Evolution Mining

Church of England tailings dam management disclosure

Evolution Mining tailings facilities

Church of England Tailings dam management disclosure - September 2024
This disclosure has been certified by Evolution Mining's Executive Chair, in line with this request

Operation	Country	State/Province	1. Tailings Dam Name/Identifier	2. Location	3. Owner	4. Status	5. Year construction was started	6. Is the dam currently operated as per approved design	7. Raising method (upstream, downstream, centreline, other)	8. Current height (metres)	9. Current volume of tailings facility (million m3)	10. Planned final volume of tailings facility (million m3)	11. Date of last external inspection including outcome	12. Do you have full and complete relevant engineering records including design, construction, operation, maintenance and/or, closure?	13. What is the risk rating for the TMF?	14. What standards/guidelines were applied to the dam design and construction?	15. Has the facility, at any point in its history, failed to be confirmed or certified as strable, or experienced notable stability concerns, as identied by an independent engineer (even if later certified as stable by the same or a different firm?	16. Do you have internal/in house engineering specialist oversight of this facility ? Or do you have external engineering support for this purpose?	17. Identification of habitation(s)/settlement(s) and/or flora/fauna critical habitat(s) or high biodiversity area(s) located downstream of the facility,with indication of areas or number of populations at risk,and the mitigative measures that have been undertaken or remain to be implemented.	18. a) Is there a closure plan in place for this dam and b) does it include long term monitoring?	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 ?	20. Any other relevant information and supporting documentation
			NTSF	33°38'8.53"S 147°22'0.76"E	100% Evolution owned	Inactive	2005	Yes	Upstream - Encompassed by the IWL	19.5	35.5	35.5	Nov-23	Yes	Significant	ANCOLD, New South Wales Dam Safety Committee (NSWDSC)	No	Both	Yes - June 2019	a) Yes b) Yes	Yes - Tailings facility design Guidelines include evaluation of extreme weather events	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM
Cowal	Australia	New South Wales	STSF	33°38'52.64"S 147°22'9.89"	100% Evolution owned	Inactive	2006	Yes	Upstream - Encompassed by the IWL	19.5	29.9	29.9	Nov-23	Yes	Significant	ANCOLD, New South Wales Dam Safety Committee (NSWDSC)	No	Both	Yes - June 2019	a) Yes b) Yes	Yes - Tailings facility design Guidelines include evaluation of extreme weather events	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM
			IWL	33°38'45.77"S 147°22'46.82"E	100% Evolution owned	Active	2019	Yes	Downstream	24	27	72	Nov-23	Yes	Significant	ANCOLD, New South Wales Dam Safety Committee (NSWDSC)	No	Both	Yes - January 2020	a) Yes b) Yes	Yes - Tailings facility design Guidelines include evaluation of extreme weather events	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM
Ernest Henry	Australia	Queensland	EHM Tailings Dam	20°27'17.01"S 140°43'57.80"E	100% Evolution owned	Active	1997	Yes	Upstream - with perimeter rock buttressing	27.5 at South Cell Spillway	117	136	Oct-23	Yes	High A	ANCOLD (2019), Manual for Assessing Consequence Categories and Hydraulic Performance of Structures (DESI)	No	Both	Yes - January 2020	Basic capping plan from trialled program b) internal cost provisioning for 25 years of long term monitoring	Yes - Tailings facility design Guidelines include evaluation of extreme weather events. Spillway Hydraulics take into account Climate Change as a Factor	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM and ANCOLD Guidelines
