

## Minutes

### **Redvale Landfill Community Liaison Committee Meeting Held at the Redvale Landfill Office Monday 16/06/14 at 7.00pm**

Present: M Kunzli, J McLean, M Bradshaw, N Donovan, M Drury, A Vosper, D Hardy, B Gibbs  
R Sorensen, K Storie, R Bailey, C Wills, M Kennedy

Apologies: Debbie Marshall, Stephen Walker, Bill Earwaker, Fiona McKenzie – Manuhiri  
Kaitiaki Charitable Trust, Richard Croker.

*Apologies accepted: J McLean*

*Seconded: M Bradshaw*

Minutes of previous meeting: Circulated prior to meeting.

Matters arising:

- J McLean explained email request to lower speed limit on Horseshoe Bush Rd from M Hunt and that he and the Council are now aware this is an issue. Other members also agreed this issue requires some attention and that something should be done to lower the current limit.

Correspondence: Nil

**Operations Report** – presented by R Bailey

#### **Disposal/Managed Fill/Site Development/Energy/Stockpile 6**

- We have started filling over PH 18 heading West and South over existing haul road at RL 90, moving southwards towards the centre of the site away from HSB Rd.
- Plan includes constructing a road on Northern limit to allow operations access to fill from the top at RL100.
- There has been an increased tonnage over the past few months which has utilised additional airspace. The completion of 17D side liner work has allowed us to continue to fill at RL 90 for several months.
- The de-silting of the storm water ponds has been completed for the winter. We de-silted the pond by pad 1, the sediment ponds which lead to pond 1 and also the wheel wash pond.
- Final cover work on the eastern batter has been completed for the winter. Thickened cover went into this area also. The area will be planted. It was mulched and grass seeded in May. Further work will be completed there next summer.
- Gas line works have been completed on the Eastern perimeter main.

- Flare #1 will be undergoing a refurbishment program of the lining and the Leachate Evaporator System. The LEU will be offline for two weeks while this work is completed.
- The Energy Park Services Building interior fit out is underway. Planning to relocate the Gas Team to the new building by Mid August.
- Generator One is being re-commissioned in July.
- The landfill road intersection has been recontoured, elevated and CAP 40 metal has been placed on the main haul road to the Landfill and also to the Managed Fill. This is to aid the trucks when driving in wet conditions, improve internal drainage, and will reduce mud/sediment tracking into and beyond the existing wheelwash system.
- The Managed Fill has been very busy since the last meeting; it is now free draining into the pond system and we have started the second lift.
- With the onset of winter, the focus is on operating the landfill safely in wet, foggy conditions. Other works planned are to concrete line some road side drains and the installation of “rumble strips” after the wheel wash, to aid the removal of mud before trucks leave site.

R. Bailey explained pond clean out & evaporator operation.

**Complaints:** Circulated and discussed list of complaints.

The biggest concern was the more recent surging whining noise being felt by residents of Richards Rd. B Gibbs stressed his concern over living and dealing with the noise issue and feels nothing is being done about it. He would like to know when in the last 5 years has the noise been tested as any past tests, if any during this time have not been recorded in any minutes. When wind comes from Landfill (NE) it drives the noise higher. Current tests can only be done in certain weather conditions which is not going to be a true and accurate record of the actual noise residents can hear. R Sorensen reported he is situated where there is barely any wind and is subject to noise from the generators regularly – and agreed it was a surging whining noise from the Flare rumble.

Residents in Richards Rd have experienced vibrations recently. A Vosper explained this was related to a power outage, cause which was associated with the recommencement of the flares. See attached detailed explanation.

A Vosper reported that additional points at Richards and Tender Rd are being monitored and that a detailed assessment is being undertaken by Marshall Day. TPI are obligated under consent to review noise levels before any further generators are to be installed. Noise can only be monitored on certain days when conditions are right. Any engineering work to lower noise levels would be at the point source within the generator area.

Some of the noise may be from the Blowers. A new Blower is being installed in a couple of months which may help.

**Regulatory Issues:**

N Donovan has checked the Managed Fill and noticed the floc shed – this was a consent requirement.

