



Rangitikei District Council

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Rangitikei
UNSPOILT...

Turakina Community Committee Meeting

Order Paper

Thursday 3 December 2015, 7.30 pm

Ben Nevis Hotel, State Highway 3, Turakina

Website: www.rangitikei.govt.nz

Email: info@rangitikei.govt.nz

Chair

Stephen Fouhy

Membership

Kathleen Bayler, Alastair Campbell, Laurel Mauchline Campbell, Nicholas Eagland,
Carol Neilson, Denise Wallen, Shona Welsh
His Worship the Mayor, Andy Watson, (ex officio)

Councillors Soraya Peke-Mason and Lynne Sheridan

Please Note: Items in this agenda may be subject to amendments or withdrawal at the meeting. It is recommended therefore that items not be reported upon until after adoption by the Council. Reporters who do not attend the meeting are requested to seek confirmation of the agenda material or proceedings of the meeting from the Chief Executive prior to any media reports being filed.

Rangitikei District Council

Turakina Community Committee Meeting

Order Paper – Thursday 3 December 2015 – 7:30 p.m.



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The quorum for the Turakina Community Committee is 3.

At its meeting of 28 October 2010, Council resolved that “The quorum at any meeting of a standing committee or sub-committee of the Council (including Te Roou Ahi Kaa, the Community Committees, the Reserve Management Committees and the Rural Water Supply Management Sub-committees) is that required for a meeting of the local authority in SO 2.4.3 and 3.4.3.

1 Welcome

2 Apologies

3 Confirmation of minutes

Recommendation

That the Minutes of the Turakina Community Committee meeting held on 1 October 2015 be taken as read and verified as an accurate and correct record of the meeting.

4 Council decisions on recommendations from the Committee

There were no recommendations from the Committee presented to Council's meeting on 29 October 2015.

At its meeting 29 October 2015, Council resolved, having considered submissions (including the oral submission by Nicholas Eagland) that the Animal Control Bylaw be amended by excluding Turakina properties zoned residential from the urban area restrictions.

5 Update on leachate disposal from Bonny Glen

Two reports originally provided to the Assets/Infrastructure Committee in August and October 2015, are attached for information.

6 Council responses to queries at previous meetings:

There were no queries presented to Council's meeting on 29 October 2015.

7 Small Projects Grant Scheme

It was agreed the use of this be held until after the place-making workshop.

8 Current infrastructure projects/upgrades and other Council activities

A memorandum is attached.

File Ref: 3-CC-1-4

Recommendation

That the memorandum 'Current Infrastructure Projects/Upgrades and Other Council Activities in the Turakina Ward' be received.

9 General Business

10 Discussion on previous meeting

11 Next meeting

4 February 2016, 7.30 pm

12 Meeting closed

Attachment 1



Rangitikei District Council

Turakina Community Committee Meeting

Minutes – Thursday 1 October 2015 – 7:30 p.m.

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The quorum for the Turakina Community Committee is 3 plus one elected member of Council

At its meeting of 28 October 2010 Council resolved that 'The quorum at any meeting of a standing committee or sub-committee of the Council (including Te Roopu Ahi Kaa, the Community Committees, the Reserve Management Committees and the Rural Water Supply Management Sub-committees) is that required for a meeting of the local authority in SO 2.4.3 and 3.4.3.'

Present: Mr Steve Fouhy (Chair)
Mr Alistair Campbell
Mr Nick Eagland
Ms Laurel Mauchline Campbell
Ms Denise Wallen
Cr Soraya Peke-Mason
Carol Neilson
Shona Welsh

1 Welcome

The Chair welcomed everyone to the meeting.

2 Apologies

Nil.

3 Confirmation of minutes

Resolved minute number 15/TCC/011 File Ref 3-CC-1-4

That the minutes of the Turakina Community Committee meeting held on 6 August 2015 be taken as read and verified as an accurate and correct record of the meeting.

L Mauchline Campbell / D Wallen. Carried

4 Matters Arising:

- Kathleen Bayler's name to be removed from membership of Turakina Community Committee.
- Contact not yet made with School Friends and Whanau group.
- The winning tartan pattern was tabled by L Mauchline Campbell.

