have made some good drainage improvements in historic flood prone areas. Installing larger diameter culverts, heavy water tabling and opening land drains will help with access for residents in the Otatau/Mataraua areas after Heavy Rain events.



## 6. EMERGENCY WORKS

Other than the continuation works from previous weather events there were no major new emergencies this month. One large tree down across Parnell St in Rawene (below left) and one on Renwick Rd.





## 7. PHASE 2 – RECOVERY WORKS – GABRIELLE & MAY RAIN EVENTS

During July FNDC was given approval by Waka Kotahi to commence phase 2 works following the May rain event. The timing of this lined up well with Gabrielle Phase 2 works nearing full completion. We are continuing with the focus on utilising small to medium local businesses to grow their capabilities and creating a stronger local economy. We have brought on Far North Roding for the Northwestern area also.

### Pavement Team

Started out on Rawhiti North Rd then had a call out while up there to attend to a new over slip on Rawhiti South Rd. Once they finished out East, they came into Doel Rd (see pictures below) and then onto Ngapipito Rd again for final slip tidy up and finished up the month on the other Coast on Waimamaku Beach Rd with an overlay of a storm scouring/drainage issue. They will continue through August with Ramsey Rd, Classen Rd 2.0 slip, then onto Taheke for more under slip repairs.



### Water tabling team

They have been all over the place with too many roads to name, clearing up blocked culverts and water tables from the recent events. Notably one road that needed to be done was Old Bay Rd with a localised 200mm down pour in one of the weather events it meant a lot of rip rap was pushed into the carriageway and paddocks further down the hill.

### Northland Treeworks

Last remaining major Gabrielle Job completed on Waimatenui Rd. This was a massive job that required some discussions with local residents on the disposal of green waste to save on costs carting away to a location a long way from site.



## DCL

Attended under slips on Newton Rd along with full water tabling, a slip repair on Waiotemarama Gorge Rd and Vujcich Rd and rounded out the month with water tabling along Te Waiaroha Rd.



## JR Hack

With the ongoing Cyclone Gabrielle damage our team from Hack have been kept busy on Taheke, Te Tio and cleaning up a small over slip on Opara Road.

Taheke Road has several slips to repair in phase 2 and 3 works after our recent storm events. Hack has done an outstanding job with this phase 2 repair below. Everything from blocked side drains to creating positive water flow and clearing the over slips. They have also cleared the under slip and installed a rock spall retaining structure from the river's edge to road level. Great work in protecting the back from future flood waters.







Moving onto Te Tio Road, the shoulder had given away, taking the chorus with it, as picked up later was damaged as well. Working with Chorus to restore connection to the communities and constructing the services within another retaining structure.



## Tarmac

Tokawhero Road has been a mountain of work we laid on Tarmac. They have been doing a great job with the large under slips to stabilise the bank by retaining with rock walls and clear drains and culverts around the area. Although a small back road and mostly used by forestry, we aim to make it driveable and user friendly for the upcoming logging seasons. Aligning SME subbies and Ventia heavy metal team to follow with an overlay on some much needed road will help our network in the long run.

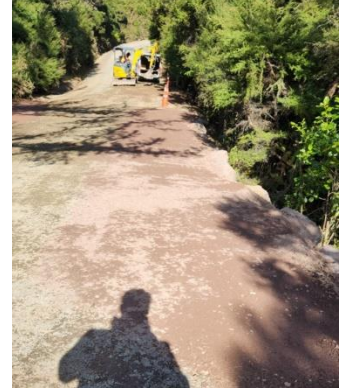
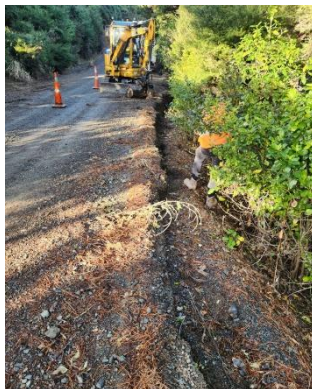


Before and after



### Pristine Projects

Our subcontractor team from Pristine Projects have showed their worth by delivering big and small jobs. They are also keeping truckies and plant hire services in the area busy by involving them with ongoing SME projects for Ventia. What more to say from the team clearing slips and side drains, relaying damaged culverts, and building rock spill retaining structures. All this work done on Pukewhao and Wharengaere Road.



