

46	Anglo American	Anglo American	Waste	Anglo American	Spain	Barru Alto	Barru Alto Slag Pile No. 1	Latitude: 15°05'22" S Longitude: 48°20'17" W	Devised and Operated	Active	2009	Yes	Dry Stack	80	7.6M	1.26M	2016, See Q20 for more information	Yes	High	Anglo American Technical Standard (IA TS 020 001)	No	Yes, Internal geotechnical report. External support from a geotechnical consultant when necessary.	No, See Q20 for additional information	Yes (conceptual level), Yes	Yes, See Q20 for additional information	Q1: This is a slag pile, with no engineering design, only a defined layout and maximum height. Q2: External engineering firm 2016. Q3: There is no community downstream of the facility and the hazard category is low. Q4: Not performed as yet, but Anglo American long term Sustainability Plan requires this to be done for all managed sites within the next 7 years.
47	Anglo American	Kimberly One	Bulk Commodities	1) Anglo American Plc. 2) Industrial Development Corp. of South Africa Ltd 3) Public Investment Corporation (PIC) Ltd 4) Blackrock Investment Management 5) RMB Morgan Stanley * as at 15 March 2019	South Africa	Johnan	Johnan Mine (DMS) Dams 1 to 4 and DG (subt legs 1 to 4)	27°41'43.1" S 27°52'21.6" E	Devised and operated	Active	2019	Yes, See Q20 for more information	Spinram	18m	180m*	46.54m*	Yes, See Q20 for more information	Yes	Major	Anglo American Technical Standard (IA TS 001 001)	No	Both	Yes, See Q20 for additional information	Yes, No, See Q20 for additional information	Yes, See Q20 for additional information	Q1: Is this a dam? Q2: Is this dam currently operated as per the current Short Term Plan Design, but not in line with the 2015 Continuation report in some material properties, such as slurry densities and water loss distribution (P2), etc. Q3: Done by corporate specialist in Sept 2016. A Technical Review Committee (TRC) to be appointed to act as an independent Expert Reviewer. Q4: A Zone of Influence was modelled in 2011 and updated in 2018, as an input to Emergency Response and Preparedness Plans which were compiled in 2018. Environmental impact will be conducted. Q5: Will include/consider long term monitoring requirements. Q6: Plan in place in line with Anglo American's Long term Sustainability Strategy.
48	Anglo American	Kimberly One	Bulk Commodities	1) Anglo American Plc. 2) Industrial Development Corp. of South Africa Ltd 3) Public Investment Corporation (PIC) Ltd 4) Blackrock Investment Management 5) RMB Morgan Stanley * as at 15 March 2019	South Africa	Johnan	Johnan Mine Dammed Tailings Storage Facility 1 (Hoop)	27°51'42.0" S 27°58'45.1" E	Devised and operated	Inactive	Unknown, See Q20 for more information	Yes, See Q20 for more information	Spinram	0.5m	Not available	Not available	Yes, See Q20 for more information	Yes, See Q20 for more information	Moderate	Anglo American Technical Standard (IA TS 020 001)	No	Both	Yes, See Q20 for additional information	Yes, No, See Q20 for additional information	Yes, See Q20 for additional information	Q4: Included in the rehabilitation planning for 2020 to 2022. Q5: Inactive dam. Q6: Dam is not operational. Q7: Annual Dam Safety Inspection (DSI) on 20 November 2018. A Technical Review Committee (TRC) to be appointed to act as an independent Expert Reviewer. Q8: Inactive site. Q9: No analyses was done for this dam, since this is an inactive dam with a moderate rating and are in the planning for rehabilitation. Environmental impact will be conducted. Q10: Will include/consider long term monitoring requirements. Q11: Plan in place in line with Anglo American's Long term Sustainability Strategy.
