



DWER Annual Environmental Report L8644/2012/1 – Tuckabianna Project

31 March 2025

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Mining Area	Cue Gold Operations
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APPENDICES

Appendix A: L8644/2012/1 Annual Audit Compliance Report

1. INTRODUCTION

Big Bell Gold Operations Pty Ltd (BBGO), a wholly owned subsidiary of Westgold Resources Limited (Westgold), owns and operates the Tuckabianna Project in the Murchison region of Western Australia. *Environmental Protection Act 1986* (EP Act) Licence L8644/2012/1, which was issued on 23 August 2012 and is valid until 26 August 2027, covers the following prescribed premises categories:

- 5 – Processing or beneficiation of metallic and non-metallic ore.
- 6 – Mine dewatering.
- 61 – Liquid waste facility; and
- 64 – Class II putrescible landfill site.

BBGO holds EP Act Licence L8644/2012/1 which permits the processing or beneficiation of metallic or non-metallic ore of up to 1,400,000 tonnes per annual period, mine dewatering of up to 1,700,000 tonnes per annual period, the storage of liquid waste up to 500,000 tonnes per annual period and the operation of a 500 tonnes per annual period putrescible landfill.

Works Approval W6880/2024/1 was approved on 10/05/2024 and amended to extend time limited operations approved 06/01/2026. This permits the construction and commissioning of Tuckabianna West In-Pit TSF (TWTSF) and TSF3 under Category 5 - Processing or beneficiation of metallic and non-metallic ore. BBGO has recently ceased deposition at TSF2 in March 2024 with deposition beginning into TWTSF following construction in line with W6880/2024/1 and submission of the Environmental Compliance Report to DWER. BBGO has submitted an amendment to DWER for L8644/2012/1 to include the operation TWTSF on the Licence.

2. SUMMARY OF AUTHORISED ACTIVITIES

A summary of the activities authorised under L8644/2012/1 is presented in Table 1. BBGO did not exceed the approved production limits for any category during the annual period. This Annual Environmental Report (AER) and the attached Annual Audit Compliance Report (AACR) (Appendix A) have been prepared by BBGO to satisfy the annual reporting period of 01/01/2025 to 31/12/2025.

Table 1: Summary of Authorised Activities

Category Number	Category Description	Approved Premises Production or Design Capacity	Production 2025
5	Processing or Beneficiation of Ore	1,400,000 tonnes per annual period	1,274,796
6	Mine Dewatering	1,700,000 tonnes per annual period	331,083
61	Liquid Waste Facility	1,000,000 tonnes per annual period	242,950
64	Class II Putrescible Landfill	500 tonnes per annual period	218

2.1 Category 5 – Processing or Beneficiation of Ore

A total of 1,274,796 tonnes of ore was processed during the annual period.

2.2 Category 6 – Mine Dewatering

A total of 331,083 tonnes of water was abstracted from the Caustons Main, Friars, Jaffa's Folly and Tuckabianna West pits during the annual period, which is 19.5% of the assessed capacity of 1,700,000 tonnes. Of this, 324,133 tonnes were transferred from Tuckabianna West and Caustons pits for use in the

processing of ore or as raw water and 6,950 tonnes were pumped to the Friars or Jaffa's Folly standpipes for dust suppression on haul and access roads.

The significant drop in the reported tonnes of mine dewatering within this reporting period in comparison to the previous 2024 reporting period (1 January 2024 – 31 December 2024) which recorded a total volume of 1,213,983 tonnes of mine dewatering, is due to the transition of Tuckabianna West Pit into an in-pit TSF. The loss of Tuckabianna West Pit as a pit abstraction point coupled with the transition to production bores as a raw water source to feed the mill, it has significantly decreased the volume of mine dewatering undertaken within the 2025 reporting period.

2.3 Category 61 – Liquid Waste Facility

242,950 tonnes of mine water were discharged to Friars pit from Comet North pit and Eclipse pit approved under Licence L8978/2016/1 (Comet Project) during the annual period.

2.4 Category 64 – Class II Putrescible Landfill

Approximately 218 tonnes of inert and putrescible waste was disposed of at the Tuckabianna combined industrial and putrescible landfill. The volume of waste disposed was calculated using default bulk density values (Appendix B of the Waste Avoidance and Resource Recovery Amendment Regulations 2019) and bin composition estimations.

3. SUMMARY OF ENVIRONMENTAL INCIDENTS

Eleven (11) environmental incidents were recorded at Tuckabianna during the annual period. Further details are provided in Table 2.

Table 2: Summary of Environmental Incidents

Date	INX Event	Category	Incident Description
28/12/2025	320027	Fauna	Dead bird in Tuckabianna Washpad Sump
18/11/2025	315042	Licence Exceedance	TBS3 Monitoring Bore licence parameter exceedance recorded above limit 5000mg/L limit of Total Dissolved Solids (TDS) reading a value of 5930mg/L N1 Notification Submitted to DWER 11/07/2025
12/10/2025	309649	Tailings	Minor hose failure resulting in uncontrolled discharge of an estimated ~2000L of tailings to the immediate mining footprint. No native vegetation was impacted. N1 Notification Submitted to DWER 13/10/2025
25/09/2025	307547	Saline Water	While using the IT bucket to pick up a pile of dirt, an unidentified above-ground raw water pipe was encountered within the material resulting in a raw water spill within existing disturbed area.
11/07/2025	296239	Licence Exceedance	TBS3 Monitoring Bore licence parameter exceedance recorded above limit of 3000mg/L Sulphate (SO ₄) with a value of 3,600mg/L and 5000mg/L limit of Total Dissolved Solids (TDS) reading a value of 6,000mg/L N1 Notification Submitted to DWER 11/07/2025
23/05/2025	288163	Hydrocarbons	While removing a fuel nozzle off an old fuel hose reel, the hose reel retracted causing a minor diesel spill in the process plant workshop.
27/04/2025	284136	Fauna	Deceased kangaroo found on Tuckabianna Haul Road.
25/04/2025	283729	Fauna	Deceased bird found at process water pond.

Date	INX Event	Category	Incident Description
21/04/2025	283140	Fauna	LV123 hit a kangaroo on Wondinong cue road near the tip
10/04/2025	-	Licence Exceedance	TBS3 Monitoring Bore licence parameter exceedance recorded above limit of 3000mg/L Sulphate (SO ₄) with a value of 3,300mg/L and 5000mg/L limit of Total Dissolved Solids (TDS) reading a value of 6,100mg/L N1 Notification Submitted to DWER 10/04/25
02/04/2025	280236	Fauna	LV interacted with kangaroo on Cue-Wondinong Rd
01/04/2025	280262	Tailings	Tailings spillage following fault with TWTSF Booster Station N1 Notification submitted to DWER 03/04/25 Waste Discharge Notification Form submitted 03/04/25
26/03/2025	279350	Chemicals	Hydrochloric acid (HCL) pump fault led to discharge into bunded area - no injury or exposure to personnel.
24/03/2025	278745	Tailings	Tailings spillage following fault with TWTSF Booster Station.
02/03/2025	275554	Other	Slurry spillage outside of the Mill bund.

TBS3 recorded three minor licence limit exceedances for TDS (Q1, Q3, Q4) and two for sulphate (Q2, Q3) during the 2025 reporting period and sulphate (Q1 and Q2 2025) and TDS all 2025 as mentioned above in Table 2.

An investigation was undertaken by BBGO in 2021 following requests from DWER that assessed the seepage of TSF2 utilising hydrogeological, hydrological and geophysical studies. It was concluded that seepage is most likely localised to TBS3 with none of the other TSF2 recording exceedances and water chemistry staying relatively stable.

Investigative vegetation assessments (TQ03, TQ04, TQ05 and TQ07) have continued to be undertaken as depicted in Section 8. No adverse effects to these vegetation communities have been identified since monitoring begun in 2020.

BBGO has been conducting monitoring at the TSF3 bores (TBS6 – TBS12) to monitor potential downstream impacts to the south of TSF2. No exceedances of TBS or sulphate have been recorded at any of the TSF3 bores.

As Julies Reward In-pit TSF (JRTSF) filled, a minor exceedance of TDS (4,600 mg/L) in Q2-2024 was recorded at JMB005 which is located directly adjacent to the supernatant pond. Tailings deposition ceased in June 2024 and the pond has since dissipated. Monitoring at JMB005 indicates that the TDS is returning to pre-deposition TDS.

Active deposition of tailings to TSF2 ceased in March 2025, with tailings discharge transferred to the Tuckabianna West TSF (TWTSF). Water quality around TSB3 is expected to recover to previous quality limits.

4. COMPLAINTS

A community complaints register is maintained by BBGO through the use of Infoscope, a safety and environmental database system. No community complaints were received in relation to activities undertaken within the Tuckabianna Project area during the annual period.

5. MONITORING OF POINT SOURCE EMISSIONS TO GROUNDWATER

Mine water was pumped or discharged to Friars (from Comet Project) and Tuckabianna West (from Friars) during the annual reporting period. Only abstraction occurred at Tuckabianna West, Jaffa's Folly, Caustons and Friars pits. The water distribution network, provided as Figure 1, demonstrates the following:

- Tuckabianna West pit was operational from March 2025 for tailings deposition and return water was utilised as process water for the mill during the annual period;
- Caustons pit was utilised as raw water for the mill during the annual period;
- TSF2 was utilised until March 2025 decant water pumped back to the Tuckabianna processing facility and used as process water;
- Friars pit was utilised as a water source for dust suppression; and
- Water was discharged into Friars (from Comet Project) and Tuckabianna West (from Friars) pits.

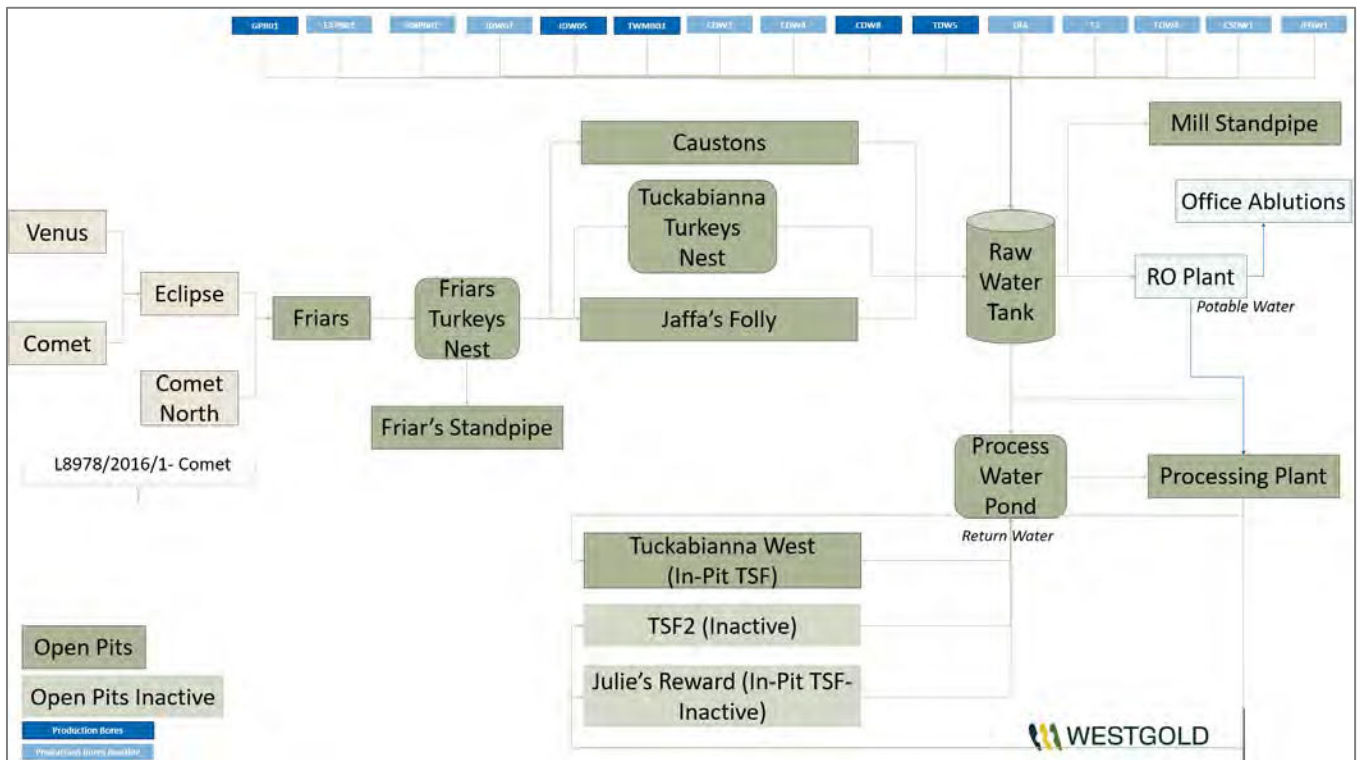


Figure 1: Tuckabianna Water Distribution Network 2025

Section 5 provides forms in the specified format (GR1) to present the results of monitoring of ambient groundwater quality.

Licence: L8644/2012/1

Form: GR1

Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd

Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater

Emission point	Parameter	Units ¹	Result				Comments, sample date & times
			Q1	Q2	Q3	Q4	
Friars	pH	N/A	8.3	8.4	8.47	8.03	Q1:23/03/2025 11:00
	Total Dissolved Solids (TDS)	mg/L	2400	2626	2730	2593	Q2:27/06/2025 12:00
	Arsenic (As)	mg/L	0.0061				Q3:24/09/2025 12:00
	Cadmium (Cd)	mg/L	<0.00005				Q4: 02/01/2026 12:30
	Chromium (Cr)	mg/L	0.0037				
	Copper (Cu)	mg/L	<0.0005				
	Lead (Pb)	mg/L	0.0005				
	Manganese (Mn)	mg/L	0.005				
	Mercury (Hg)	mg/L	0.00005				
	Molybdenum (Mo)	mg/L	0.024				
	Nickel (Ni)	mg/L	0.004				
	Total Recoverable Hydrocarbons (TRH)	mg/L	<0.05				
	Selenium (Se)	mg/L	0.004				
	Zinc (Zn)	mg/L	0.003				
Standing water level (SWL) in pits	mbgl	391.6	391.4	-	394		

Notes:

1: All units are referenced to STP dry

Signed on behalf of Big Bell Gold Operations Pty Ltd:

Date:

Licence: L8644/2012/1
 Form: GR1
 Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd
 Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater

Emission point	Parameter	Units ¹	Result				Comments, sample date & times
			Q1	Q2	Q3	Q4	
Tuckabianna West	pH	N/A	8.0	8.8	7.96	7.78	Q1:22/03/2025 0900
	Total Dissolved Solids (TDS)	mg/L	640	640	634	760.5	Q2: 27/06/2025 1200
	Arsenic (As)	mg/L	<0.001				Q3:30/09/2025 1215
	Cadmium (Cd)	mg/L	<0.0001				Q4:20/12/2025 0815
	Chromium (Cr)	mg/L	0.004				
	Copper (Cu)	mg/L	<0.001				
	Lead (Pb)	mg/L	<0.001				
	Manganese (Mn)	mg/L	0.120				
	Mercury (Hg)	mg/L	<0.0001				
	Molybdenum (Mo)	mg/L	0.001				
	Nickel (Ni)	mg/L	0.405				
	Total Recoverable Hydrocarbons (TRH)	mg/L	-				
	Selenium (Se)	mg/L	<0.004				
	Zinc (Zn)	mg/L	<0.005				
Standing water level (SWL) in pits	mbgl		387.6	387.6	-	412.5	

Notes:

1: All units are referenced to STP dry

Signed on behalf of Big Bell Gold Operations Pty Ltd:

Date:

Licence: L8644/2012/1

Form: GR1

Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd

Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater

Emission point	Parameter	Units ¹	Result				Comments, sample date & times
			Q1	Q2	Q3	Q4	
Jaffa's Folly	pH	N/A	7.6	8.56	8.02	8.1	Q1:23/03/2025 10:15
	Total Dissolved Solids (TDS)	mg/L	100	546	217	71	Q2:27/06/2025 12:00 Q3:24/09/2025 12:00 Q4: 02/01/2025 0750
	Arsenic (As)	mg/L	5				
	Cadmium (Cd)	mg/L	-				
	Chromium (Cr)	mg/L	0.0005				
	Copper (Cu)	mg/L	0.001				
	Lead (Pb)	mg/L	0.0005				
	Manganese (Mn)	mg/L	0.000005				
	Mercury (Hg)	mg/L	0.00005				
	Molybdenum (Mo)	mg/L	-				
	Nickel (Ni)	mg/L	0.001				
	Total Recoverable Hydrocarbons (TRH)	mg/L	-				
	Selenium (Se)	mg/L	0.001				
	Zinc (Zn)	mg/L	0.001				
Standing water level (SWL) in pits	mbgl	437.8	437	-	435.5		

Notes:

1: All units are referenced to STP dry

Signed on behalf of Big Bell Gold Operations Pty Ltd:

Date:

Licence: L8644/2012/1

Form: GR1

Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd

Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater

Emission point	Parameter	Units ¹	Result				Comments, sample date & times
			Q1	Q2	Q3	Q4	
Caustons pits	pH	N/A	8.63	8.89	7.64	-	Q1:04/03/2025 0835 Q2:27/06/2025 1200 Q3: 13/09/2025 1600 Q4:28/12/2025 0815- no sample
	Total Dissolved Solids (TDS)	mg/L	1196	1339	644	-	
	Arsenic (As)	mg/L	0.0006				
	Cadmium (Cd)	mg/L	<0.00005				
	Chromium (Cr)	mg/L	0.0026				
	Copper (Cu)	mg/L	0.0018				
	Lead (Pb)	mg/L	<0.0005				
	Manganese (Mn)	mg/L	<0.005				
	Mercury (Hg)	mg/L	<0.00005				
	Molybdenum (Mo)	mg/L	0.0026				
	Nickel (Ni)	mg/L	<0.001				
	Total Recoverable Hydrocarbons (TRH)	mg/L	<0.05				
	Selenium (Se)	mg/L	0.002				
	Zinc (Zn)	mg/L	0.001				
Standing water level (SWL) in pits	mbgl	405.3	406.9	-	407.6		

Notes:

1: All units are referenced to STP dry

Signed on behalf of Big Bell Gold Operations Pty Ltd:

Date:

6. MONITORING OF AMBIENT GROUNDWATER QUALITY

Section 6 provides forms in the specified format (GR2) to present the results of monitoring of ambient groundwater quality. The results are further discussed in Section 9.

