

## Disclosure Request for Tailings Facility Management - Out of Pit Tailings Area (OPTA)

### Overview Questions

Disclosure Request	Response:
A) Provide an overview of your tailings management system, and how you manage risk	Fort Hills (FH) has a two tiered approach to tailings facility management. The first tier is our Tailings Facility Management System which outlines the overarching structure of sitewide tailings management, the second tier outlines the management system related to the specifics of each tailings facility.
B) Confirm whether your approach to tailings management has changed or will change in light of the recent tailings disasters at Brumadinho, Mariana, Mt Polley and others. Have you, for example, reviewed all tailings storage facilities with upstream dam construction, and taken steps necessary to protect local communities and the environment e.g. buttressing, evacuation?	FH reviews all recent failures to assess what learnings can be applied to our existing systems through a continuous improvement philosophy. All Suncor upstream constructed dams are designed on the premise that if the material can liquify, it will. Inundation studies have been completed for all structures. Through the Dam Breach EPP, stakeholders are informed if they are within the inundation area.

### Information Required

Disclosure Request	Additional Context:	Response:
1. "Tailings Facility" Name/identifier	Please identify every tailings storage facility and identify if there are multiple dams (saddle or secondary dams) within that facility. Please provide details of these within question 20.	<b>Tailings Facility Name:</b> Out of Pit Tailings Area (OPTA) <b>Facility Dams:</b> West Tailings Dyke, West Overburden Dyke, South Dyke, East Dyke, North East Dyke, North Dyke.
2. Location	Please provide Long/Lat coordinates	<b>Lat:</b> 57°22'N <b>Long:</b> 111°31'W
3. Ownership	Please specify: Owned and Operated, Subsidiary, JV, NOJV, as of March 2019	<b>Owned:</b> Joint Venture through the Fort Hills Energy LP - Suncor Energy Inc., Teck Resources Ltd., Total <b>Operated by:</b> Suncor Energy Inc.
4. Status	Please specify: Active, Inactive/Care and Maintenance, Closed etc. We take closed to mean: a closure plan was developed and approved by the relevant local government agency, and key stakeholders were involved in its development; a closed facility means the noted approved closure plan was fully implemented or the closure plan is in the process of being implemented. A facility that is inactive or under C&M is not considered closed until such time a closure plan has been implemented.	<b>Status:</b> Active - operational and under construction

5. Date of initial operation	(date)	<b>Start of Construction:</b> March 2014 <b>Start of Tailings Impoundment:</b> January 2018
6. Is the Dam currently operated or closed as per currently approved design?	Yes/No. If 'No', more information can be provided in the answer to Q20	Operated
7. Raising method	Note: Upstream, Centerline, Modified Centreline, Downstream, Landform, Other.	West Tailings Dyke: Upstream West Overburden Dyke: Downstream South Dyke: Downstream East Dyke: Upstream North East Dyke: Upstream North Dyke: Upstream
8. Current Maximum Height	Note: Please disclose in metres	29m as of March 2019
9. Current Tailings Storage Impoundment Volume	Note: (m3 as of March 2019)	54,832,000 (fluid fine tailings and liquefiable beach)
10. Planned Tailings Storage Impoundment Volume in 5 years time.	(m3 as planned for January 2024)	279,000,000 (fluid fine tailings and liquefiable beach)
11. Most recent Independent Expert Review	(date) For this question we take 'Independent' to mean a suitably qualified individual or team, external to the Operation, that does not direct the design or construction work for that facility.	November 27 to 30, 2018
12. Do you have full and complete relevant engineering records including design, construction, operation, maintenance, and/or closure?	(Yes or No) We take the word "relevant" here to mean that you have all necessary documents to make an informed and substantiated decision on the safety of the dam, be it an old facility, or an acquisition, or legacy site. More information can be provided in your answer to Q20	Yes, through our design documents and as built (3D model completed in May 2019)
13. What is your hazard categorisation of this facility, based on the consequence of failure?	No additional notes provided	Extreme Consequence
14. What guideline do you follow for the classification system?	No additional notes provided	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)

<p>15. Has this facility, at any point in its history, failed to be confirmed or certified as stable, or experienced notable stability concerns, as identified by an independent engineer (even if later certified as stable by the same or a different firm).</p>	<p>(Yes or No) We note that this will depend on factors including local legislation that are not necessarily tied to best practice. As such, and because remedial action may have been taken, a “Yes” answer may not indicate heightened risk. Stability concerns might include toe seepage, dam movement, overtopping, spillway failure, piping etc. If yes, have appropriately designed and reviewed mitigation actions been implemented? We also note that this question does not bear upon the appropriateness of the criteria, but rather the stewardship levels of the facility or the dam. Additional comments/information may be supplied in your answer to Q20.</p>	<p>No</p>
<p>16. Do you have internal/in house engineering specialist oversight of this facility? Or do you have external engineering support for this purpose?</p>	<p>Note: Answers may be "Both".</p>	<p>Both</p>
<p>17. Has a formal analysis of the downstream impact on communities, ecosystems and critical infrastructure in the event of catastrophic failure been undertaken and to reflect final conditions? If so, when did this assessment take place?</p>	<p>Note: Please answer 'yes' or 'no', and if 'yes', provide a date.</p>	<p>Yes - September 2015</p>
<p>18. Is there a) a closure plan in place for this dam, and b) does it include long term monitoring?</p>	<p>Please answer both parts of this question (e.g. Yes and Yes)</p>	<p>Yes - terrestrial closure and decommissioning is the current basis for OPTA closure. As it will no longer be a dam in the final landscape, long term monitoring will not be required.</p>
<p>19. Have you, or do you plan to assess your tailings facilities against the impact of more regular extreme weather events as a result of climate change, e.g. over the next two years?</p>	<p>(Yes or No)</p>	<p>Done with the storm event which requires operators to manage a probable maximum precipitation (greater than 1:10,000)</p>
<p>20. Any other relevant information and supporting documentation.  Please state if you have omitted any other exposure to tailings facilities through any joint ventures you may have.</p>	<p>Note: this may include links to annual report disclosures, further information in the public domain, guidelines or reports etc.</p>	<p>Annual Construction and Performance Report submitted yearly to Regulator (due in May 2019, first report) Design reports submitted and approved by Regulator Fort Hills site wide Emergency Preparedness Plan (EPP) for Dam Breach</p>