Investor Mining and Tailings Safety Initiative

This document must be read in conjunction with the Suncor's Interpretation Document

Overview Question 1	A) Provide an overview of your tailings management system, and how you manage risk	Suncor has a two tiered approach to tailings facility management. The first tier is our Tailings Facility Management System which outlines the overarching structure of Suncor's tailings management at each site, the second tier outlines the management system related to the specifics of each tailings facility. (Refer to The Interpretation Document for additional detail on this question)[1]
Overview Question 2	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?	Suncor has reviewed recent global failures like Mt. Polley and Brumadinho to assess what learnings can be applied to existing systems through our continuous improvement mindset. Learnings from theses failures have reinforced Suncor's focus on construction due diligence for all dam construction methods used at our sites. [2]

Mining Operation	Question 1	Question 2	Question 3	Question 4	Question 5	Question 6	Question 7	Question 8	Question 9	Question 10	Question 11	Question 12	Question 13	Question 14	Question 15	Question 16	Question 17	Question 18	Question 19	Question 20	
	Tailings Facility Identifier	Location (latitude/longitude)	Ownership Structure	Status	Date of Initial Operation	Is the dam currently operated or closed as per currently approved design, and within design intent?	Raising Method	Current Maximum Height (m)	Current Tailings Storage Impoundment Volume (m^3) Note: Fluid tailings includes water	Planned Tailings Storage Impoundment Volume in 5 years (m^3 in January 2024) Note: Fluid tailings includes water	Most Recent Independent Expert Review	Full and Complete Relevant Engineering Records including Design, Construction, Operation, Maintenance, and/or Closure?	What is your hazard categorisation of this facility, based on the consequence of failure?	What guideline do you follow for the classification system?	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 a dam safety engineer (even if later certified as stable by the same or a different firm)?	Do you have internalin house engineering specialist oversight of this facility? Or do you have external engineering support for this purpose?	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 construction? If so, when did this assessment take place?	Is there a) a closure plan in place for this dam; and b) does it include long term monitoring?	Have you, or do you plan to assess your tailings facilities against the latest projections of climate change, e.g. over the next two years?	Any other relevant information and supporting documentation. Please provide details of any other exposure to tailings facilities through any joint ventures you may have.	
Oil Sands Base Site	**Pond 1 / Wapisiw Lookout (Out of Pit Facility)**	56.988° -111.461°	Owned and operated	Inactive / Care and Maintenance	1967	Yes	**Tar Island Dyke**: Upstream **Plant Access Road**: In-situ pillar / overburden Dyke, centerline	**Tar Island Dyke** : 91.4 **Plant Access Road Dyke:** 30.5	**Total Volume:** 144,900,000 **Fluid Tailings Portion:** 0	**Total Volume:** 144,900,000 **Fluid Tailings Portion:** 0	2014	Yes	Extreme	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - May 2010, Dam Breach Analysis/Inundation Study was completed	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Pond 1A (Out of Pit Facility)	56.56.986° -111.478°	Owned and operated	Active	1974	Yes	**Pond 1A Plug Dyke**: centerline	**Pond 1A Plug Dyke**: 51.8	**Total Volume:** 13,700,000 **Fluid Tailings Portion:** 12,600,000	**Total Volume:** 13,500,000 **Fluid Tailings Portion:** 12,500,000	2015	Yes	Extreme	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - May 2010, Dam Breach Analysis/Inundation Study was completed	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Pond 2 / 3 (Out of Pit Facility)	56.990° -111.510°	Owned and operated	Active	1978	Yes	**Dyke 2W:** upstream **Dyke 2E**: upstream **Dyke 4:** upstream **Dyke 5:** upstream **Dyke 6:** upstream **East Tailings Plug (ETP):** upstream **East West Dyke (EWD):** upstream	**Dyke 2W:** 36.6 **Dyke 2E**: 44.2 **Dyke 4**: 12.2 **Dyke 5:** 94.5 **Dyke 6:** 30.5 **East Tailings Plug (ETP):** 83.8 **East West Dyke (EWD):** 68.6	**Total Volume:** 254,700,000 **Fluid Tailings Portion:** 35,700,000	**Total Volume:** 250,800,000 **Fluid Tailings Portion:** 25,400,000	2015	Yes	Extreme	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - May 2010, Dam Breach Analysis/Inundation Study was completed	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Pond 4 (Out of Pit Facility)	56.004° -111.513°	Owned and operated	