49	Anglo American	Kimberly One	Bulk Commodities	1) Anglo American Plc. 2) Industrial Development Corp. of South Africa Ltd 3) Public Investment Corporation (PIC) Ltd 4) Blackrock Investment Management 5) RMB Morgan Stanley * as at 15 March 2019	South Africa	Johnan	Johnan Mine Dammed Tailings Storage Facility 2	27°46'29.3" S 27°58'02.3" E	Devised and operated	Inactive	Unknown, See Q20 for more information	Yes, See Q20 for more information	Spinram	Not available	Not available	Yes, See Q20 for more information	Yes, See Q20 for more information	Minor	Anglo American Technical Standard (IA TS 001 001)	No	Both	Yes, See Q20 for additional information	Yes, No, See Q20 for additional information	Yes, See Q20 for additional information	Q4: Included in the rehabilitation planning for 2020 to 2022. Q5: Inactive site. Q6: Dam is not operational. Q7: Annual Dam Safety Inspection (DSI) on 20 November 2018. A Technical Review Committee (TRC) to be appointed to act as an independent Expert Reviewer. Q8: Inactive site. Q9: No analyses was done for this dam, since this is an inactive dam with a moderate rating and are in the planning for rehabilitation. Environmental impact will be conducted. Q10: Will include/consider long term monitoring requirements. Q11: Plan in place in line with Anglo American's Long term Sustainability Strategy.	
50	Anglo American	Kimberly One	Bulk Commodities	1) Anglo American Plc. 2) Industrial Development Corp. of South Africa Ltd 3) Public Investment Corporation (PIC) Ltd 4) Blackrock Investment Management 5) RMB Morgan Stanley * as at 15 March 2019	South Africa	Johnan	Johnan Mine Tailings Facility	27°27'30.0" S 27°56'40.0" E	Devised and operated	Active	2011	Yes	Water Retaining, See Q20 for more information	9.8m	3.053m*	0.113m*	Yes, See Q20 for more information	Yes	Moderate	Anglo American Technical Standard (IA TS 001 001)	No	Both	Yes, See Q20 for additional information	Yes, No, See Q20 for additional information	Yes, See Q20 for additional information	Q17: Engineered and constructed walls which will fully support the tailings for the life of mine. Q18: Done by corporate specialist in Sept 2016. A Technical Review Committee (TRC) to be appointed to act as an independent Expert Reviewer. Q19: Yes (pre-act) & No (Environmental). Q20: Done by corporate specialist in Sept 2016. A Technical Review Committee (TRC) to be appointed to act as an independent Expert Reviewer. Dates: 2010 (Design of Tailings Storage Facility) & Reviewed 2016 (Code of Practice Revision). Q21: Impact on critical infrastructure: Analysis (DMS Environmental Impact Communities & Ecosystems). Environmental impact will be conducted. Q22: Will include/consider long term monitoring requirements. Q23: Plan in place in line with Anglo American's Long term Sustainability Strategy.
51	Anglo American	Anglo Operations (Pty) Ltd	Coal SA	Anglo American	South Africa	Soudhrop	Bank 2 Co-disposal	25.57.55.1 - 29.27.29.6	Devised and Operated	Active	2002	Yes	Other, See Q20 for more information	53.5	724.3 M coarse, 7.01 M fines.	0.27 M coarse, 9.08 M fines.	2011	Yes	Major	Anglo American Technical Standard (IA TS 020 001)	No	Both	Yes, Q4 2018	Yes and yes	Plan in place in line with Anglo American's Long term Sustainability Mining Plan.	
52	Anglo American	Anglo Operations (Pty) Ltd	Coal SA	Anglo American	South Africa	Soudhrop	Bank 3 Co-disposal	16.00.27.1 - 29.27.30.6	Devised and Operated	Closed	2008	Yes	Other, See Q20 for more information	36	RM	RM	2012	Partial (first years of operation and closure)	High	Anglo American Technical Standard (IA TS 020 001)	No	Internal with external as required.	No	Yes and yes	Plan in place in line with Anglo American's Long term Sustainability Mining Plan.	
53	Anglo American	Anglo Operations (Pty) Ltd	Coal SA	Anglo American	South Africa	Soudhrop	Schurman Dump	25.59.07.1 - 29.26.39.6	Devised and Operated	Closed	2013	Yes	Dry Stack	11	0.7M	0.7M	2012	Yes	Significant	Anglo American Technical Standard (IA TS 001 001)	No	Internal with external as required.	No	Yes and yes	Plan in place in line with Anglo American's Long term Sustainability Mining Plan.	