5 Proposed Amendment to the Animal Control By-law

Following a meeting held at the Rangitikei District Council office, the Turakina Community Committee sent a letter requesting a specific exemption for Turakina Village from the residential requirements of the Animal Control By-law.

The letter was discussed at full Rangitikei District Council meeting, resulting in Council agreeing to consult with affected persons in Turakina. A call for expressions-of-interest from other small district settlements for the same exemption is to be advertised.

Consultation letters will go to owners/occupiers of affected properties and advertising for other settlements to express interest in similar process.

Turakina Community Committee agreed to hold a public meeting on **8 October, 2015**, at **7.30 p.m.** in the Ben Nevis. Rangitikei District Council (Katrina) to be contacted to include this in a letter to residents.

A representative from the Rangitikei District Council will be invited to attend.

6 Rezoning of Turakina in the operative District Plan – opinion from Community Law Office

Before the Turakina Community Committee could send the letter agreed to during the August meeting, contact was made with the Turakina Community Committee Chairperson by Rangitikei District Council staff, resulting in a meeting.

A comparison of the various zone designations was tabled by L Mauchline Campbell.

The major impact is seen as the implications of the Animal Control By Law. Members said if this was solved, rezoning may not be necessary.

Thanks were expressed to N Eagland and L Mauchline Campbell for their work on this issue.

7 Update on leachate disposal from Bonny Glen

There was no update received. Cr Peke-Mason said Rangitikei District Council is working to improve the treatment plant.

Rangitikei District Council will be asked for an issue update for the next Turakina Community Committee meeting in December (email copy to members).

8 Place-making in Turakina

Discussion on what “Place-making” actually is. A facilitated workshop has been proposed for 17 January 2016 (a Sunday). Groups to be included could be:

- Caledonian Society
- Play Centre
- Churches
- School
- Tennis Club
- Local businesses
- Koitiata Board

The cost of the workshop is covered District-wide.

Once a date is confirmed, an invitation will be sent to appropriate groups/organisations.

Resolved minute number	15/TTC/012	File Ref	1-CP-7-5
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That the Turakina Community Committee supports David Engwicht running a place-making process in Turakina in January 2016 and would be prepared to lead the process of community engagement.

A Campbell / L Mauchline Campbell. Carried.

9 Small Projects Grant Scheme

It was agreed the use of this be held over until after the Place-making workshop.

10 Current infrastructure projects/upgrades and other Council activities

The Government has come up with some money.

Rangitikei District Council is working with Whangaehu residents.

Horizons Regional Council is working on roads, especially near Tunnel Hill.

Resolved minute number	15/TCC/013	File Ref	3-CC-1-5
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That the memorandum "Current infrastructure projects/upgrades and other Council activities in the Turakina Ward" be received.

S Fouhy / D Wallen. Carried.

11 General Business

Rubbish Bags

S Welsh received approval for a supply of rubbish bags - not yet received. To be followed up with Rangitikei District Council.

Tranzit Signs

Cr Peke-Mason advised Tranzit no longer tidy up around their signs (i.e.: 70km/h signs at either end of village). Perhaps something could be done following the Place-Making workshop.

Corner garden

Cr Peke-Mason said she has permission to take the fence down, if needed.

12 Next meeting

The next meeting to be held on Thursday, 3 December 2015, 7.30 pm; at the Ben Nevis Hotel.

13 Meeting closed – 8.40 pm

Confirmed/Chair: _____

Date:

Attachment 2



Rangitikei
Especially...

REPORT

SUBJECT: Marton Wastewater Treatment Plant - update as at 5 October 2015
TO: Assets/Infrastructure Committee
FROM: Joanna Saywell, Utility Asset Manager
DATE: 6 October 2015
FILE: 6-WW-1-4

1 Executive Summary

1.1 Purpose of the report

The purpose of this report is to update Council on progress on the work that is planned to address compliance issues at Marton wastewater treatment plant (WWTP), including the effect of the Bonny Glen landfill leachate on the Plant.

2 Current Status

2.1 Bonny Glen – Progress with Pre-treatment

Midwest Disposals at Bonny Glen have reported limited success in up-scaling their colour removal technology. Removal of colour does not remove any of the ammonia or metals but can reduce BOD and improves the treatment process in the ponds at Marton WWTP by allowing more light into the ponds. They have trialled a number of polymers to aid in clarification but have not found one that will achieve the colour removal at the flow rates required.

