



MULTICOM
RESOURCES

SAINT ELMO PROJECT

RECEIVING ENVIRONMENT MONITORING PROGRAM REPORT

1 January 2025– 31 December 2025

Reference: SEP-RPT-EV-00026

Date	Description	Originator	Reviewer	Approver
30/01/2026	Version 1	K. Evans	N. Higgins	A.Napier

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EXECUTIVE SUMMARY

The Saint Elmo Vanadium Project (the Project), operated by Multicom Resources (Multicom), is located within the Flinders River Catchment, east of Julia Creek, Queensland. The Project is located across four Mining Leases (ML) ML100162, ML100244, ML100245 and ML100246.

A Receiving Environment Monitoring Program (REMP) design document was developed within six months of the EA becoming effective (03/02/2023) in accordance with Condition E11 of the Project's Environmental Authority (EA) P-EA-100119386. The REMP design document outlines methods to identify potential adverse impacts to the receiving environment as a result of the activities undertaken as part of the Project, and to monitor any changes in water and sediment quality observed in the receiving environment.

In accordance with Condition E13 of the EA, the report outlining the results of the REMP has been developed for the annual period 1 January 2025, to 31 December 2025.

<

1 INTRODUCTION

Multicom Resources is dedicated to maintaining high environmental standards, particularly in surface water quality management. As part of the Receiving Environment Monitoring Management Program (REMP), this report is designed to assess our compliance with the conditions specified in Schedule E of our Environmental Authority (EA) P-EA-100119386 and to provide a comprehensive overview of our surface water monitoring efforts in 2025. Multicom Resources is committed to ensuring that the release of contaminants to the receiving environment does not cause environmental harm unless authorised by the EA.

It is important to note that the majority of environmental data collected during this reporting period is representative of background environmental levels, as mining activities did not occur until November 2025. This ensures that our findings reflect natural conditions without the influence of mining operations.

The Receiving Environment Monitoring Program Report includes detailed data analysis on surface water and sediment quality parameters, an evaluation of monitoring results, plus a summary of exceedances or missed sampling events, causing deviations from regulatory standards. By systematically analysing this information, we aim to ensure that our operations not only comply with regulatory requirements but also contribute positively to the environment.

1.1 LOCATION

The Saint Elmo Vanadium Project (the Project) is located within the Flinders Rover Catchment, east of Julia Creek, Queensland. The Saint Elmo mine is located on rural, agricultural land. The predominant existing land use within the mine site and surrounding area is cattle grazing with several homesteads interspersed on the surrounding properties. The Project is located across four Mining Leases (ML) ML100162, ML100244, ML100245 and ML100246.

Immediately to the south of the mining boundary is the Flinders Highway. The Offsite Water Storage Facility (OWSF) and associated infrastructure are located near the Flinders River north-east of the mine, although the OWSF and infrastructure is yet to be constructed and is planned for Calendar Year (CY)2026/CY2027. The pipeline from the OWSF to the Mine Infrastructure Area (MIA) on Saint Elmo Station will be located along Punchbowl Road. The township of Julia Creek is located approximately 15 kilometres from the western boundary of the mining lease.

1.2 CURRENT REPORTING PERIOD

This report presents the surface and sediment quality data for the period of:

- 1 January 2025 – 31 December 2025

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It should be noted that there was no mining activity until November 2025 and the mining activity that did occur consisted only of ground clearance. No ore nor waste excavation occurred and no waste rock dumps have been constructed to date.

1.3 BACKGROUND

The Receiving Environment Monitoring Program (REMP) design document was developed within six months of the EA becoming effective (03/02/2023) in accordance with Condition E11 of the Project's Environmental Authority (EA) P-EA-100119386. The REMP design document outlines methods to identify potential adverse impacts to the receiving environment as a result of the activities undertaken as part of the Project, and to monitor any changes in water and sediment quality observed in the receiving environment.

