

## Webb, Bruce (SD)

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**From:** Webb, Bruce (SD)  
**Sent:** November-01-18 9:32 AM  
**To:** 'David Kelly'  
**Cc:** Cyrenne, Allan (SD)  
**Subject:** RE: FW: SMI Lagoon hydraulic conductivity testing update

Thanks! Excellent results; nice job on the construction! So, all cells are approved for use in accordance with Clause 22 of Environment Act Licence No. 3133.

Bruce.

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**From:** David Kelly <dkelly@jrcc.ca>  
**Sent:** November-01-18 8:48 AM  
**To:** Webb, Bruce (SD) <Bruce.Webb@gov.mb.ca>  
**Subject:** RE: FW: SMI Lagoon hydraulic conductivity testing update

Hi Bruce,

The final reports for the September drilling arrived yesterday and are attached.

David Kelly, P.Eng.  
Municipal Engineer  
J.R. Cousin Consultants Ltd.  
Phone: (204) 489-0474  
Fax: (204) 489-0487  
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**From:** Webb, Bruce (SD) [<mailto:Bruce.Webb@gov.mb.ca>]  
**Sent:** October-11-18 4:00 PM  
**To:** 'dkelly@jrcc.ca'  
**Subject:** RE: FW: SMI Lagoon hydraulic conductivity testing update

OK, thanks!

Bruce.

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**From:** [dkelly@jrcc.ca](mailto:dkelly@jrcc.ca) <[dkelly@jrcc.ca](mailto:dkelly@jrcc.ca)>  
**Sent:** October-11-18 2:58 PM  
**To:** Webb, Bruce (SD) <[Bruce.Webb@gov.mb.ca](mailto:Bruce.Webb@gov.mb.ca)>  
**Subject:** Re: FW: SMI Lagoon hydraulic conductivity testing update

Hi Bruce,

The report for the last sample is expected to arrive this week

On Thu, 11 Oct 2018 19:44:34 +0000, "Webb, Bruce (SD)" wrote:

Thanks for the results! In combination with the previous results from the July ST2 sample, we've now got results from three of the four tubes. Any word on when results from the September ST1 sample may be available? In the meantime, there are no concerns with the use of Cell 5, and operation of this cell is approved.

Bruce.

Bruce Webb, P. Eng.  
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**From:** [dkelly@jrcc.ca](mailto:dkelly@jrcc.ca) <[dkelly@jrcc.ca](mailto:dkelly@jrcc.ca)>  
**Sent:** October-11-18 8:31 AM  
**To:** Webb, Bruce (SD) <[Bruce.Webb@gov.mb.ca](mailto:Bruce.Webb@gov.mb.ca)>  
**Subject:** SMI Lagoon hydraulic conductivity testing update

Hi Bruce,

Please see attached the updated test results for the SMI Lagoon.

The file July ST1 is the re-test of the sample taken of the insitu-clay around the aeration cells. It meets the licence requirements for hydraulic conductivity with a result of  $2.97 \times 10^{-9}$  cm/s

The results for ST2 from the September drilling was provided as a draft lat yesterday as the final moisture content needs to be taken. However, the final hydraulic conductivity is not expected to change much and it meets the licence requirements with a hydraulic conductivity of  $7.63 \times 10^{-9}$  cm/s. This sample was taken from the new keyway around the existing cells.

The contractor would like to move water from the existing RM's cells to the new storage cell 5. The RM tested their storage cell in late July, but did not discharge their lagoon. They met discharge requirement for BOD and coliforms, but were just over the limit on phosphorus, with a result of 1.13 mg/L. The RM's testing is also attached.

Feel free to give me a call to discuss. I'm in Stony Mountain today so you can reach me on my cell phone 204-803-1071.

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