



# TLCCG

## Tullamarine Landfill Community Consultation Group

**OUR PURPOSE:** to foster collaboration between the community, Transpacific and EPA Victoria, and ensure community concerns and aspirations regarding the closed Tullamarine Landfill and adjoining land form part of the decision making process.

### MARCH 2016 MEETING SNAPSHOTS

This meeting provided an update on site rehabilitation and community members to provide their perspective.

#### Who is Cleanaway??

Olga Ghiri, Cleanaway provided an overview of recent structural changes to the company. It is now Cleanaway (and no longer Transpacific), which is an Australian company. The change is reflected in a new website and branding <http://www.cleanaway.com.au/>. The new Chief Executive Officer, Vik Bansal was appointed mid 2015. Mark Globan was welcomed as the new Regional Manager Post Collections VicTas. The continuity of other staff members was appreciated by the community.



#### Community Consultant Assessment

Jeremy Settle, EPA Victoria, stated that EPA has committed funds to address community questions with several reports regarding the landfill's remediation.

The scope of the project is to review the methodology used, assumptions made, assessments and conclusions in the EHA Light Non-Aqueous Phase Liquid (LNAPL) Extraction Report, the community report and response, and the Kleinfelder Hydrogeological Assessment. The 53X audit for the buffer land will NOT be reviewed as part of this project.

The project was welcomed by the community. This is a first for the EPA and is in response to community concerns regarding the independence of reports tabled to date. The project will be undertaken by an external consultant who is chosen by the community, and who meets EPA Victoria standards.



## Community Presentations

Helen van den Berg, Terminate Tullamarine Toxic Dump Action Group (TTTDAG) spoke to the group about the community's persistent concerns regarding:

- a need for better management of the landfill,
- the regularity and unacceptability of obnoxious odours,
- concerns about pollution of the aquifers below the landfill,
- the lack of enforcement by EPA,
- the community's and workers' worries about exposure to airborne toxic chemicals from the landfill, the flare and possible fires
- the development of the buffer land for industrial purposes

Harry van Moorst, Western Region Environment Centre added concerns regarding:

- the toxic legacy of the unlined cells and mounds
- contamination from chlorinated solvents, dioxins and potential movement of these in the groundwater plume
- destruction deficiency of the flare and subsequent health risks
- the need for further trials of extraction of the LNAPL
- the need for further test bores to measure the plume
- and a more precautionary approach to risk assessments.

Cleanaway and EPA were invited to respond to these concerns after the meeting.

The full presentations can be seen in the meeting notes on the Cleanaway website,  
<http://www.cleanaway.com.au/community/major-project/tullamarine-closed-landfill-vic/>

## Site Rehabilitation

Alan O'Brien (Cleanaway) provided an update on the timeline for the landfill site rehabilitation in 2016-2018 including groundwater, landfill gas and ambient air monitoring and management.

### TULLAMARINE LANDFILL SITE REHABILITATION ROADMAP

		2015	2016												2017												2018												
			J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	
Groundwater Technical Review 2015-2018	Review completed	●	ONGOING MONITORING →												ONGOING MONITORING →												ONGOING MONITORING →												
	Groundwater Management Plan & Groundwater Monitoring Schedule													●																									●
Landfill Gas Management Plan Auditor review														●																									●
Ambient air monitoring on the buffer land														●																									
Ongoing site remediation	Construction of future stormwater connection																																						●
	Construction of wetlands and planting of 3ha native vegetation																																					●	
	Remove diversion of surface runoff to sewer post (once wetland is functioning)																																					●	

○ complete

The above schedule is based on information and plans as at 16 March 2015. Dates are indicative and are subject to change.

## Stormwater

The design of planned improvements for the stormwater system will be completed by mid 2016. The expected outcomes are increased frog habitat, less concrete, a softer landscaping approach, less likelihood of erosion, improved water quality and increased safety.

The wetlands are to be completed by end 2018.

### Stormwater Connection - Improved Design



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## Landfill gas monitoring

Three new landfill gas perimeter boreholes are planned for north west of the landfill. Part of the objective is to target the different geological area close to the airport.