1.4 STANDARDS, POLICIES & PROCEDURES

All sampling, analysis, and reporting of surface and sediment quality conditions have been carried out in compliance with legislative requirements and applicable Australian Standards or their equivalents. The standards applied are as follows:

- AS/NZS 5667.1:1998 (Water quality – Sampling – Guidance on the design of sampling programs, sampling techniques and preservation and handling of samples)
- Environmental Protection (Water & Wetland Biodiversity) Policy 2019
- Australia & New Zealand Guidelines for fresh & Marine Water Quality (2018)
- Monitoring and Sampling Manual – Environmental Protection (Water) Policy 2018

1.5 ENVIRONMENTAL AUTHORITY CONDITIONS

In accordance with Condition E13 of the Saint Elmo Mine Environmental Authority (EA), a report outlining the results of the REMP implementation is to be prepared annually. This report covers the period of January 2025 to December 2025.

Table 1 details the requirements of Conditions E11 to E14 of the EA with reference to the REMP and where each condition is addressed in the report.

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Table 1 - EA Conditions

Condition	Reference / Report Section
Condition E11	
The holder of this environmental authority must develop, document and implement a Receiving Environment Monitoring Program to monitor, identify and describe any adverse impacts to surface water environmental values, quality and flows, within 6 months of the effective date of this environmental authority.	REMP Design Document (Multicom, 2022)
Condition E12	
The Receiving Environment Monitoring Program must include at a minimum: (a) The surface water quality and sediment monitoring locations, the monitoring frequency (before and after the activity starts) and the indicators to be monitored in accordance with Table E2 – Surface water quality objectives and Table E3 – Sediment quality objectives	Section 2
(b) Encompassing the waters of Flinders River and Julia Creek catchment and connected or surrounding waterways within 10 km downstream of the mining activities, and where possible in tributaries on site	Section 2
(c) Identification of all environmental values of receiving waters	Section 1
(d) An assessment of background reference water quality, the condition of downstream water quality compared against water quality objective in accordance with Table E2 – Surface water quality objectives	Section 3 & 4
(e) An aquatic ecosystem health and aquatic flora and fauna assessment within and immediately surrounding the project area that assesses potential impacts to the aquatic ecosystem and proposed appropriate mitigation measures	REMP Design Document (Multicom, 2022)
(f) The aquatic ecology monitoring locations and frequency	REMP Design Document (Multicom, 2022)
(g) Measure any adverse impacts on flora and fauna species richness and species abundance	REMP Design Document (Multicom, 2022)
Condition E13	
A Receiving Environment Monitoring Program report, including all monitoring results and any interpretations or assumptions relied upon, must be prepared by an appropriately qualified person annually and submitted to the Administering Authority annually.	Section 1 to Section 5
Condition E14	
The following information must be recorded in relation to all surface water, sediment and biological monitoring required under the conditions of this environmental authority and submitted to the administering authority in the specified format with each annual return or upon request from the administering authority: (a) The date on which the sample was taken; and (b) The time at which the sample was taken; and (c) The monitoring point at which the sample was taken; and (d) The observed flow rate of the stream at which the sample was taken; and (e) The results of all monitoring and details of any exceedances of the conditions of this environmental authority.	Appendix A & Appendix B

1.6 STUDY AREA

The Project is located within the Flinders River Catchment which is a sub-basin of the greater Gulf Rivers Catchment. The Flinders River Catchment has a total catchment area of approximately 109,000 km² with the main rivers being the Flinders, Cloncurry, and Saxby Rivers, which drain towards the Gulf of Carpentaria to the North (Engeny 2020).

There are no major waterways that traverse or intersect with the Project area mine site (ML100162). There are three minor tributaries that traverse the southern extent of ML100162 and report to Julia Creek. Only one of these tributaries is named (Horse Creek).

A Watercourse Determination was requested to confirm that the minor tributaries within ML100162 are drainage features under the Water Act 2000 (Water Act). In April 2021 the Department of Regional Development, Manufacturing and Water (DRDMW) determined that the features are drainage features, not watercourses, as defined under the Water Act. In accordance with the definitions of the Water Act, water

1.7 ENVIRONMENTAL VALUES

Environmental values for the study area have been defined in the REMP. The watercourses within the study are considered to be 'slightly to moderately disturbed' in accordance with ANZG (2018) guidelines.