Active	1986	Yes	**Dyke 7W:** upstream **Dyke 7E**: upstream **Dyke 7N:** upstream **Coke Dyke:** centerline **Cell 26 Dyke:** centerline	**Dyke 7W:** 6.1 **Dyke 7E**: 57.9 **Dyke 7N:** 30.5 **Coke Dyke:** 18.3 **Cell 26 Dyke:** 9.1	**Total Volume:** 37,700,000 **Fluid Tailings Portion:** 0	**Total Volume:** 36,700,000 **Fluid Tailings Portion:** 0	2017	Yes	Very High	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - May 2010, Dam Breach Analysis/Inundation Study was completed	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Pond 5 (Out of Pit Facility)	56.006° -111.535°	Owned and operated	Advancing to Closure	1995	Yes	**Dyke 8:** modified upstream **Boundary Dyke**:centerline **Exclusion Zone Dyke:** centerline	**Dyke 8:** 91.4 **Boundary Dyke**: 15.2 **Exclusion Zone Dyke:** 18.3	**Total Volume:** 223,800,000 **Fluid Tailings Portion:** 28,600,000	**Total Volume:** 223,800,000 **Fluid Tailings Portion:** 28,600,000	2017	Yes	Extreme	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - May 2010, Dam Breach Analysis/Inundation Study was completed	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Pond 6 (Out of Pit Facility)	56.029° -111.544°	Owned and operated	Advancing to Closure	2000	Yes	**Dyke 9**:centerline and modified downstream	**Dyke 9:** 61 .0	**Total Volume:** 163,300,000 **Fluid Tailings Portion:** 43,600,000	**Total Volume:** 156,400,000 **Fluid Tailings Portion:** 37,100,000	2016	Yes	Extreme	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - May 2010, Dam Breach Analysis/Inundation Study was completed	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Pond 7 (In Pit Facility)	56.984° -111.406°	Owned and operated	Active	2011	Yes	**Dyke 10:** downstream **NIPD:** centerline **Dyke 10E:** centerline	**Dyke 10:** 66.0 **NIPD:** 65.0 **Dyke 10E:** N/A	**Total Volume:** 178,500,000 **Fluid Tailings Portion:** 116,500,000	**Total Volume:** 178,800,000 **Fluid Tailings Portion:** 106,900,000	2016	Yes	Extreme	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - May 2010, Dam Breach Analysis/Inundation Study was completed	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Pond 8A (Out of Pit Facility)	56.910° -111.397°	Owned and operated	Active	1999	Yes	**Dyke 11A:** upstream **Dyke 11B:** upstream	**Dyke 11A:** 120.0 **Dyke 11B:** 30.0	**Total Volume:** 165,200,000 **Fluid Tailings Portion:** 0	**Total Volume:** 165,200,000 **Fluid Tailings Portion:** 0	2014	Yes	Dyke 11A -Extreme Dyke 11B - Very High	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - May 2010, Dam Breach Analysis/Inundation Study was completed	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Pond 8B (Out of Pit Facility)	56.913° -111.361°	Owned and operated	Active	2001	Yes	**Dyke 11C North:** downstream **Dyke 11C downsteam Dyke 11C South:** downstrteam	**Dyke 11C North:** 10.0 **Dyke 11C East:** 10.0 **Dyke 11C South:** 20.0	**Total Volume:** 76,100,000 **Fluid Tailings Portion:** 49,500,000	**Total Volume:** 25,500,000 **Fluid Tailings Portion:** 0	2014	Yes	Very High	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - May 2010, Dam Breach Analysis/Inundation Study was completed	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Sand Dump 8 (In Pit Facility)	56.957° -111.382°	Owned and operated	Active	2012	Yes	**Dyke 11 N:** centerline modified **Dyke 11 S:** centerline modified **Dyke 12:** upstream **SD8 Perimeter Dyke:** upstream	**Dyke 11:** 85.0 **Dyke 12:** 85.0 **Ring Dyke North:** 10.0	**Total Volume:** 430,100,000 **Fluid Tailings Portion:** 4,000,000	**Total Volume:** 778,700,000 **Fluid Tailings Portion:** 3,500,000	2017	Yes	Extreme	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - November 2015, Dam Breach Analysis/Inundation Study was completed	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/

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Overview Question 1	A) Provide an overview of your tailings management system, and how you manage risk	Suncor has a two tiered approach to tailings facility management. The first tier is our Tailings Facility Management System which outlines the overarching structure of Suncor's tailings management at each site, the second tier outlines the management system related to the specifics of each tailings facility. (Refer to The Interpretation Document for additional detail on this question)[1]
Overview Question 2	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?	Suncor has reviewed recent global failures like Mt. Polley and Brumadinho to assess what learnings can be applied to existing systems through our continuous improvement mindset. Learnings from theses failures have reinforced Suncor's focus on construction due diligence for all dam construction methods used at our sites. [2]