Licence: L8644/2012/1
 Form: GR2
 Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd
 Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater

Emission point	Parameter	Limit	Units ¹	Result				Comments, sample date & times
				Q1	Q2	Q3	Q4	
TBS2	pH	-	N/A	7.6	7.6	7.64	7.16	Q1: 30/03/2025; 1550
	WAD Cyanide	-	mg/L	0.012	0.01	0.014	0.014	Q2: 27/06/2025; 0950
	Arsenic (As)	-	mg/L	<0.0005	<0.0005	<0.001	<0.001	Q3: 13/09/2025; 1515
	Cadmium (Cd)	-	mg/L	<0.0005	<0.00005	<0.0001	<0.0001	Q4: 19/12/2025; 0745
	Calcium (Ca)	-	mg/L	74	81	86	84	
	Chromium (Cr)	-	mg/L	0.0025	0.0023	0.003	0.005	
	Cobalt (Co)	-	mg/L	0.14	0.12	0.06	0.064	
	Copper (Cu)	-	mg/L	0.0006	0.0009	<0.001	<0.001	
	Lead (Pb)	-	mg/L	<0.0005	<0.0005	<0.001	<0.001	
	Molybdenum (Mo)	-	mg/L	0.0053	0.0027	<0.001	0.003	
	Potassium (K)	-	mg/L	13	13	14	16	
	Sodium (Na)	-	mg/L	210	210	214	217	
	Selenium (Se)	-	mg/L	0.001	<0.001	<0.01	<0.004	
	Total acidity	-	mg/L	5	<5	4	6	
	Vanadium (V)	-	mg/L	0.0013	0.0013	<0.01	<0.01	
	Zinc (Zn)	-	mg/L	0.002	0.002	<0.005	<0.005	
	Bicarbonate (HCO ₃)	-	mg/L	43	46	0.014	30	
SWL	-	mbgl	30.97	31.89	32.4	33.35		
Sulphate (SO ₄)	2000	mg/L	350	350	359	315		
TDS	4000	mg/L	1300	1300	1180	1190		

Notes:
1:

Signed on behalf of Big Bell Gold Operations Pty Ltd:

Date:

Licence: L8644/2012/1
 Form: GR2
 Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd
 Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater

Emission point	Parameter	Limit	Units ¹	Result				Comments, sample date & times
				Q1	Q2	Q3	Q4	
TBS3	pH	-	N/A	7.5	7.1	6.83	6.68	Q1: 04/03/2025; 0950
	WAD Cyanide	-	mg/L	0.004	0.004	0.004	0.005	Q2: 28/06/2025; 0950
	Arsenic (As)	-	mg/L	0.003	0.0006	0.001	0.001	Q3: 13/09/2025; 1130
	Cadmium (Cd)	-	mg/L	0.0016	0.0011	0.0016	0.0014	Q4: 19/12/2025; 1045
	Calcium (Ca)	-	mg/L	590	650	629	594	
	Chromium (Cr)	-	mg/L	0.001	0.0005	0.001	0.001	
	Cobalt (Co)	-	mg/L	0.26	0.17	0.225	0.255	
	Copper (Cu)	-	mg/L	0.007	0.003	0.012	0.022	
	Lead (Pb)	-	mg/L	0.001	0.0005	0.001	0.001	
	Molybdenum (Mo)	-	mg/L	0.002	0.0005	0.001	0.001	
	Potassium (K)	-	mg/L	63	66	57	62	
	Sodium (Na)	-	mg/L	490	540	520	564	
	Selenium (Se)	-	mg/L	0.001	0.001	0.01	0.004	
	Total acidity	-	mg/L	13	18	63	37	
	Vanadium (V)	-	mg/L	0.004	0.0034	0.01	0.01	
	Zinc (Zn)	-	mg/L	0.027	0.012	0.062	0.023	
	Bicarbonate (HCO ₃)	-	mg/L	110	120	125	126	
SWL	-	mbgl	13.02	12.19	10.8	10.58		
Sulphate (SO ₄)	3000	mg/L	3300	3600	2640	2840		
TDS	5000	mg/L	6100	6000	5960	5940		

Notes:

1:

Signed on behalf of Big Bell Gold Operations Pty Ltd:

Date:

Licence: L8644/2012/1

Form: GR2

Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd

Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater

Emission point	Parameter	Limit	Units ¹	Result				Comments, sample date & times
				Q1	Q2	Q3	Q4	
TBS4	pH	-	N/A	8	7.8	7.95	7.7	04/03/2025; 1000
	WAD Cyanide	-	mg/L	<0.004	<0.004	<0.004	<0.004	28/06/2025; 1015
	Arsenic (As)	-	mg/L	0.004	0.0019	0.002	0.002	13/09/2025; 1140
	Cadmium (Cd)	-	mg/L	<0.0001	<0.00005	<0.0001	<0.0001	19/12/2025; 1100
	Calcium (Ca)	-	mg/L	86	92	103	93	
	Chromium (Cr)	-	mg/L	0.008	0.0062	0.006	0.007	
	Cobalt (Co)	-	mg/L	0.014	0.0085	0.007	0.008	
	Copper (Cu)	-	mg/L	<0.001	<0.0005	0.003	0.004	
	Lead (Pb)	-	mg/L	<0.001	<0.0005	<0.001	<0.001	
	Molybdenum (Mo)	-	mg/L	<0.001	0.0011	<0.001	<0.001	
	Potassium (K)	-	mg/L	7.5	7.7	8	9	
	Sodium (Na)	-	mg/L	180	190	199	199	
	Selenium (Se)	-	mg/L	0.002	0.002	<0.01	<0.004	
	Total acidity	-	mg/L	7	8	11	12	
	Vanadium (V)	-	mg/L	0.013	0.013	0.01	0.01	
	Zinc (Zn)	-	mg/L	<0.005	<0.001	<0.005	0.006	
	Bicarbonate (HCO ₃)	-	mg/L	280	290	256	267	
	SWL	-	mbgl	13.05	13.09	13.09	13.08	
Sulphate (SO ₄)	2000	mg/L	160	170	180	152		
TDS	4000	mg/L	1200	1200	1240	1160		

Notes:

1:

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Date:

Licence: L8644/2012/1

Form: GR2

Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd

Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater

Emission point	Parameter	Limit	Units ¹	Result				Comments, sample date & times
				Q1	Q2	Q3	Q4	
TBS5	pH*	-	N/A	7.7	7.6	7.72	7.45	04/03/2025; 0920
	WAD Cyanide	-	mg/L	<0.004	<0.004	<0.004	<0.004	28/06/2025; 0940
	Arsenic (As)	-	mg/L	<0.001	<0.0005	<0.001	<0.001	15/09/2025; 1155
	Cadmium (Cd)	-	mg/L	<0.0001	<0.00005	<0.0001	<0.0001	19/12/2025; 1145
	Calcium (Ca)	-	mg/L	140	140	138	132	
	Chromium (Cr)	-	mg/L	0.02	0.014	0.011	0.009	
	Cobalt (Co)	-	mg/L	0.008	0.0042	0.003	0.004	
	Copper (Cu)	-	mg/L	0.002	<0.0005	0.002	<0.001	
	Lead (Pb)	-	mg/L	<0.001	<0.0005	<0.001	<0.001	
	Molybdenum (Mo)	-	mg/L	<0.001	0.0005	<0.001	<0.001	
	Potassium (K)	-	mg/L	11	11	11	11	
	Sodium (Na)	-	mg/L	270	280	287	284	
	Selenium (Se)	-	mg/L	0.002	0.002	<0.01	<0.004	
	Total acidity	-	mg/L	<5	<5	6	7	
	Vanadium (V)	-	mg/L	0.009	0.008	<0.01	<0.01	
	Zinc (Zn)	-	mg/L	0.006	<0.001	<0.005	<0.005	
	Bicarbonate (HCO ₃)	-	mg/L	75	73	83	69	
SWL	-	mbgl	18.92	18.69	18.35	18.01		
Sulphate (SO ₄)	2000	mg/L	320	290	298	266		
TDS	4000	mg/L	2100	1900	1910	1740		

Notes:

1:

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Date:

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Form: GR21

Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd

Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater

Emission point	Parameter	Limit	Units ¹	Result				Comments, sample date & times
				Q1	Q2	Q3	Q4	
JMB001	pH	-	N/A	7.3	Insufficient volume to sample	7.69	7.48	30/03/2025; 1500
	WAD Cyanide	-	mg/L	<0.004		<0.004	<0.004	27/06/2025 – insufficient sample
	Arsenic (As)	-	mg/L	0.0021		0.002	0.003	13/09/2025; 1435
	Cadmium (Cd)	-	mg/L	<0.00005		<0.0001	<0.0001	19/12/2025; 0820
	Calcium (Ca)	-	mg/L	16		18	18	
	Chromium (Cr)	-	mg/L	<0.0005		<0.001	<0.001	
	Cobalt (Co)	-	mg/L	0.0049		0.002	0.002	
	Copper (Cu)	-	mg/L	0.0007		0.003	<0.001	
	Lead (Pb)	-	mg/L	<0.0005		<0.001	<0.001	
	Molybdenum (Mo)	-	mg/L	0.029		0.017	0.018	
	Potassium (K)	-	mg/L	6.1		6	6	
	Sodium (Na)	-	mg/L	30		31	30	
	Selenium (Se)	-	mg/L	<0.001		<0.01	<0.004	
	Total acidity	-	mg/L	5		6	7	
	Vanadium (V)	-	mg/L	0.0027		<0.01	<0.01	
	Zinc (Zn)	-	mg/L	0.076		0.034	0.12	
	Bicarbonate (HCO ₃)	-	mg/L	58		63	77	
	SWL	-	mbgl	38.67		36.74	39.76	-
	Sulphate (SO ₄)	2000	mg/L	13		19	15	
TDS	4000	mg/L	220		202	203		

Notes:

1: SWL not taken in Q4 due to equipment, will continue to monitor SWL moving forward, issues have since been resolved.

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Date:

Licence: L8644/2012/1

Form: GR2

Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd

Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater

Emission point	Parameter	Limit	Units ¹	Result				Comments, sample date & times
				Q1	Q2	Q3	Q4	
JMB002	pH	-	N/A	7.2	7.3	7.66	7.34	30/03/2025; 1430
	WAD Cyanide	-	mg/L	0.005	<0.004	<0.004	<0.004	27/06/2025; 1440
	Arsenic (As)	-	mg/L	<0.0005	<0.0005	<0.001	<0.001	13/09/2025; 1315
	Cadmium (Cd)	-	mg/L	<0.00005	<0.00005	<0.0001	<0.0001	19/12/2025; 0650
	Calcium (Ca)	-	mg/L	270	320	343	348	
	Chromium (Cr)	-	mg/L	0.0054	<0.0005	<0.001	0.002	
	Cobalt (Co)	-	mg/L	0.25	0.2	0.129	0.107	
	Copper (Cu)	-	mg/L	0.0013	0.0012	0.004	<0.001	
	Lead (Pb)	-	mg/L	<0.0005	0.0005	<0.001	<0.001	
	Molybdenum (Mo)	-	mg/L	0.018	0.0063	0.008	0.02	
	Potassium (K)	-	mg/L	21	22	23	23	
	Sodium (Na)	-	mg/L	240	270	269	282	
	Selenium (Se)	-	mg/L	<0.001	<0.001	<0.01	<0.004	
	Total acidity	-	mg/L	20	13	16	19	
	Vanadium	-	mg/L	0.001	0.0031	<0.01	<0.01	
	Zinc (Zn)	-	mg/L	0.004	0.002	<0.005	<0.005	
	Bicarbonate (HCO ₃)	-	mg/L	120	150	154	169	
SWL	-	mbgl	34.45	35.39	33.57	-		
Sulphate (SO ₄)	2000	mg/L	870	1000	989	907		
TDS	4000	mg/L	2700	3000	2820	3060		

Notes:

1: SWL not taken in Q4 due to equipment, will continue to monitor SWL moving forward, issues have since been resolved.

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Date:

Licence: L8644/2012/1
 Form: GR2
 Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd
 Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater

Emission point	Parameter	Limit	Units ¹	Result				Comments, sample date & times
				Q1	Q2	Q3	Q4	
JMB004	pH	-	N/A	7.5	7.4	7.55	7.3	30/03/2025; 1340
	WAD Cyanide	-	mg/L	0.012	<0.004	0.008	0.012	27/06/2025; 1410
	Arsenic (As)	-	mg/L	0.0012	0.0007	<0.001	<0.001	13/09/2025; 1050
	Cadmium (Cd)	-	mg/L	0.00021	0.00008	0.0005	0.0001	19/12/2025; 0900
	Calcium (Ca)	-	mg/L	210	210	225	232	
	Chromium (Cr)	-	mg/L	<0.0005	<0.0005	<0.001	<0.001	
	Cobalt (Co)	-	mg/L	0.18	0.16	0.114	0.112	
	Copper (Cu)	-	mg/L	<0.0005	<0.0005	0.002	<0.001	
	Lead (Pb)	-	mg/L	<0.0005	<0.0005	<0.001	<0.001	
	Molybdenum (Mo)	-	mg/L	0.0031	0.003	0.002	0.002	
	Potassium (K)	-	mg/L	33	32	40	31	
	Sodium (Na)	-	mg/L	620	600	601	604	
	Selenium (Se)	-	mg/L	<0.001	<0.001	<0.01	<0.004	
	Total acidity	-	mg/L	17	18	21	19	
	Vanadium	-	mg/L	0.014	0.0057	0.02	<0.01	
	Zinc (Zn)	-	mg/L	0.005	0.003	0.02	0.015	
	Bicarbonate (HCO ₃)	-	mg/L	160	160	146	154	
	SWL	-	mbgl	40.84	38.97	40.75	69.57	
Sulphate (SO ₄)	2000	mg/L	1400	1300	1340	1210		
TDS	4000	mg/L	3100	3300	3340	3370		

Notes:

1

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Date:

Licence: L8644/2012/1
 Form: GR2
 Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd
 Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater								
Emission point	Parameter	Limit	Units ¹	Result				Comments, sample date & times
				Q1	Q2	Q3	Q4	
JMB005	pH	-	N/A	8	8	7.96	7.65	04/03/2025; 1300
	WAD Cyanide	-	mg/L	0.015	<0.004	<0.020	0.028	27/06/2025; 1140
	Arsenic (As)	-	mg/L	0.01	0.006	0.006	0.004	13/09/2025; 1245
	Cadmium (Cd)	-	mg/L	0.0003	0.00013	0.0002	0.0004	19/12/2025; 1015
	Calcium (Ca)	-	mg/L	120	110	116	146	
	Chromium (Cr)	-	mg/L	<0.001	<0.0005	<0.001	<0.001	
	Cobalt (Co)	-	mg/L	0.12	0.16	0.11	0.075	
	Copper (Cu)	-	mg/L	0.12	0.3	0.415	0.64	
	Lead (Pb)	-	mg/L	<0.001	<0.0005	<0.001	<0.001	
	Molybdenum (Mo)	-	mg/L	0.11	0.091	0.069	0.05	
	Potassium (K)	-	mg/L	52	52	50	50	
	Sodium (Na)	-	mg/L	730	710	689	653	
	Selenium (Se)	-	mg/L	<0.001	0.016	0.01	<0.004	
	Total acidity	-	mg/L	10	6	7	11	
	Vanadium	-	mg/L	<0.001	0.0035	<0.01	<0.01	
	Zinc (Zn)	-	mg/L	<0.005	0.013	0.01	0.025	
	Bicarbonate (HCO ₃)	-	mg/L	290	210	166	215	
	SWL	-	mbgl	28.85	30.01	30.47	30.82	
Sulphate (SO ₄)	2000	mg/L	1000	950	766	650		
TDS	4000	mg/L	3100	2700	2590	2500		

Notes:
 1: All

Signed on behalf of Big Bell Gold Operations Pty Ltd:

Date:

Licence: L8644/2012/1
 Form: GR2
 Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd
 Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater								
Emission point	Parameter	Limit	Units ¹	Result				Comments, sample date & times
				Q1	Q2	Q3	Q4	
JMB006	pH	-	N/A	7.4	7.4	7.81	7.36	30/03/2025; 1530
	WAD Cyanide	-	mg/L	<0.004	<0.004	<0.004	<0.004	27/06/2025; 1520
	Arsenic (As)	-	mg/L	<0.0005	<0.0005	<0.001	<0.001	13/09/2025; 1455
	Cadmium (Cd)	-	mg/L	<0.00005	<0.00005	<0.0001	<0.0001	19/12/2025; 0725
	Calcium (Ca)	-	mg/L	64	66	69	72	
	Chromium (Cr)	-	mg/L	0.0032	0.0021	0.002	0.001	
	Cobalt (Co)	-	mg/L	0.031	0.025	0.015	0.015	
	Copper (Cu)	-	mg/L	0.0006	<0.0005	0.003	<0.001	
	Lead (Pb)	-	mg/L	<0.0005	<0.0005	<0.001	<0.001	
	Molybdenum (Mo)	-	mg/L	0.01	0.0085	0.008	0.01	
	Potassium (K)	-	mg/L	11	11	11	12	
	Sodium (Na)	-	mg/L	130	130	139	139	
	Selenium (Se)	-	mg/L	0.001	<0.001	<0.01	<0.004	
	Total acidity	-	mg/L	6	6	6	8	
	Vanadium	-	mg/L	0.0062	0.0068	<0.01	<0.01	
	Zinc (Zn)	-	mg/L	0.004	0.003	0.007	<0.005	
	Bicarbonate (HCO ₃)	-	mg/L	89	86	83	88	
SWL	-	mbgl	32.19	31.82	33.28	-		
Sulphate (SO ₄)	2000	mg/L	210	200	208	162		
TDS	4000	mg/L	880	840	878	848		

Notes:

1: SWL not taken in Q4 due to equipment, will continue to monitor SWL moving forward, issues have since been resolved.

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Date:

Licence: L8644/2012/1

Form: GR2

Name: Monitoring of ambient groundwater quality

Licence Holder: Big Bell Gold Operations Pty Ltd

Period: 01 January 2025 to 31 December 2025

Form GR2: Monitoring of Ambient Groundwater

Emission point	Parameter	Limit	Units ¹	Result				Comments, sample date & times
				Q1	Q2	Q3	Q4	
JMB008	pH	-	N/A	7.2	7.4	7.59	7.25	30/03/2025; 1420
	WAD Cyanide	-	mg/L	<0.004	<0.004	<0.004	<0.004	27/06/2025; 1350
	Arsenic (As)	-	mg/L	0.0006	<0.0005	<0.001	<0.001	13/09/2025; 1220
	Cadmium (Cd)	-	mg/L	0.00013	<0.00005	<0.0001	<0.0001	19/12/2025; 0935
	Calcium (Ca)	-	mg/L	35	34	36	36	
	Chromium (Cr)	-	mg/L	0.002	0.0062	0.006	0.008	
	Cobalt (Co)	-	mg/L	0.0047	<0.001	0.002	<0.001	
	Copper (Cu)	-	mg/L	0.0009	0.0007	0.005	<0.001	
	Lead (Pb)	-	mg/L	<0.0005	<0.0005	<0.001	<0.001	
	Molybdenum (Mo)	-	mg/L	0.0036	0.0099	0.004	0.014	
	Potassium (K)	-	mg/L	8.2	8.2	9	9	
	Sodium (Na)	-	mg/L	110	110	110	115	
	Selenium (Se)	-	mg/L	0.001	<0.001	<0.01	<0.004	
	Total acidity	-	mg/L	<5	<5	5	6	
	Vanadium	-	mg/L	0.0092	0.0086	<0.01	<0.01	
	Zinc (Zn)	-	mg/L	0.006	<0.001	0.011	<0.005	
	Bicarbonate (HCO ₃)	-	mg/L	40	53	82	47	
	SWL	-	mbgl	33.26	33.52	33.68	33.68	
Sulphate (SO ₄)	2000	mg/L	100	170	102	94		
TDS	4000	mg/L	650	600	590	590		

Notes:

1:

Signed on behalf of Big Bell Gold Operations Pty Ltd:

Date:

7. PROCESS MONITORING

A total of 1,274,795.61 tonnes of ore were processed at Tuckabianna during the annual period. A total of 550,323 tonnes of process water containing tailings solids were discharged to TSF2 during the annual period. A total of 521,323 tonnes of process water containing tailings solution were discharged to TWTSF. A total of 704,735 tonnes of decant water was retrieved and recycled from TSF2 and TWTSF to the process water dam.

A summary of the volume of water contained in tailings and volume of water returned to each approved TSF is presented in Table 3.

Table 3: Tailings Deposition and Decant Water Recovered

	TSF2 Tailings Discharge Solids + Water		TSF2 Water Return		Tuckabianna West TSF Discharge Solids + Water		Tuckabianna West TSF Water Return	
	Monthly Tonnes	Cumulative Tonnes	Monthly Tonnes	Cumulative Tonnes	Monthly Tonnes	Cumulative Tonnes	Monthly Tonnes	Cumulative Tonnes
Jan-25	222706	222706	61169	61169				
Feb-25	208766	431472	56003	117172				
Mar-25	118851	550323	66240	183412				
Apr-25					233102	341940	66191	66191
May-25					240372	582313	70428	136619
Jun-25					233637	815950	74911	211530
Jul-25					185685	1001635	67562	279092
Aug-25					223956	1225590	50693	329785
Sep-25					209573	1435163	0	329785
Oct-25					240120	1675284	0	329785
Nov-25					223043	1898327	90053	419838
Dec-25					263681	2162008	101485	521323

8. MONITORING OF AMBIENT VEGETATION QUALITY

Deposition of tailings to TSF2 ceased in March 2025, when deposition commenced into TWTSF.

Cue has experienced a changed rainfall regime in the last 15 years, with an increase in short-lived, high intensity rainfall events during the summer and a decrease in low intensity, sustained rainfall during the winter (BoM, 2025). A triennial vegetation health comparison shows that vegetation health improves or declines with annual and seasonal fluctuations, most notably rainfall. This was made evident in March 2023 monitoring photos after heavy rainfall and flooding events across Cue led to blossoming of low-lying shrub species and perennial species. Due to a lack of rainfall before the March 2024 photo monitoring, this greenery has subsided. Further details on monitoring of ambient vegetation quality are provided in Sections 8.1 to 8.4.

Observation also correlate with completion of deposition to TSF2 and therefore a plateaued groundwater table.