			TSF Cell 1	30°45'44.80"S 121°14'21.65"	100% Evolution owned	Active	2014	Yes	Upstream - with Downstream Rock buttressing	16	3.7	3.7	Nov-23	Yes	Significant	ANCOLD (2019), Western Australian DMRS Guidelines	No	Both	Undertaken	a) Yes b) Yes	Yes - Tailings facility design guidelines include evaluation of extreme weather events	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM
			TSF Cell 2	30°45'44.03"S 121°14'5.11"E	100% Evolution owned	Active	2014	Yes	Upstream - with Downstream Rock buttressing	16	3.8	4.6	Nov-23	Yes	Significant	ANCOLD (2019), Western Australian DMRS Guidelines	No	Both	Undertaken	a) Yes b) Yes	Yes - Tailings facility design guidelines include evaluation of extreme weather events	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM
			TSF Cell 3	30°45'44.70"S 121°13'43.72"	100% Evolution owned	Active	2021	Yes	Downstream	5	2.27	9	Nov-23	Yes	Significant	ANCOLD (2019), Western Australian DMRS Guidelines	No	Both	Undertaken	Yes	a) Yes b) Yes	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM
			TSF Cell 4	30°45'46"S 121°13'17"E	100% Evolution owned	Active	2021	Yes	Downstream	6	1.86	9	Nov-23	Yes	Significant	ANCOLD (2019), Western Australian DMRS Guidelines	No	Both	Undertaken	Yes	a) Yes b) Yes	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM
Mungari	Australia	Western Australia	Kundana TSF1	30°42'23.58"S 121°13'7.15"E	100% Evolution owned	Inactive	Dec-88	Yes	Upstream	18	0.39	0.39	Nov-23	No	Category 1	ANCOLD (2012), Western Australian DMRS Guidelines	No	Both	No	a) Yes b) Yes	a) Yes b) Yes	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM. Tailings has been removed for underground paste backfill.
			Kundana TSF2	30°42'36.31"S 121°13'20.17"	100% Evolution owned	Inactive	Oct-97	Yes	Upstream	17.5	0.214	0.214	Nov-23	No	Category 1	ANCOLD (2012), Western Australian DMRS Guidelines	No	Both	No	a) Yes b) Yes	a) Yes b) Yes	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM. Tailings has been removed for underground paste backfill.
			Kundana TSF3 Cell A	30°42'21.35"S 121°12'49.18"E	100% Evolution owned	Inactive	Apr-02	Yes	Upstream	9	0.15	0.15	Nov-23	No	Category 1	ANCOLD (2012), Western Australian DMRS Guidelines	No	Both	No	a) Yes b) Yes	a) Yes b) Yes	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM. Tailings has been removed for underground paste backfill.
			Kundana TSF3 Cell B	30°42'35.00"S 121°13'2.36"E	100% Evolution owned	Inactive	May-02	Yes	Upstream	8	0.25	0.25	Nov-23	No	Category 1	ANCOLD (2012), Western Australian DMRS Guidelines	No	Both	No	a) Yes b) Yes	a) Yes b) Yes	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM. Tailings has been removed for underground paste backfill.
			Kundana TSF3 Cell C	30°42'45.13"S 121°13'8.17"E	100% Evolution owned	Inactive	Nov-02	Yes	Upstream	11	0.3	0.3	Nov-23	No	Category 1	ANCOLD (2012), Western Australian DMRS Guidelines	No	Both	No	a) Yes b) Yes	a) Yes b) Yes	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM. Tailings has been removed for underground paste backfill.
Mt Rawdon	Australia	Queensland	Mt Rawdon TSF	25°15'44.10"S 151°45'19.17"E	100% Evolution owned	Active	2000	Yes	Upstream and Downstream rock buttressing	72	65.9	67.1	Oct-23	Yes	High	ANCOLD (2019), Manual for Assessing Consequence Categories and Hydraulic Performance of Structures(DEHP)	No	Both	Undertaken	a) Yes b) Yes	No	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM

