

From: [Simard, David \(CWS\)](#)
To: [Braun, Tracey \(CWS\)](#)
Cc: [Boswick, Robert \(CWS\)](#); [Lavallee, Nicole \(CWS\)](#); [Yunker, Dave \(CWS\)](#); [Burgess, Eleanor \(CWS\)](#); [Lamb, Shawn \(CWS\)](#)
Subject: Wellman Lake Valve replacement
Date: May-11-15 9:10:22 AM
Attachments: [Repair Proposal 2015.PDF](#)

Hello Tracey, I have a minor repair required at our Wellman Lake Lagoon in the Duck Mountains. I need to replace the isolation valve between the primary and secondary cells. We intend on carrying out this repair without an emergency discharge to the environment or temporary closure of the facility. I have been working with Rob Boswick on developing the best approach for carrying out this task and have jointly come up with the following:

In regards to the required valve replacement at Wellman Lake Lagoon in the Duck Mountains (Licence #1929)

Pending your approval, we intend on using the following approach to facilitate the repair we require:

- Replacement Valve and remote actuator (Mueller) has been purchased through Wolsely in Brandon and is in Swan River.
- Replacement valve will be installed upstream of the defective valve on the Primary cell side of the separation berm.
- A Clay Cofferdam will be temporarily constructed around the end of the 8" inlet pipe within the Primary cell. Excellent Dam clay materials are available from the original borrow pit located off the East side of the Primary cell.
- Liquids will be pumped out from around the inlet pipe inside the newly constructed cofferdam to expose the end of the inlet pipe.
- An inflatable "football" will be installed into the end of the inlet pipe.
- The new valve location will be excavated and the pipe will be cut to allow for the install of the new valve. New valve location will be within the berm, along the same 8" pipe approx 8-10 feet upstream towards the primary cell.
- A second inflatable "football" will be installed within the downstream 8" PVC pipe section to avoid back flow from the secondary through the old leaking isolation valve.
- the new valve will be installed into the existing SDR 26 8" PVC Pipe in the new location.
- Footballs will be removed
- The new valve excavation will be re-filled and compacted using a 5 ton packer/roller.
- Temporary Cofferdam will be removed.
- Any unavoidable rutting from machinery will be repaired and the surface of the berm will be smoothed. Grass will be re-sewn.
- Original faulty valve will be left in place and left open while the new valve will be used to isolate the 2 cells.
- Repairs are expected to take 2 days.
- Upon approval we are prepared to get these repairs completed within the next 2 weeks.

Thank you for reviewing, I look forward to your response.

Dave Simard

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