Overall, it appears there has been little to no change across all vegetation monitoring quadrats except when seasonal weather conditions occur. BBGO will continue to closely observe photo monitoring points, vegetation and the groundwater table in the vicinity of TSF2 and TWTSF.

8.1 Monitoring Site TQ02

Location: 230 m north of TSF2

Habitat: Mulga flat, very gently sloping south-west

Soil: Skeletal rocky red loam

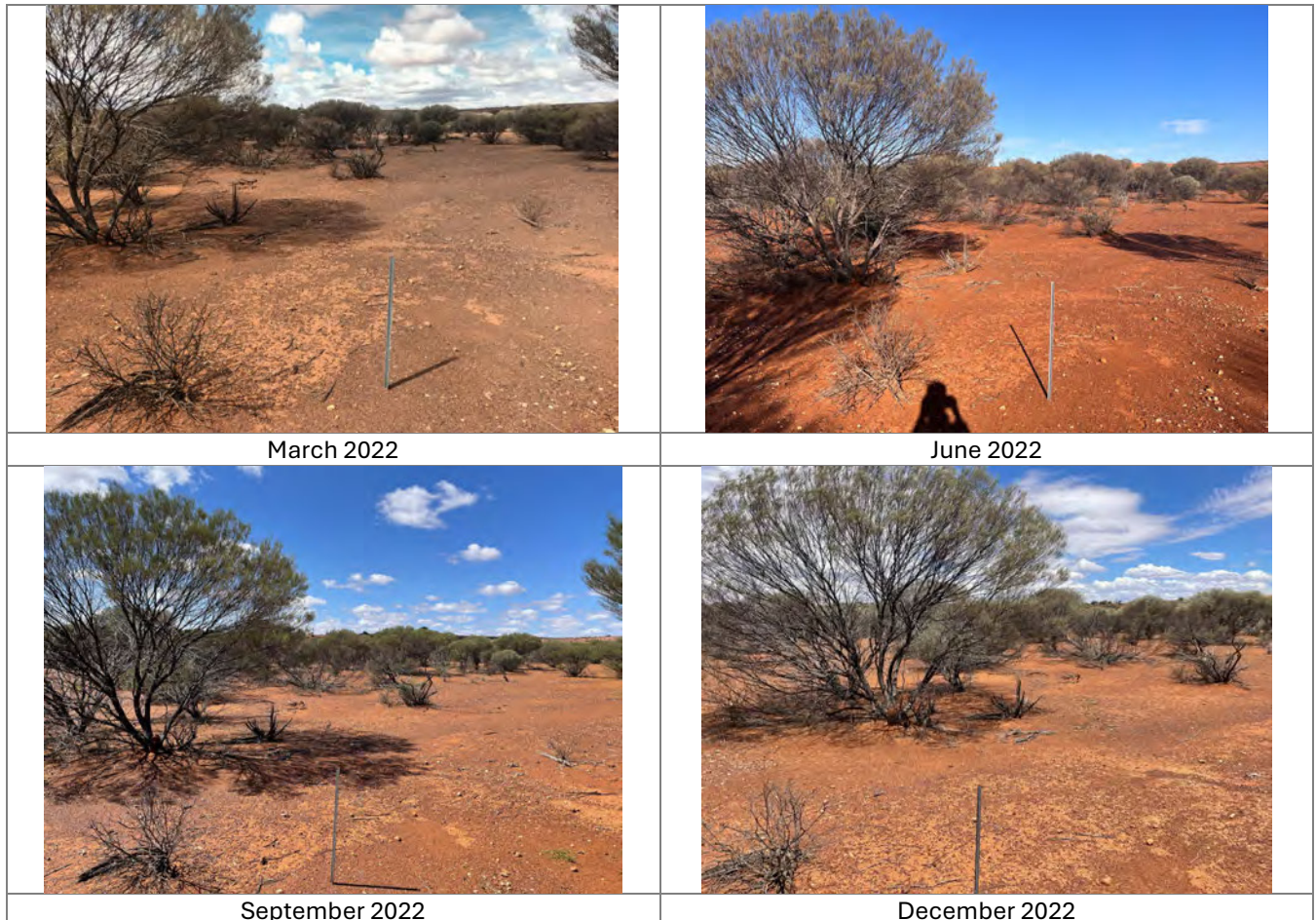
Rock: Basalt

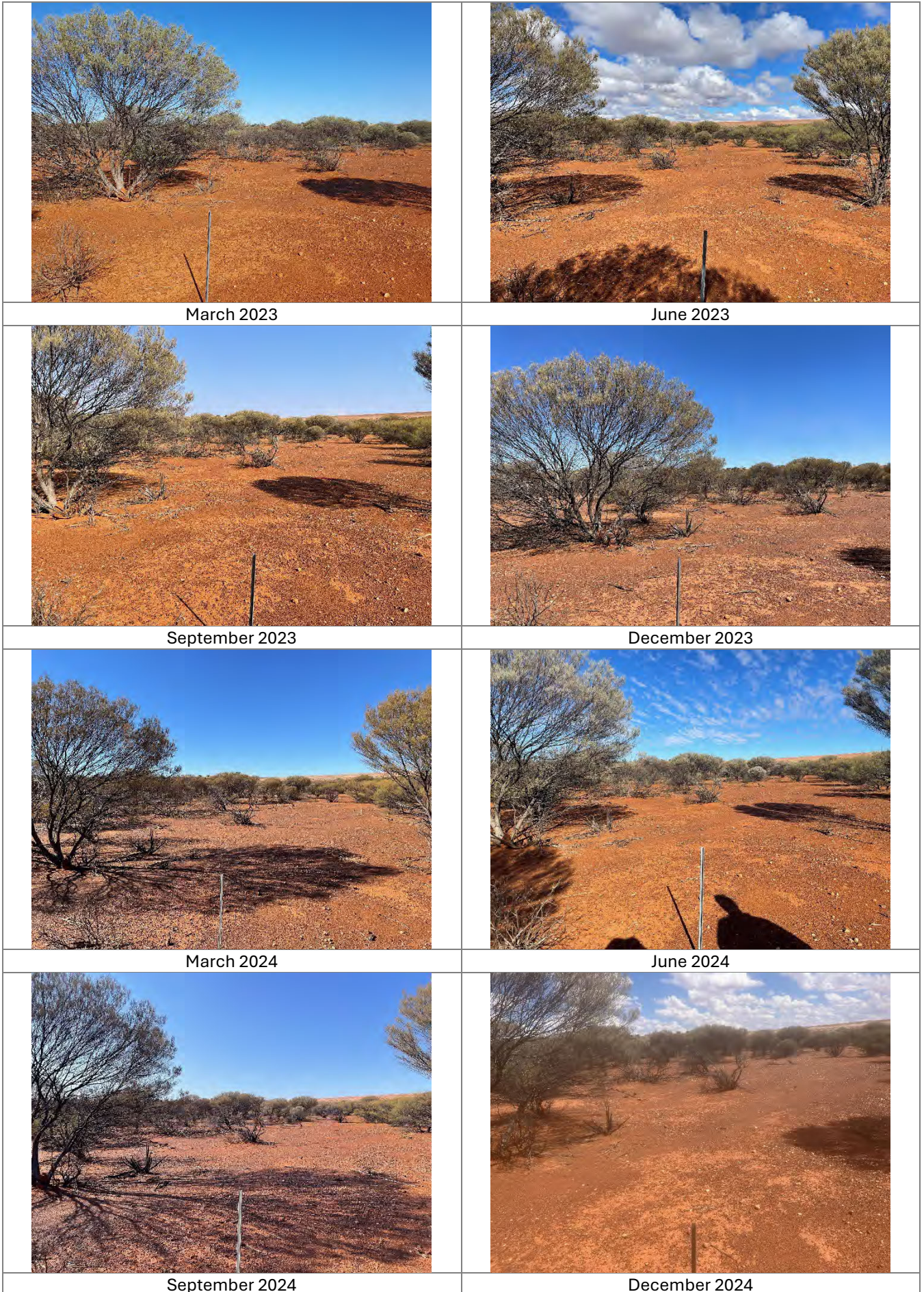
Vegetation: *Acacia incurvaneura* low open woodland over *Baeckea* sp. scattered shrubs over *Goodenia* sp. very open herbland, *Monachather paradoxus* and *Neurachne* minor very open grassland

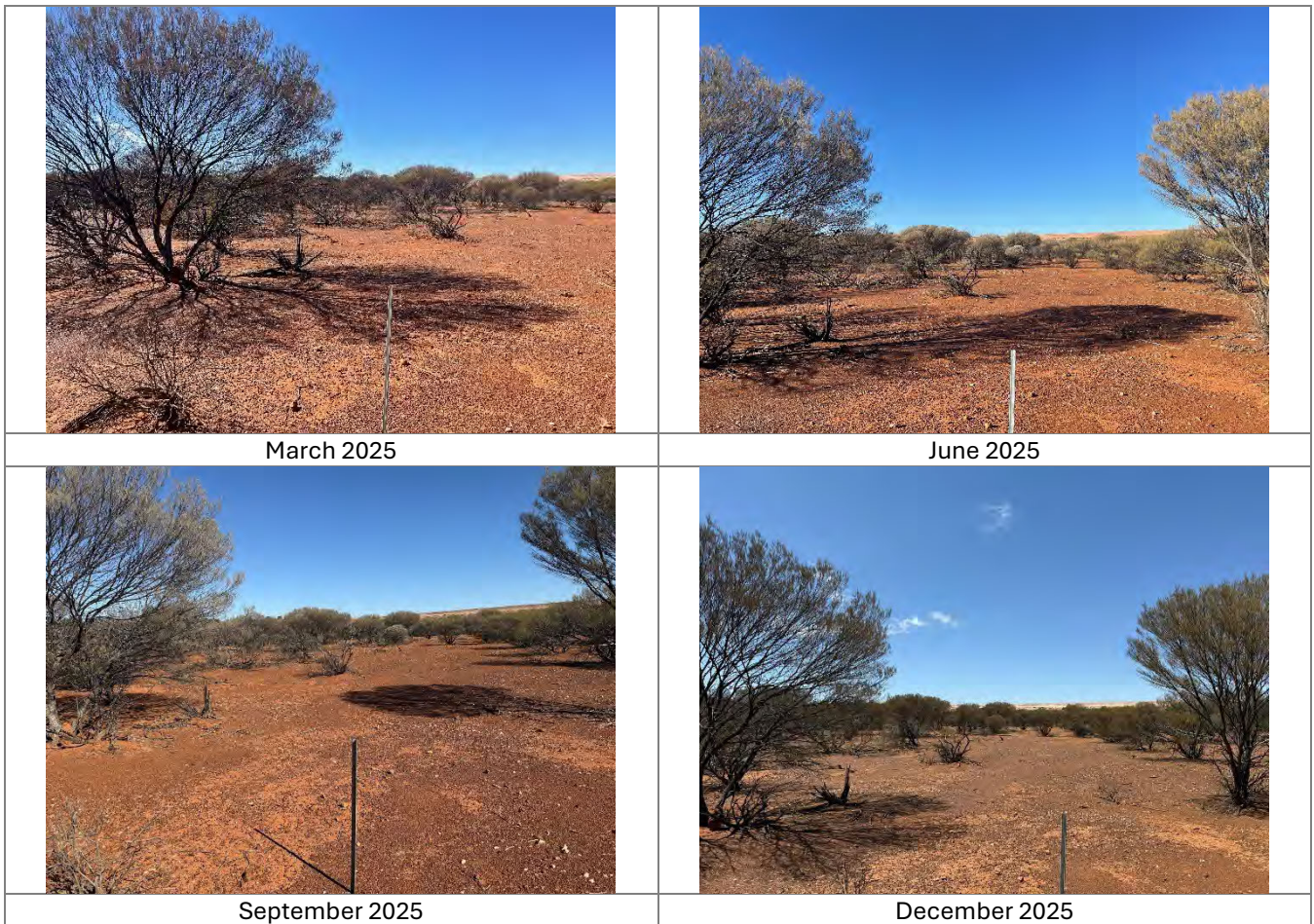
Condition: Good

Fire: >10 years

Observation: TQ02 consists of sparse shrubs and trees on a rocky red loam with little to no understorey coverage, and no weeds. Recruitment conditions appear poor with low species composition and very little to no evidence of seedlings and saplings. Established plants show early signs of stress with minor canopy loss, visible foliage discolouration, and minor damage to branches. No change from the previous annual period assessment was evident.



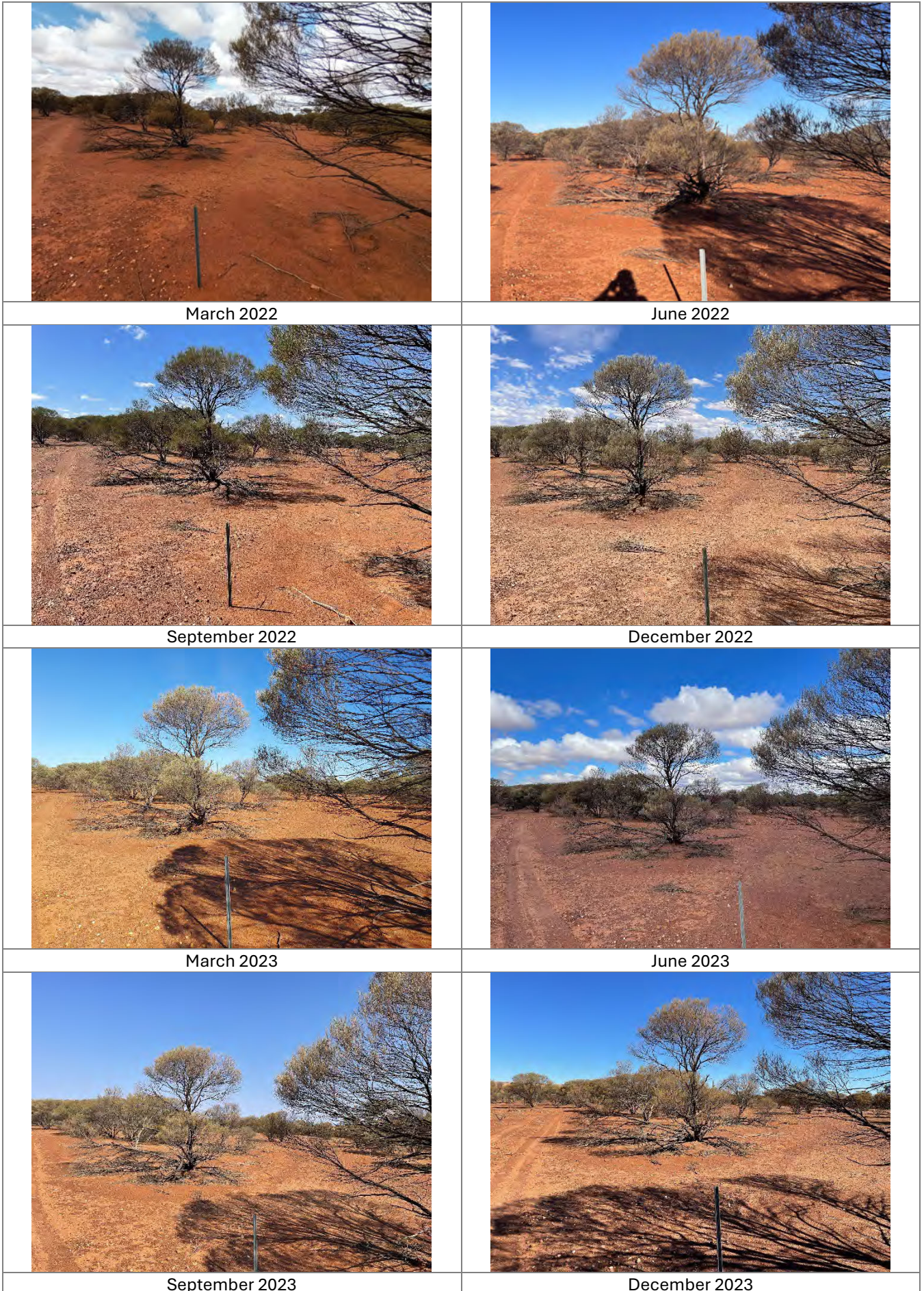




8.2 Monitoring Site TQ03

Location:	160 m south of TSF2
Habitat:	Flat stony Mulga plain
Soil:	Fine red loam with stony substrate
Rock:	Basalt and quartz
Vegetation:	<i>Acacia incurvaneura</i> low open woodland
Condition:	Good
Fire:	> 10 years

Observation: TQ03 consists of sparse vegetation on a rocky ground with minimal vegetation coverage, and no weeds. Recruitment conditions are poor with lack of species composition, and no visible seedlings and saplings. Established plants show early signs of stress. The upper foliage appears in good condition, however minor damage to branches, leaf discolouration and isolated dead trees were recorded. The site displays no signs of erosion. Vehicle tracks are present within the quadrat. No change from the previous annual period assessment was evident.