They report that they are progressing with the full treatment options with their process designers who are about to build a pilot plant in Belgium before they commit to full scale installation. If this is as successful as it is claimed then there should be no issues with disposal into waterways at the landfill (they have received a list of criteria from Horizons on acceptable discharge limits).

Midwest Disposals are also exploring the options for disposal of the leachate to other treatment plants outside Rangitikei (subject to acceptance by another plant) and this may be the only option for them if they cannot get their treatment processes in place before the end of June 2016.

To summarise, Bonny Glen won't have removal of colour in place this month but still hope to have processes in place to remove the majority of the ammonia and colour by June 2016.

2.2 Metals in the Tutaenui Stream Sediments

Samples of sediment were tested in the Tutaenui Stream to determine if there were elevated levels of any metals over and above normal background levels.

The results were tabled at the meeting in August and all metals were below ANZECC Guidelines for low risk of effects with the exception of chromium which is elevated below the plant discharge point. There are two different forms of chromium and so it is necessary to analyse this further to determine whether or not this should be of concern and if so the extent.

2.3 Horizons Site Visit Report

Horizons inspected the plant on 30 August 2015 and their corresponding report indicated that the site **Fully Complies** with the requirements of resource consents 7312 and 7313 for the current reporting period. A report on instream macroinvertebrates is required by the end of October 2015 and this is currently being prepared by an external consultant.

3 Proposed Upgrade Works

3.1 Community Engagement and Focus Group

The Mayor, Deputy Mayor and Chief Executive are currently considering the composition of the Focus Group. At this stage its terms of reference are being established and issues discussed.

4 Proposed / Indicative Programme

Proposed works	Responsibility	Budget	Current Indicative Completion date
Work at Bonny Glen Landfill			
Pre-treatment to remove colour	Midwest Disposals	N/A	December 2015
Pre-treatment to reduce nitrogen to Trade Waste limits	Midwest Disposals	N/A	July 2016
Work at Marton WWTP			
Tanker disposal and turning facility	RDC	\$160,000	December 2015
Installation of onsite tanks for septic waste (Midwest Disposals)	RDC	\$60,000	December 2015

to pay for additional storage tanks for leachate)			
Inlet works	RDC	\$100,000	March 2016
Up-grade existing or addition of another anaerobic pond - Design - Specification, contract - Construction	RDC	\$1,000,000	Feb 2016 June 2016 July 2017
Flow monitoring and control systems	RDC	\$150,000	July 2017
De-sludging of the existing anaerobic pond	RDC	\$300,000	Oct 2017
improved aeration	RDC	\$100,000	July 2018
Final filtration systems	RDC	\$1,500,000	July 201
Application for a new consent lodged	RDC	\$200,000	Sept 2018
Consent hearing etc.	RDC	\$300,000	Mar 2019

5 Recommendations

- 5.1 That the report 'Marton Wastewater Treatment Plant - update as at 5 October 2015' be received.

Joanna Saywell
Utilities Asset Manager



Rangitikei
UNUSPOLLT...

REPORT

SUBJECT: Proposed Improvements to Marton Wastewater Treatment Plant

TO: Assets/Infrastructure Committee

FROM: Joanna Saywell, Utility Asset Manager

DATE: 29 July 2015

FILE: 6-WW-1-4

1 Executive Summary

1.1 Purpose of the report

The purpose of this report is to update Council about the work that is planned to address compliance issues at Marton wastewater treatment plant (WWTP), including the effect of the Bonny Glen landfill leachate on the Plant.

The existing consent for the treatment plant is due to expire in 2019 and therefore the plant not only needs to be fully compliant with current consent conditions but will need to be able to demonstrate that it can meet any anticipated new conditions that may be imposed.

Currently the Marton WWTP discharges treated effluent into the Tutaenui Stream. At times the stream has little flow and therefore the effluent from the plant makes up a large proportion of the flow.

