



Cleanaway Outstanding Actions

Action	Comment
Action 190207_3: Cleanaway to talk about the groundwater monitoring event at the next meeting.	Was a FYI item to explain how groundwater monitoring is completed. Attached to the end of the presentation. Will assess depending on time tonight.
Action 190207_4: Cleanaway to provide survey data to the EPA.	Issued to the EPA on 7 May 2019.
Action 190207_6: Cleanaway to report to the group at the August meeting on vegetation options for rehabilitation, timing of shrub planting, capping phases and types of caps.	Update provided as part of this presentation
Action 190207_7: Cleanaway report on rehabilitation and replanting at the Clayton landfills.	Update provided as part of this presentation.
Action 190207_8: Cleanaway to provide the committee with a clear understanding of disparity between the leachate and compliance levels for LP16A/B provided in Tables 5 and 6.1.	Provided as part of this presentation.



Operations Update - Landfilling







- Completed filling in Cell 3B. Placing intermediate capping.
- Filling in Cell 4A on hold due to limited operational floor.
- Currently filling in Cell 4B-1.
- Construction of Cell 4B-3 on track for completion in August 2019.



Bulldozer Fire – 29 March 2019

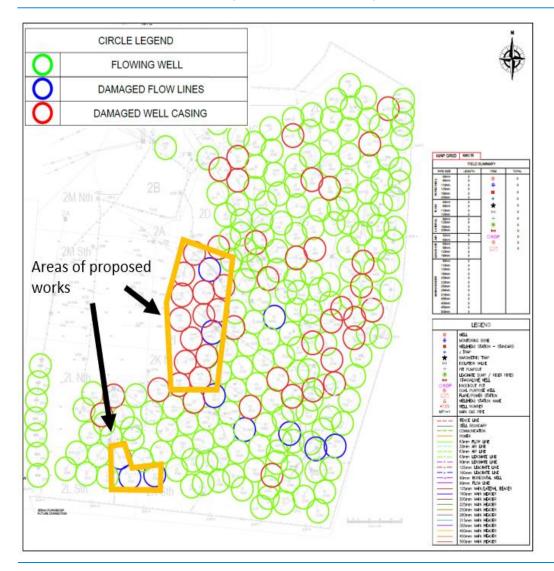
- Contractor who had been spreading mulch for erosion controlled over intermediate capping parked up the dozer at the end of their shift, and had left the site.
- Cleanaway Operator in transit via the mulch area approximately 30 minutes later, saw flames coming up from the rear of the parked dozer. They called 000 immediately. The EPA were also notified.
- The site was closed and evacuation procedures initiated.
- Both the CFA and MFB arrived and took control of the site. The fire had spread into the surrounding mulch.
- The fire was extinguished and the site handed back to Cleanaway that night.
- No complaints were made to the Cleanaway or EPA hotlines.

Corrective Actions:

- Mulch no longer being used for erosion control, pending a revised risk assessment.
- CFA to visit site and conduct a fire audit to provide advice on any improvements that can be made. We have reached out to the CFA on this matter.



Gas Collection System – Repairs and Maintenance

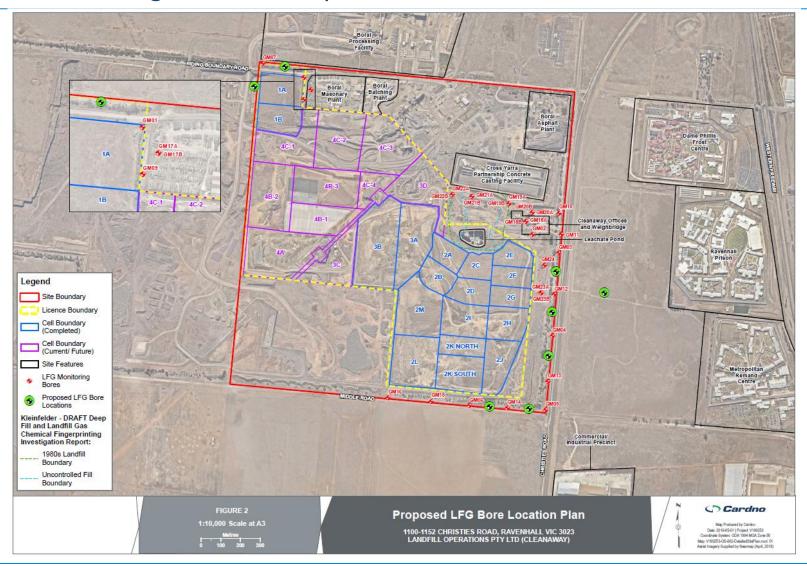




Asset	Description	Estimated Flow (per hour)
U439	Gas collection well – redrill required	15 m ³ /h
V255	Gas collection well – redrill required	30 m ³ /h
U284	Gas collection well – redrill required	20 m ³ /h
LP15	Flow line – repairs required	TBC
V262	Flow line and j-trap – repairs required	15 m³/h
U399	Flow line – repairs required	50 m ³ /h
S211	Flow line – repairs required	15 m³/h
Z324	Flow line – repairs required	20 m ³ /h



LFG Monitoring Network Improvements





Action 190207_06: Rehabilitation Options

BPEM 788.3:

- "The use of plants on the landfill caps must consider the particular requirements of the cap design, and vegetation used must be compatible with the cap design. Conventional caps require plant roots not to penetrate the barrier layer underlying the topsoil layer. Phytocap use different principles than conventional caps and require different vegetation strategies..."
- "The design objectives for the final landfill surface or capping are... providing a longterm stable barrier between waste and the environment in order to protect human health and the environment..."
- Updated rehabilitation management plan scheduled for completion late June-19
- Will include potential afteruses of the site, taking into consideration current and likely future land use in the area surrounding the site.



