

Northern Star Resources Limited
Church of England Tailings Dam Management Disclosure - March 2019

| Site | 1. Tailings Facility Name | 2. Location (latitude/longitude) | 3. Ownership (as of March 2019) | 4. Status | 5. Date of Initial Operation | 6. Is the Dam currently operated or closed as per currently approved design? (Yes/No) | 7. Raising Method | 8. Current Maximum Height (m) | 9. Current tailings storage impoundment volume (m3 as at March 2019) | 10. Planned Tailings storage impoundment volume in 5 years time (m3 as planned for January 2024) | 11. Most recent independent expert review (date) | 12. Do you have full and complete relevant engineering records including design, construction, operation, maintenance and/or closure? (Yes/No) | 13. What is your hazard categorisation of this facility, based on the consequence of failure? | 14. What guideline to you follow for the classification system? | 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). (Yes/No) | 16. Do you have internal/in house engineering specialist oversight of this facility? Or do you have external engineering support for this purpose? | 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? | 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? (Yes/No) | 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. |
|-----------------------------|---|---|---------------------------------|--------------------------|------------------------------|---|-----------------------|--------------------------------|--|--|--|--|---|---|--|--|---|---|---|
| Ashburton | TSF | Latitude: -23.429 Longitude: 117.908 | Owned and operated | Closed and Rehabilitated | December 1998 | Yes | Upstream | 16 | 2,050,000 | 2,050,000 | Not available | No | Unknown | Not classified | Unknown | Internal | No | No | Q12.Due to the historic ownership and rehabilitation of the facility NSR holds no records for its design, construction or operation. Q18. Rehabilitation was completed in 2007 and post-closure monitoring was completed for a period of 10 years. |
| Central Tanami Project | TSF Cell 1 | Latitude: -19.972 Longitude: 129.720 | JV - 40% | Closed and Rehabilitated | 1993 | Yes | Uncertain | 12 | Unknown | no planned changes - facility is closed | Not available | No | Unknown | Not classified | Unknown | Internal | Unknown | No | Q12.Due to the historic ownership and rehabilitation of the facility NSR holds no records for its design, construction or operation. |
| | TSF Cell 2 | Latitude: -19.968 Longitude: 129.730 | JV - 40% | Closed and Rehabilitated | 1993 | Yes | Uncertain | 5 | Unknown | no planned changes - facility is closed | Not available | No | Unknown | Not classified | Unknown | Internal | Unknown | No | Q12.Due to the historic ownership and rehabilitation of the facility NSR holds no records for its design, construction or operation. |
| | TSF Cell 3 | Latitude: -19.971 Longitude: 129.728 | JV - 40% | Closed and Rehabilitated | 1997 | Yes | Uncertain | 8 | Unknown | no planned changes - facility is closed | Not available | No | Unknown | Not classified | Unknown | Internal | Unknown | No | Q12.Due to the historic ownership and rehabilitation of the facility NSR holds no records for its design, construction or operation. |
| | Dice | Latitude: -19.956 Longitude: 129.722 | JV - 40% | Closed and Rehabilitated | 1999 | Yes | In-Pit | ground level | no above ground storage | no above ground storage | Not available | No | Unknown | Not classified | Unknown | Internal | N/A | No | Q12.Due to the historic ownership and rehabilitation of the facility NSR holds no records for its design, construction or operation. |
| | Airstrip | Latitude: -19.964 Longitude: 129.718 | JV - 40% | Closed and Rehabilitated | unknown | Yes | In-Pit | ground level | no above ground storage | no above ground storage | Not available | No | Unknown | Not classified | Unknown | Internal | N/A | No | Yes but fully relinquished |
| | Dingo | Latitude: -19.962 Longitude: 129.712 | JV - 40% | Closed and Rehabilitated | unknown | Yes | In-Pit | ground level | no above ground storage | no above ground storage | Not available | No | Unknown | Not classified | Unknown | Internal | N/A | No | Q12.Due to the historic ownership and rehabilitation of the facility NSR holds no records for its design, construction or operation. |
| | North Temby | Latitude: -19.967 Longitude: 129.717 | JV - 40% | Closed and Rehabilitated | unknown | Yes | In-Pit | ground level | no above ground storage | no above ground storage | Not available | No | Unknown | Not classified | Unknown | Internal | N/A | No | Fully relinquished and no further rbs. |