There are currently no documented environmental values for the Project catchment under the Environmental Protection (Water and Wetland Biodiversity) Policy 2019 (EPP (water)). The environmental values adopted from Engeny (2020) for inclusion within the REMP include:

- Aquatic ecosystems – areas surrounding the Project site are considered to be 'slightly to moderately disturbed'
- Agriculture – agriculture (cattle grazing) is considered a relevant environmental value for the Project
- Recreational uses – waterholes are known to exist between flood events without surface or groundwater inflow. Primary and secondary recreational uses are identified on the Flinders River
- Aesthetic, cultural and spiritual values – areas of the surrounding waterways are known to have recreational uses, it is considered possible that these waterways provide aesthetic quality or visual recreation use. It is also possible that the waterways provide cultural and spiritual value

1.8 MINE AFFECTED WATER DISCHARGE

The first pre-clearance survey was undertaken in November 2025 within the mine pit and along the haul road at the southern edge of the mining lease (**Figure 1**). Initial clearing for mining purposes occurred in late November 2025 and was limited to the removal of approximately 4–6 inches of topsoil from the mine pit area. No further disturbance activities occurred following this initial clearing and no mine-affected water discharges have occurred. As a result, the likelihood of the activity to resulting in lower surface and sediment quality is not expected.

2 METHODOLOGY

2.1 MONITORING SITES

The current surface water quality monitoring device used is a YSI (Water Quality Meter) and the receiving environment monitoring locations are identified in **Table 2** and **Figure 2**.

There are two types of monitoring sites referred to in the REMP. Monitoring sites for water and sediment quality have been defined below:

- **Reference site:** a monitoring site located upstream of the influence of mining activities that provides a suitable baseline of benchmark for comparison with compliance sites. A reference site may be subject to minimal disturbance from dry land grazing, but is not influenced by major extractive industries, urban or point source discharges (DEHP 2013).
- **Compliance site:** a monitoring site located downstream of and potentially influenced by mining activities.

Table

2.2 WATER AND SEDIMENT QUALITY SAMPLING

2.2.1 WATER QUALITY

Surface water sampling was undertaken on a monthly basis in accordance with the EA. All sampling was undertaken in accordance with current guidance including the Monitoring and Sampling Manual (DES 2018).

In-situ water quality parameters were collected at each location using a calibrated portable water quality meter.(YSI Professional Plus (Pro Plus)). Field parameters collected included temperature, dissolved oxygen, electrical conductivity, total dissolved solids, salinity, pH turbidity. Field parameters were recorded on standardised field sheets, along with any visual observation made at the time of sampling (clarity, colour, flow, hydrocarbon sheen, etc.).

Samples were collected at each location using a telescopic pole with a fit-for-purpose sample bottle attached to the end. Samples were collected from the centre of the water body where possible, or no less than one metre from the edge of the water body. Samples were collected from within the water column at a depth of no less than 3

Flow

Observed flow rate was recorded at each sample point at the time of sample collection. Observations were visual only with an estimation of flow rates recorded using qualitative terms such as 'standing water', 'no flow', 'very low flow' 'low flow', 'medium flow' and 'high flow'.

2.2.2 SEDIMENT QUALITY

Sediment samples were collected twice per year, once at the end of the wet season and once at the end of the dry season (April & October), in accordance with the EA. Sampling was undertaken in line with current guidance including the Monitoring and Sampling Manual (DES 2018).

Sediment samples were collected from sediments contained within the water channel at the nominated sample locations using a clean trowel or shovel. Samples were collected from a minimum of 100 mm below surface from the centre of the returned material by hand, ensuring a clean nitrile glove was worn for each location. Samples were placed directly into laboratory prepared sample containers.

A duplicate sediment sample was collected from one location each event and was labelled with a non-identifiable sample number for QA/QC purposes.