Action 190207_07: Clayton Update

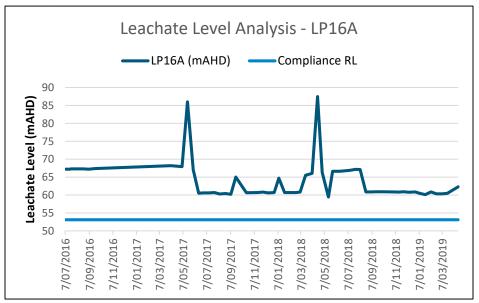
- **Victory Road Landfill:** Landfilling ceased in late 2018 and major rehabilitation works have started. Cleanaway's planning amendment application for the Victory Road site was approved by Kingston Council in 2018.
- Carroll Road Landfill: The landfill ceased operating in October 2015 and rehabilitation works at the northern and mid-section of the landfill were completed in February 2017. Capping works are 60% completed and will recommence end of 2019, once approval is sought from Kingston Council on the final design.
- **Deals Road Landfill:** The site is scheduled to be completely rehabilitated in mid-2020.
- Fraser Road Landfill: The landfill closed in late 2017 and has been operating as a transfer station since 30 October 2016. The site is scheduled to be completely rehabilitated by mid-2021.
- Henry Street Landfill: The landfill ceased operating in 2013 and rehabilitation works were completed in 2018. Cleanaway has sold the site to a private company.

Aerial photos provided at the back of the presentation.,



Action 190207_08: Leachate Riser 16A/B

- LP16B is a replacement leachate riser for LP16, drilled during Boral ownership.
- Appears that the riser is short of the leachate sump.
- Investigations are on-going, including potential rectification works.
- Active leachate extraction at this riser.
- Two 'spikes' are due to interference with dipping probe



			Gas W	ALID.	Loca	tion	Construction Supervisor		
run energy				Melbourne		•			
			LP16B Melbourne Regional Landfill Approved Depth Of Drilling			dfill	Leigh Brown		
Drill String Detail			Ap	proved De	oth Of Drillin	g	Well String Diameter/Rating		
		_		37.	8m		315mm/PN10		
Top Of Pipe			Waste Stream and Comments				omments		
Above Ground			Om - 6.5m = Clay/Rock						
Ground/Liner Level			6.5m - 6.8m = Damp Clay/Rock						
			6.8m - 7.1m = Saturated Rubbish						
Plain Pipe Length		Clay Plug Depth	7.1m - 1	0m = Sat	urated Rubb	ish			
4.5m	Plain Pipe	3.5m	10m - 1	2m = We	t Black Rubi	oish			
	- idiii ipe		12m - 12.	3m = Sar	d/Soil Cove	r			
			12.3m - 14	1.9m = Dn	Rubbish				
			14.9m - 15	5.2m = Dŋ	Sand/Soil (Cover			
		Į.	15.2m - 17	7.5m = Dry	Rubbish				
	Bentonite		17.5m - 17	7.8m = Da	mp Sand/So	il Cover			
	(500mm)	Plastic Layer	17.8m - 20).2m = Da	mp Rubbish				
		Rock 500mm above	20.2m - 20).7m = Bla	ck Damp R	ubbish/Soil			
		last Perforation	20.7m -	23m = Bla	ck Damp R	ubbish			
	0		23m - 25	i.3m = Bla	ck Damp R	ubbish			
	0		25.3m - 28	n - 28.7m = Black Damp Rubbish/Soil					
	0		28.7m - 30).6m = Bla	ck Saturate	d Sandy Ru	bbish		
	0		30.6m -	32m = Bla	ck Wet San	dy Rubbish			
	0								
	0								
Depth of	0								
Perforation	0	Depth Of Rock							
27.5m	0	28m							
	0								
	0								
	0								
	0								
	0								
	0								
	0								
	End Cap								
Well Compl	etion from G	L Summary	Please Note	E					
Depth of Plain Well String 4.5m		Completed Well String Depth Includes 1.5m Of Plain Pipe Above G.L.							
Depth of Clay Plug 3.5m									
Depth of Bentonite Plug 0.5m									
Depth of Rock 28m									
Depth of Perforated Well String 27.5m									
Date Completed		Completed Drilling Depth Co		Co	mpleted Well String Depth				
25-Mar-15		32m				33.5m			
				OZIII					
Bentonite Plug Comp Location Left Clean	pieted		-		Sign Off	1	g_		
ocation Lett Clean						- (/		



Victory Road Landfill





Fraser Road, Ryans Road and Deals Road





Action 190207_03: Groundwater Monitoring Event



Source: https://esemag.com/water/groundwater-sampling/

