

John Chrispijn

From: Richard Barnes <rwbarne73@gmail.com>
Sent: Saturday, 26 March 2022 1:46 PM
To: John Chrispijn
Cc: Colin McCoull; Dino De Paoli
Subject: Re: Deloraine Landfill - additional space for new cell
Attachments: Fig1_MVC_Flight_20220113.pdf

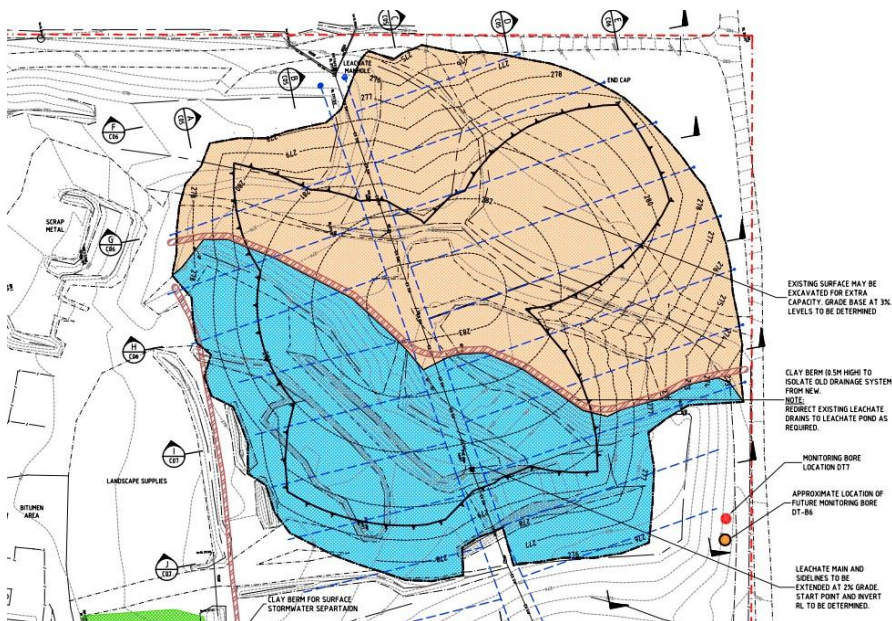
Hi John

Apologies for the delayed response.

Colin has identified the area on the attached aerial image - about 6,400 square metres which is the actively worked area for the deposition of fill. Hence, to lift that by 1 m would generate about 6,400 cubic metres less the area to allow for the edge slope. Based on compaction of 600 kg/cubic metre it only offers about 3,800 tonnes or so. A 2m lift would be around 7,200 tonnes, again, less the area of the slope around the edge. They are not large additional volumes.

Also, and an aside, The image below is an extract of the design done in the SEMF EMP - it is the one we reused in the most recent EMP. I have noted that it shows some clay berms through the site (differentiates blue from orange areas) and also a clay berm along the southern edge where the existing buildings are and proposed WTS. I am not sure if the clay berms were installed. The area shown in the image below does extend beyond that area of what Colin has shown, so if that area (on the image below which is the orange and blue) there may be double the area, hence double the volume - it would still only be around 14,000 tonnes for a 2m lift.

cheers
Richard



On Thu, Feb 24, 2022 at 8:44 AM John Chrispijn <John.Chrispijn@mvc.tas.gov.au> wrote:

Hello Richard

Thanks for reviewing, I'll get Jarred/Dino's feedback on the drawings.

Regards



John Chrispijn, Project Manager Waste Services

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From: Richard Barnes [mailto:rwbarnes73@gmail.com]

Sent: Wednesday, 23 February 2022 10:22 AM

To: John Chrispijn

Cc: Colin McCoull; Dino De Paoli

Subject: Re: Deloraine Landfill - additional space for new cell

Hi John

I have had a look at the designs for the ponds, both the leachate and the stormwater, on the attached drawings (which were also used in the most recent EMP and the previous version - attached).

I suggest you ask Jarrod or Dino to double check the drawings as I couldn't make sense of the volume, even if it is on the drawings.

cheers

Richard

On Tue, Feb 15, 2022 at 10:20 AM John Chrispijn <John.Chrispijn@mvc.tas.gov.au> wrote:

Hi Richard

Could you please provide a CAD file for survey that was attached in PDF format. I've got IPD doing design work on the waste transfer station at Deloraine and they were after the most recent site survey data.

Also we had a fire at our green waste area at Deloraine on Friday, stockpile was totally burnt but no other damage, firefighting water and foam went into the stormwater pond and the bottom of property. EPA are concerned with the pond overtopping and have asked for the storage capacity and free board of the pond. Couldn't find those details in our records. Would you have that info available?

Regards



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From: Richard Barnes [mailto:rwbarnes73@gmail.com]
Sent: Monday, 24 January 2022 9:00 PM
To: John Chrispijn; Dino De Paoli
Cc: Colin McCoull; Jarred Allen
Subject: Deloraine Landfill - additional space for new cell

Hi John and Dino

Colin has prepared the attached map that is based on the flight he did on 13 Jan. The figure is of a predicted surface that could be developed if the spatial extent of the filling area was drawn out to be the yellow line. It was done to guide how much space may be available to dispose of waste in the 'hollow' adjoining the existing landfill area.

The volume is around 13,000m³ based on the area shown (surface topology and the geographic extent), which may be larger if the 283m level is either (i) increased to 284, 285 etc or (ii) the 283m contour is widened on the top to make the eastern slope steeper, or a combination of the two.

At 650kg/m³ compaction (it may be a higher density of compaction than this) it would be about 8,450 tonnes which means about 1 year of space with the 8,000 tonne per annum permitted under the current permit.

The above doesn't take into account the cover material which would inevitably consume some of the volume. The volume is more if the height was lifted and the plateau of the cell broadened.

The EPN stipulates a maximum height of 283RL, which is more or less the 283m AHD contour as I understand it. Therefore, the height of the landfill is at the maximum level, so it can only get wider without further approval by the EPA.

Unlike the Cluan site, waste transfer and waste stations are discretionary in the Rural zone, so we can apply for a new permit without a rezoning.

Happy to discuss.

Also, we will need a PO for this work, or do we just use the same one we have been provided already?

Thanks.

cheers

Richard

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