March 2024



June 2024



September 2024



December 2024



March 2025



June 2025



September 2025



December 2025

8.3 Monitoring Site TQ04

Location: 640m south south-west of TSF2

Habitat: Mulga wash plain

Soil: Skeletal fine rocky red loam

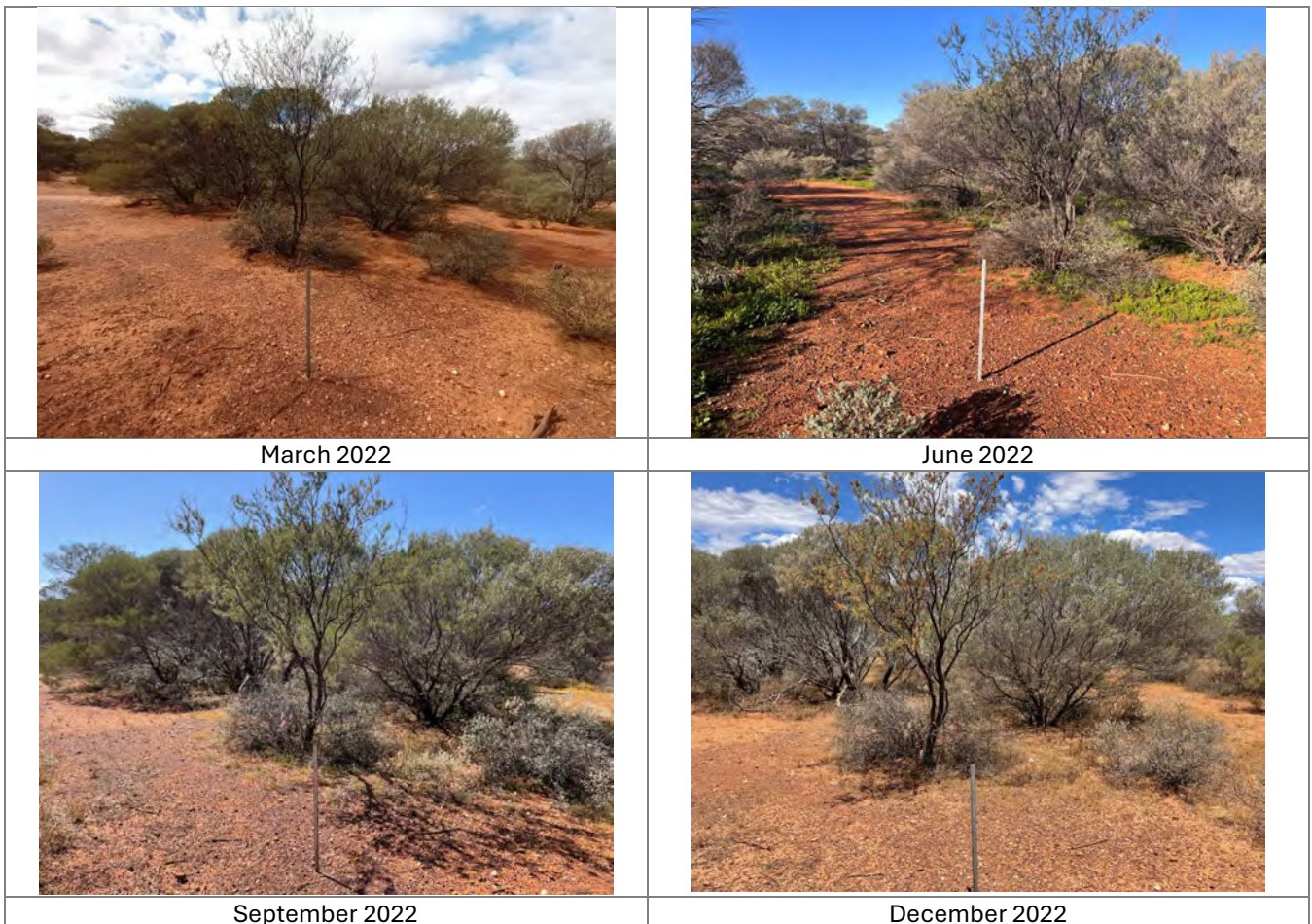
Rock: Basalt and quartz

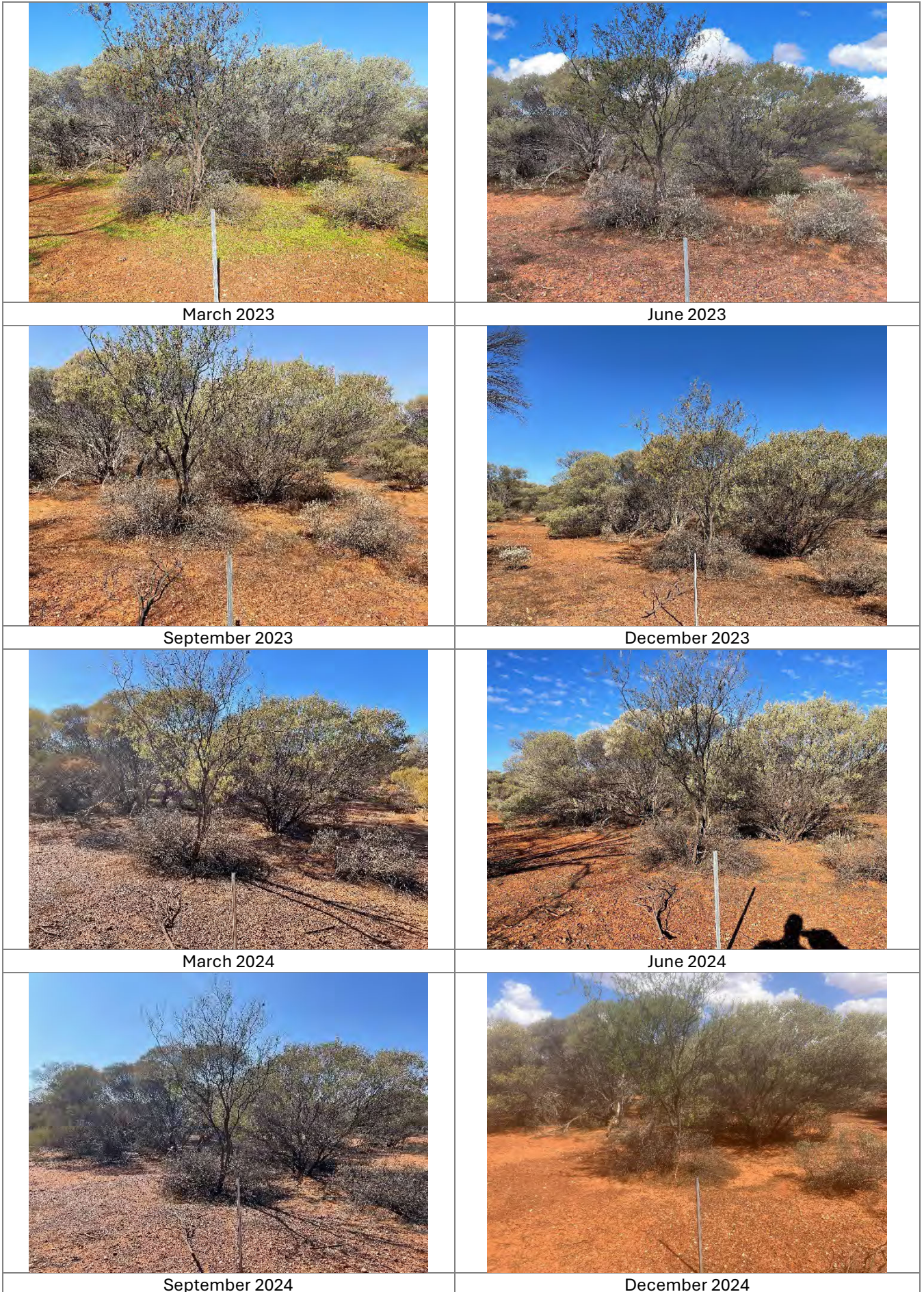
Vegetation: *Acacia caesaneura* and *Acacia ?caesaneura* low woodland over *Eremophila ?lachnocalyx* and *Eremophila georgei* open shrubland over *Poaceae* sp. open grassland

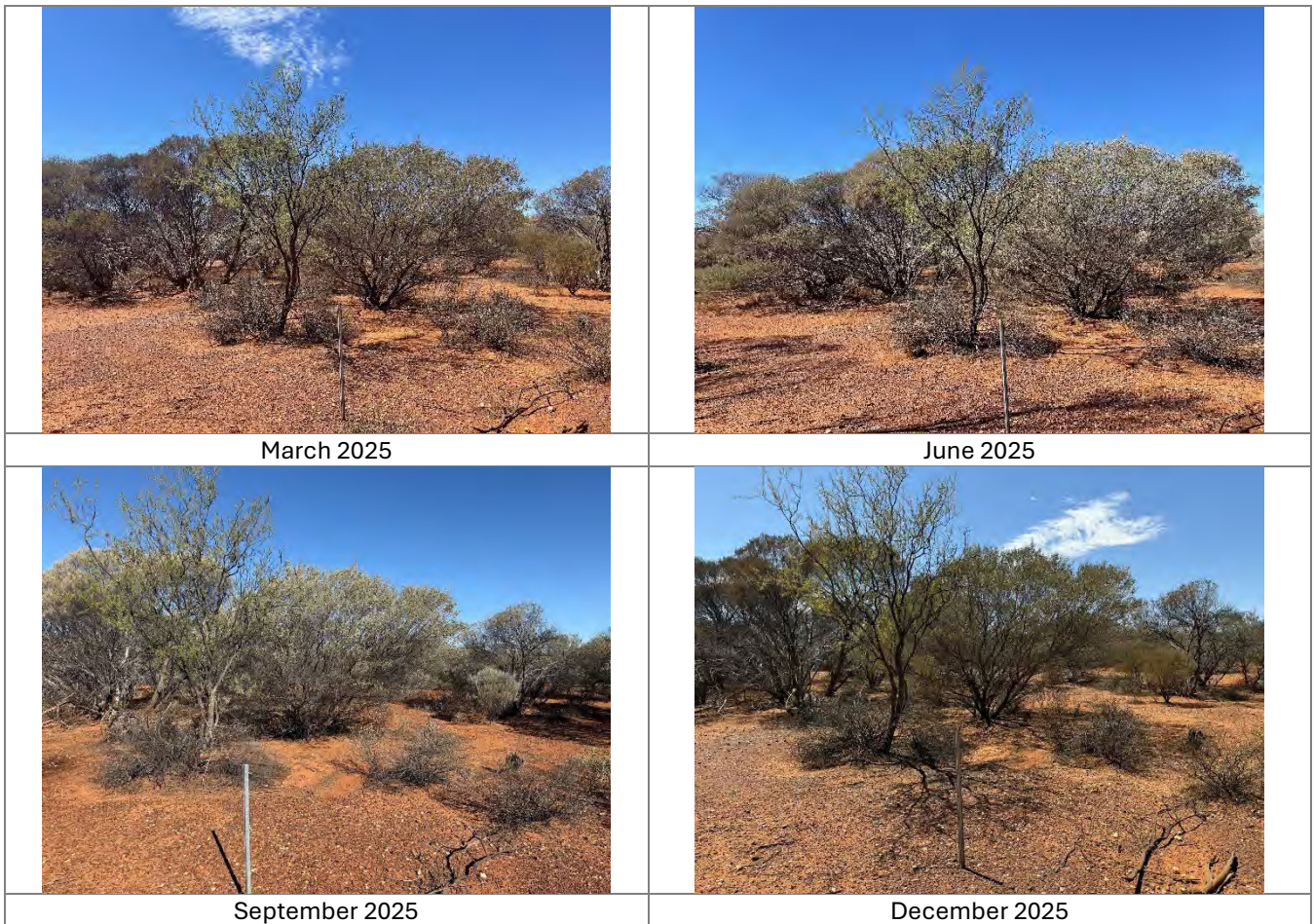
Condition: Good

Fire: > 10 years

Observation: TQ04 consists of even vegetation on a fine rocky ground with good vegetation coverage and no weeds. Recruitment conditions are very good, there is visible evidence of seedlings and saplings of many species. Established plants are healthy with good canopy and foliage. Very little signs of stress are evident. Natural sediment build-up within the drainage line is not affecting plant growth. March 2023 showed a spike in recruitment and growth after the heavy rains and flooding as this quadrat is in close proximity to an ephemeral drainage line. No change from the previous annual period assessment was evident except for the lack of seasonal greenery in March 2024.







8.4 Monitoring Site TQ07

Location: 690 m south south-east of TSF2

Habitat: Mulga wash plain

Soil: Red/pink fine clayey loam






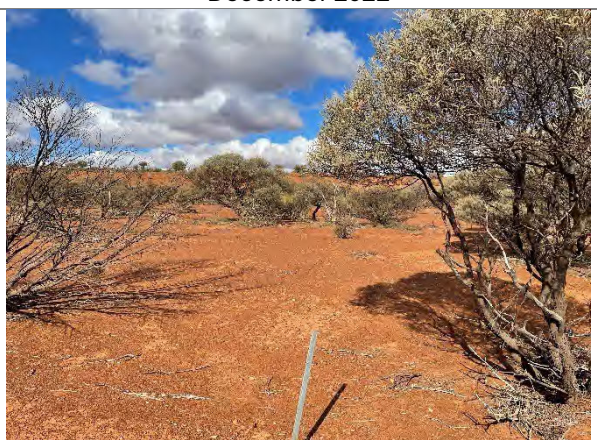


Rock: Basalt and laterite

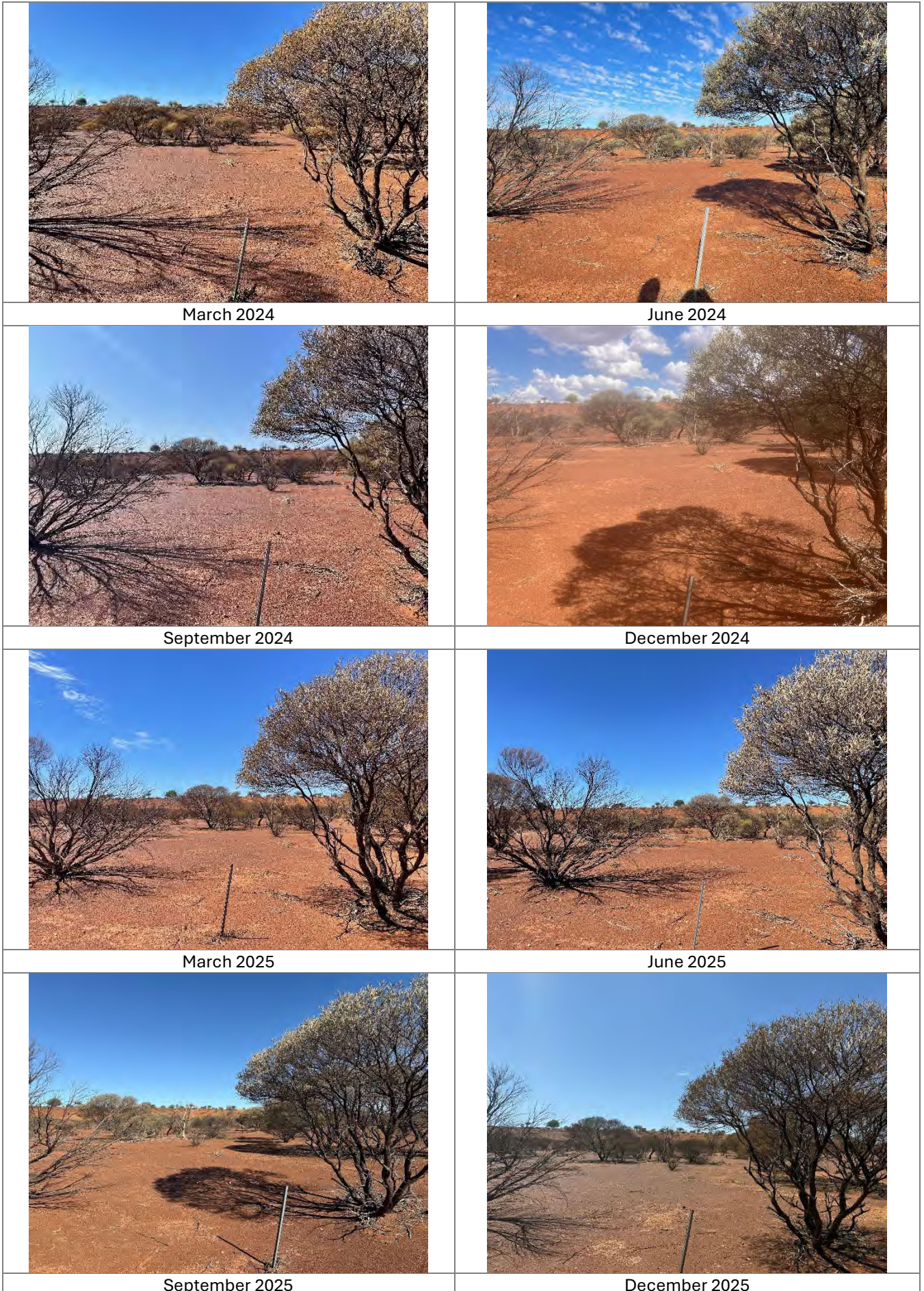
Vegetation: *Acacia caesaneura* and *Acacia incurvaneura* low open woodland

Condition: Good to degraded

Fire: > 10 years

Observation: TQ07 consists of sparse shrubs and trees on a hard rocky ground with no vegetation coverage and no weeds. The site appears degraded with no visible re-growth. Established plants show signs of stress with good upper foliage, minor damage to branches, some leaf discolouration, and about 30% dead trees. No change from the previous annual period assessment was evident.

	
<p>March 2022</p>	<p>June 2022</p>
	
<p>September 2022</p>	<p>December 2022</p>
	
<p>March 2023</p>	<p>June 2023</p>
	
<p>September 2023</p>	<p>December 2023</p>



9. ASSESSMENT OF MONITORING RESULTS

Monitoring data is summarised below for the ground water monitoring bores surrounding the JRTSF (JMB001, JMB002, JMB004, JMB005, JMB006, JMB008), TSF2 (TBS2 to TBS5), and the pit water quality (Caustons, Friars, Jaffas Folly and Tuckabianna West).

The below trend analysis uses the following criteria for analysis categorisation:

- Increasing Trend – a notable or obvious increase in results.
- Decreasing Trend – a notable or obvious decrease in results.
- Stable Trend – the fluctuation of results around historical readings which may increase or decrease at times, but overall, the latest 12-month results remain within the minimum or maximum extremities of those historical three-yearly results.

In accordance with Condition 20 of operating licence L8644/2021/1, the following three-year summaries have been prepared to meet the intent of the following requirement: *“An assessment of the information contained within the report against previous monitoring results and any Licence Limits”*.

9.1 Julies Reward In-Pit TSF Monitoring Bores

Tailings deposition ceased at Julies Reward TSF on 12 June 2024 after capacity was reached, when deposition was transferred to TSF2. Water quality analysis results from the last three annual periods for JMB001, JMB002, JMB004, JMB005, JMB006 and JMB008 are provided in Sections 9.1.1 to 9.1.20.

During the Q2 sampling round, JMB001 had insufficient volume of water to sample for lab analysis.

9.1.1 Julies Reward Bores pH

Three yearly sampling results for pH are included below in Table 4. Trend analysis indicates a stable trend for pH at all monitoring locations (Figure 2). Figure 2 demonstrates that all recorded pH results remain between the lower and upper licence limits of pH 6 and pH 9 for the annual period.

Table 4: Julies Reward Bores (pH) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	7.4	7.7	7.5	7.6	7.8	7.7
Q2-2023	7.5	7.6	7.4	7.4	7.5	7.4
Q3-2023	7.4	7.7	7.6	8.3	7.7	7.4
Q4-2023	7.4	7.7	7.5	8.1	7.7	7.4
Q1-2024	7.4	7.6	7.2	8.2	7.4	7.3
Q2-2024	6.8	7.4	7.0	7.9	7.3	7.2
Q3-2024	7.0	7.4	7.4	7.7	7.2	6.9
Q4-2024	7.6	7.7	7.6	7.9	7.7	7.5
Q1-2025	7.3	7.2	7.5	8	7.4	7.2
Q2-2025	<i>Insufficient volume to sample</i>	7.3	7.4	8	7.4	7.4
Q3-2025	7.69	7.66	7.55	7.96	7.81	7.59
Q4-2025	7.48	7.34	7.3	7.65	7.36	7.25
Trend	No Trend	No Trend	No Trend	Stable	No Trend	No Trend

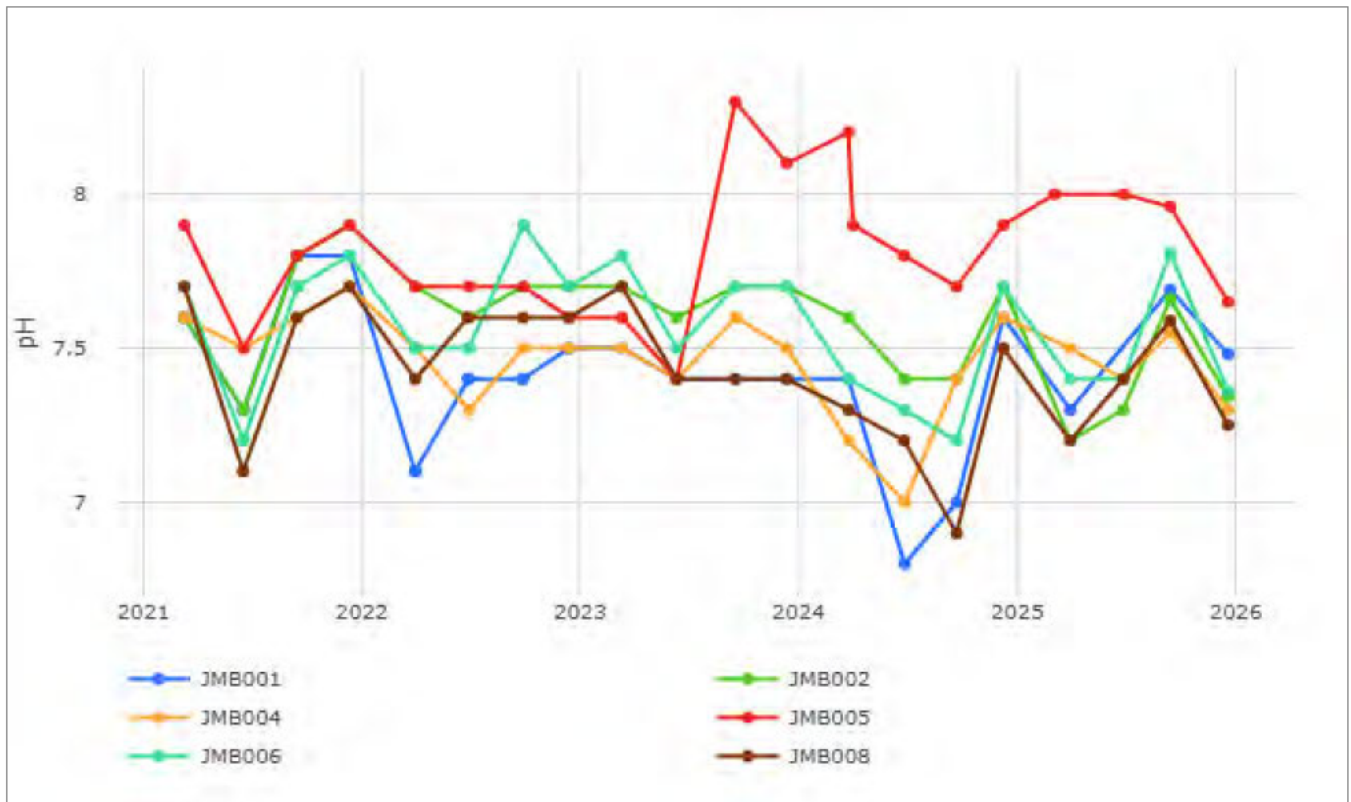


Figure 2: Julies Reward TSF Monitoring Bore pH Records

9.1.2 Julies Reward Bores TDS

Three yearly sampling results for TDS are included below in Table 5. Trend analysis indicates no clear trend at JMB001, JMB004, JMB005, JMB006 and JMB008 and increasing trend at JMB002 for TDS. Figure 3 demonstrates that all recorded TDS results remain within the licence limit of 4000 mg/L except for JMB005 in Q3, Q4 in 2023 and Q2 2024. These elevated levels have since shown a declining trend.