We have already moved them onto our May 2023 events to assist with the damages on our network. Waikuku Rd, Hooks & Falls and Equestrian Dr Road have been getting attention and looking great. See below in that order.





## Far North Roding

Commenced with us on Happy Valley Rd in late July. Carrying out a large full width road drop and dealing to significant shoulder scouring and the deposit of aggregate at the bottom of the hill in paddocks.

## 8. ORDERED WORKS

As per last month most of the ordered works this month were phase 2 of the cyclone Gabrielle response, and Phase 2 of the May Rain event.

Some smaller ordered works were carried out:

- Crack sealing
- Fairly Crescent Rock Placement to stop 4x4 accessing >>



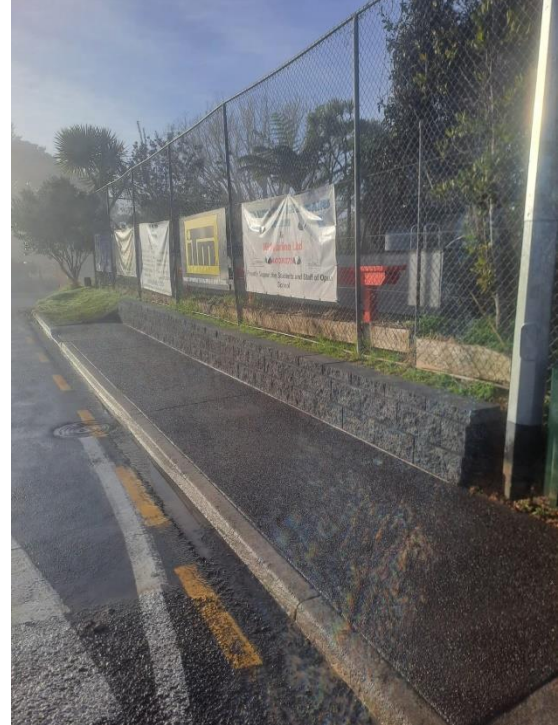
## 9. FOOTPATH MAINTENANCE/RENEWALS

The concrete crew have almost finished footpath renewals on Puia St and Ohara St in Ngawha Springs. They've had some big days and will pour close to 50m<sup>3</sup> of concrete in Ngawha by the end of the week and then head back to finish off Clifford St in Kaikohe. Note the taper on the paths is to fit old narrow paths into the new 1.8m wide spec.





Also, earlier in the month they knocked off this little safety project on Kellet St, Opuia. The job involved extending the footpath by installing a new Keystone wall and kerb drop down. All down during the School Holidays.



## 10. ROAD FURNITURE ACTIVITY

- 34 new signs installed or replaced (damaged or missing)
- 10 signposts replaced/new.
- 51 signs re-erected or straightened.
- 44 signs/posts cleaned.
- 243 posts painted.
- 14 metres of railing replaced.

## 11. UNSEALED NETWORK

The weather slightly improved for us in July with only 102mm of rain. We put running course on 21 different roads across the network and carried out pavement strengthening on Mill Rd, Range Rd, Curtis Rd and Tokawhero Rd.



Punakitere Loop Rd – Wash out repairs completed by the pavement team. Recently damaged in the June event (a localised bit of flooding washed the road shoulder away and blocked all drainage)



## 12. PAVEMENT REHABILITATIONS

A reminder that the confirmed sites for this coming season are as follows:



1. Ngapipito Rd 1850-3000m – Carry over – will commence early to mid-September depending on the ground conditions. At present there is a lot of water coming off the hills surrounding the pavement.
2. Cumber Rd 0-421m
3. Orakau Rd 14822-15050
4. Pipiwai Rd 12274-12610m

This month the test pits were completed, and beam testing carried out. This data will then be handed over to Ventia for us to complete the pavement design using Austroads.