All sample containers were clearly labelled with unique identification numbers consisting of the date, sample location and sampler's initials. All samples were kept in an ice-filled cooler box (esky) prior to dispatch and during transport to a National Association of Testing Authorities (NATA) accredited laboratory under chain-of-custody procedures

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Table 3 - Surface Water Quality Objectives and Compliance Limit (EA)

Quality Characteristics ¹	Unit	Water Quality Objective	Compliance Limit	Monitoring Frequency	
pH	pH units	-	6 – 8 ₃	Monthly	
Electrical conductivity	µS/cm	6074	13,006		
Sulfate	mg/L	464	2505		
Aluminium	mg/L	0.064	0.25		
Arsenic	mg/L	0.012	0.16		
Barium	mg/L	0.0574	25		
Boron	mg/L	0.372	45		
Cadmium	mg/L	0.00022	0.0025		
Chromium	mg/L	0.0012	0.055		
Cobalt	mg/L	0.00142	0.056		
Copper	mg/L	0.0044	25		
Iron	mg/L	0.26	0.32		
Lead	mg/L	0.00342	0.015		
Manganese	mg/L	0.26	1.92		
Mercury (inorganic)	mg/L	0.00062	0.0015		
Molybdenum	mg/L	0.0342	0.055		
Nickel	mg/L	0.0112	0.025		
Selenium	mg/L	0.0112	0.026		
Uranium	mg/L	0.0024	0.0175		
Vanadium	mg/L	0.024	0.16		
Zinc	mg/L	0.0082	35		
Hydrocarbons	mg/L	No visible film			
Major cations and anions	mg/L	For interpretive purposes			
Stream observations	m ³ /s	For interpretive purposes			

Notes:

¹ All metals and metalloids must be measured as 'dissolved' and 'total'

² ANZG (2018) trigger levels for 95% aquatic ecosystem protection for slightly to moderately disturbed ecosystems. Measured as 'dissolved'

³ ANZECC (2000) Table 3.3.5 for lowland rivers

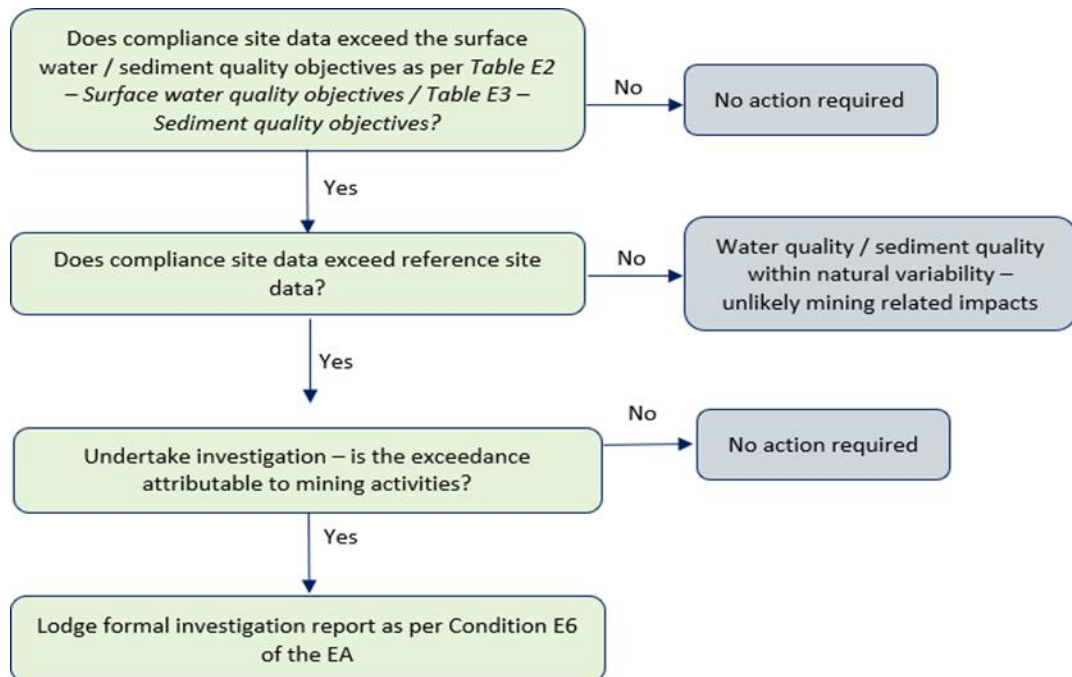
⁴ 80th percentile surface water data. Measured as 'dissolved'

