

## Innovative Solutions Canada Program

### Challenge EN578-170003/23: Coal Mine Tailings Pond

#### Attachment 1

#### Questions and Answers #1 to #7

This document contains questions and answers related to this challenge.

##### Question #1:

Please provide the following information if available:

- Construction drawings
- Site Plan with elevations of the pond, dam and surrounding areas
- Cross sections in two directions through the pond depth and underlying soils and adjacent side soils
- Cross sections through the dam and the dam design and material parameters
- Aerial photos
- Stored water and soils quality
- Geotechnical investigations
- Safety dam reviews

##### Response #1:

The information requested in Question 1 is in the reports currently in translation. The reports should be available in both official languages by January 21, 2019.

##### Question #2:

Can water be pumped before material stabilization?

##### Response #2:

Water can be pumped, however the discharge must be acceptable for release to the environment or treated to make it so. Currently it is acceptable for release but reports suggest as the material is drained and oxygen becomes available acid rock drainage will be produced requiring treatment.

##### Question #3:

Should the treatment be in-situ?

##### Response #3:

The expectation is the treatment will be in-situ, however, the intent of the challenge is to explore all viable options.

**Question #4:**

Do you have any idea about the physicochemical characterization of the material?

**Response #4:**

The 1993 Closure report presents the chemical and physical characteristics of the material. It is in translation and it should be available in both official languages by January 21, 2019.

**Question #5:**

Will a vegetal cover on the treated material be advantageous?

**Response #5:**

It is expected that a final closure that drains the dam will include a vegetated cover to aid in evapotranspiration and prevent erosion.

**Question #6:**

Is the 1,000,000m<sup>3</sup> containing water or just the amount of solid or sterile material?

**Response #6:**

Based on the 1993 closure report the 1,000,000m<sup>3</sup> is dry tailings volume.

**Question #7:**

How can we access the details as per the procurement document?

*"PSPC has engaged a consultant to update the dam safety review. Construction drawings, past dam safety reviews, water quality and aerial photos are all available to proponents. Current Class D estimate of traditional soil cover is being developed and will be provided to any proponents."*

**Response #7**

The most recent Dam Safety Review and the Closure Document are in translation. The reports should be available in both official languages by January 21, 2019.