## 13. RESURFACING

Although it's Winter our Sealing Team here at Ventia have still been a hive of activity completing Training, Plant Certification, Winter Maintenance, Pre-seal Site Assessments and Collecting Texture Data to prepare ourselves for the approaching Sealing Season in September 2023.

### Sprayer E2

This month we delivered our bitumen sprayer to Specialised Roding Equipment (SRE) in Hamilton to complete its annual E/2 Certification (SRE manufactured our Bitumen Sprayer).

An E/2 Certification is a "Bitumen Distributor Certification of Compliance" which covers legal. Safety and performance requirement and includes a rigorous annual safety inspection and performance test.

As part of the performance tests, the Bitumen Sprayer is checked to ensure that the "Spray bar" is set at the correct height (above the ground) and a Spray Test is completed to ensure that a Triple, Double and Single overlap are achieved across the bar when spraying. As per figure 10-4 below.

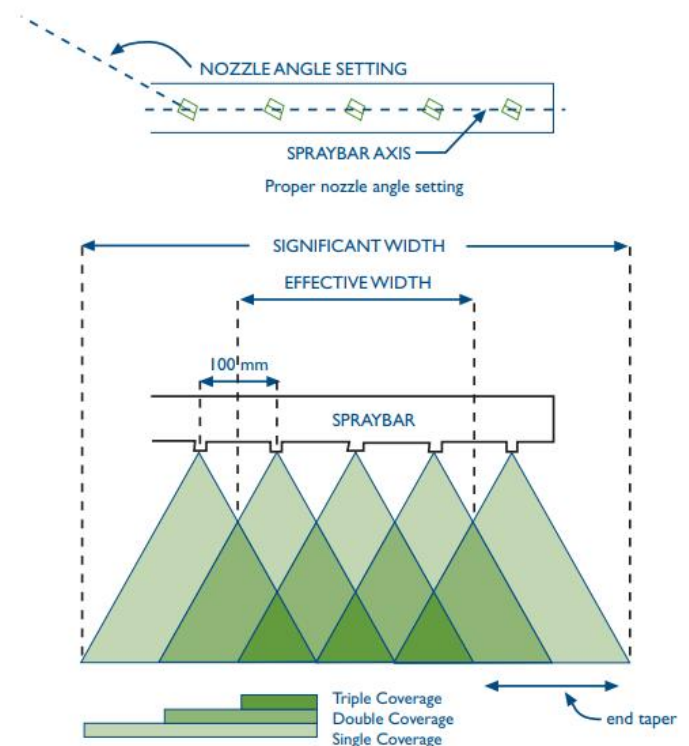


Figure 10-4 Spray fans overlap to give triple coverage of binder on the road.



This is photo below also shows a “Spray Test” being undertaken. This is generally completed inside a large shed, where the floor is covered in craft paper and a set of carpet mats are set in place across the top of the craft paper in a tee configuration. A predetermined spray rate is entered into the Bitumen Sprayer and the Sprayer completes a spray run over the paper. After the spray test has been completed, the carpet mats are weighed, based on the predetermined spray rate the mats should now weigh a specific weight. By weighing the mats the accuracy of the Spraybar can now be determined.



### Winter Maintenance

As part of our winter maintenance our bulk bitumen trailers have undergone internal tank cleaning, and our Bitumen Sprayer is having a ring-feeder fitted so it can now tow our 4-axle Bitumen Trailer.





## Site Assessments

All 69km's (135 Sites) of the FNDC 2023/2024 Reseal list have had their Pre-seal Site Assessments completed, and we currently working out way through 45kms (93 Sites) of the KDC 2023/2024 Reseal list.

A Pre-Seal Site Assessment includes:

- Marking the site
- Site measure
- Assessment of current seal type
- Determining the site priority, treatment selection and alternative treatment selection.
- Determining the site stress factors and existing distress factors.