2 Context

2.1 Background

John Crawford, Technical Principal – Wastewater, Opus International Consultants Ltd was engaged to review the current inflows of raw effluent into the Marton WWTP, determine the effect of the Bonny Glen landfill leachate relative to the total inflows, and provide an assessment of the effect of that leachate on the overall operation and compliance of the WWTP. This report was presented to Councillors in March this year.

The report recommended that the Bonny Glen owners/operators, Midwest Disposals Ltd, pre-treat the leachate at the landfill to remove as much of the ammoniacal nitrogen as possible and remove the colour.

Concerns have been raised that the dissolved heavy metals in the leachate may pass through the plant and have an effect on the Tutaenui Stream. Samples of

water in the Tutaenui Stream were tested for heavy metals and there was no discernible difference in levels above and below the treatment plant outfall. This indicated that any heavy metals are being retained within the WWTP.

Further testing has been undertaken of the sediments in the Tutaenui Stream to confirm whether or not there are elevated levels of metals in the sediments downstream of the plant and if so the extent of the effect. The results of this testing are expected to be available by mid-August 2015.

2.2 Domestic Loading at the Marton WWTP

The Consultants have confirmed that the Marton WWTP is designed to cope well with domestic sewage and should be able to meet current consent conditions if left in a steady state.

Tankered septic tank waste is currently deposited into the sewer in Marton, but over time this has caused issues in the trunk main upstream of the WWTP. When sewage turns septic it releases hydrogen sulphide, forming sulphuric acid which is corrosive to concrete pipes. Sections of the trunk main and manholes are showing signs of acid attack and twenty metres of pipe had to be replaced recently, as an emergency repair, even though the pipe was less than fifty years old.

Septic tank waste is more difficult to treat than domestic sewage as it is deficient in oxygen. Septic waste entering the plant as a single slug can clog milliscreens and affect the ability of the ponds to function.

2.3 Trade Waste

The Marton WWTP accepts trade waste from several businesses in Marton and tankered leachate from the Bonny Glen landfill. The leachate in particular, includes high concentrations of ammoniacal nitrogen and is highly coloured. The wastewater treatment plant at Marton is currently not configured to remove large quantities of nitrogen or colour and the high colour and quantity of suspended solids affects the ability of the plant's UV sterilisation system to perform effectively.

Council officers met with Paul Mullinger of Midwest Disposals on Wednesday the 22nd July 2015 and discussed pre-treatment proposals at the landfill and improvements at the Marton WWTP to enable effective monitoring and control of the leachate.

Trade Waste licences are in place with other trade waste customers in Marton.

Most of the trade waste in Marton derives from food industries with high calorific and nitrogen content. There is also a significant volume of fat and grease washed down the sewer reticulation.

Currently there is limited monitoring of Trade Waste from commercial and industrial sites and the fees charged do not cover the additional costs involved in effective treatment.

Further work is underway in capturing data on trade waste and ensuring that licences are in place and effectively monitored for all such customers. If all tankered waste is deposited at the WWTP it can be tested prior to mixing and appropriate fees applied.

3 Proposed Leachate Treatment

3.1 Pre-treatment of Leachate at Landfill

Opus Consultants Ltd recommended limits be placed on the leachate being received at the Marton WWTP in line with RDC's Trade Waste acceptance criteria. These limits were sent to Midwest Disposals so that a pre-treatment facility can be designed and installed at the landfill.

So far Midwest Disposals have conducted trials to remove the colour from the leachate. They have undertaken to install appropriate treatment, at the landfill, so that they can achieve successful colour removal within three months (i.e. by the end of October). Removing the colour will also reduce the Biological and Chemical Oxygen Demand (BOD/COD) of the leachate and make treatment at the Marton WWTP plant more effective.

Midwest Disposals are currently exploring a number of technologies to aid in the removal of nitrogen. This is likely to be considerably more difficult than the removal of colour and will necessitate the design and installation of site specific processes following the colour removal. It is estimated that the construction of the process will take approximately eight months to complete.

Midwest Disposals have undertaken to install effective treatment at the landfill to ensure that their treated leachate will meet RDC's Trade Waste acceptance criteria by July 2016.