Evolution Mining tailings facilities (continued)

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Operation	Country	State/Province	1. Tailings Dam Name/Identifier	2. Location	3. Owner	4. Status	5. Year construction was started	6. Is the dam currently operated as per approved design	7. Raising method (upstream, downstream, centreline, other)	8. Current height (metres)	9. Current volume of tailings facility (million m3)	10. Planned final volume of tailings facility (million m3)	11. Date of last external inspection including outcome	12. Do you have full and complete relevant engineering records including design, construction, operation, maintenance and/or, closure?	13. What is the risk rating for the TMF?	14. What standards/guidelines were applied to the dam design and construction?	15. Has the facility, at any point in its history, failed to be confirmed or certified as stable, or experienced notable stability concerns, as identied by an independent engineer (even if later certified as stable by the same or a different firm?	16. Do you have internal/in house engineering specialist oversight of this facility ? Or do you have external engineering support for this purpose?	17. Identification of habitation(s)/settlement(s) and/or flora/fauna critical habitat(s) or high biodiversity area(s) located downstream of the facility,with indication of areas or number of populations at risk,and the mitigative measures that have been undertaken or remain to be implemented.	18. a) Is there a closure plan in place for this dam and b) does it include long term monitoring?	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 ?	20. Any other relevant information and supporting documentation
Northparkes	Australia	New South Wales	Escourt TSF	32°54'11.1"S 148°2'55.3"E	80% Evolution owned	Active	2009	Yes	Upstream and centre line downstream buttressing	26	31.9	32.8	Jun-24	yes	High A	ANCOLD guidelines, New South Wales Dam Safety Committee (NSWDSC) guidance sheets	No	Both	Undertaken	Yes - rehabitation management plan	a) Yes b) Yes - design for extreme weather events	
			TSF1	32°53'52.9"S 148°3'27.5"E	80% Evolution owned	Inactive	1993	Yes	Upstream	26	31.4	32.8	Jun-24	yes	High C	ANCOLD guidelines, New South Wales Dam Safety Committee (NSWDSC) guidance sheets	No	Both	Undertaken	Yes	Yes, stage 1 closure complete	
			TSF2	32°54'27.8"S 148°3'58.2"E	80% Evolution owned	Inactive / Care & Maintenance	1996	Yes	Upstream	24	26.9	26.9	Jun-24	yes	High C	ANCOLD guidelines, New South Wales Dam Safety Committee (NSWDSC) guidance sheets	yes	Both	Undertaken	Yes	a) Yes b) Yes - design for extreme weather events	
			Infill TSF	32°54'13.2"S 148°3'42.1"E	80% Evolution owned	Inactive	2018	Yes	Upstream	11.5	1.4	7.7	Jun-24	yes	High C	ANCOLD guidelines, New South Wales Dam Safety Committee (NSWDSC) guidance sheets	No	Both	Undertaken	Yes	a) Yes b) Yes - design for extreme weather events	
			Rosedale TSF (TSF3)	32°55'3.3"S 148°4'7"E	80% Evolution owned	Active	2016	Yes	Stage 2 centerline, Stage 3 upstream	13.7	18.2	56.5	Jun-24	yes	High A	ANCOLD guidelines, New South Wales Dam Safety Committee (NSWDSC) guidance sheets	No	Both	Undertaken	Yes	a) Yes b) Yes - design for extreme weather events	
Red Lake	Canada	Ontario	Campbell Complex	51° 3'55.02"N 93°45'18.91"W	100% Evolution owned	Active	1983	Yes	Upstream	15	8.6	9 - 10	Sep-23	Yes	Very High	Canadian Dam Association & Ontario MNR	No	Both	Yes 2018	a) Yes b) Yes	No	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM
			RLC Tailings Area 1 (TA1)	51° 3'42.70"N 93°41'58.66"W	100% Evolution owned	Active	2003	Yes	Upstream and Downstream	9.8	6.4	8	Sep-23	Yes	Significant	Canadian Dam Association & Ontario MNR	No	Both	Yes 2021	a) Yes b) Yes	No	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM
			RLC Tailings Area 2 (TA2)	51° 3'49.94"N 93°42'28.62"W	100% Evolution owned	Active	2005	Yes	Centerline	6.5	Combined TA1	Combined TA1	Sep-23	Yes	Significant	Canadian Dam Association and Ontario MNR at the time of construction	No	Both	Yes 2024	a) Yes b) Yes	No	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM
			Cochenour Dam 2 Pond	51° 4'21.32"N 93°47'57.40"W	100% Evolution owned	Inactive / Care & Maintenance	1981 for Dam 2, 2013 for North Dyke	Yes	Centreline	4.2	1.8	1.8	Sep-23	Yes	Significant	Canadian Dam Association and Ontario MNR for newer construction	No	Both	Yes	a) Yes b) Yes	No	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM
			Cochenour Dam 3 Pond	51° 3'59.17"N 93°48'40.74"W	100% Evolution owned	Inactive / Care & Maintenance	1958 for Dam 3, 2010 for South dyke	Yes	Centreline	7	Combined Dam 2 Pond	Combined Dam 2 Pond	Sep-23	Yes	High	Canadian Dam Association and Ontario MNR for newer construction	No	Both	Yes	a) Yes b) Yes	No	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM
			Balmer Tailings	51° 4'13.77"N 93°44'38.48"W	100% Evolution owned	Inactive / Care & Maintenance	1970's	Yes	Other	4	2.5	2.5	Sep-23	Yes	Low	Canadian Dam Association and Ontario MNR for newer construction	No	Both	Yes	a) Yes b) Yes	No	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM
			Bateman TMA	51° 7'18.25"N 93°44'49.66"W	100% Evolution owned	Inactive / Care & Maintenance	1980's	Yes	Other	10 South Dam	0.1	0.65	Sep-23	Yes	Very High (South Dam)	Canadian Dam Association and Ontario MNR for newer construction	No	Both	Yes	a) Yes b) Yes	No	Managed in accordance with Evolution Sustainability Standards, aligned to GISTM