### New Landfill Gas Perimeter Boreholes



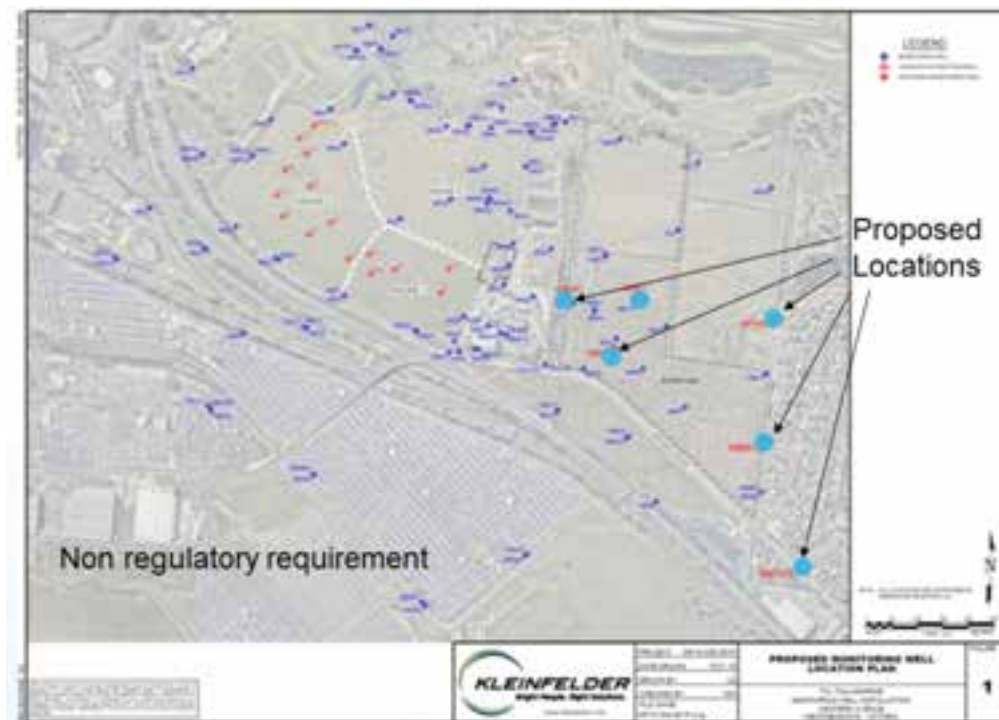


# Groundwater Monitoring

Cleanaway is currently updating the Management and Monitoring Plan. Information on current monitoring frequency will be provided with the Technical Review information. The Groundwater Review has been delayed as Cardno requires more time. It will be a large report and Cleanaway is offering a briefing session when the report is tabled - hopefully before the next meeting.

There are five new proposed locations for groundwater monitoring boreholes offsite in residential areas. This is not a regulatory requirement but has been actioned as part of Cleanaway's review.

