

## Boswick, Robert (SD)

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**Subject:** FW: EAL No. 3153

**From:** Boswick, Robert (SD)

**Sent:** November-21-18 10:59 AM

**To:** 'Chunhe Liu' <cliu@dghengineering.com>

**Cc:** Phillip Waldner (phillipwaldner@gmail.com) <phillipwaldner@gmail.com>; Crocker, Peter (SD) <Peter.Crocker@gov.mb.ca>; Nayar, Rena (SD) <Rena.Nayar@gov.mb.ca>

**Subject:** RE: EAL No. 3153

Good morning Charles,

Thank you for your email and the Record Drawings associated with the recently constructed Decker Holding Co. Ltd. wastewater treatment lagoon.

The September 10, 2018 and October 4, 2018 Eng-Tech Consulting Limited letters and attachments that presented results of hydraulic conductivity testing on representative samples of the soil liners from the recently constructed Decker Holding Co. Ltd. wastewater treatment lagoon. Environment Act Licence No. 3153 (Licence) applies to this lagoon.

As indicated in the letters, soil samples of the soil liners of the constructed cells were submitted to the lab for testing on two separate occasions. The results of hydraulic conductivity tests completed on samples of the liners of the cells of this lagoon indicate that compliance with the requirements of the Licence for these lagoon cells to have soil liners with a hydraulic conductivity of  $1 \times 10^{-7}$  cm/s or less has been attained.

Your email indicates that construction of the lagoon is generally complete. It is understood that all related piping and components ancillary to the piping has been completed. The provision and maintenance of grass cover on the dykes and a fence around the lagoon to limit access are requirements of the Licence.

Authorization to operate the Decker Holding Co. Ltd. wastewater treatment lagoon of the lagoon in accordance with the specifications, limits, terms and conditions of the Licence is hereby provided.

Note that it is observed that some of the Record Drawings have dimensions that vary between feet/inches and metres. It is suggested that such dimensions and any related entries on the drawings should consistently be provided in metric units of measure. In addition, it is noted that the Section Thru Common Berm on Drawing L2 suggests that a remolded clay underlies the dividing dyke as well as for an unconfirmed thickness on the slopes and top of this dyke. Is that accurate? I was left with the impression that the liner was established at the surface of all planes of the interiors of the lagoon cells. All samples of the lagoon's soil liner were taken from the top 1 metre of the structure of each cell. Please confirm the location of the dedicated soil liner at the dividing dyke. It is also suggested that a section through the entire lagoon (i.e. including each cell) should be provided in the Record Drawings such that the presence of a 1 metre thick continuous soil liner can be displayed and specifically labelled. It is also noted that the Land Profile – Effluent Pipe Line section on Drawing L3 does not indicate that a 1 metre thick continuous soil liner exists at that location. Please provide information regarding the presence and location of the required 1 metre thick continuous soil liner at that location. Note that a Legend should be present on the drawings that provides information regarding what type of symbolism has been used to identify (on the drawing) the characteristics of the soils that form and underlie the lagoon structure. I request that revised Record Drawings be provided at your earliest convenience but prior to the end of 2018.

Please contact me for discussion as necessary. Thank you.

**Robert Boswick, P.Eng.**

Environmental Engineer

Environmental Approvals Branch

Manitoba Sustainable Development

1007 Century Street, Winnipeg, MB R3H 0W4

e-mail: [robert.boswick@gov.mb.ca](mailto:robert.boswick@gov.mb.ca)

Ph. (204) 945-6030 Cellular (204) 918-5853 FAX: (204) 945-5229

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**From:** Chunhe Liu

**Sent:** November-20-18 11:57 AM

**To:** Boswick, Robert (SD)

**Cc:** Phillip Waldner ([phillipwaldner@gmail.com](mailto:phillipwaldner@gmail.com))

**Subject:** EAL No. 3153

Good day, Robert.

Please find attached record drawing of Decker Colony lagoon.

The construction of the lagoon is completed except for the fencing. Decker Colony planned to install the fence around their lagoon in 2019.

Decker Colony is applying to put their lagoon in operation.

Please let me know if you need any further information.

Regards,