Table 5: Julies Reward Bores (TDS) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	268	1,183	3,321	500	1,137	409
Q2-2023	246	1,287	3,854	448	1,241	708
Q3-2023	294	1,475	3,841	5,154	1,235	650
Q4-2023	239	1,534	3,913	4,829	1,105	663
Q1-2024	190	1,800	3,900	3,800	890	560
Q2-2024	3,200	2,100	2,300	4,500	900	610
Q3-2024	3,700	2,300	3,800	3,000	910	650
Q4-2024	220	2,500	3,600	3,300	930	610
Q1-2025	220	2700	3100	3100	880	650
Q2-2025	<i>Insufficient volume to sample</i>	3000	3300	2700	840	600
Q3-2025	202	2820	3340	2590	878	590
Q4-2025	203	3060	3370	2500	848	590
Trend	No Trend	Increasing	No Trend	No Trend	No Trend	No Trend

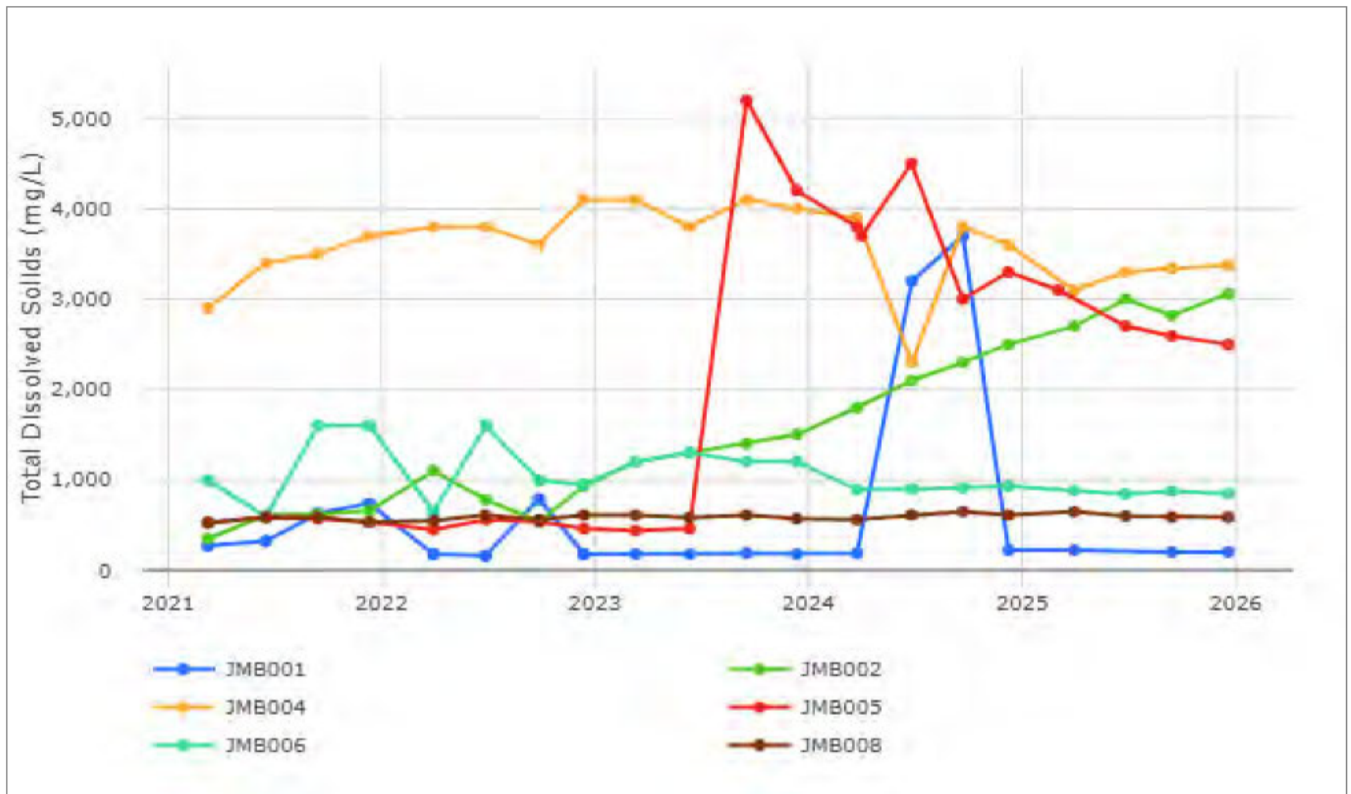


Figure 3: Julies Reward TSF Monitoring Bore TDS Records

9.1.3 Julies Reward Bores Arsenic

Sampling from the majority of the Julies Reward monitoring bores demonstrates arsenic showing a stable trend across the annual periods (Table 6). In most cases, results were below the limit of detection (LOD). An increase was observed at JMB005 in 2023 due to the proximity to the supernatant pool in JRTSF but has since stabilised following completion of active tailings deposition.

Table 6: Julies Reward Bores (Arsenic) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	0.003	<0.001	0.003	<0.001	0.002	<0.001
Q2-2023	0.002	<0.001	0.002	<0.001	0.002	<0.001
Q3-2023	0.002	<0.001	0.003	0.048	<0.001	<0.001
Q4-2023	0.001	<0.001	0.001	0.028	<0.001	<0.001
Q1-2024	0.002	<0.001	0.002	0.004	<0.001	<0.001
Q2-2024	0.002	<0.001	0.001	0.008	<0.001	<0.001
Q3-2024	0.0008	<0.0005	0.0007	0.0027	<0.0005	<0.0005
Q4-2024	0.0019	<0.0005	0.0087	0.011	<0.0005	<0.0005
Q1-2025	0.0021	<0.0005	0.0012	0.01	<0.0005	0.0006
Q2-2025	<i>Insufficient volume to sample</i>	<0.0005	0.0007	0.006	<0.0005	<0.0005
Q3-2025	0.002	<0.001	<0.001	0.006	<0.001	<0.001
Q4-2025	0.003	<0.001	<0.001	0.004	<0.001	<0.001
Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend

9.1.4 Julies Reward Bores Cadmium

Sampling from the Julies Reward monitoring bores demonstrates a stable cadmium trend (Table 7). In most cases, results were below the LOD as depicted in Table 7. an increase was observed at JMB005 in 2023 due to the proximity to the supernatant pool in JRTSF but has since stabilised following completion of active tailings deposition.

Table 7: Julies Reward Bores (Cadmium) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Q2-2023	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Q3-2023	<0.0001	<0.0001	<0.0001	0.0006	0.0002	<0.0001
Q4-2023	<0.0001	<0.0001	<0.0001	0.0005	0.0001	<0.0001
Q1-2024	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Q2-2024	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001
Q3-2024	<0.00005	0.00005	0.00052	0.00012	<0.00005	<0.00005
Q4-2024	<0.00005	<0.00005	<0.00005	0.00008	<0.00005	<0.00005
Q1-2025	<0.00005	<0.00005	0.00021	0.0003	<0.00005	0.00013
Q2-2025	<i>Insufficient volume to sample</i>	<0.00005	0.00008	0.00013	<0.00005	<0.00005
Q3-2025	<0.0001	<0.0001	0.0005	0.0002	<0.0001	<0.0001
Q4-2025	<0.0001	<0.0001	0.0001	0.0004	<0.0001	<0.0001
Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend

9.1.5 Julies Reward Bores Lead

Sampling from the Julies Reward monitoring bores demonstrates a stable trend for lead (Table 8). In most cases, the results were below the LOD with two minor increases at JMB005 and JMB008.

Table 8: Julies Reward Bores (Lead) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	0.002	<0.001	<0.001	<0.001	<0.001	0.002
Q2-2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Q3-2023	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Q4-2023	<0.001	<0.001	<0.001	0.003	<0.001	<0.001
Q1-2024	<0.001	<0.001	<0.001	0.002	<0.001	<0.001
Q2-2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Q3-2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Q4-2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Q1-2025	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.0005
Q2-2025	<i>Insufficient volume to sample</i>	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Q3-2025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Q4-2025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend

9.1.6 Julies Reward Bores Calcium

Sampling from the Julies Reward monitoring bores demonstrates an increasing trend at JMB002, decreasing trend at JMB004 and no trend at JMB001, JMB005, JMB006 and JMB008 for calcium (Table 9). High values observed in JMB001 have since returned to normal values.

Table 9: Julies Reward Bores (Calcium) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	15	95	270	18	94	32
Q2-2023	15	120	240	19	100	33
Q3-2023	15	130	230	200	97	32
Q4-2023	16	150	240	190	85	33
Q1-2024	15	180	230	200	62	32
Q2-2024	230	220	210	270	65	34
Q3-2024	320	240	240	170	65	33
Q4-2024	17	250	220	150	65	34
Q1-2025	16	270	210	120	64	35
Q2-2025	<i>Insufficient volume to sample</i>	320	210	110	66	34
Q3-2025	18	343	225	116	69	36
Q4-2025	18	348	232	146	72	36
Trend	No Trend	Increasing	Decreasing	No Trend	No Trend	No Trend

9.1.7 Julies Reward Bores Chromium

Sampling from majority of the Julies Reward monitoring bores demonstrates no distinct trend with the exception of JMB005 which demonstrates a decreasing trend (Table 10). Elevated chromium at JMB005 and JMB008 in 2023 have since declined.

Table 10: Julies Reward Bores (Chromium) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	0.002	0.004	<0.001	0.031	0.002	0.013
Q2-2023	<0.001	0.004	<0.001	0.028	0.003	0.011
Q3-2023	<0.001	0.004	<0.001	0.001	0.003	0.012
Q4-2023	<0.001	0.002	<0.001	0.002	0.002	0.006
Q1-2024	<0.001	<0.001	<0.001	<0.002	0.005	0.005
Q2-2024	<0.001	<0.001	<0.001	<0.001	0.003	0.016
Q3-2024	<0.0005	0.0032	<0.0005	<0.0005	0.0046	0.0098
Q4-2024	0.0005	<0.0005	<0.0005	<0.0005	0.0026	0.0099
Q1-2025	<0.0005	0.0054	<0.0005	<0.001	0.0032	0.002
Q2-2025	<i>Insufficient volume to sample</i>	<0.0005	<0.0005	<0.0005	0.0021	0.0062
Q3-2025	<0.001	<0.001	<0.001	<0.001	0.002	0.006
Q4-2025	<0.001	0.002	<0.001	<0.001	0.001	0.008
Trend	No Trend	No Trend	No Trend	Decreasing	No Trend	No Trend

9.1.8 Julies Reward Bores Cobalt

Sampling from the Julies Reward monitoring bores demonstrates an increasing cobalt trend at JMB002 (Table 11) and no trend for the remaining bores. Increases in JMB004 and JMB005 during Q2-2024 have now returned to normal values.

Table 11: Julies Reward Bores (Cobalt) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	0.005	0.069	0.22	<0.001	0.033	<0.001
Q2-2023	0.005	0.084	0.43	0.006	0.033	0.001
Q3-2023	0.005	0.11	0.43	0.31	0.046	<0.001
Q4-2023	0.005	0.11	0.30	0.38	0.048	0.001
Q1-2024	0.006	0.13	0.24	0.80	0.037	0.005
Q2-2024	0.31	0.12	0.87	0.77	0.041	0.009
Q3-2024	0.45	0.096	0.19	0.15	0.036	0.0009
Q4-2024	0.0049	0.16	0.18	0.12	0.031	0.0015
Q1-2025	0.0049	0.25	0.18	0.12	0.031	0.0047
Q2-2025	<i>Insufficient volume to sample</i>	0.2	0.16	0.16	0.025	<0.001
Q3-2025	0.002	0.129	0.114	0.11	0.015	0.002
Q4-2025	0.002	0.107	0.112	0.075	0.015	<0.001
Trend	No Trend	Increasing	No Trend	No Trend	No Trend	No Trend

9.1.9 Julies Reward Bores Copper

Sampling from the Julies Reward monitoring bores demonstrates no distinct trend across the JMB bores (Table 12). A minor increase at JMB006 in Q3-2023 and an increasing trend at JMB005 have both returned levels less than detection from the most recent sampling.

Table 12: Julies Reward Bores (Copper) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	<0.001	<0.001	<0.001	<0.001	0.004	<0.001
Q2-2023	<0.001	<0.001	<0.001	<0.001	0.003	<0.001
Q3-2023	<0.001	0.045	<0.001	5.7	0.011	0.002
Q4-2023	<0.001	0.002	<0.001	1.5	0.001	<0.001
Q1-2024	<0.001	<0.001	0.001	0.16	<0.001	<0.001
Q2-2024	<0.001	<0.001	<0.001	0.31	<0.001	<0.001
Q3-2024	<0.0005	0.0016	<0.0005	0.39	0.0008	0.0005
Q4-2024	0.0013	0.0011	<0.0005	0.004	0.0006	0.00053
Q1-2025	0.0007	0.0013	<0.0005	0.12	0.0006	0.0009
Q2-2025	<i>Insufficient volume to sample</i>	0.0012	<0.0005	0.3	<0.0005	0.0007
Q3-2025	0.003	0.004	0.002	0.415	0.003	0.005
Q4-2025	<0.001	<0.001	<0.001	0.64	<0.001	<0.001
Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend

9.1.10 Julies Reward Bores Molybdenum

Sampling from the Julies Reward monitoring bores demonstrates no distinct molybdenum trend at all JMB bores (Table 13).

Table 13: Julies Reward Bores (Molybdenum) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	<0.001	0.001	0.001	0.002	0.002	0.002
Q2-2023	<0.001	0.002	0.002	0.003	0.002	0.002
Q3-2023	0.029	0.008	0.014	0.32	0.12	0.016
Q4-2023	0.028	0.007	0.001	0.20	0.06	0.005
Q1-2024	0.026	0.002	0.001	0.21	0.004	0.012
Q2-2024	0.002	0.008	0.001	0.11	0.015	0.04
Q3-2024	0.0018	0.051	0.0037	0.054	0.014	0.013
Q4-2024	0.026	0.015	0.0035	0.094	0.015	0.0096
Q1-2025	0.029	0.018	0.0031	0.11	0.01	0.0036
Q2-2025	<i>Insufficient volume to sample</i>	0.0063	0.003	0.091	0.0085	0.0099
Q3-2025	0.017	0.008	0.002	0.069	0.008	0.004
Q4-2025	0.018	0.02	0.002	0.05	0.01	0.014
Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend

9.1.11 Julies Reward Bores Potassium

Sampling from the Julies Reward monitoring bores demonstrated increasing trend at JMB002 and no distinct trend at the remaining JMB bores (Table 14). The significant increase at JMB005 in Q3 and Q4 appears to have stabilised.

Table 14: Julies Reward Bores (Potassium) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	6.3	13	38	6	14	8.1
Q2-2023	6.2	15	37	6.4	15	8.2
Q3-2023	6.0	16	36	91	14	8.0
Q4-2023	5.9	16	39	86	13	8.1
Q1-2024	6.2	18	39	62	11	8
Q2-2024	29	19	23	77	11	7.9
Q3-2024	32	21	39	54	12	8.4
Q4-2024	6.1	20	34	56	11	7.9
Q1-2025	6.1	21	33	52	11	8.2
Q2-2025	<i>Insufficient volume to sample</i>	22	32	52	11	8.2
Q3-2025	6	23	40	50	11	9
Q4-2025	6	23	31	50	12	9
Trend	No Trend	Increasing	No Trend	No Trend	No Trend	No Trend

9.1.12 Julies Reward Bores Sodium

Sampling from the Julies Reward monitoring bore JMB001 show high values in 2024 which have since returned to previous values. An increasing sodium trend is evident at JMB002. The significant increases at JMB004 and JMB005 in 2023 have since declined. JMB004 and JMB005 are located near the TSF supernatant pond, which is subject to permanent inundation for decant return water and therefore water transmissivity is higher. Sodium values at JMB006 and JMB008 continue to show a stable trend.

Table 15: Julies Reward Bores (Sodium) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	31	160	730	99	170	120
Q2-2023	28	160	750	89	160	100
Q3-2023	31	180	770	1300	160	110
Q4-2023	32	180	800	1300	150	110
Q1-2024	32	210	840	980	130	110
Q2-2024	220	210	140	910	120	96
Q3-2024	270	230	760	660	140	110
Q4-2024	30	230	660	740	130	110
Q1-2025	30	240	620	730	130	110
Q2-2025	<i>Insufficient volume to sample</i>	270	600	710	130	110
Q3-2025	31	269	601	689	139	110
Q4-2025	30	282	604	653	139	115
Trend	No Trend	Increasing	No Trend	No Trend	No Trend	No Trend

9.1.13 Julies Reward Bores Selenium

Sampling from the Julies Reward monitoring bores demonstrates stable trends (Tableion) with values usually below detection. A sharp increase was observed at JMB005 in Q3 and Q4-2023 due to the proximity to the supernatant pond in JRTSF, this has since declined.

Tableion: Julies Reward Bores (Selenium) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	<0.001	<0.001	<0.001	0.002	<0.001	0.001
Q2-2023	<0.001	0.002	<0.001	<0.001	<0.001	0.002
Q3-2023	<0.001	<0.001	<0.001	0.03	0.002	<0.001
Q4-2023	<0.001	<0.001	0.003	0.037	0.003	0.003
Q1-2024	<0.001	0.001	<0.001	0.016	0.002	0.001
Q2-2024	0.001	0.001	0.003	0.01	0.002	0.002
Q3-2024	<0.001	<0.001	<0.001	0.002	0.001	0.001
Q4-2024	<0.001	<0.001	<0.001	0.002	0.001	0.001
Q1-2025	<0.001	<0.001	<0.001	<0.001	0.001	0.001
Q2-2025	<0.01	<0.001	<0.001	0.016	<0.001	<0.001
Q3-2025	Insufficient volume to sample	<0.01	<0.01	0.01	<0.01	<0.01
Q4-2025	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend

9.1.14 Julies Reward Bores Vanadium

Sampling from the Julies Reward monitoring bores demonstrates stable to declining vanadium trends (Table 16).

Table 16: Julies Reward Bores (Vanadium) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	0.003	0.007	0.002	0.004	0.007	0.014
Q2-2023	0.002	0.006	0.002	0.002	0.005	0.013
Q3-2023	0.002	0.006	0.001	0.014	0.002	0.013
Q4-2023	0.001	0.005	<0.001	0.01	0.003	0.011
Q1-2024	0.002	0.006	0.001	0.003	0.007	0.006
Q2-2024	0.002	0.006	0.003	0.003	0.005	0.001
Q3-2024	0.0024	0.0031	0.0035	0.0008	0.0063	0.012
Q4-2024	0.0022	0.0047	0.009	0.0016	0.0059	0.011
Q1-2025	0.0027	0.001	0.014	<0.001	0.0062	0.0092
Q2-2025	Insufficient volume to sample	0.0031	0.0057	0.0035	0.0068	0.0086
Q3-2025	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
Q4-2025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend

9.1.15 Julies Reward Bores Zinc

Sampling from the Julies Reward monitoring bores demonstrates no distinct trends for zinc (Table 17).

Table 17: Julies Reward Bores (Zinc) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	0.021	0.005	0.01	< 0.005	0.093	<0.005
Q2-2023	0.009	0.007	0.008	< 0.005	0.099	0.006
Q3-2023	<0.005	<0.005	0.005	0.063	0.016	<0.005
Q4-2023	0.007	<0.005	<0.005	0.01	0.016	<0.005
Q1-2024	<0.005	<0.005	0.012	<0.005	0.016	<0.005
Q2-2024	0.009	<0.005	0.006	0.009	<0.005	<0.005
Q3-2024	0.003	<0.001	0.014	0.022	0.002	0.002
Q4-2024	0.008	0.001	0.01	0.008	0.003	0.003
Q1-2025	0.076	0.004	0.005	<0.005	0.004	0.006
Q2-2025	<i>Insufficient volume to sample</i>	0.002	0.003	0.013	0.003	<0.001
Q3-2025	0.034	<0.005	0.02	0.01	0.007	0.011
Q4-2025	0.12	<0.005	0.015	0.025	<0.005	<0.005
Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend

9.1.16 Julies Reward Bores Total Acidity

Sampling from the Julies Reward monitoring bores demonstrates no distinct trend for total acidity (Table 18). The significant increases for all JMB bores except for JMB008 in Q4-2024. This may be caused by the ceasing of deposition to JRTSF in June 2024 and the subsequent drying out of the tailings, these results have now returned to expected levels.