## New Groundwater Monitoring Boreholes



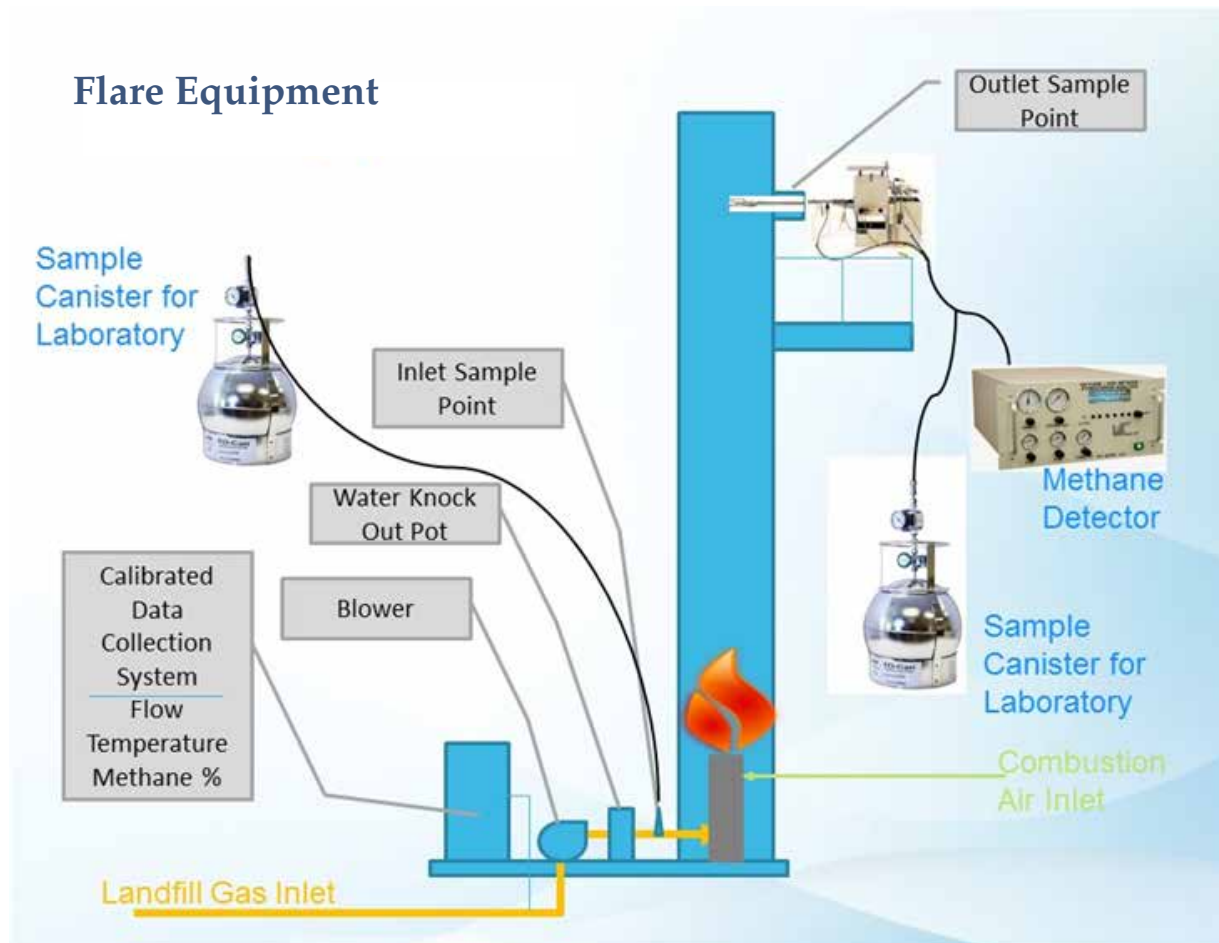
*Community TLCCG members welcomed the proposed monitoring sites close to the residential areas as these will provide important feedback on groundwater movement. It demonstrates that Cleanaway is prepared to act in response to report recommendations.*

## Ambient Air Sampling

- Flare sampling for methane destruction efficiency will take place in April 2016.
- A second full emissions test is to be completed after the methane testing is undertaken during May/June when climate conditions are colder.
- Ambient air monitoring design and procedure is being developed by experts and will be ready in June 2016.
- Ambient air monitoring will be undertaken concurrently with the next emissions testing in second half of 2016.

## Flare operations

The latest data for February 2016 shows methane emissions of around 50 - 55% in the flare stack, instantaneous flow rates of ~ 200m<sup>3</sup>/hr and the stack temperature ~900°C. The figures show stability of the flare results that fall within the design parameters of the flare stack and therefore should meet the expected destruction efficiencies. The flare testing will hopefully validate that this is the case.



## NEXT MEETING:

The next meeting will be held on July 13, 2016

For a full account of discussions at the meeting and associated attachments see the meeting notes at <http://www.cleanaway.com.au/community/major-project/tullamarine-closed-landfill-vic/>

TLCCG is supported by Cleanaway in order to foster good communication and relations with the community.