# Tullamarine Landfill Community Meeting

24 May 2017



#### **Recent Activities**

- MB61L sampling report completed
- Groundwater sampling at new wells completed
- Snap shot of In Situ parameters on all groundwater boreholes completed
- Groundwater sampling, all boreholes, commenced
- Review of Bore Network Depths, commenced
- Evaluation of stormwater connection nearing completion

## **Tullamarine Planned Activities**

- New Groundwater Well Sample Results Report [Underway]
- Ambient Air Testing [Underway]
- Develop Stormwater Concept Design with the Assistance of Community [Underway]
- Install Landfill Gas Extraction Wells on Mound 3 [Late 2017]
- Next groundwater technical review [Late 2018 / Early 2019], Technical Review for Auditor Review [TRAR]

Grey = task underway; Blue = task commencing

#### **Groundwater Assessment**

NEW DATA AVAILABLE FOR MB61L

- Extra data provides greater certainty on trends.
- Sampling in 2014 indicated possible upward trend
- The 2 extra samples show no upward trend
- Stable and downward trends evident
- Further sampling is planned

Thank you to Graeme for requesting an update

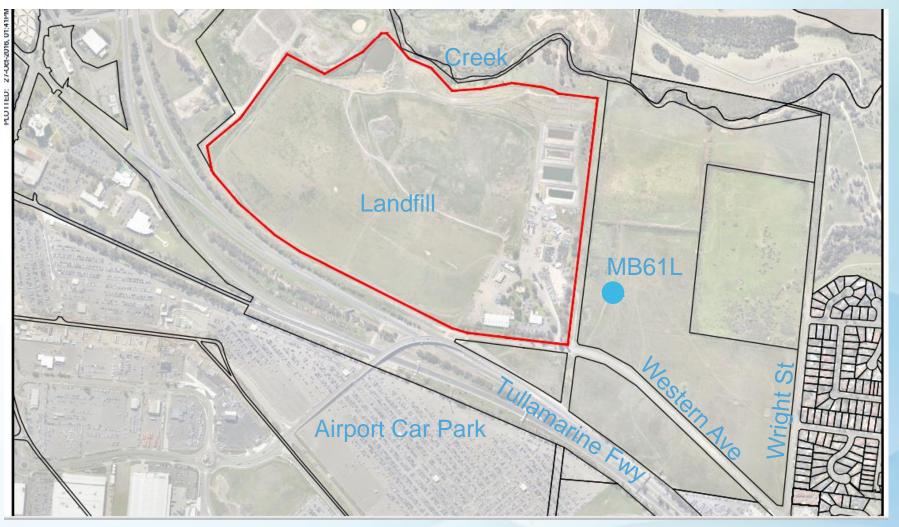
### MB61L Trend [1,2-DCE]



#### Monitoring Results for 1,2-Dichloroethane

Date	1,2-Dichloroethane mg/L
20-Mar-13	0.09
17-Sep-13	0.13
22-Oct-13	0.13
06-Jul-15	0.11
10-May-16	0.016

#### **MB61L Location**



#### **Leachate Trial Follow Up Question**

*Transmissivity value in MB40 in upper end of marginal range.* 

Why not keep pumping?

#### **Transmissivity Values Used**

- Pumping is viable if T value is greater than 0.074
- Pumping may/may not be viable if T value is between 0.0093 and 0.074
- Pumping not viable if T value is less than 0.0093
- MB40 result, T value = 0.027

T value = m2/day

#### **MB40 Test Results Continued..**

- Approx 2.1 litres was extracted from well during pumping.
- No evidence of LNAPL from waste during pumping.
- MB40 took 6 days to recover 83% of original thickness.
- Approx 1.7 litres entered the well from waste over a 6 day well period.

#### **MB40 Findings**

The findings indicate it is not practical to pump the LNAPL at MB40,...

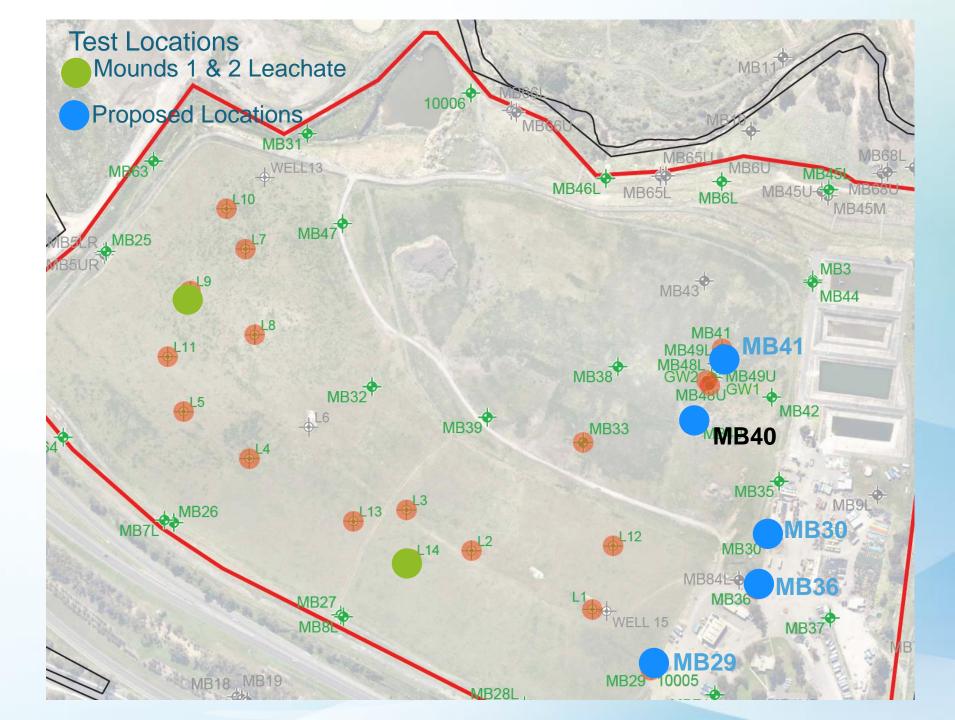
..however Cleanaway plans to test again Jul/Aug 2017

#### References

API, 2012. LNAPL Transmissivity Workbook: A Tool for Baildown Tests Analysis and User Guide. American Petroleum Institute. (API, 2012).

ASTM E2856 – 11, 2012. Standard Guide of Estimation of LNAPL Transmissivity.

ITRC (Interstate Technology & Regulatory Council). 2009. Evaluating LNAPL Remedial Technologies for Achieving Project Goals. Washington, D.C.: Interstate Technology & Regulatory Council, LNAPLs Team. www.itrcweb.org.



Thank you for your time.

#### Questions?