PRE SEAL - SITE ASSESSMENT												
Client	FNDC			Job Number	123974908			Contract	Reseals 2023/2024			
Road Name	BISSET ROAD			Location	KAIKOHE URBAN							
Site #	156107		RP Start	14		RP End	470		Site Length	470 / 456		
Existing Surface	3/5		Stress Factors				Other Factors				Existing Distress Factors	
Proposed Treatment	3/5		Intersections	<input checked="" type="checkbox"/>			Overhead Lines	<input checked="" type="checkbox"/> LOW			Cracks	<input checked="" type="checkbox"/>
Alternative Treatment			State Highway	<input checked="" type="checkbox"/>			Overhead Trees	<input checked="" type="checkbox"/>			Flushing	<input checked="" type="checkbox"/>
Stockpile			High Stress Cnrs	<input checked="" type="checkbox"/>			Texture Changes	<input checked="" type="checkbox"/>			Rutting	<input checked="" type="checkbox"/>
Photo Taken	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No		Steep Grade	<input checked="" type="checkbox"/>			Shade	<input checked="" type="checkbox"/>			Stripping / Scabbing	<input checked="" type="checkbox"/> MINOR.
Early Start	<input type="checkbox"/> Yes / <input type="checkbox"/> No		Turning Heavies	<input checked="" type="checkbox"/>			Lichen / Moss	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/> MINOR.
Mail Drop	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No		Industrial Area	<input checked="" type="checkbox"/>			Road Marking	<input checked="" type="checkbox"/>				
Vacuum Truck	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No		Bus Route	<input checked="" type="checkbox"/>			Special Location	<input checked="" type="checkbox"/> SCHOOL ZONE				
Papering Required	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No		Railway Crossings	<input checked="" type="checkbox"/>			Coloured Surfaces	<input checked="" type="checkbox"/>				
			Stock Crossings	<input checked="" type="checkbox"/>			No. Driveways	<input checked="" type="checkbox"/>				
Driveway Area calc's on page 2												
SAND CIRCLE DATA												
RP	Displacement	Width	Area	OWT	BWT	IWT	C	IWT	BWT	OWT	Comments	
14		10.7										
60		10.5	457.6								HILLCREST RD	
100		10.4	418								RP 7 - RP 17	
150		12.0	560								HAROLD AVE	
170		14.4	264								RP 10 - RP 22	
200		14.4	432									
250		14.5	722.5									
300		14.6	727.5									
350		14.6	730								TAWANUI RD	
400		14.2	720								RP 922 - LP 942	
420		11.2	254									
470		11.6	570								END JOIN @ CULDES	
Carriageway Area			5855.6									Average Sand Circles
Driveway Area												
Widening Area			169.145									Average's for Seal Design
Total Area			6024.745									





## Hawkeye Texture Data

We have engaged Road Science to collect texture data across both the FNDC and KDC Reseal sites, and they have been working their way across both networks with their Hawkeye survey vehicles in July.

The Hawkeye survey vehicles use the latest in laser profiler technology to accurately and continuously record road and pavement information. This data is then related back to GPS or distance-based instruments. The laser profilers are Class 1 instruments (the most accurate type) and are able to measure texture in accordance with AG:AM/T013 and roughness in accordance with AG:AM/T001.



## 14. ROAD ACCIDENT REPORT

No accidents to report this month.