Stockpile requires some minor work.

Council has received documentation for monitoring well and now additional monitoring required for leachate levels.

Reminder to get Regulatory issues into the council e.g. noise, odour, litter etc.

N Donovan forwarding Council contact to B Gibbs.

## Current issues

**Property:** Currently applying for resource consent for two sub divisions at 194 Horseshoe Bush Rd.

**Generation noise update:** see complaints.

**Time extension consent renewal update:** Submissions in, parties notified, prehearing meeting held on Thursday 29<sup>th</sup> May which was very well attended by both residents including several Liaison Committee members and Waste Management staff.

Issues raised were taken on board and Council to produce minutes in coming days. Hearing date scheduled for last week of July and Panel of independent commissioners to be appointed in the next few days.

## **General Business:**

- J McLean advised of current planning with Council regarding traffic congestion affecting those in the Dairy Flat Community commuting south towards Albany and the city. Design is out for tender over the next two months and money to be committed in the next financial year.
- While not strictly a landfill issue it was commented that there are more and more clean fills opening in the area. It was agreed that these are an eye sore and there are concerns over the control of how many are around and the process that a land owner must go thru to gain consent. This is also causing more truck movements and damaging the current state of the roads further. There are also issues about how 'clean' a fill is and on long term contamination and low stability. J McLean has taken on board these concerns.
- Newsletter is overdue due to time issue and delivery; however Rural Delivery driver maybe appointed to deliver in the short term. Local groups need to commit to a longer term e.g. 1 to 2 years.  
M Bradshaw reported that Dairy Flat School would find it difficult to gain long-term commitment from families.  
Orewa School Hockey team have expressed interest and would commit to the remaining three newsletters for the year to deliver as a fundraiser for a special event.
- R Sorensen queried harvesting of trees over the back and would like to see reinstatement of trees if Time Extension Renewal consent is given. It was reported by members that harvesting of trees creates an eye sore and there would be eradication issues of undesirables such as Gorse, Pampas and even Toi Toi growing in cleared areas.  
C Wills said the trees in the particular area concerned are slow growing and may not need to be harvested for another 30 years but the land is perfectly grazeable should the area be cleared.
- Sale of TPI to Beijing Capital Group has been confirmed and new company name to follow in coming days.
- M Kunzli asked if Liaison Committee serves a reasonable and useful purpose/forum and if not how do we get to the point where we are.  
M Bradshaw said the school has found the meeting very useful and feels it serves its purpose as both representatives who attend can pass information on to others.

B Gibbs agrees it serves its purpose but Tender Rd representation would be of importance. WM has invited Tender Rd residents to attend in the past, but no interest. M Kunzli to also put invitation out to relevant parties.  
N Donovan & M Drury felt the meeting was a good forum for open discussion.

- Suggestion made that a Landfill/Energy Park Open Day to be discussed further as a possible run on from the School's Ag day.
- Dairy Flat School Zoning – D Marshall & N Donovan have meet with consultants regarding school zoning as Silverdale are increasing class numbers very quickly due to larger zone. DF School would like to see Pine Valley and Still Water areas included in their zoning as funding for classrooms and services such as pedestrian access and more buses has been approved to cater for increase in class numbers. Future plan maybe to focus on catering to year 6 as numbers down for years 7 & 8. Numbers currently at 300 and could go to 600, any more would require waste water expansion.
- A Vosper reported that an environmental program is to be looked at in the future including community involvement with tree planting in the area.

Meeting Finished: 8.50pm

Next meeting date: Monday 20<sup>th</sup> October 2014, starting with a Landfill tour at 7pm.