⁵ Australian Drinking Water Guidelines Paper 6 National Water Quality Management Strategy (2011) version 3.6. measured as 'total'

⁶ ANZECC (2000) volume 3, chapter 9 water quality for irrigation and general use long term trigger. Measured as 'dissolved'

Table 4 - Sediment Quality Objectives (EA)

Quality Characteristic	Unit	Sediment Quality Objective	Monitoring Frequency
<i>Arsenic</i>	mg/kg dry weight	20	Twice a year (post-wet season and post-dry season)
<i>Cadmium</i>	mg/kg dry weight	1.5	
<i>Chromium</i>	mg/kg dry weight	80	
<i>Copper</i>	mg/kg dry weight	65	
<i>Lead</i>	mg/kg dry weight	50	
<i>Mercury (inorganic)</i>	mg/kg dry weight	0.15	
<i>Nickel</i>	mg/kg dry weight	21	
<i>Zinc</i>	mg/kg dry weight	200	
<i>Total petroleum hydrocarbons (TPHs)</i>	mg/kg dry weight	280	



2.2.4 QUALITY ASSURANCE AND QUALITY CONTROL

Duplicate samples were collected during both water and sediment sampling to determine the level of variation in the analysis of samples taken from the same location. For both water and sediment quality monitoring, duplicate samples were collected at a rate of 1 per 20 primary samples or one per event.

The relative percentage difference (RPD) was calculated for each parameter to compare the results of duplicate samples.

If values are less than 10 times the limit of reporting (LOR), there is no RPD limit. Values between 10 and 20 times the LOR were compared to an acceptable RPD range of 0-50%. Values 20+ times the LOR were compared to an acceptable RPD range of 0-20%.

3 RESULTS

3.1 RAINFALL

For the purposes of this report, rainfall data has

3.2 WATER QUALITY

3.2.1 FIELD DATA

Field parameters were collected in-situ at the time of surface water sampling using a calibrated handheld water quality meter. Field data collected during each monitoring event including observations at the time of sampling are presented in **Appendix A**. Median values for each field parameter across the reporting period are presented in **Table 6**.

Table 6 - 2025 Average In-situ Field Parameters

Monitoring Site	Temperature	Dissolved Oxygen		Electrical Conductivity	Total Dissolved Solids	Salinity	pH	Turbidity
	°C	% sat						

Table 7 - Compliance Sites in Exceedance of Water Quality Objectives and Reference Site Data

Analyte	Sample Date	Concentration	Water Quality Objective (mg/L)
<i>Flinders River DS</i>			
Zinc Dissolved	10/03/2025	0.01	0.01
Zinc Dissolved	04/06/2025	0.02	0.01
Zinc Dissolved	7/07/2025	0.02	0.01
<i>Horse Creek DS</i>			
Sulphate	11/03/2025	58	46.00
Vanadium Dissolved	11/03/2025	0.03	0.02
Zinc Dissolved	11/03/2025	0.026	0.01
Barium Dissolved	7/07/2025	0.06	0.06
Copper Dissolved	13/08/2025	0.01	0.00
Sulphate	13/08/2025	223	46.00
<i>Julia Creek DS</i>			
Vanadium Dissolved	10/03/2025	0.03	0.02
Zinc Dissolved	04/06/2025	0.017	0.01
<i>Pigeon Creek DS</i>			
Copper Dissolved	07/05/2025	0.01	0.00
Zinc Dissolved	04/06/2025	0.019	0.01
Copper Dissolved	7/07/2025	0.005	0.00
Zinc Dissolved	7/07/2025	0.01	0.01
Copper Dissolved	13/08/2025	0.008	0.00
<i>Tributary of Flinders river DS</i>			
Barium Dissolved	11/03/2025	0.078	0.06
Vanadium Dissolved	11/03/2025	0.03	0.02
Barium Dissolved	24/04/2025	0.106	0.06
Barium Dissolved	08/05/2025	0.082	0.06
Sulphate	08/05/2025	53	46.00
Sulphate	03/06/2025	136	46.00

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Table 8 - Compliance Sites in Exceedance of Compliance Limits & Reference Site Data