## 15. RAMM ISSUES



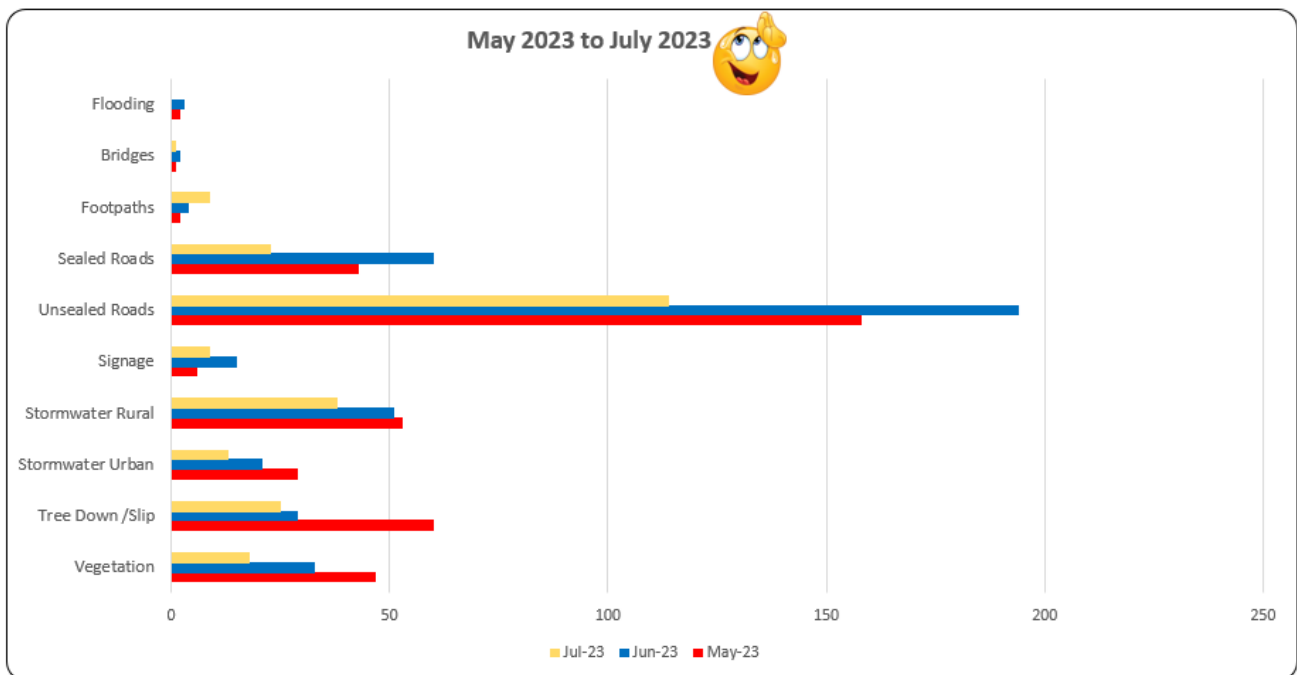
No issues this month – Any development & minor operational issues encountered in the system are being recorded to provide feedback to Think project each month.



# 16. CUSTOMER SERVICE ISSUES / COMPLAINTS

A welcome reduction in the number of requests received during July following two heavy months previously. Emergency RFS's remain a noteworthy component, the remainder of categories returning to "near normal" percentages.

Month	Vegetation	Tree Down /Slip	Stormwater Urban	Stormwater Rural	Signage	Unsealed Roads	Sealed Roads	Footpaths	Bridges	Flooding	Total
May-23	47	60	29	53	6	158	43	2	1	2	401
Jun-23	33	29	21	51	15	194	60	4	2	3	412
Jul-23	18	25	13	38	9	114	23	9	1	0	250



# 17. COMPLIMENTS

Just the one RFS compliment this month. Received on our RFS phone number on 6/7/23.

Good morning, Ventia have received your RFS regarding Pokapu Road. Confirming works were undertaken yesterday (interim emergency dispatch 156976), in addition restoring the carriageway structure itself, and associated drainage remedial works were completed. Your RFS will be updated with this response, if you require additional information please do not respond to this message, rather respond via the FNDC RFS system.

Incredible work thank you!



## 18. HEALTH & SAFETY & WELLBEING

We had a minor motor vehicle accident this month when a tail pilot vehicle backed up on our unsealed network while a car was driving through site. No injury and minor damage to the Ute and car.

See attached to this report email for the SHEQ stats for the month.