| | South Temby | Latitude: -19.970 Longitude: 129.715 | JV - 40% | Closed and Rehabilitated | unknown | Yes | In-Pit | ground level | no above ground storage | no above ground storage | Not available | No | Unknown | Not classified | Unknown | Internal | N/A | No | |
| | Central | Latitude: -19.971 Longitude: 129.713 | JV - 40% | Closed and Rehabilitated | unknown | Yes | In-Pit | ground level | no above ground storage | no above ground storage | Not available | No | Unknown | Not classified | Unknown | Internal | N/A | No | |
| | Reward | Latitude: -19.973 Longitude: 129.709 | JV - 40% | Closed and Rehabilitated | unknown | Yes | In-Pit | ground level | no above ground storage | no above ground storage | Not available | No | Unknown | Not classified | Unknown | Internal | N/A | No | |
| | Assault | Latitude: -19.975 Longitude: 129.711 | JV - 40% | Closed and Rehabilitated | unknown | Yes | In-Pit | ground level | no above ground storage | no above ground storage | Not available | No | Unknown | Not classified | Unknown | Internal | N/A | No | |
| | Battery | Latitude: -19.975 Longitude: 129.712 | JV - 40% | Closed and Rehabilitated | unknown | Yes | In-Pit | ground level | no above ground storage | no above ground storage | Not available | No | Unknown | Not classified | Unknown | Internal | N/A | No | |
| | Bumper | Latitude: -19.981 Longitude: 129.694 | JV - 40% | Closed and Rehabilitated | 2001 | Yes | In-Pit | ground level | no above ground storage | no above ground storage | Not available | No | Unknown | Not classified | Unknown | Internal | N/A | No | |
| Bouncer | Latitude: -19.984 Longitude: 129.691 | JV - 40% | Closed and Rehabilitated | 2001 | Yes | In-Pit | ground level | no above ground storage | no above ground storage | Not available | No | Unknown | Not classified | Unknown | Internal | N/A | No | | |
| Jundee | TSF 1 | Latitude: -26.351 Longitude: 120.618 | Owned and operated | Active | October 1995 | Yes | Upstream | 18 | 7,700,000 | 11,500,000 | Not available | Yes | Category 1 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | Yes 28-Jun-2019 | Yes | |
| | TSF 2 | Latitude: -26.346 Longitude: 120.598 | Owned and operated | Active | December 1999 | Yes | Upstream | 17.4 | 12,200,000 | 13,400,000 | Not available | Yes | Category 1 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | Yes 28-Jun-2019 | Yes | |
| | Fisher in-pit TSF | Latitude: -26.367 Longitude: 120.600 | Owned and operated | Active | July 2004 | Yes | In-Pit | ground level | no above ground storage | no above ground storage | Not available | Yes | Category 3 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | N/A | Yes | |
| | Ninary TSF1 | Latitude: -26.381 Longitude: 120.574 | Owned and operated | Closed and Rehabilitated | Dec-95 | Yes | Upstream | 26.2 | 8,700,000 | 8,700,000 | Not available | No | Category 1 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | No | No | |
| | TSF1 Cell 1 | Latitude: -30.593 Longitude: 121.565 | Owned and operated | Active | August 1993 | Yes | Upstream | 22.5 | 7,700,000 | 7,700,000 | 3-Dec-18 | No | Category 1 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | No | Yes | |
| Kanowna Belle | TSF1 Cell 2 | Latitude: -30.593 Longitude: 121.571 | Owned and operated | Active | January 1994 | Yes | Upstream | 22.5 | 7,700,000 | 7,700,000 | 3-Dec-18 | No | Category 1 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | No | Yes | |
| | Red Hill In-Pit TSF | Latitude: -30.596 Longitude: 121.612 | Owned and operated | Active | July 2008 | Yes | In-Pit | ground level | no above ground storage | no above ground storage | 3-Dec-18 | No | Category 3 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | N/A | Yes | |
| | Calcline TSF | Latitude: -30.600 Longitude: 121.577 | Owned and operated | Closed | April 1994 | Yes | Uncertain | 4 | 106,350 | 106,350 | 3-Dec-18 | No | Category 3 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | No | No | |
| | Waldon in-pit TSF | Latitude: -30.589 Longitude: 121.601 | Owned and operated | Closed | January 2017 | Yes | In-Pit | ground level | no above ground storage | no above ground storage | Not available | No | Category 3 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | N/A | No | Q18 The Kanowna Belle Closure Plan is currently under development to include an updated closure strategy for Waldon in-pit TSF |
| | TSF2 | Latitude: -30.586 Longitude: 121.268 | Owned and operated | Active | Not operated at March 2019 | Yes | Upstream | 6 | - | 15,700,000 | Not available | Yes | Category 3 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | Yes 10-Aug-2017 | Yes | Q18 The Kanowna Belle Closure Plan is currently under development to include a closure strategy for TSF2 |