Table 18: Julies Reward Bores (Total Acidity) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	9	5	38	5	5	5
Q2-2023	10	6	30	5	6	19
Q3-2023	17	12	41	5	9	9
Q4-2023	7	6	29	9	5	16
Q1-2024	13	10	33	7	6	5
Q2-2024	15	12	17	19	10	8
Q3-2024	10	7	18	13	<5	<5
Q4-2024	110	320	610	380	150	<5
Q1-2025	5	20	17	10	6	<5
Q2-2025	<i>Insufficient volume to sample</i>	13	18	6	6	<5
Q3-2025	6	16	21	7	6	5
Q4-2025	7	19	19	11	8	6
Trend	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend

9.1.17 Julies Reward Bores WAD Cyanide

Sampling from the Julies Reward monitoring bores demonstrates a stable trend at JMB006 and JMB008 and no trend at JMB001, JMB002, JMB004 and JMB005 (Table 19). The sharp increase at JMB005 in Q3 and Q4-2023 has since returned to low levels. This bore is in close proximity to the supernatant pond at JRTSF.

Table 19: Julies Reward Bores (WAD Cyanide) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	< 0.004	< 0.004	0.009	< 0.004	< 0.004	< 0.004
Q2-2023	< 0.004	< 0.004	0.059	0.02	< 0.004	< 0.004
Q3-2023	< 0.004	< 0.004	0.019	38	< 0.004	< 0.004
Q4-2023	< 0.004	< 0.004	< 0.004	18	< 0.004	< 0.004
Q1-2024	<0.004	<0.004	<0.004	0.013	<0.004	<0.004
Q2-2024	<0.004	<0.004	0.022	<0.004	<0.004	<0.004
Q3-2024	0.019	<0.004	0.005	<0.004	<0.004	<0.004
Q4-2024	<0.004	0.007	0.005	<0.004	<0.004	<0.004
Q1-2025	<0.004	0.005	0.012	0.015	<0.004	<0.004
Q2-2025	<i>Insufficient volume to sample</i>	<0.004	<0.004	<0.004	<0.004	<0.004
Q3-2025	<0.004	<0.004	0.008	<0.020	<0.004	<0.004
Q4-2025	<0.004	<0.004	0.012	0.028	<0.004	<0.004
Trend	No Trend	No Trend	No Trend	No Trend	Stable	Stable

9.1.18 Julies Reward Bores Bicarbonate

Sampling from the Julies Reward monitoring bores demonstrates an increasing trend at JMB002 and JMB005 since 2023, and no trend at the remaining bores. (Table 20).

Table 20: Julies Reward Bores (Bicarbonate) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2022	29	70	230	56	67	41
Q2-2022	58	75	240	76	94	49
Q3-2022	68	100	240	72	82	47
Q4-2022	120	78	230	42	84	48
Q1-2023	130	89	230	39	94	52
Q2-2023	120	94	230	35	84	48
Q3-2023	120	100	240	190	90	52
Q4-2023	98	110	230	290	90	47
Q1-2024	98	110	230	300	78	41
Q2-2024	40	120	53	200	95	46
Q3-2024	54	140	210	230	91	59
Q4-2024	74	140	190	280	84	49
Q1-2025	58	120	160	290	89	40
Q2-2025	<i>Insufficient volume to sample</i>	150	160	210	86	53
Q3-2025	63	154	146	166	83	82
Q4-2025	77	169	154	215	88	47
Trend	No Trend	Increasing	No Trend	Increasing	No Trend	No Trend

9.1.19 Julies Reward Bores Sulphate

Sampling from the Julies Reward monitoring bores demonstrates an increasing trend at JMB002 and JMB005, and no trend at the remaining bores (Table 21). Figure 4 demonstrates the largest increases at JMB004 and JMB005, attributable to the bore being in a highly transmissive area. These values have declined sharply as the facility dries out.

Table 21: Julies Reward Bores (Sulphate) Results

	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Q1-2023	9	300	1400	56	350	110
Q2-2023	9	370	1500	61	390	95
Q3-2023	6	420	1500	1300	330	95
Q4-2023	11	420	1500	1200	290	92
Q1-2024	11	540	1400	1200	210	96
Q2-2024	400	650	380	1400	210	97
Q3-2024	490	840	1600	1200	200	97
Q4-2024	16	770	1300	1100	200	59
Q1-2025	13	870	1400	1000	210	100
Q2-2025	<i>Insufficient volume to sample</i>	1000	1300	950	200	170
Q3-2025	19	989	1340	766	208	102
Q4-2025	15	907	1210	650	162	94
Trend	No Trend	Increasing	No Trend	Increasing	No Trend	No Trend

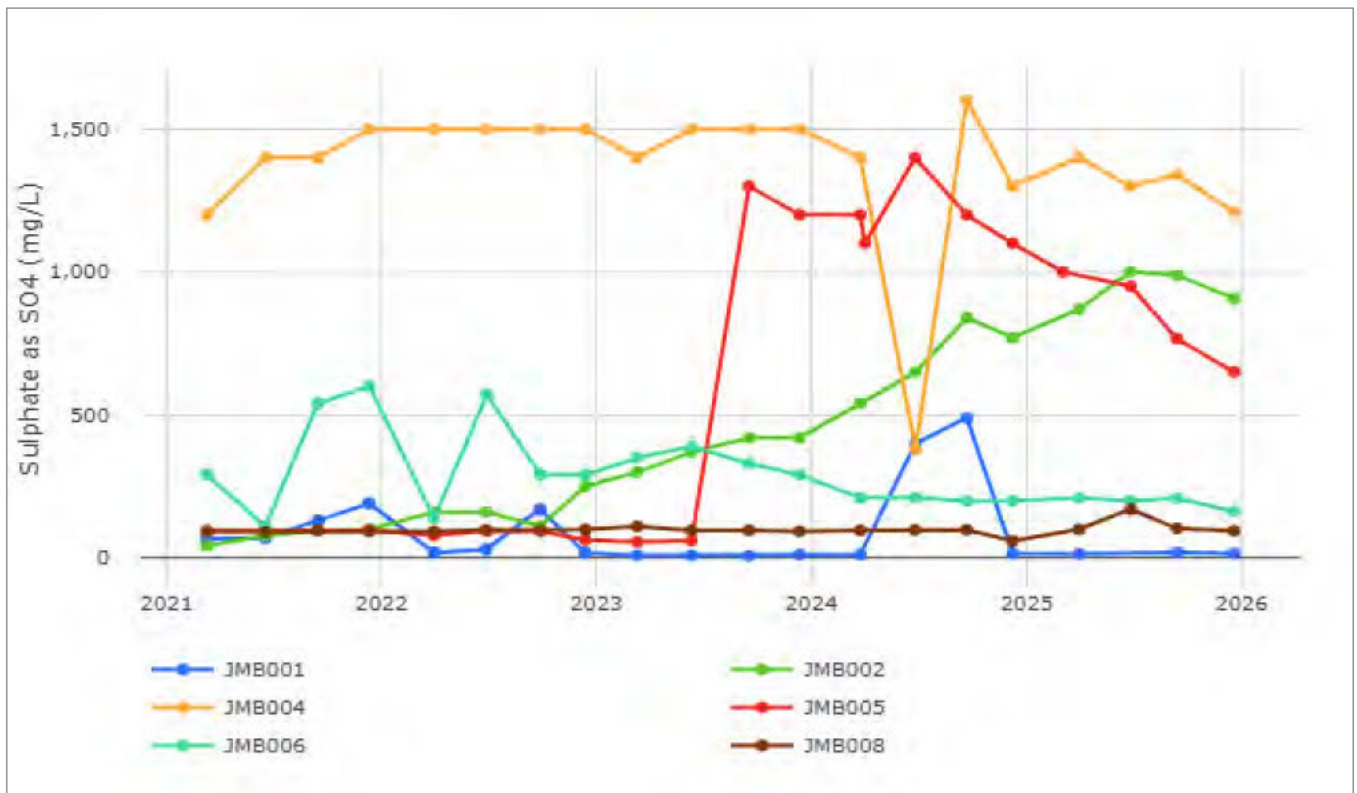


Figure 4: Julies Reward TSF Monitoring Bore Sulphate Records

9.1.20 Julies Reward Bores SWL

Long term trends demonstrate an increase in SWL at all monitoring bore locations, most notably at JMB04. This is attributable to active deposition to JRTSF and the subsequent raising of the surrounding groundwater table as the facility is filled with tailings (Table 22 and Figure 5). Production bore JDW05_R was installed and commissioned for use as a production bore for processing water supply and seepage management. This bore is in very close proximity to JMB004, where water levels are expected to decline.

Minor drops and increases in JMB001, JMB002, JMB006 and JMB008 is most likely attributed to the drying out of JRTSF following deposition and the regulation of the groundwater table. The water level in JMB002 has fallen between Q2-2024 and Q4-2025.

At JMB005, the SWL rose significantly in Q3-2023 and Q1-2024 and when the supernatant seepage was intercepted briefly by the monitoring bore due to the proximity to the pit crest and supernatant pond. The water level is now flattening out.

Table 22: Julies Reward Monitoring Bore Water Levels

	Recorded Standing Water Levels (mbgl)					
	JMB001	JMB002	JMB004	JMB005	JMB006	JMB008
Dec-22	-35.22	-33.40	-28.71	-31.65	-28.53	-32.04
Dec-23	-33.78	-32.7	-27.91	-23.16	-29.20	-30.72
Dec-24	-32.34	-31.90	-40.75	-27.65	-29.97	-31.89
Dec-25	-39.76	-33.57	-69.57	-30.82	-30.47	-33.68
Relative GW Difference since last annual period (m)	+7.42	+1.67	+28.82	+3.17	+0.5	+1.79

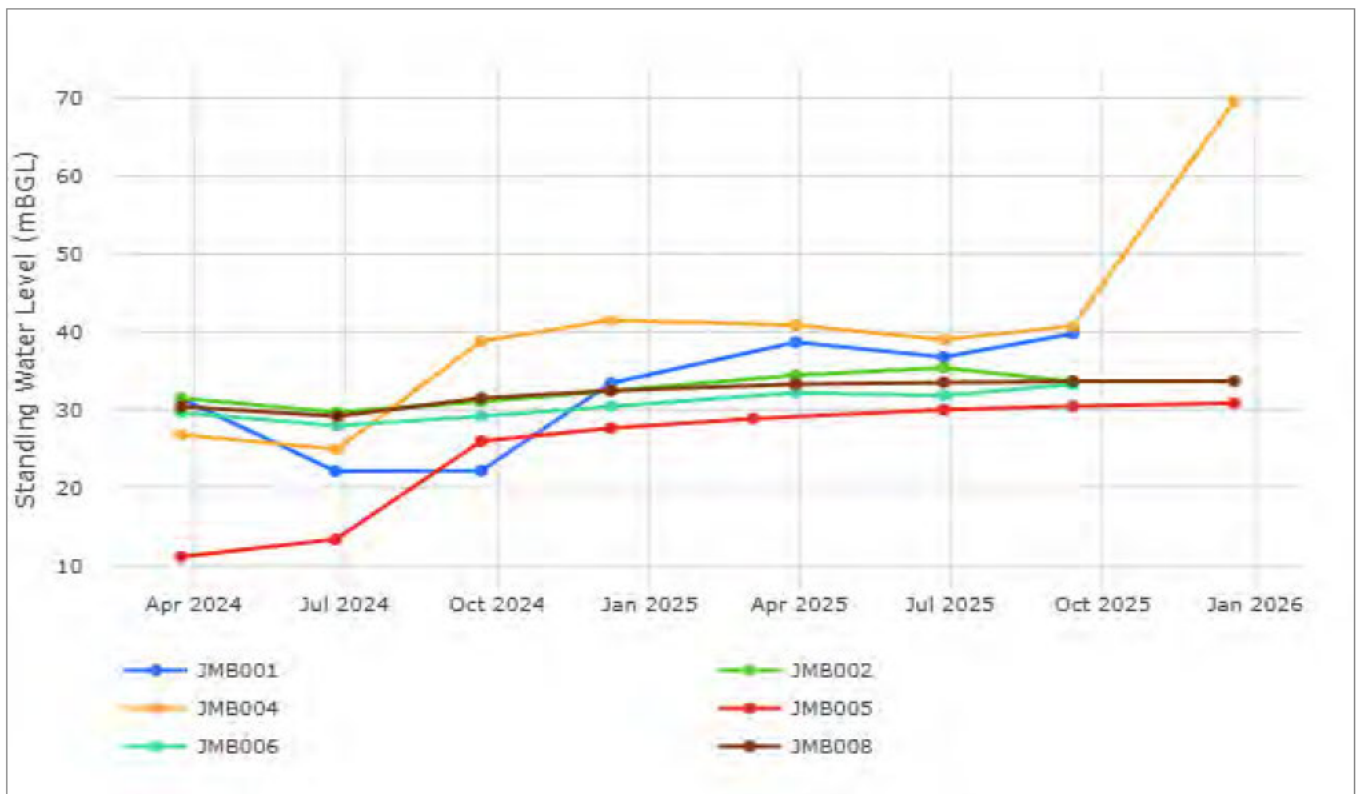


Figure 5: Julies Reward Monitoring Bore SWL

9.2 TSF2 Monitoring Bores

found below contain

Water quality analysis results from the last three annual periods for TBS2, TBS3, TBS4 and TBS5 are summarised in Section 9.2.1 to 9.2.20. Tailings deposition transferred to TSF2 following construction of the Stage 1 Lift (2.5 m) in September 2023. On 17 March 2025, tailings deposition was transferred to the Tuckabianna West in-pit TSF which is now currently operating.

9.2.1 TSF2 Bores pH

Sampling from the TSF2 monitoring bores demonstrates no trend (Table 23) with results remaining between the licence lower and upper limits of pH 6 and pH 9.

Table 23: TSF2 Bores (pH) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	7.5	6.9	7.9	7.7
Q2-2023	7.3	6.8	7.9	7.6
Q3-2023	7.4	6.9	8.0	7.7
Q4-2023	7.6	6.9	7.9	7.7
Q1-2024	7.2	6.7	7.9	7.7
Q2-2024	6.9	6.6	7.3	7.5
Q3-2024	7.1	7.0	7.8	7.4
Q4-2024	7.7	7.6	7.9	7.7
Q1-2025	7.6	7.5	8	7.7
Q2-2025	7.6	7.1	7.8	7.6
Q3-2025	7.64	6.83	7.95	7.72
Q4-2025	7.16	6.68	7.7	7.45
Trend	No Trend	No Trend	No Trend	No Trend

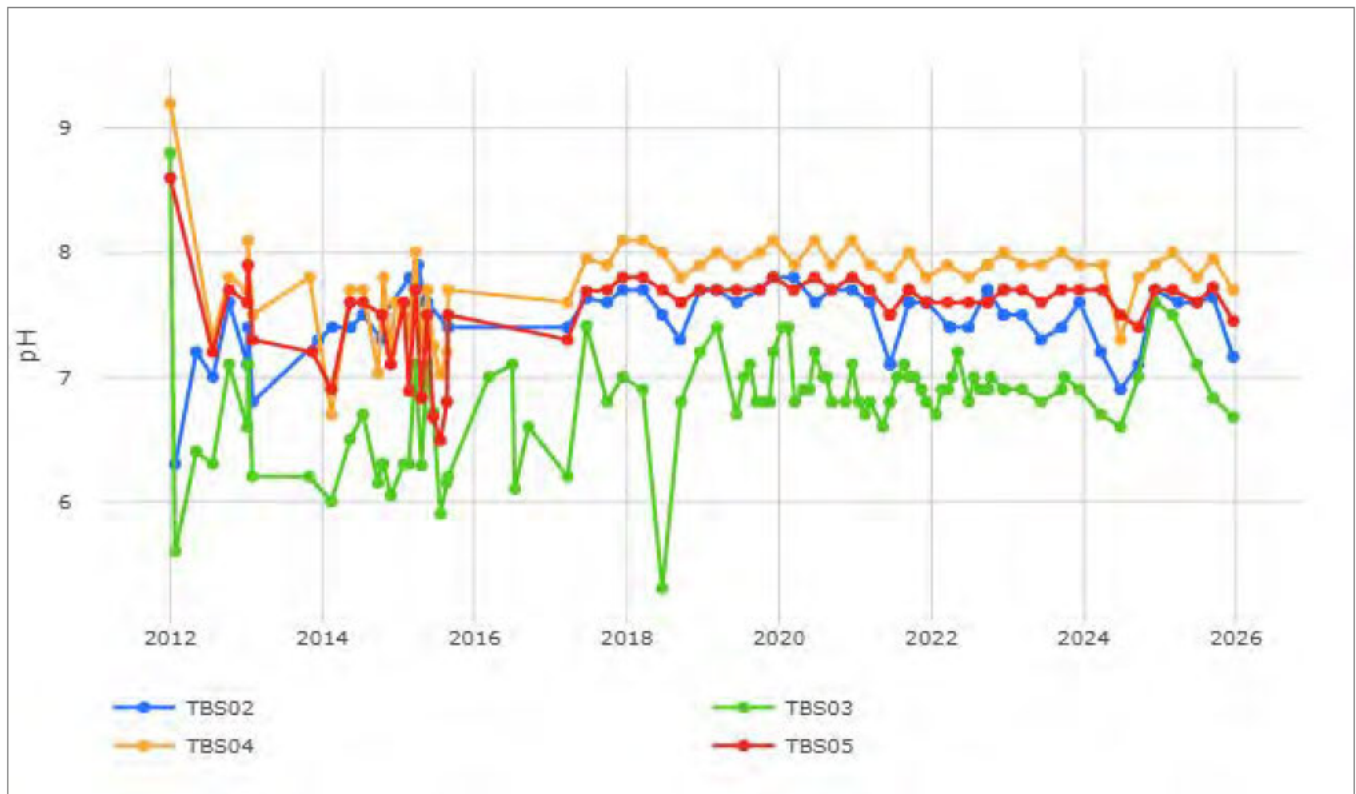


Figure 6: TSF2 Monitoring Bore pH Records

9.2.2 TSF2 Bores TDS

Sampling from the TSF2 monitoring bores indicates an increasing trend in TDS at TBS3, while TBS2, TBS4 and TBS5 show generally stable results with no consistent long term trend across the monitoring period (Table 25 and Figure 7). The increase at TBS3 corresponds with the recommencement of deposition into TSF2 in June 2024. Deposition into TSF2 ceased in March 2025, since then results have shown a declining trend. This trend is also observed in TBS05.