The themes from our Branch Toolbox held on 11<sup>th</sup> July at the Kerikeri Sports Complex were:

- Service locates and the need to keep accurate as built on site after excavating and locating the assets.
- Our 4 x safety reps had a chance to say things. One of them mentioned about the need to discuss medications that you are on that may inhibit your driving or ability to work around hazards. This will allow management to work around things with you.
- 3 of our 4 RAV 4s have arrived. Looking spick!
- Check your load after being loaded at a Quarry. Loaders have a habit of tipping onto one side making the load uneven. The Police are checking loads a lot at present.
- Social Media – Do not engage online with the public please. It only causes stress when you know you guys do an awesome job. The minority always complain, and we can't change that.
- Minor muscles sprain reported. Tinopai! Employee thanked and given a block of chocolate to promote this good behaviour. If sore let us know so we can help you.
- **Breakfast bar has started to promote healthy eating and hopefully will replace some of the energy drink habits first thing in the day. Please use and look after it. Fruit still being work on with local Organic orchard.**





We held our first Whanau Matariki Event this year and it was a great success. We even had our client turn up 😊 the bouncy castle was a hit but the marshmallows on the fire stole the show for all the kids. A nice potluck dinner rounded out the night and it was great to meet some of our teams Whanau that we don't get to see day to day at work.



## 19. TRAINING

It was a month of first aid and safety training in July. 30 staff put through Level 2 (2-day course) First Aid training including myself. It was a great course run by St Johns. A lot of our staff didn't realise we have a defib on the outside of our office. Whoops from me on this! But now they do.





At our toolbox certificates were handed out to this lovely bunch for completing the Bitumen Safe Handling Course. A vital course for anyone wanting to get within 5m of a bitumen machine. Apologies for the lighting it was a red in the morning Shepards warning kind of day. Yes, it did rain, so the legend is true.



## 20. ENVIRONMENT

In June we had no notifiable incidents to report.

As mentioned last month we have 4 x RAV4 **Hybrid** arriving this month replacing 4 of our diesel Utes. While Utes are still a necessary machine for some applications where possible we are trying to reduce our emissions as much as possible. These Hybrids are being given to our 3 highest Km employees. A supervisor and both the sealed and unsealed inspectors.





## 21. SMALL TO MEDIUM ENTERPRISE (SME) BUSINESS ENGAGEMENT

Sorry I still haven't got to reviewing the figures from 22/23 season. Promise it will be in the August report.

Measurement	Qty
Local Contractor component of work	49%
Internal salaries and wages (Generally invested back to local communities)	\$3,122,576.79
Local labour hire wages	\$ 387,528.53
Other internal local market expenditure e.g., local supplier purchases etc. Includes local Ventia Quarry purchases	\$ 6,839,454.22

## 22. ANNUAL ROUTINE ACTIVITY ACHIEVEMENT

Routine and cyclic rounds start at the financial year (July 2023/24):

<b>Biennial Painting of All Rails</b>	<b>0%</b> completed - on hold due to funding.
<b>Biennial Parapet Painting of Bridges</b>	<b>0%</b> completed - on hold due to funding.
<b>Annual Cleaning of EMP's</b>	<b>0%</b> complete
<b>Annual Sucking of All Sumps</b>	<b>0%</b> complete
<b>Biannual sweeping</b>	<b>0%</b> completed.
<b>Urban Vegetation Spraying</b>	<b>0%</b> complete.
<b>Rural Vegetation Spraying</b>	<b>0%</b> complete.
<b>Line marking Network Remark</b>	<b>0%</b> complete.



## 23. OTHER WORK IN PROGRESS

The Construction team stayed on course with the delivery of our projects as per below:

Pokapu Road Bridge Construction – And just like that, we have a bridge!!! Or at the least the majority of one. It's fitting that we just had Matariki. You can use a multitude of references here: A new year, a new bridge, it was written in the stars, the stars aligned, maybe even thank your lucky stars. However you want to say it, all beams have been successfully placed.

The process was not without its own set of trials and testing moments, but in the end, with some good problem solving, some hard work put in by the crews and a small amount extra grey hair for Jaco, the goal was achieved. A big milestone to get through so well done to everyone.

Over the next couple of weeks, work on the bridge will involve getting the infills completed and the settlement slabs boxed and poured, and more steelwork. Pavement construction on the bridge approaches and then the opening of the new Bridge in October.





## 24. AROUND VENTIA

A bit of a teaser - A new section from next month showing what is happening around other parts of Ventia from a technical point of view or maybe storm response or Asset management. Watch this space.

Nga Mihi

Jamie Kitzen

Contract Manager – FNDC South Maintenance Ventia (NZ) Ltd