3.2 Leachate Disposal at Marton WWTP

Currently leachate is tankered to Marton and deposited into the reticulation in a manner to try and maximise mixing prior to it reaching the treatment plant. This is deposited into the sewer system in Marton at the same place as septic tank waste. Since it is deposited rapidly from a tanker it can result in a shock load on the WWTP. This limits the ability of the process to effectively treat the incoming leachate.

However, it is now proposed that the pre-treated leachate be deposited at the treatment plant into storage tanks and then pumped out into the inlet works as a controlled discharge so as to eliminate any shock loadings.

Part of the up-grades proposed at the Marton treatment plant includes the installation of a small holding tank to take waste from septic tanks. This approach will allow for the septic tank waste to be introduced into the inlet flows at a slow rate that reduces the impact on the effective operation of the plant. This system has been shown to work well at other plants that accept a high proportion of septic tank waste.

Midwest Disposals will provide additional tanks (at their cost) for storage of the pre-treated leachate so that it can be introduced to the plant in the same controlled manner. This approach will enable pre-treated leachate to be tested prior to its introduction and mixing with incoming domestic sewage.

4 Proposed Upgrade Works

4.1 Long Term Plan (LTP)

Funding has been allocated in the 2015-25 LTP for the capital (CAPEX) upgrade of the Marton WWTP.

Most of the work was put on hold until the effects of the leachate, and possible means of treatment, had been determined. These works assume that the pre-treatment of the leachate will be successful and will reduce the leachate contaminants to acceptable levels.

In the next few years this funding allows for:

- a) the installation of a small inlet tank and associated tanker turning facility; (to accept tankered waste at the plant, so that septic tank waste and leachate can be collected and pumped into the inlet without affecting upstream pipework or damaging the process at the plant)
- b) improvements to the screens at the inlet, including the removal of the in ground weir structure on the incoming main, (the buried weir collects any gravel and heavy solids in the main causing blockages and contributing to surcharging in the town)
- c) the addition of another anaerobic pond (the existing pond has worked well at reducing BOD, with an estimated 30% removal rate, but there are issues with the existing pond in terms of short circuiting and occasional gas emissions through the floating wetland in the summer), the second pond is currently being designed to suit the proposed inlet works and to enable the existing pond to be taken off-line as necessary for desludging, (anaerobic ponds are excellent for reducing BOD and are well suited for treating waste from food type industries)
- d) de-sludging of the existing anaerobic pond to reduce the current short circuiting, (this is likely to generate a high amount of odour, particularly

if it needs to remain in service during de-sludging and hence needs to be done after the second anaerobic pond has been constructed)

- e) subject to more detailed review once the leachate pre-treatment has been fully installed

Following completion of the pre-treatment work at Bonny Glen Landfill, the remaining works allowed in the budget, are as itemised below. These will be reviewed and designed and installed as necessary if the plant is still not meeting current consent requirements

- f) improved aeration of the main ponds by the installation of extra aerators, (note that Opus have suggested that more aeration may turn the ponds into a suspended growth reactor)
- g) design and installation of improvements to the final filtration systems (e.g. tube settlers and flocculation tanks) in the plant to reduce nitrogen and phosphorous (mainly associated with Marton's other trade waste customers), (this is also proven technology, but may not be needed if the total loadings on the plant are substantially reduced by the improvements to the leachate
- h) replacement/up-grade of flow monitoring and control systems to keep pace with technology up-grades and ensure that all data is collected in accordance with the current resource consent, and
- i) Preparation of an application for a new resource consent with any associated minor improvements to or monitoring of the process to meet likely consent requirements.

The budgets also allow for improvements following granting of the resource consent but these are entirely dependent on the outcome of the consent process and are therefore not mentioned here.

4.2 Legal issues

The acceptance of leachate from Bonny Glen impacts on Council's ability to ensure sustained compliance with resource consent requirements for the Marton WWTP.

There is currently no formal arrangement in place covering the acceptance of leachate from Bonny Glen. The draft Trade Waste limits (see [Appendix 1](#)) sent to Midwest will be used to prepare a Trade Waste Licence. It is proposed that the licence will be worded to allow a staged improvement in effluent quality with the aim of adequate pre-treatment at the landfill and full compliance monitoring at the WWTP by July 2016. The trade waste licence will enable Council to effectively control the receipt of leachate, including its quality, and

enable the recovery of all costs associated with receiving and treating the leachate.