Table 24: TSF2 Bore (TDS) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	585	2,749	1,307	2,034
Q2-2023	351	4,108	1,202	1,891
Q3-2023	663	4,134	1,215	1,969
Q4-2023	708	4,199	1,293	2,002
Q1-2024	720	5,700	1,200	2,000
Q2-2024	840	4,700	1,200	2,200
Q3-2024	1,000	5,900	1,200	1,800
Q4-2024	1,100	5,900	1,200	2,200
Q1-2025	1300	6100	1200	2100
Q2-2025	1300	6000	1200	1900
Q3-2025	1180	5960	1240	1910
Q4-2025	1190	5940	1160	1740
Trend	No Trend	Increasing	No Trend	No Trend

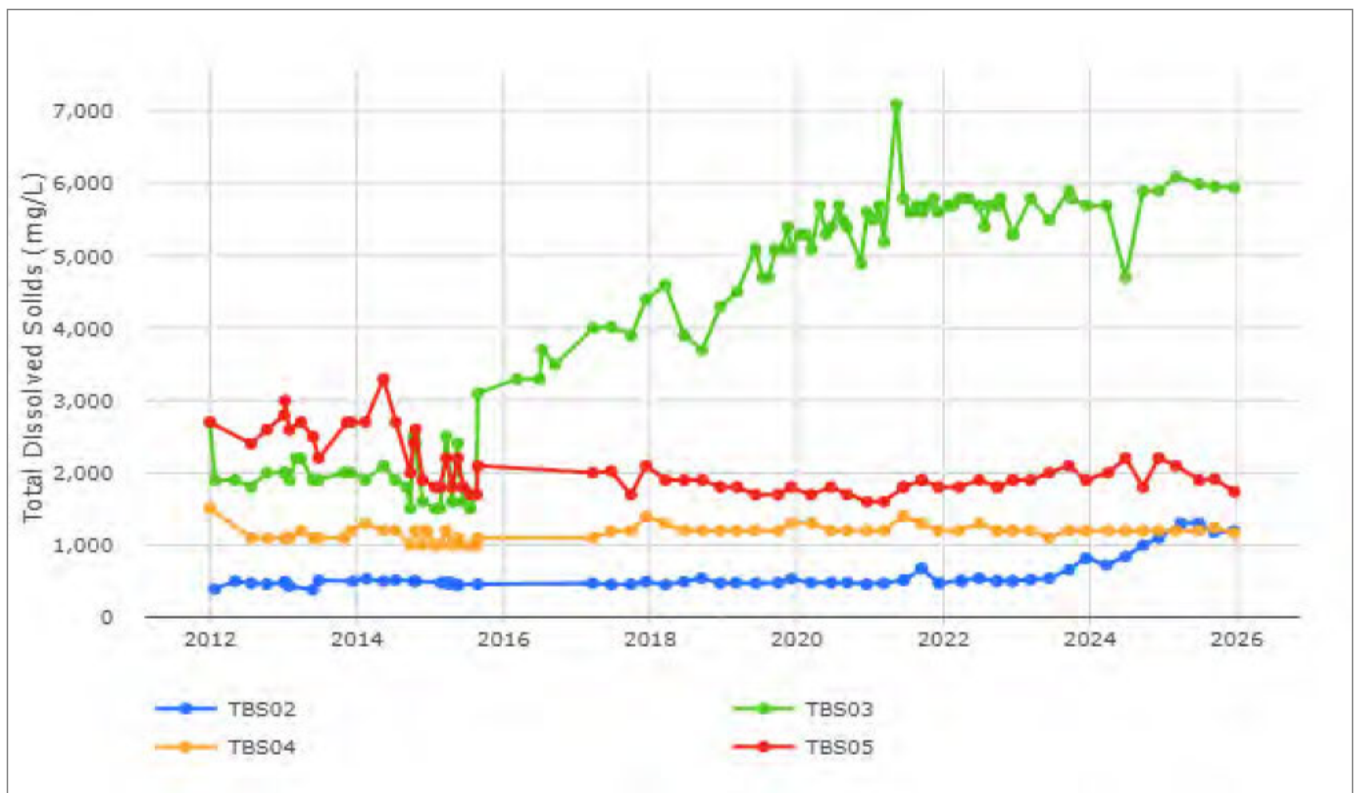


Figure 7: TSF2 Monitoring Bore TDS Records

9.2.3 TSF2 Bores Arsenic

Sampling from the TSF2 monitoring bores indicates generally stable arsenic concentrations across all monitoring locations, with no consistent long-term trends observed at TBS2, TBS3, TBS4 or TBS5 over the reporting period (Table 25). A temporary increase in arsenic concentrations was observed at TBS3 and TBS4 in Q1 2025; however, subsequent monitoring results have returned to concentrations consistent with historical levels. Overall, arsenic concentrations across the TSF2 monitoring bores remain low and relatively stable.

Table 25: TSF2 Bores (Arsenic) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	<0.001	0.001	0.002	<0.001
Q2-2023	<0.001	0.002	0.002	<0.001
Q3-2023	<0.001	0.002	0.002	<0.001
Q4-2023	<0.001	0.002	0.002	<0.001
Q1-2024	<0.001	<0.002	0.002	<0.001
Q2-2024	<0.001	0.002	0.001	<0.001
Q3-2024	<0.0005	0.0008	0.0019	<0.0005
Q4-2024	<0.0005	0.001	0.0022	0.0005
Q1-2025	<0.0005	0.003	0.004	<0.001
Q2-2025	<0.0005	0.0006	0.0019	<0.0005
Q3-2025	<0.001	<0.001	0.002	<0.001
Q4-2025	<0.001	0.001	0.002	<0.001
Trend	No Trend	No Trend	No Trend	No Trend

9.2.4 TSF2 Bores Cadmium

Sampling from the TSF2 monitoring bores demonstrates no distinct trend across TBS2, TBS4 and TBS5. TBS3 returned a stable trend (Table 26).

Table 26: TSF2 Bores (Cadmium) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	<0.0001	0.0008	<0.0001	<0.0001
Q2-2023	<0.0001	0.0008	<0.0001	<0.0001
Q3-2023	<0.0001	0.0009	<0.0001	<0.0001
Q4-2023	<0.0001	0.001	<0.0001	<0.0001
Q1-2024	<0.0001	0.001	<0.0001	<0.0001
Q2-2024	<0.0001	0.0009	<0.0001	<0.0001
Q3-2024	<0.00005	0.001	<0.00005	<0.00005
Q4-2024	<0.00005	0.00083	<0.00005	<0.00005
Q1-2025	<0.00005	0.0016	<0.0001	<0.0001
Q2-2025	<0.00005	0.0011	<0.00005	<0.00005
Q3-2025	<0.0001	0.0016	<0.0001	<0.0001
Q4-2025	<0.0001	0.0014	<0.0001	<0.0001
Trend	No Trend	No Trend	No Trend	No Trend

9.2.5 TSF2 Bores Calcium

Sampling from the TSF2 monitoring bores demonstrates an increasing trend for TBS3 and no distinct trend at TBS2, TBS4 and TBS5 (Table 27).

Table 27: TSF2 Bores (Calcium) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	24	700	110	140
Q2-2023	24	600	85	140
Q3-2023	34	590	90	140
Q4-2023	37	600	92	150
Q1-2024	45	580	90	150
Q2-2024	49	610	90	150
Q3-2024	65	640	89	150
Q4-2024	73	640	91	150
Q1-2025	74	590	86	140
Q2-2025	81	650	92	140
Q3-2025	86	629	103	138
Q4-2025	84	594	93	132
Trend	No Trend	Increasing	No Trend	No Trend

9.2.6 TSF2 Bores Chromium

No clear trend has been observed from sampling of the TSF2 monitoring bores (Table 28).

Table 28: TSF2 Bores (Chromium) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	0.015	< 0.001	0.007	0.014
Q2-2023	0.012	< 0.001	0.007	0.014
Q3-2023	0.01	< 0.001	0.007	0.015
Q4-2023	0.005	< 0.001	0.007	0.017
Q1-2024	0.009	<0.002	0.007	0.015
Q2-2024	0.008	0.001	0.007	0.017
Q3-2024	0.0038	<0.0005	0.0073	0.017
Q4-2024	0.0024	<0.0005	0.0068	0.016
Q1-2025	0.0025	<0.001	0.008	0.02
Q2-2025	0.0023	<0.0005	0.0062	0.014
Q3-2025	0.003	<0.001	0.006	0.011
Q4-2025	0.005	<0.001	0.007	0.009
Trend	No Trend	No Trend	No Trend	No Trend

9.2.7 TSF2 Bores Cobalt

Sampling from the TSF2 monitoring bores demonstrates no trend at TBS4 and TBS5, an increasing trend at TBS2 and decreasing trend in TBS3 (Table 29).

Table 29: TSF2 Bores (Cobalt) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	0.018	0.32	0.023	0.006
Q2-2023	0.016	0.33	0.009	0.006
Q3-2023	0.048	0.32	0.013	0.006
Q4-2023	0.049	0.29	0.009	0.006
Q1-2024	0.073	0.24	0.01	0.007
Q2-2024	0.08	0.21	0.012	0.007
Q3-2024	0.07	0.19	0.011	0.006
Q4-2024	0.13	0.16	0.011	0.0051
Q1-2025	0.14	0.26	0.014	0.008
Q2-2025	0.12	0.17	0.0085	0.0042
Q3-2025	0.06	0.225	0.007	0.003
Q4-2025	0.064	0.255	0.008	0.004
Trend	Increasing	Decreasing	No Trend	No Trend

9.2.8 TSF2 Bores Copper

Sampling from the TSF2 monitoring bores demonstrates an increasing trend at TBS3 and no trend at the remaining bores, with the majority of readings below the LOD (Table 30).

Table 30: TSF2 Bores (Copper) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	< 0.001	0.002	<0.001	<0.001
Q2-2023	< 0.001	0.003	<0.001	<0.001
Q3-2023	< 0.001	0.003	<0.001	<0.001
Q4-2023	0.003	0.005	0.002	<0.001
Q1-2024	0.001	0.005	<0.001	0.001
Q2-2024	<0.001	0.003	<0.001	<0.001
Q3-2024	<0.0005	0.0023	<0.0005	<0.005
Q4-2024	0.0008	0.0034	0.0007	0.0007
Q1-2025	0.0006	0.007	<0.001	0.002
Q2-2025	0.0009	0.003	<0.0005	<0.0005
Q3-2025	<0.001	0.012	0.003	0.002
Q4-2025	<0.001	0.022	0.004	<0.001
Trend	No Trend	Increasing	No Trend	No Trend

9.2.9 TSF2 Bores Lead

Sampling from the TSF2 monitoring bores demonstrates no clear trend with the majority of results below the LOR (Table 31).

Table 31: TSF2 Bores (Lead) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	0.001	< 0.001	< 0.001	< 0.001
Q2-2023	< 0.001	< 0.001	< 0.001	< 0.001
Q3-2023	< 0.001	< 0.001	< 0.001	< 0.001
Q4-2023	< 0.001	0.001	< 0.001	< 0.001
Q1-2024	<0.001	0.003	<0.001	<0.001
Q2-2024	<0.001	<0.001	<0.001	<0.001
Q3-2024	<0.0005	<0.0005	0.0006	<0.0005
Q4-2024	<0.0005	<0.0005	<0.0005	<0.0005
Q1-2025	<0.0005	<0.001	<0.001	<0.001
Q2-2025	<0.0005	<0.0005	<0.0005	<0.0005
Q3-2025	<0.001	<0.001	<0.001	<0.001
Q4-2025	<0.001	<0.001	<0.001	<0.001
Trend	No Trend	No Trend	No Trend	No Trend

9.2.10 TSF2 Bores Molybdenum

Sampling from the TSF2 monitoring bores demonstrates no clear trend across the annual periods with the majority of results below the LOR (Table 32).

Table 32: TSF2 Bores (Molybdenum) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	< 0.001	< 0.001	0.001	< 0.001
Q2-2023	< 0.001	< 0.001	0.001	< 0.001
Q3-2023	0.006	< 0.001	0.002	< 0.001
Q4-2023	0.004	< 0.001	0.001	< 0.001
Q1-2024	0.005	<0.002	0.001	<0.001
Q2-2024	0.016	0.001	0.001	<0.001
Q3-2024	0.014	<0.0005	0.0012	0.0005
Q4-2024	0.0051	<0.0005	0.0011	0.0006
Q1-2025	0.0053	0.002	<0.001	<0.001
Q2-2025	0.0027	<0.0005	0.0011	0.0005
Q3-2025	<0.001	<0.001	<0.001	<0.001
Q4-2025	0.003	<0.001	<0.001	<0.001
Trend	No Trend	No Trend	No Trend	No Trend

9.2.11 TSF2 Bores Potassium

Sampling from the TSF2 monitoring bores demonstrates an increasing trend at TBS2, stable trend at TBS5 and no trend at TBS3 and TBS5 (Table 33).

Table 33: TSF2 Bores (Potassium) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	7.8	66	10	11
Q2-2023	8.2	61	7.7	11
Q3-2023	9.2	59	8.4	11
Q4-2023	9.7	62	8.2	12
Q1-2024	10	67	7.6	11
Q2-2024	10	64	7.8	11
Q3-2024	12	63	8.	12
Q4-2024	12	63	7.7	11
Q1-2025	13	63	7.5	11
Q2-2025	13	66	7.7	11
Q3-2025	14	57	8	11
Q4-2025	16	62	9	11
Trend	Increasing	No Trend	No Trend	Stable

9.2.12 TSF2 Bores Sodium

Sampling from the TSF2 monitoring bores demonstrates a stable trend at TBS3, an increasing trend at TBS2 and no trend at TBS4 and TBS5 (Table 34).

Table 34: TSF2 Bores (Sodium) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	110	470	210	290
Q2-2023	96	480	180	290
Q3-2023	120	470	190	290
Q4-2023	120	490	190	300
Q1-2024	130	490	190	300
Q2-2024	130	470	180	280
Q3-2024	180	520	190	300
Q4-2024	200	490	180	280
Q1-2025	210	490	180	270
Q2-2025	210	540	190	280
Q3-2025	214	520	199	287
Q4-2025	217	564	199	284
Trend	Increasing	Stable	No Trend	No Trend

9.2.13 TSF2 Bores Selenium

Sampling from the TSF 2 monitoring bores demonstrates no distinct trend with most below the LOR or slightly elevated above the LOR. (Table 35).

Table 35: TSF2 Bores (Selenium) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	<0.001	<0.001	0.002	0.003
Q2-2023	<0.001	<0.001	0.002	<0.001
Q3-2023	<0.001	<0.001	<0.001	0.001
Q4-2023	0.003	0.004	0.002	0.004
Q1-2024	0.001	<0.001	0.002	0.002
Q2-2024	0.002	<0.001	0.003	0.003
Q3-2024	0.001	<0.001	0.002	0.002
Q4-2024	0.001	<0.001	0.002	0.003
Q1-2025	0.001	<0.001	0.002	0.002
Q2-2025	<0.001	<0.001	0.002	0.002
Q3-2025	<0.01	<0.01	<0.01	<0.01
Q4-2025	<0.004	<0.004	<0.004	<0.004
Trend	No Trend	No Trend	No Trend	No Trend

9.2.14 TSF2 Bore Vanadium

Sampling from the TSF 2 monitoring bores demonstrates a increasing trend at TBS3 and TBS5 and no trend at TBS2 and TBS4 (Table 36).

Table 36: TSF2 Bores (Vanadium) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	0.003	0.003	0.011	0.007
Q2-2023	0.002	0.003	0.01	0.006
Q3-2023	0.002	0.003	0.01	0.007
Q4-2023	0.002	0.004	0.012	0.008
Q1-2024	0.001	0.003	0.011	0.007
Q2-2024	0.001	0.005	0.012	0.007
Q3-2024	0.0016	0.0034	0.012	0.0072
Q4-2024	0.0015	0.0037	0.012	0.0078
Q1-2025	0.0013	0.004	0.013	0.009
Q2-2025	0.0013	0.0034	0.013	0.008
Q3-2025	<0.01	<0.01	0.01	<0.01
Q4-2025	<0.01	<0.01	0.01	<0.01
Trend	No Trend	Increasing	No Trend	Increasing

9.2.15 TSF2 Bores Zinc

Sampling from the TSF2 monitoring bores demonstrates no distinct trend (Table 37).

Table 37: TSF2 Bores (Zinc) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	0.01	0.017	<0.005	<0.005
Q2-2023	0.014	0.008	<0.005	0.027
Q3-2023	<0.005	0.009	<0.005	<0.005
Q4-2023	0.011	0.018	<0.005	<0.005
Q1-2024	<0.005	0.017	<0.005	<0.005
Q2-2024	<0.005	0.012	<0.005	<0.005
Q3-2024	<0.001	0.01	<0.001	<0.001
Q4-2024	0.009	0.012	0.002	0.003
Q1-2025	0.002	0.027	<0.005	0.006
Q2-2025	0.002	0.012	<0.001	<0.001
Q3-2025	<0.005	0.062	<0.005	<0.005
Q4-2025	<0.005	0.023	0.006	<0.005
Trend	No Trend	No Trend	No Trend	No Trend

9.2.16 TSF2 Bores Total Acidity

Sampling from all TSF2 monitoring bores demonstrates no trend (Table 38). Total acidity at TBS3 is elevated compared to the other monitoring bores.

Table 38: TSF2 Bores (Total Acidity) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	6	46	8	6
Q2-2023	<5	29	10	6
Q3-2023	7	61	17	8
Q4-2023	<5	30	10	6
Q1-2024	6	34	8	8
Q2-2024	14	22	11	8
Q3-2024	<5	17	7	<5
Q4-2024	<5	9	<5	<5
Q1-2025	5	13	7	<5
Q2-2025	<5	18	8	<5
Q3-2025	4	63	11	6
Q4-2025	6	37	12	7
Trend	No Trend	No Trend	No Trend	No trend

9.2.17 TSF2 Bores WAD Cyanide

Sampling from the TSF2 monitoring bores demonstrates a stable trend at TBS4 and TBS5 and no trend at TBS2 and TBS3 (Table 39). Most samples were below the LOR with some anomalous but inconsistent minor elevations, such as TBS2. These appear related the filling of JRTSF to capacity and the resulting high supernatant pond on the southern side which is in close proximity to TBS2.

Table 39: TSF2 Bores (WAD CN) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	<0.004	<0.004	<0.004	<0.004
Q2-2023	<0.004	<0.004	<0.004	<0.004
Q3-2023	<0.004	<0.004	<0.004	<0.004
Q4-2023	<0.004	<0.004	<0.004	<0.004
Q1-2024	0.012	<0.004	<0.004	<0.004
Q2-2024	0.009	<0.004	<0.004	<0.004
Q3-2024	0.008	<0.004	<0.004	<0.004
Q4-2024	0.034	<0.004	<0.004	<0.004
Q1-2025	0.012	<0.004	<0.004	<0.004
Q2-2025	0.01	<0.004	<0.004	<0.004
Q3-2025	0.014	<0.004	<0.004	<0.004
Q4-2025	0.014	0.005	<0.004	<0.004
Trend	No Trend	No Trend	Stable	Stable

9.2.18 TSF2 Bores Bicarbonate

Sampling from the TSF2 monitoring bores demonstrates no trend at TBS2, TBS3 and TBS5. There is a decreasing at TBS4 (Table 40).

Table 40: TSF2 Bores (Bicarbonate) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	36	96	300	77
Q2-2023	35	91	290	78
Q3-2023	39	97	300	77
Q4-2023	40	95	310	79
Q1-2024	33	92	290	72
Q2-2024	38	94	280	76
Q3-2024	48	120	300	79
Q4-2024	66	110	280	78
Q1-2025	43	110	280	75
Q2-2025	46	120	290	73
Q3-2025	43	125	256	83
Q4-2025	30	126	267	69
Trend	No Trend	No Trend	Decreasing	No Trend

9.2.19 TSF2 Bores Sulphate

Sampling from the TSF2 monitoring bores indicates an increasing trend at TBS2 and no distinct trend at the other bores (Table 41 and Figure 8). TBS3 exceeded the 3,000 mg/L licence limit in Q1, Q2, Q3 of 2024 and Q1, Q2 of 2025 as noted in Section 6.