Mining Operation	Question 1 Tailings Facility Identifier	Question 2 Location (latitude/longitude)	Question 3 Ownership Structure	Question 4 Status	Question 5 Date of Initial Operation	Question 6 Is the dam currently operated or closed as per currently approved design, and within design intent?	Question 7 Raising Method	Question 8 Current Maximum Height (m)	Question 9 Current Tailings Storage Impoundment Volume (m^3) Note: Fluid tailings includes water	Question 10 Planned Tailings Storage Impoundment Volume in 5 years (m^3 in January 2024) Note: Fluid tailings includes water	Question 11 Most Recent Independent Expert Review	Question 12 Full and Complete Relevant Engineering Records including Design, Construction, Operation, Maintenance, and/or Closure?	Question 13 What is your hazard categorisation of this facility, based on the consequence of failure?	Question 14 What guideline do you follow for the classification system?	Question 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 a dam safety engineer (even if later certified as stable by the same or a different firm)?	Question 16 Do you have internallin house engineering specialist oversight of this facility? Or do you have external engineering support for this purpose?	Question 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 consequence classification? If so, when did this assessment take place?	Question 18 Is there a) a closure plan in place for this dam, and b) does it include long term monitoring?	Question 19 Have you, or do you plan to assess your tailings facilities against the impact of climate change and weather events as a result of climate change, e.g. over the next two years?	Question 20 Any other relevant information and supporting documentation. Please include any other exposure to tailings facilities through any joint ventures you may have.	
Oil Sands Base Site	**South Tailings Pond (STP) (Out of Pit Facility)**	56.869° -111.332°	Owned and operated	Active	2006	Yes	**North Dyke:** upstream **West Dyke:** upstream **South Dyke:** upstream	**North Dyke:** 42.0 **West Dyke:** 42.0 **South Dyke:** 36.0	**Total Volume:** 288,200,000 **Fluid Tailings Portion:** 122,000,000	**Total Volume:** 303,100,000 **Fluid Tailings Portion:** 137,700,000	2016	Yes	Extreme	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes -September 2013, Dam Breach Analysis/Inundation Study was completed	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Sand Dump 9 (In Pit Facility)	56.961° -111.333°	Owned and operated	Active	2018	Yes	**Dyke 13**: Upstream	**Dyke 13:** 55.0	**Total Volume:** 20,100,000 **Fluid Tailings Portion:** 19,800,000	**Total Volume:** 135,400,000 **Fluid Tailings Portion:** 107,700,000	2019	Yes	High	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	No - limited to in-pit innundation	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
Fort Hills Site	**Out of Pit Tailings Area (OPTA) (Out of Pit Facility)**	57.22° -111.31°	Joint Venture through the Fort Hills Energy LP - Suncor Energy Inc., Teck Resources Ltd., Total Operated by Suncor Engergy Inc.	Active	**Start of Construction:** March 2014 **Start of Tailings Impoundment:** January 2018	Yes	**West Tailings Dyke:** Centerline **West Overburden Dyke:** Downstream **South Dyke:** Downstream **East Dyke**: Upstream **North East Dyke:** Upstream **North Dyke:** Upstream	29	**Total Volume:** 54,800,000 **Fluid Tailings Portion:** 18,000,000	**Total Volume:** 279,000,000	2019	Yes	Extreme	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - 2015	Yes and no to long term monitoring for dam safety is not envisioned	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
Mildred Lake Site	**Coke Cell 5 (CC5) (In Pit Facility)**	57.028° -111.623°	Non-operated Joint Venture - operated by Syncrude	De-commissioned	1985	Yes	Centerline	82.5	**Total Volume:** 20,000,000 **Fluid Tailings Portion:** 0	**Total Volume:** 20,000,000 **Fluid Tailings Portion:** 0	Closure Dam Safety Review is Scheduled for 2019	Yes	Low	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Closure Dam Safety Review is Scheduled for 2019	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	East In-Pit Pond (In Pit Facility)	57.024° -111.579°	Non-operated Joint Venture - operated by Syncrude	Active	**East In-Pit Boundary Dyke**: 1999 **Highway 63 In-Pit Berm:** 1992 **North Closure Dam:** 2001	Yes	**East In-Pit Boundary Dyke:** Centerline **Highway 63 In-Pit Berm:** centerline **North Closure Dam:** centerline	**East In-Pit Boundary Dyke**: 13 m above insitu, 63 m above pit floor **Highway 63 In-Pit Berm:** 63.5 **North Closure Dam:** 65.0	**Total Volume:** 391,000,000 **Fluid Tailings Portion:** 1,000,000	**Total Volume:** 390,000,000 **Fluid Tailings Portion:** 0	**East