| | Historical QED TSF | Latitude: -30.587 Longitude: 121.582 | Owned and operated | Closed and Rehabilitated | unknown | Unknown | Uncertain | Unknown | Unknown | no planned changes - facility is closed | Not available | No | Unknown | Not classified | Unknown | Internal | Unknown | No | |
| | TSF1 | Latitude: -30.706 Longitude: 121.219 | Owned and operated | Inactive | December 1988 | Yes | Upstream | 18 | 1,484,000 | 1,484,000 | 26-Feb-18 | No | Category 1 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | No | Yes | Q6 - tailings is being reclaimed for paste fill |
| Kundana | TSF 2 | Latitude: -30.710 Longitude: 121.222 | Owned and operated | Inactive | October 1997 | Yes | Upstream | 17.5 | 1,271,000 | 1,271,000 | 26-Feb-18 | No | Category 1 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | No | Yes | Q6 - tailings is being reclaimed for paste fill |
| | TSF 3 Cell A | Latitude: -30.706 Longitude: 121.215 | Owned and operated | Inactive | April 2002 | Yes | Upstream | 9 | 190,000 | 190,000 | 26-Feb-18 | No | Category 1 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | No | Yes | Q6 - tailings is being reclaimed for paste fill |
| | TSF 3 Cell B | Latitude: -30.709 Longitude: 121.218 | Owned and operated | Inactive | May 2002 | Yes | Upstream | 8 | 400,000 | 400,000 | 26-Feb-18 | No | Category 1 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | No | Yes | Q6 - tailings is being reclaimed for paste fill |
| | TSF 3 Cell C | Latitude: -30.713 Longitude: 121.220 | Owned and operated | Inactive | November 2002 | Yes | Upstream | 11 | 1,150,000 | 1,150,000 | 26-Feb-18 | No | Category 1 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | No | Yes | Q6 - tailings is being reclaimed for paste fill |
| Paulsens | TSF | Latitude: -22.576 Longitude: 116.235 | Owned and operated | Care and Maintenance | May 2005 | Yes | Upstream | 14.85 | 2,900,000 | 2,629,200 | Not available | Yes | Category 2 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | Yes 2013 | Yes | |
| Pogo | Dry Stack Tailings Facility | RTP Dam - Latitude: 64.451117, Longitude: -144.892750 | Owned and operated | Active | 2004 | Yes | Upstream | 145 More information in Q20 | Approximately 2.1 million cubic meters | Approximately 3.2 million cubic meters | 2014 | Yes | Class I (Significant) | Title 11 of the Alaska Administrative Code (AAC) 93.157, set by the Alaska Dam Safety Program (ADSP). | No | Internal | Yes May 2011. | Yes | Q8. This facility is constructed in a valley at a 3:1 slope and the 145m height refers to the difference between the toe elevation and the top of the facility. No section of the DSTF is 145m in thickness. |
| South Kalgoorlie Operations | Jubilee TSF1 | Latitude: -31.042 Longitude: 121.618 | Owned and operated | Closed | unknown | Unknown | Uncertain | Unknown | Unknown | no planned changes - facility is closed | Not available | No | Unknown | Not classified | Unknown | Internal | Unknown | No | Q.18 Current regulations do not require a Mine Closure Plan for this facility. Internal regulations do require a closure strategy which is currently a work in progress. |
| | Jubilee TSF2 | Latitude: -31.039 Longitude: 121.623 | Owned and operated | Closed | unknown | Unknown | Uncertain | Unknown | Unknown | no planned changes - facility is closed | Not available | No | Unknown | Not classified | Unknown | Internal | Unknown | No | Q.18 Current regulations do not require a Mine Closure Plan for this facility. Internal regulations do require a closure strategy which is currently a work in progress. |
| | Jubilee 3A & 3B | Latitude: -31.044 Longitude: 121.625 | Owned and operated | Active | October 1994 | Yes | Upstream | 29.5 | 3,997,000 | 6,480,000 | 19-Nov-18 | No | Category 1 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | Unknown | Yes | Q.18 Current regulations do not require a Mine Closure Plan for this facility. Internal regulations do require a closure strategy which is currently a work in progress. |
| | New Celebration TSF1 | Latitude: -31.022 Longitude: 121.613 | Owned and operated | Closed | 1986 | Unknown | Upstream & Centreline | 18 | 2,020,000 | 2,020,000 | Mar-2009 | No | Category 1 | Department of Industry and Resources (1999) - Guidelines on the Safe Design and Operating Standards for Tailings Storage [in Western Australia] | Unknown | Internal | Unknown | No | Q.18 Current regulations do not require a Mine Closure Plan for this facility. Internal regulations do require a closure strategy which is currently a work in progress. This facility has been covered with waste rock |