Table 41: TSF2 Bores (Sulphate) Results

	TBS2	TBS3	TBS4	TBS5
Q1-2023	77	2,900	150	300
Q2-2023	76	2,800	150	310
Q3-2023	110	2,900	170	310
Q4-2023	120	3,200	180	310
Q1-2024	150	3,000	150	300
Q2-2024	180	3,200	170	310
Q3-2024	250	3,400	130	290
Q4-2024	300	2,800	150	300
Q1-2025	350	3300	160	320
Q2-2025	350	3600	170	290
Q3-2025	359	2640	180	298
Q4-2025	315	2840	152	266
Trend	Increasing	No Trend	No Trend	No Trend

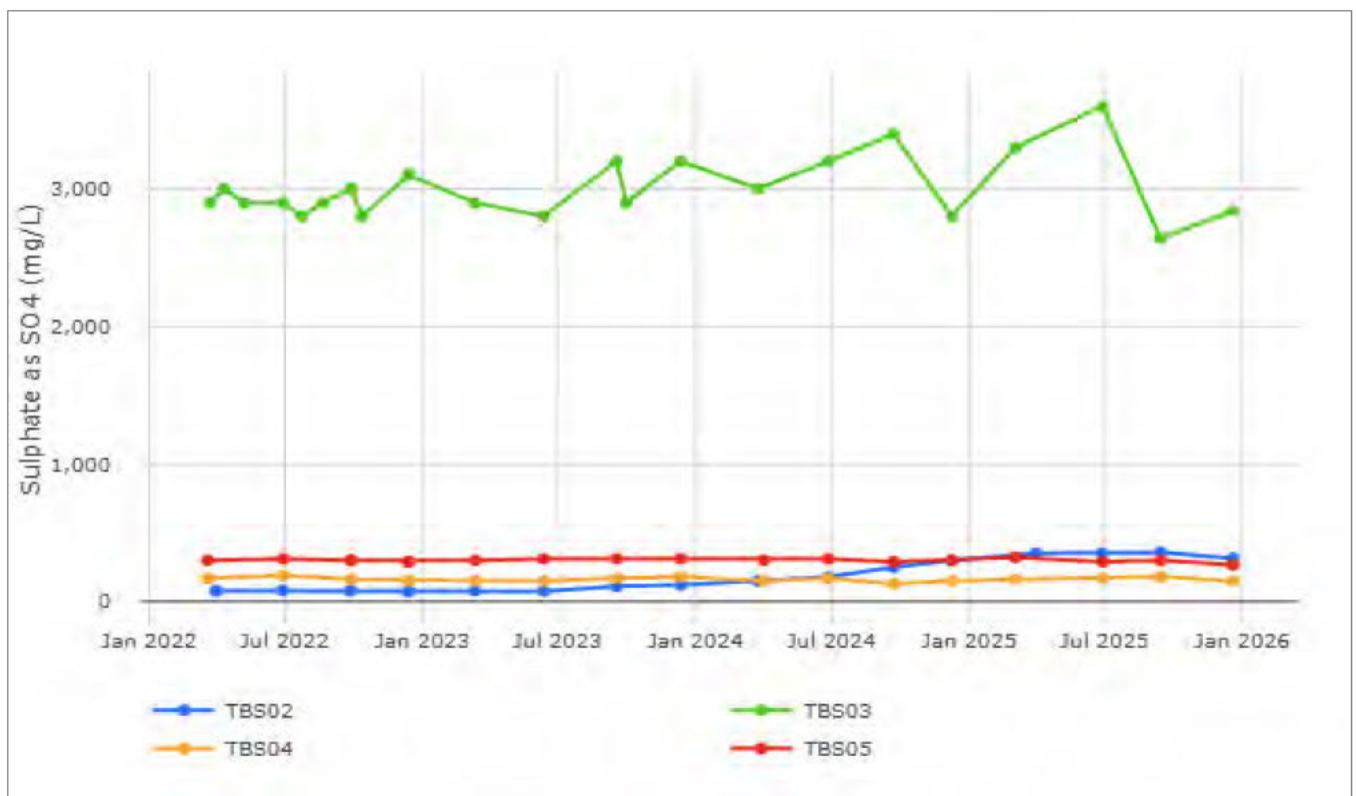


Figure 8: TSF2 Monitoring Bore Sulphate Records

9.2.20 TSF2 Bores SWL

TBS4 and TBS5 have shown a slight decline during the annual period, as only minimal tailings were deposited into TSF2. TBS3 is situated adjacent to TSF2, with SWLS increasing after TSF2 became operational again in June 2024. Monitoring bore TBS2 is affected by tailings deposition into the JRTSF and has risen gradually as the TSF neared capacity (Table 42 and Figure 9).

Table 42: TSF2 Monitoring Bore Water Levels

	Recorded Standing Water Levels (metres below ground level)			
	TBS2	TBS3	TBS4	TBS5
Dec-22	-31.38	-15.44	-12.00	- 18.00
Dec-23	-29.29	-15.76	- 12.18	- 18.34
Dec-24	-28.50	-13.67	-12.45	-18.48
Dec-25	-33.35	-10.58	-13.08	-18.01
Relative GW Difference (m)	+4.85	-3.09	+0.63	-0.47



Figure 9: TSF2 Monitoring Bores Recorded SWL

9.3 Pit Water Monitoring

9.3.1 Pit Water SWL

Water was pumped from the Caustons pit and Friars to the mill for use as raw water during 2025, resulting in a decreased water level at Friars (-5.0 m since December 2023). A small pit lake/sump at Caustons pit was kept at a similar level during 2025 to keep the underground portal exposed. The water level in Friars pit decreased by 6.6 m over the annual period as a result of transferring water to Tuckabianna West for use in the mill and abstraction for dust suppression use. The SWL in Tuckabianna West Pit has increased due to commencement of in-pit tailings disposal from March 2025.

Table 43: Pit Waters (SWL) Quarterly Trend Analysis

	Caustons	Friars	Jaffas Folly	Tuckabianna West
Q1-2022	404.2	410.3	435.9	382.6
Q2-2022	404.4	410.0	444.5	378.0
Q3-2022	403.5	411.1	443.3	375.9
Q4-2022	403.0	409.5	442.2	354.5
Q1-2023	403.0	408.9	434.3	360.9
Q2-2023	402.5	403.1	430.0	377.7
Q3-2023	404.8	401.0	429.6	378.2
Q4-2023	404.1	397.8	429.6	377.6
Q1-2024	404.2	396.5	429.7	370.7
Q2-2024	404.6	393.8	429.3	371.4
Q3-2024	404.0	390.3	429.4	371.1
Q4-2024	404.8	387.4	438.9	372.6
Q1-2025	405.3	391.6	437.8	387.6
Q2-2025	406.9	391.4	437	387.6
Q3-2025	-	-	-	-
Q4-2025	407.6	394	435.5	412.5
Trend	Increasing	Decreasing	No Trend	Increasing

Table 44: Pit Waters (SWL) Summary of Annual Volume Change

Pit	Metric	Dec-22	Dec-23	Dec-24	Dec-25	Change*
Tuckabianna West Pit	SWL (mRL)	354.5	377.6	372.6	412.5	+39.9**
	Pit Water Volume (kL)	14,574	213,828	144,983	1,390,811	+1,245,828
Caustons Pit	SWL (mRL)	403.0	404.1	404.8	407.6	+2.8**
	Pit Water Volume (kL)	1,841	4,479	6,918	29,760	+22,842*
Friars Pit	SWL (mRL)	409.5	397.8	387.4	394	+6.6**
	Pit Water Volume (kL)	636,419	340,354	177,030	273,641	+96,611
Jaffas Folly Pit	SWL (mRL)	442.2	429.6	438.9	435.5	-3.4**
	Pit Water Volume (kL)	131,158	27,119	95,597	64,463	-31,104*

*Change on previous year.

** SWL change relative to ground level

9.3.2 Pit Water pH

Sampling from the pit waters demonstrates no distinct trend for pH (Table 45). Samples from bore TDW5 is are used to represent the Tuckabianna West Pit.

Table 45: Pit Water (pH) Annual Year and Trend Analysis

	Caustons	Friars	Jaffas Folly	Tuckabianna West
Q1-2023	8.5	8.4	8.8	8.5
Q2-2023	7.5	8.0	7.8	7.1
Q3-2023	8.0	8.5	7.4	7.7
Q4-2023	6.5	7.6	7.9	7.4
Q1-2024	7.3	7.9	7.7	7.3
Q2-2024	8.6	7.7	7.7	6.5
Q3-2024	8.7	8.2	8.5	7.5
Q4-2024	8.5	8.0	8.1	8.2
Q1-2025	8.5	8.3	7.6	8
Q2-2025	8.89	8.4	8.56	7.8
Q3-2025	7.64	8.47	8.02	7.96
Q4-2025	-	8.03	6.97	7.78
Trend	No Trend	No Trend	No Trend	No Trend

* = zero discharge occurring.

9.3.3 Pit Water TDS

Sampling from the pit waters demonstrates a probably decreasing trend in the Friars pit and no trend at Caustons, Jaffa's Folly and Tuckabianna West Pits (Table 46). This is attributed to the dewatering of pits for processing and recharge of fresh water resulting in a resetting bioaccumulated concentrates by inflows of groundwater recharge. TDW5 has been used as a bore representative for Tuckabianna West Pit.

Table 46: Pit Waters (TDS) Annual Year and Trend Analysis

	Caustons	Friars	Jaffas Folly	Tuckabianna West
Q1-2023	748	3,022	268	826
Q2-2023	682	2,626	68	663
Q3-2023	630	2,613	60	676
Q4-2023	728	754	115	676
Q1-2024	754	2,483	131	611
Q2-2024	360	1,599	54	676
Q3-2024	728	3,191	156	689
Q4-2024	793	2,398	68	2,047
Q1-2025	1196	2400	100	640
Q2-2025	1339	2626	546	640
Q3-2025	644	2730	217	634
Q4-2025	-	2593	196	658
Trend	No Trend	Decreasing	No Trend	No Trend

* = zero discharge occurring

9.3.4 Tuckabianna Pits ANZECC Livestock Guidelines Summary

Data collected from 2011 to 2025 for Caustons, Friars, Jaffas Folly, and Tuckabianna West pits indicate the following water quality characteristics:

- Caustons Pit - Water is primarily sodium-chloride dominated, with pH ranging from neutral to alkaline. Salinity levels are generally classified as marginal.
- Friars Pit - Water is sodium-chloride dominated, with pH ranging from slightly acidic to alkaline. Salinity has varied from marginal to saline over the monitoring period.

- Jaffas Folly Pit - Water is sodium-chloride dominated, with pH ranging from neutral to alkaline. Salinity is generally classified as fresh.
- Tuckabianna West Pit - Water is sodium-chloride dominated, with pH ranging from slightly acidic to alkaline. Salinity has ranged from marginal to saline.

Across the monitoring period, none of the Tuckabianna pits (Caustons, Friars, Jaffas Folly, or Tuckabianna West) have recorded water quality parameters that exceed the ANZECC Livestock guidelines. Water chemistry trends have remained within acceptable ranges for livestock use.

10. REFERENCES

BoM. (2025). *Monthly Statistics for Australian Locations*. Retrieved from *Climate Statistic for Australian Locations*.

APPENDIX A: L8644/2012/1 ANNUAL AUDIT COMPLIANCE REPORT



Annual Audit Compliance Report Form

Environmental Protection Act 1986, Part V

Section A – Licence Details			
Licence number:	L8644/2012/1	Licence file number:	2012/002162-1
Licence holder:	Big Bell Gold Operations Pty Ltd		
Trading as:	Big Bell Gold Operations Pty Ltd		
ACN:	60 009 260 306		
Registered address:	Level 6, 200 St Georges Terrace Perth WA 6000		
Reporting period:	01/01/2025 to 31/12/2025		

Section B – Statement of Compliance with Licence Conditions
Did you comply with all of your licence conditions during the reporting period? (please tick the appropriate box)
<input type="checkbox"/> Yes – please complete: <ul style="list-style-type: none">• section C;• section D if required; and• sign the declaration in Section F.
<input checked="" type="checkbox"/> No – please complete: <ul style="list-style-type: none">• section C;• section D if required;• section E; and• sign the declaration at Section F.

Section C – Statement of Actual Production	
Provide the actual production quantity for this reporting period. Supporting documentation is to be attached.	
Prescribed Premises Category	Actual Production Quantity
05 – Processing and Beneficiation of Ore	1,274,796 tonnes

Section D – Statement of Actual Part 2 Waste Discharge Quantity	
Provide the actual Part 2 waste discharge quantity for this reporting period. Supporting documentation is to be attached.	
Prescribed Premises Category	Actual Part 2 Waste Discharge Quantity
06 – Mine Dewatering	1,035,818 tonnes
61 – Liquid Waste Facility	242,950 tonnes
64 – Class II Putrescible Landfill	218 tonnes

Section E – Details of Non-Compliance with Licence Condition			
Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period.			
Condition no:	15, Table 9	Date(s) of non-compliance:	04/03/2025; 28/06/2025; 13/09/2025;19/12/2025
Details of non-compliance:			
<p>TBS3: TDS exceedances detected (limit 5,000 mg/L) Q1: 04/03/2025: 6100 mg/L recorded Q2: 28/06/2025: 6000 mg/L recorded Q3: 13/09/2025: 5960 mg/L recorded Q4: 19/12/2025: 5940 mg/L recorded TBS3: Sulphate exceedances detected (limit 3,000 mg/L) Q1:04/03/2025: 3300 mg/L recorded Q2:28/06/2025: 3600 mg/L recorded</p>			
What was the actual (or suspected) environmental impact of the non-compliance?			
<p>NOTE – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.</p>			
<p>TBS3: No environmental impact has been detected through photographic monitoring as demonstrated through section 8.1 in the L8644/2012/1 2025 AER.</p> <p>A comprehensive geophysical assessment conducted by Applied Scientific Services and Technology (ASST) in March 2021 investigated the potential extent of seepage from TSF2. The assessment revealed the presence of naturally occurring near-surface clay, which acts as an effective barrier, confining any potential seepage to the localised area surrounding monitoring bore TBS3.</p>			
Cause (or suspected cause) of non-compliance:			
TBS3: Caused by the leaching of process solution through TSF2 into surrounding groundwater, as designed.			
Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:			
TBS3: BBGO will continue monitoring SWL and undertaking quarterly local photo monitoring as per L8644/2012/1. The groundwater flow pathways direct the water and has not been assessed as a threat to the adjacent environment.			
Was this non-compliance previously reported to DWER?			
<input checked="" type="checkbox"/> Yes, and			
<input type="checkbox"/> Reported to DWER verbally		Date: / /	
<input checked="" type="checkbox"/> Reported to DWER in writing		Date:10/04/2025, 11/07/2025, 18/11/2025,	

Section E – Details of non-compliance with licence condition			
Condition no:	19. Table 11	Date(s) of non-compliance:	01/04/2025

Details of non-compliance:

Tailings spill from booster station adjacent to Jaffa's Folly Pit. An estimated 2000 litres of tailings were released, impacting an approximate area of 1000 square metres of surrounding vegetation.

What was the actual (or suspected) environmental impact of the non-compliance?

NOTE – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.

1,000 square metres of surrounding vegetation was affected



Filename: Tuckabianna Tailings Spill to Environment
 Date: 30 September 2025
 Created By: isobellock
 Projection: GDA 1984 MGA ZDNE 50
 Scale: 1:3,000

Legend					
	Tailings Discharge Area		Haul and Access Roads		Pipeline
	Discharge Point		Laydown or Hardstand		Powerline
	Abandonment Bund		Mining Void		Waste Race Dump
	Buildings and Offices				

Tuckabianna Project

Discharge of Tailings to Environment

Cause (or suspected cause) of non-compliance:	
<p>A Citect alarm indicated an overflow at the tailings hopper. Investigation revealed that the standby pump initiated an automatic start, but the discharge valve failed to open. During the pump changeover sequence, the automatic dump valves activated, resulting in the discharge of tailings into the concrete bunding surrounding the booster station. This bunding subsequently overflowed, releasing tailings into the adjacent environment.</p>	
Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:	
<p>The Mill Supervisor initiated a plant shutdown, halting tailings discharge. The Electrical Supervisor conducted an on-site inspection to ensure the cessation of further tailings deposition from the booster station. A contractor has been engaged to reconfigure the technical and administrative controls governing the booster station's operation. reconfiguration will implement a one-hour delay on the activation of the automatic dump valves following the detection of a pump changeover fault. This delay will provide adequate time for fault resolution, thereby minimising the risk of recurrence.</p> <p>Tailings were removed and recovered from the impacted area, with disposal of the recovered material into the Tuckabianna West In-Pit Tailings Storage Facility.</p> <p>Enhanced bunding, including overflow containment bunds, was constructed around the booster station to contain potential future spills and prevent environmental contamination.</p>	
Was this non-compliance previously reported to DWER?	
<input type="checkbox"/> Yes, and	
<input type="checkbox"/> Reported to DWER verbally	Date: / /
<input checked="" type="checkbox"/> Reported to DWER in writing	Date: 03/04/2025

Section E – Details of non-compliance with licence condition

Condition no:	19. Table 11	Date(s) of non-compliance:	12/10/2025
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Details of non-compliance:

Uncontrolled discharge from a hose failure at the Tuckabianna Processing Plant. Whilst the exact volume of discharged material is undetermined, it is estimated that approximately 2,000 litres of tailings were released across an area of approximately 5,000 square metres.

What was the actual (or suspected) environmental impact of the non-compliance?

NOTE – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.

No tailings entered or impacted surrounding native vegetation.



Cause (or suspected cause) of non-compliance:	
<p>At approximately 10:10 AM on 12 October 2025, the Tuckabianna Power Station experienced an unplanned outage, resulting in a temporary loss of power to the processing plant. Power was successfully restored at approximately 10:22 AM, allowing personnel to commence preparations for the resumption of production activities.</p> <p>During the restart sequence, a failure occurred in the hose connected from Tails Pump 10 to the main tailings line. This failure resulted in tailings and slurry being discharged under pressure, spraying material into the surrounding mining area.</p>	
Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:	
<p>The incident was promptly identified, and immediate remedial actions were initiated on the same day.</p> <p>Operations at the processing facility were immediately suspended to prevent any further deposition of tailings. The failed hose was promptly replaced, and the affected area was secured to restrict access. Remediation activities were undertaken to contain and clean up the spill in accordance with site protocols. An internal investigation was completed to determine the root cause of the failure and to identify appropriate corrective and preventative measures to mitigate the risk of recurrence.</p> <p>To mitigate the risk of similar incidents, all tailings delivery hoses and associated fittings will undergo thorough inspection for signs of wear or damage. Any components identified as compromised will be replaced.</p> <p>Additionally, the procedure for restarting tailings pumps following a power outage was reviewed and revised as necessary to enhance operational reliability and prevent recurrence. The impacted area was scraped and recovery of spilled tailings, with the recovered material was appropriately disposed of at the Tuckabianna Tailings Storage Facility 2 in accordance with site environmental management procedures.</p>	
Was this non-compliance previously reported to DWER?	
<input type="checkbox"/> Yes, and	
<input type="checkbox"/> Reported to DWER verbally	Date: / /
<input checked="" type="checkbox"/> Reported to DWER in writing	Date: 13/10/2025

Section E – Details of Non-Compliance with Licence Condition

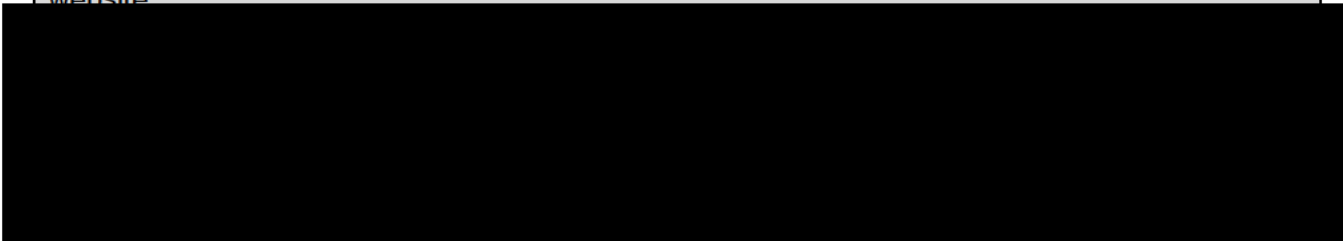
Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period.

Condition no:	13 Table 7	Date(s) of non-compliance:	Click here to enter text.
Details of non-compliance:			
<p>The standing water level (SWL) measurements for 19/12/2025 at JMB001, JMB002, and JMB006 were not recorded due to equipment issues. These issues have since been resolved, and SWL monitoring will continue moving forward.</p> <p>Additionally, SWL measurements for Caustons Pit, Friars Pit, Jaffas Folly Pit, and Tuckabianna West Pit were not undertaken during Q3 2025.</p>			
What was the actual (or suspected) environmental impact of the non-compliance?			
<p>NOTE – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.</p>			

There was no environmental impact; the only consequence was the absence of data.	
Cause (or suspected cause) of non-compliance:	
Missing SWL data for bores due to equipment issues, and missing SWL data for pits due to monitoring not being undertaken.	
Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:	
Actions to mitigate any potential impacts of the non-compliance and prevent recurrence will include repairing and maintaining monitoring equipment, implementing routine equipment checks prior to scheduled measurements, and ensuring backup equipment is available if needed. Additionally, monitoring schedules will be reviewed and reinforced, and personnel will be reminded of data collection requirements to ensure all future SWL measurements are completed as planned.	
Was this non-compliance previously reported to DWER?	
<input checked="" type="checkbox"/> Yes, and	
<input type="checkbox"/> Reported to DWER verbally	Date: / /
<input checked="" type="checkbox"/> Reported to DWER in writing	Date: DWER AER

Section F – Declaration

I/We declare that the information in this Annual Audit Compliance Report is true and correct and is not false or misleading in a material particular¹. I/We consent to the Annual Audit Compliance Report being published on the Department of Water and Environmental Regulation's (DWER) website.



Date:	31 March 2026	Date:	
Seal (if signing under seal):			

¹ It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular.

² AACRs can only be signed by the licence holder or an authorised person with the legal authority to sign on behalf of the licence holder.