**SUMMARY OF COMPLAINTS**  
1st March to 31st May 2014

Date	Complaint	Complaint Location	Day	Time of Incident	Wind	Comments
4/03/2014	Odour	100 HB Rd	Tue	12:10pm	S/SW	No odour detected at time of visit of 12.25pm
10/03/2014	Litter	DF School	Mon	9.25am		M&H Truck requiring repairs to cover
1/04/2014	Noise	87 Richards Rd	Sat/Sun 29/30	evening/early a.m	S/SE	Increase in vacuum over the weekend on several occasions increasing noise to blower station. Will continue to monitor.
28/04/2014	Noise	87 Richards Rd	Wed/Thur 23/24	Wed evening Thu a.m.		Generator noise particularly noticeable Wed evening and Thur morning. Consultant to review.
1/05/2014	Noise	87 Richards Rd	Wed 30th	early morning & night		Noise from generators. Consultant assessing.
7/05/2014	Noise	87 Richards Rd	Mon/Tue/Wed 5,6&7	4.45am	NNE/NW/ NW-N/NE	Reported after incident but generation was low at the time with 8 engines running on 6&7th & 6 running on the 5th.
8/05/2014	Odour	DF School - parents	Thur	11.5	NW	No odour detected at time of visit & caretaker reported he had not noticed any odours all morning.
10/05/2014	Odour	118 Kahikatea Flats Rd	Sat	4.30am		All sprayers operating so possible odour from Friday evening.
16/05/2014	Odour	Horseshoe Bush Rd	Wed 14th	a.m		Odorous along Horseshoe Bush Rd in the morning.
27/05/2014	Noise	87 Richards Rd	Sun 25th	not given		Noise from generators particularly noisy on Sun. Consultant has been appointed to determine noise levels. Recommend a set of four measures to reduce the noise levels at Richards Rd.
27/05/2014	Noise	200 Horseshoe Bush Rd	Tue	6.45am		Carrying out construction work on the edge of Ph17D for the week.
27/05/2014	Odour	Horseshoe Bush Rd	Tue	6.15am	Still morning	Inspection along Horseshoe Bush Rd at approx 7.30am revealed a faint odour. L/fill sprayers operational.
28/05/2014	Odour	AC - Tender Rd	Wed	11.10am	NE/S	Odour around property but resident had called back to say odour had gone.
28/05/2014	Dirt	Tender Rd - DF Hwy	Wed	all day		Dirt tracking Nth & Sth on DF Hwy. Inspection revealed no debris, usual staining but not excessive as dry conditions.

## Vibration from Gas Flares

A number of submitters have reported that on a few occasions they have felt a vibration which they believe is coming from the landfill site. The source of this vibration has since been identified and found to be coming from the landfill gas flares just after they are started-up. There are three permanent enclosed gas flares on site, two of which are on standby to burn off any unused gas and a third flare which is permanently used to heat-up the leachate evaporator unit. The Redvale landfill presently produces electricity by running a number of gas generators on the site. These gas generators can provide up to 12 MW of electricity to the local grid.

In the event of a power outage on the main electricity grid, or if the need arises to switch off a number of gas generators for a prolonged period (e.g. due to maintenance requirements), the gas flares are started up so that they can continue to destroy any unused gas and hence prevent any uncontrolled discharges to atmosphere. The gas flow cannot be stored or held back within the landfill as an excessive gas build-up could lead to gas and odour emissions. Flaring of the gas is a requirement of the Air Quality National Environmental Standard (Air Quality NES) and is important to prevent greenhouse gas emissions and potential odours.

It is well documented<sup>1</sup> that combustion instability can occur in a gas flare when too much air is added through the air intake. This over-aeration causes the flame to lift from the flare tip and the periodic rapid lifting and reattachment of the flame is the mechanism that drives the low frequency vibration or 'rumble'. At Redvale, the flare start-up and potential for the resultant rumble is very infrequent and will usually only follow a prolonged power outage on the main grid. Power outages which have resulted in the need for a flare start-up, have been recorded as occurring up to 6 - 7 times per year. The period of time for which the rumble lasts is usually less than 15 minutes (i.e. the time taken for the flame in the combustion burner to stabilise).

Operational staff investigated the cause and modified the start-up procedures. These have been implemented and recently tested during a start-up which followed a power outage on the 10/06/2014. The new procedures now prevent excessive air inflow into the flare which has shown to have eliminated the vibration rumble during start-up. These procedures will continue be followed for all future flare start-ups.

<sup>1</sup>Reference: The John Zink Combustion Handbook pg. 236  
Edited by Charles E Baukal Jr (2001)

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