| | New Celebration TSF2 | Latitude: -31.018 Longitude: 121.613 | Owned and operated | Closed | 1989 | Unknown | Upstream & Centreline | 30 | 9,700,000 | 9,700,000 | Mar-2010 | No | Category 2 | Department of Industry and Resources (1999) - Guidelines on the Safe Design and Operating Standards for Tailings Storage [in Western Australia] | Unknown | Internal | Unknown | No | This facility has been covered with waste rock |
| | New Celebration 3A & 3B | Latitude: -31.020 Longitude: 121.618 | Owned and operated | Closed | 1997 | Unknown | Upstream | 15 | 3,500,000 | 3,500,000 | Mar-2011 | No | Category 3 | Department of Industry and Resources (1999) - Guidelines on the Safe Design and Operating Standards for Tailings Storage [in Western Australia] | Unknown | Internal | Unknown | No | |
| | Golden Hope North In-pit TSF | Latitude: -31.045 Longitude: 121.614 | Owned and operated | Active | September 2003 | Yes | In Pit | ground level | no above ground storage | no above ground storage | Oct-2017 | No | Category 3 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal & External | N/A | Yes | Q.18 Current regulations do not require a Mine Closure Plan for this facility. Internal regulations do require a closure strategy which is currently a work in progress. |
| | Mt Goddard in-pit TSF | Latitude: -31.157 Longitude: 121.609 | Owned and operated | Active | July 2007 | Yes | In Pit | ground level | no above ground storage | no above ground storage | Oct-2017 | No | Category 3 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal & External | N/A | Yes | Q.18 Current regulations do not require a Mine Closure Plan for this facility. Internal regulations do require a closure strategy which is currently a work in progress. |

Northern Star Resources Limited
Church of England Tailings Dam Management Disclosure - March 2019

| Site | 1. Tailings Facility Name | 2. Location (latitude/longitude) | 3. Ownership (as of March 2019) | 4. Status | 5. Date of Initial Operation | 6. Is the Dam currently operated or closed as per currently approved design? (Yes/No) | 7. Raising Method | 8. Current Maximum Height (m) | 9. Current tailings storage impoundment volume (m3 as at March 2019) | 10. Planned Tailings storage impoundment volume in 5 years time (m3 as planned for January 2024) | 11. Most recent independent expert review (date) | 12. Do you have full and complete relevant engineering records including design, construction, operation, maintenance and/or closure? (Yes/No) | 13. What is your hazard categorisation of this facility, based on the consequence of failure? | 14. What guideline to you follow for the classification system? | 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). (Yes/No) | 16. Do you have internal/in house engineering specialist oversight of this facility? Or do you have external engineering support for this purpose? | 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? | 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? (Yes/No) | 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. |
|------------------------|---------------------------|---|---------------------------------|----------------------|------------------------------|---|-------------------|-------------------------------|--|--|--|--|---|--|--|--|---|---|--|
| | Samphire in-pit TSF | Latitude: -31.070 Longitude: 121.531 | Owned and operated | Active | July 2007 | Yes | In Pit | ground level | no above ground storage | no above ground storage | Oct-2017 | No | Category 3 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal & External | N/A | Yes | |
| | Bellevue in-pit TSF | Latitude: -31.030 Longitude: 121.642 | Owned and operated | Closed | October 2006 | Yes | In Pit | ground level | no above ground storage | no above ground storage | Oct-2017 | No | Category 3 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | N/A | No | |
| Western Tanami Project | TSF 1 | Latitude: -19.891 Longitude: 128.830 | Owned and operated | Care and Maintenance | 2006 | Yes | Upstream | 8.5 | 320,000 | 320,000 | 28-Jun-16 | No | Category 3 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | Yes December 2012 | Yes | |
| | TSF 2 | Latitude: -19.891 Longitude: 128.834 | Owned and operated | Care and Maintenance | 2008 | Yes | Upstream | 5.5 | 970,000 | 970,000 | Oct-2017 | No | Category 3 | Department of Mines, Industry Regulation and Safety (2013) Code of Practice - Tailings Storage Facilities in Western Australia | No | Internal | Yes December 2012 | Yes | |