54	Anglo American	Anglo Operations (Pty) Ltd	Coal SA	Anglo American	South Africa	Soudhrop	Soudhrop Co-disposal	16.05.41.5 - 29.26.43.6	Devised and Operated	Active	2002	Yes	Downstream, See Q20 for more information	14	718.2M coarse, 9.8M fines	21.84M coarse, 10.55M fines	2011	Yes	Major	Anglo American Technical Standard (IA TS 020 001)	No	Both	Yes, Q4 2018	Yes and yes	Plan in place in line with Anglo American's Long term Sustainability Mining Plan.	

88	Anglo American Platinum	Umkhondo (Private) Limited	Platinum	Anglo American - Public Investment Corporation, Other shareholders	Zimbabwe	Umkhondo
89	Anglo American Platinum	Redding Platinum Mines (Pty) Ltd	Platinum	Anglo American - Public Investment Corporation, Other shareholders	South Africa	Redding Smelter
90	Anglo American Platinum	Redding Platinum Mines (Pty) Ltd	Platinum	Anglo American - Public Investment Corporation, Other shareholders	South Africa	Redding Smelter
91	Anglo American Platinum	Umkhondo (Private) Limited	Platinum	Anglo American - Public Investment Corporation, Other shareholders	Zimbabwe	Umkhondo

Dam 1	39,024217 \$, 82,02222 \$	Owned and Operated	Active	2020	Yes, See Q20 for more information	Hybrid	24	7.9 M	14.7M	2017, See Q20 for more information	Yes	Major	Anglo American Technical Standard (AA TS 602 001)	Yes, see Q20m for more information	Both	Yes	Yes	Yes	<p>Q6 & Q7- Original design allowed for specific wall raises of several metres at a time to be constructed using Cms, at appropriate time intervals, with a downstream geometry. The first phase of the original wall raising methodology followed a centreline geometry (up to elevation 1203 mams). A temporary berm is being constructed upstream using deposited tailings. The design was referred to as the "Historic Wall Raise" and is limited to a 3m height increment only, to allow time for the next wall raises to be designed. The basis of design and construction will be followed until the implementation of the Future Wall Raise that is currently at design stage.</p> <p>Q11 Independent Technical Review Panel (ITRP)</p> <p>Q12: Substantial of initial and wall raises 1 and 2, but incomplete construction records for wall raise 3.</p> <p>Q13: Formal ICS review report is completed and pending release by an external consultant, and then approved by the Board of M&P.</p> <p>Q15: External slope of the outer surface of the TSP walls, caused as a consequence of heavy and continuous rainfall, has been repaired and the construction activities have been completed. The non-sloped portions of the slopes, which were not in danger of being unstable, were incorporated into the remedial measures. The geometry of the entire outer slopes of both walls has been modified, and as a consequence thereof, the stability of the outer wall slopes has been improved. Risk of future damage of a similar nature has been significantly reduced.</p> <p>Q17: A dam breach and inundation study was completed in 2018. It modelled failures at an interim elevation of 1204 mams which is current year 2019 elevation). Final design height is above this elevation.</p> <p>Q18: There is a closure plan currently at conceptual level of details at the life of mine as still very long.</p> <p>Q19: Extreme events due to climate change will be assessed company wide for managed ops within the next 2 years.</p> <p>Q21: Remedial ICS report is completed and pending release by an external consultant, and then approved by the Board of M&P.</p> <p>Q22: Annual Stability Evaluation done by independent Engineer</p> <p>Q27: As part of EA, RMP studies for dam extension in 2025.</p> <p>Q28: A closure plan that includes the slag dump is in place. Ground water monitoring is done on quarterly basis and will continue post closure as will be specified in detailed closure plan.</p> <p>Q29: Extreme events due to climate change will be assessed company wide for managed ops within the next 2 years.</p>