4.3 Proposed Community Engagement and Focus Group

There has been considerable public interest in the operation of the Marton WWTP and the potential effects of the treated effluent discharge on the Tutaenui Stream.

Concerns have been raised that the dissolved heavy metals in the leachate may pass through the plant and have an effect on the Tutaenui Stream. Samples of water in the Tutaenui Stream were tested for heavy metals and there was no discernible difference in levels above and below the treatment plant outfall. This indicates that any heavy metals present in the leachate are being retained within the WWTP. Further testing has been undertaken of the sediments in the Tutaenui Stream to confirm whether or not there are elevated levels downstream of the plant, and if so the extent of the effect. The results of this testing are expected by mid-August.

It is proposed that the upgrade of the Marton WWTP follow a similar community engagement process as has been followed with other major upgrade projects, such as the recent Marton water treatment plant upgrade. This will include a project communications plan that incorporates regular community updates at key milestone points in the upgrade process. Also proposed is the establishment of a Focus Group to help provide community oversight and guidance to the project. The focus group would comprise a cross-section of community representatives, including Iwi, and its membership confirmed by the Council. Subject to Council endorsing the proposed scope and timing of the Marton WWTP upgrade, the process of forming the Focus Group can proceed.

5 Proposed Programme

Proposed works	Responsibility	Budget	Indicative Completion date
Work at Bonny Glen Landfill			
Pre-treatment to remove colour	Midwest Disposals	N/A	October 2015
Pre-treatment to reduce nitrogen to Trade Waste limits	Midwest Disposals	N/A	July 2016

Work at Marton WWTP			
Tanker disposal and turning facility	RDC	\$160,000	November 2015
Installation of onsite tanks for septic waste (Midwest Disposals to pay for additional storage tanks for leachate)	RDC	\$60,000	December 2015
Inlet works	RDC	\$100,000	March 2016
Up-grade existing or addition of another anaerobic pond - Design - Specification, contract - Construction	RDC	\$1,000,000	Sept 2015 Nov 2015 July 2017
Flow monitoring and control systems	RDC	\$150,000	July 2017
De-sludging of the existing anaerobic pond	RDC	\$300,000	Oct 2017
improved aeration	RDC	\$100,000	July 2018
Final filtration systems	RDC	\$1,500,000	July 201
Application for a new consent lodged	RDC	\$200,000	Sept 2018
Consent hearing etc.	RDC	\$300,000	Mar 2019

6 Recommendations

- 6.1 That the report 'Proposed Improvements to Marton Wastewater Treatment Plant' be received.
- 6.2 That the Assets/Infrastructure Committee endorses the proposed approach for the ongoing acceptance, management and treatment of leachate from Bonny Glenn landfill, and the proposed programme for the improvement works at the Marton Wastewater Treatment Plant, including obtaining the necessary new resource consents for the continued operation of the Plant.
- 6.3 That the Assets/Infrastructure Committee endorses the establishment of a focus group made up of community representatives to provide oversight and guidance on the Marton Wastewater Treatment Plant upgrade, and that final membership of the focus group be determined by Council.

Joanna Saywell
Utilities Asset Manager

Attachment 3



MEMORANDUM

TO: Turakina Community Committee

FROM: Alyssa Takimoana

DATE: 25 November 2015

SUBJECT: **Current Infrastructure Projects/Upgrades And Other Council Activities In The Turakina Ward**

FILE: 5-CC-1-4

Roading and Footpaths

- 1 Footpath renewal of the bridge to beach Road (450m) the design has been completed. Tendered for early December 2015.
- 2 Turakina Valley Road 3: Majuba Bluff will be widened in conjunction with flood damage repair work. Scoping is 50% complete, due to go to tender in early December 2015.

Community and Leisure Assets

- 1 Turakina repair and re-metal access road to Dudding Lake: Scoping is underway and due to be completed by the end of October. Timing for the work will be in consultation with Dudding Lake Ltd.

Recommendation

That the memorandum 'Current Infrastructure Projects/Upgrades and Other Council Activities in the Turakina Ward' be received.

Alyssa Takimoana
Office Assistant