In-Pit Boundary Dyke:** 2017 **Highway 63 In-Pit Berm:** 2017 **North Closure Dam:** Not required this structure is no longer impounding fluid and has been infilled	Yes	**East In-Pit Boundary Dyke:** High Consequence **Highway 63 In-Pit Berm:** High Consequence **North Closure Dam:** Low Consequence	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - 2004	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Mildred Lake Settling Basin (MLSB) (Out of Pit Facility)	57.074° -111.639°	Non-operated Joint Venture - operated by Syncrude	Active	1978	Yes	Upstream	90.0	**Total Volume:** 583,000,000 **Fluid Tailings Portion:** 149,000,000	**Total Volume:** 581,000,000 **Fluid Tailings Portion:** 107,000,000	2015	Yes	Extreme	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes 2014	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Southwest In-Pit Pond (SWIP) (In Pit Facility)	56.999° -111.671°	Non-operated Joint Venture - operated by Syncrude	Active	**SWIP North End Dam:** 2007 **Southwest (SW) Dam:** 1995	Yes	**SWIP North End Dam:** Centerline **Southwest (SW) Dam:** Centerline	**SWIP North End Dam:** 76.4 **Southwest (SW) Dam:** 78.0	**Total Volume:** 156,000,000 **Fluid Tailings Portion:** 58,000,000	**Total Volume:** 184,000,000 **Fluid Tailings Portion:** 10,000,000	**SWIP North End Dam**: 2017 **Southwest (SW) Dam:** 2018	Yes	Extreme	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - 2016/17	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Southwest Sand Storage Facility (SWSS) (Out of Pit Facility)	56.976° -111.764°	Non-operated Joint Venture - operated by Syncrude	Active	1991	Yes	Upstream	45.0	**Total Volume:** 374,000,000 **Fluid Tailings Portion:** 160,000,000	**Total Volume:** 379,000,000 **Fluid Tailings Portion:** 165,000,000	2018	Yes	Extreme	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes 2014	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	West In-Pit Pond (Base Mine Lake) (In Pit Facility)	57.011° -111.619°	Non-operated Joint Venture - operated by Syncrude	Active	**Highway 63 In-pit Berm**: 1992 **Southwest (SW) Dam:** 1995 **Base Mine North Dam (BMD):** 2010	Yes	**Highway 63 In-pit Berm:** Centerline **Southwest (SW) Dam**: Centerline **Base Mine North Dam (BMD):** Centerline	**Highway 63 In-pit Berm**: 63.5 **Southwest (SW) Dam:** 78.0 **Base Mine North Dam (BMD)**: 33.0	**Total Volume:** 252,000,000 **Fluid Tailings Portion:** 240,000,000	**Total Volume:** 252,000,000 **Fluid Tailings Portion:** 240,000,000	**Highway 63 In-pit Berm**: 2017 **Southwest (SW) Dam:** 2018 **Base Mine North Dam (BMD):** 2018	Yes	**Highway 63 In-pit Berm**: High **Southwest (SW) Dam:** Extreme **Base Mine North Dam (BMD)**: Extreme	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - 2004, 2016, & 2018	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/

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Mining Operation	Question 1	Question 2	Question 3	Question 4	Question 5	Question 6	Question 7	Question 8	Question 9	Question 10	Question 11	Question 12	Question 13	Question 14	Question 15	Question 16	Question 17	Question 18	Question 19	Question 20	
	Tailings Facility Identifier	Location (latitude/longitude)	Ownership Structure	Status	Date of Initial Operation	Is the dam currently operated or closed as per currently approved design, and within design intent?	Raising Method	Current Maximum Height (m)	Current Tailings Storage Impoundment Volume (m^3) Note: Fluid tailings includes water	Planned Tailings Storage Impoundment Volume in 5 years (m^3 in January 2024) Note: Fluid tailings includes water	Most Recent Independent Expert Review	Full and Complete Relevant Engineering Records including Design, Construction, Operation, Maintenance, and/or Closure?	What is your hazard categorisation of this facility, based on the consequence of failure?	What guideline do you follow for the classification system?	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 a dam safety engineer (even if later certified as stable by the same or a different firm)?	Do you have internal/in house engineering specialist oversight of this facility? Or do you have external engineering support for this purpose?	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 consequence classification? If so, what was this assessment take place?	Is there a) a closure plan in place for this dam; and b) does it include long term monitoring?	Have you, or do you plan to assess your tailings facilities against the impacts of a changing climate and weather events as a result of climate change, e.g. over the next two years?	Any other relevant information and supporting documentation. Please include any other exposure to tailings facilities through any joint ventures you may have.	