Redding Slag Stockpile	16,031604 \$, 26,4039 \$	Owned and Operated	Active	2020	Yes	Spy stack	28	1.2M (granulated)	1M (granulated)	2018	Yes	Low/Moderate	Local regulations (SANS 10286:1998) and Anglo American Technical Standard (AA TS 602 001)	No	Both	Yes	Yes	Yes	<p>Q21: Remedial ICS report is completed and pending release by an external consultant, and then approved by the Board of M&P.</p> <p>Q22: Annual Stability Evaluation done by independent Engineer</p> <p>Q27: As part of EA, RMP studies for dam extension in 2025.</p> <p>Q28: A closure plan that includes the slag dump is in place. Ground water monitoring is done on quarterly basis and will continue post closure as will be specified in detailed closure plan.</p> <p>Q29: Extreme events due to climate change will be assessed company wide for managed ops within the next 2 years.</p> <p>Q31: Dumping slag using the natural angle of repose of the slag using dump-trucks and Front End Loader following a dumping procedure.</p> <p>Q32: The initial design, operation and maintenance records are incorporated within the Mandatory Code of practice.</p> <p>Q33: Annual Stability Evaluation done by independent Engineer</p> <p>Q37: Assessment was initially undertaken in 2006 and was again conducted in August 2016.</p> <p>Q38: A closure plan that includes the slag dump is in place. Ground water monitoring is done on quarterly basis and will continue post closure as will be specified in detailed closure plan clear to end of life of the smelter.</p> <p>Q39: Extreme events due to climate change will be assessed company wide for managed ops within the next 2 years.</p>
Redding Slag Stockpile	16,031604 \$, 27,144167 \$	Owned and Operated	Active	2020	Yes	Spy stack	28	1.2M (granulated)	1M (granulated)	Aug 2016	Yes	Low/Moderate	Local regulations (SANS 10286:1998) and Anglo American Technical Standard (AA TS 602 001)	No	Both	Yes	Yes	Yes	<p>Q21: Remedial ICS report is completed and pending release by an external consultant, and then approved by the Board of M&P.</p> <p>Q22: Annual Stability Evaluation done by independent Engineer</p> <p>Q27: As part of EA, RMP studies for dam extension in 2025.</p> <p>Q28: A closure plan that includes the slag dump is in place. Ground water monitoring is done on quarterly basis and will continue post closure as will be specified in detailed closure plan.</p> <p>Q29: Extreme events due to climate change will be assessed company wide for managed ops within the next 2 years.</p> <p>Q31: Dumping slag using the natural angle of repose of the slag using dump-trucks and Front End Loader following a dumping procedure.</p> <p>Q32: The initial design, operation and maintenance records are incorporated within the Mandatory Code of practice.</p> <p>Q33: Annual Stability Evaluation done by independent Engineer</p> <p>Q37: Assessment was initially undertaken in 2006 and was again conducted in August 2016.</p> <p>Q38: A closure plan that includes the slag dump is in place. Ground water monitoring is done on quarterly basis and will continue post closure as will be specified in detailed closure plan clear to end of life of the smelter.</p> <p>Q39: Extreme events due to climate change will be assessed company wide for managed ops within the next 2 years.</p>
Umkhondo Slag Stockpile	18,61304 \$, 30,09767 \$	Owned and Operated	Active	2018	Yes	Spy stack	Stockpile commissioned October 2018	1.02M (granulated)	1.12M (granulated)	Design 2018	Yes - project documentation	Insignificant	Anglo American Technical Standard (AA TS 602 001)	No	Both	Yes	No	Yes	<p>Q21: Remedial ICS report is completed and pending release by an external consultant, and then approved by the Board of M&P.</p> <p>Q22: Annual Stability Evaluation done by independent Engineer</p> <p>Q27: As part of EA, RMP studies for dam extension in 2025.</p> <p>Q28: A closure plan that includes the slag dump is in place. Ground water monitoring is done on quarterly basis and will continue post closure as will be specified in detailed closure plan.</p> <p>Q29: Extreme events due to climate change will be assessed company wide for managed ops within the next 2 years.</p> <p>Q31: Dumping slag using the natural angle of repose of the slag using dump-trucks and Front End Loader following a dumping procedure.</p> <p>Q32: Original Design documentation for the project exists.</p> <p>Q33: Annual Stability Evaluation will be done by independent Engineer</p> <p>Q37: As part of EA, RMP studies for the Smelter Project.</p> <p>Q38: The Smelter closure plan will be incorporated into the Umkhondo site closure plan.</p> <p>Q39: Extreme events due to climate change will be assessed company wide for managed ops within the next 2 years.</p>