Mildred Lake Site	**North Mine South Pond (In Pit Facility)**	57.039° -111.699°	Non-operated Joint Venture - operated by Syncrude	**Ta-Tw Dyke:** Active **North Mine South Pond South East Closure Dam (SECD)(Octopus Dam):** Active **East West Dyke -I:** Active **North South Dyke:** Decommissioned (dam is submerged)	**Ta-Tw Dyke:** 2003 **North Mine South Pond South East Closure Dam (SECD) (Octopus Dam):** 2015 **East West Dyke -I:** 2007 **North South Dyke:** 2007	Yes	**Ta-Tw Dyke:** Centerline **North Mine South Pond South East Closure Dam (SECD) (Octopus Dam):** Centerline **East West Dyke -I:** Centerline **North South Dyke:** Centerline	**Ta-Tw Dyke:** 71.0 **North Mine South Pond South East Closure Dam (SECD) (Octopus Dam):** 18.0 **East West Dyke -I:** 93.0 **North South Dyke:** 34.0	**Total Volume:** 147,000,000 **Fluid Tailings Portion:** 53,000,000	**Total Volume:** 399,000,000 **Fluid Tailings Portion:** 118,000,000	**Ta-Tw Dyke:** scheduled for 2021 **North Mine South Pond South East Closure Dam (SECD) (Octopus Dam):** scheduled for 2021 **East West Dyke -I:** scheduled for 2022 **North South Dyke:** no DSR required (dam submerged)	Yes	**Ta-Tw Dyke:** Low/Significant **North Mine South Pond South East Closure Dam (SECD) (Octopus Dam):** Significant **East West Dyke -I:** High **North South Dyke:** n/a	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes - 2014	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
Aurora Site	**Aurora Settling Basin (ASB) (Out of Pit Facility)**	57.310° -111.699°	Non-operated Joint Venture - operated by Syncrude	Active	1998	Yes	Upstream	67.0	**Total Volume:** 350,000,000 **Fluid Tailings Portion:** 114,000,000	**Total Volume:** 360,000,000 **Fluid Tailings Portion:** 112,000,000	2015	Yes	Very high	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes 2018	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Aurora East Pit North-East (AEPN-E) Pond (In Pit Facility)	57.333° -111.465°	Non-operated Joint Venture - operated by Syncrude	Active	2008	Yes	**Dyke 1N**: Centerline **Dyke 1E:** Centerline	**Dyke 1N**: 65.0 **Dyke 1E:** 65.0	**Total Volume** 169,000,000 **Fluid Tailings Portion:** 55,000,000	**Total Volume:** 314,000,000 **Fluid Tailings Portion:** 13,000,000	2017	Yes	Significant	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes 2018	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Aurora East Pit North-West (AEPN-W) Pond (Out of Pit Facility)	57.333° -111.498°	Non-operated Joint Venture - operated by Syncrude	Active	2008	Yes	**Dyke 1W:** Centerline **Dyke 1N:** Centerline	**Dyke 1W:** 75.0 **Dyke 1N**: 65.0	**Total Volume:** 120,000,000 **Fluid Tailings Portion:** 0	**Total Volume:** 120,000,000 **Fluid Tailings Portion:** 0	2017	Yes	Significant	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes 2018	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/
	Aurora East Pit South (AEPS) Pond (In Pit Facility)	57.310° -111.490°	Non-operated Joint Venture - operated by Syncrude	Active	2010	Yes	**Dyke 2:** Centerline	**Dyke 2:** 75.0	**Total Volume:** 86,000,000 **Fluid Tailings Portion:** 40,000,000	**Total Volume:** 254,000,000 **Fluid Tailings Portion:** 76,000,000	Scheduled 2020	Yes	Low/Significant	Dam Classification is based on the Alberta Dam and Canal Safety Directive (regulation)	No	Both	Yes 2018	Yes to both	Yes	Alberta Energy Regulator Website link https://www.aer.ca/providing-information/by-topic/dams	Mining Association of Canada (MAC) Website link https://mining.ca/