Analyte	Sample Date	Concentration	Compliance Limit (mg/L)
<i>Flinders River DS</i>			
Aluminium Total	23/04/2025	6.11	0.2
Iron Total	23/04/2025	5.69	0.3
<i>Horse Creek DS</i>			
Aluminium Total	24/04/2025	5.16	0.2
Iron Total	24/04/2025	3.37	0.3
Aluminium Total	22/10/2025	7.88	0.2
<i>Julia Creek DS</i>			
Aluminium Total	23/04/2025	6.15	0.2
Iron Total	23/04/2025	4.1	0.3
<i>Tributary of Flinders river DS</i>			
Aluminium Total	11/03/2025	22.7	0.2
Iron Total	11/03/2025	16.3	0.3
Aluminium Total	24/04/2025	11.5	0.2
Iron Total	24/04/2025	8.68	0.3
Aluminium Total	08/05/2025	37.1	0.2
Iron Total	08/05/2025	26.8	0.3
Lead Total	08/05/2025	0.018	0.01
Nickel Total	08/05/2025	0.021	0.02
Aluminium Total	03/06/2025	15.9	0.2
Iron Total	03/06/2025	11.3	0.3

Note that **Table 8** only includes exceedances of compliance limits which also exceeded reference site data - this is discussed further in Section 4.

3.3 SEDIMENT QUALITY

Sediment quality data for each monitoring site has been tabulated and provided in **Data Table T 2 – Sediment Quality Results**. Data was compared to the sediment quality objectives outlined in the EA (**Table 4**), with exceedances highlighted. Compliance sites which exceeded the sediment quality objectives were compared to the appropriate reference sites to determine whether exceedances were a result of natural variability. Compliance site data which exceeded both the sediment quality objectives and reference site data has been summarised in **Table 9**.

Field observations collected during each sediment monitoring round, including observations of sediment characteristics are included in **Appendix B**.

Table 9 - Compliance Sites in Exceedance of Sediment Quality Objectives and Reference Site Data

Analyte	Sample Date	Concentration (mg/kg dry weight)	Sediment Quality Objective (mg/kg dry weight)</
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showed greater than expected variation between the primary and duplicate (secondary) sample particularly in the physico-chemical parameters.

4 DISCUSSION

4.1 WATER QUALITY

To assess potential impacts to surface water quality caused by mining operations, the process outlined in Condition E6 of the EA was followed. This process, illustrated in **Figure 2**, can be summarised as follows:

- Downstream compliance site data was compared to the water quality and sediment quality objectives outlined in Table 3 and Table 4 respectively.
- If there were exceedances of the water quality and/or sediment quality objectives, the data was compared to reference site data. If the compliance site data exceeded the reference site data, then further investigation as to whether the exceedance is attributable to the mining activities undertaken.

Following the above process, the water quality results show exceedances of four dissolved metals (barium, copper, vanadium, zinc), four total metals (aluminium, iron, lead, nickel,) and two physico-chemical parameters (pH, sulphate).

Further investigation

- Total metals – exceedances total metals were reported at all compliance sites at varying times throughout the reporting period apart from Pigeon Creek DS that recorded no exceedances throughout 2025. Most exceedances were reported during periods of no flow, except for exceedances reported during the April 2025 monitoring event which followed a period of heavy rainfall during which high flow was reported in the Flinders River DS and very low flow reported in Julia Creek Downstream. Several exceedances of total metals were also reported at upstream reference sites throughout the reporting period, indicating natural variability within the Flinders River and Julia Creek systems. Exceedances of total metals are likely to be the result of particulate metals bound to suspended sediment loads and pose a low risk to environmental values.

Compliance limits

As per Condition E7 of the EA, compliance limits are hard limits that should not be exceeded. However, as shown in **Table 7**, some of the compliance limits for surface water may not be appropriate. These include total aluminium (0.2 mg/L), pH (6.0–8.0), total iron (0.3mg/L) where monitoring data shows that most of the data collected during the reporting period exceeded the compliance limits for these parameters. These exceedances

6 CONCLUSIONS

Analysis of data collected during the 2025 reporting period indicated that there were a number of exceedances of surface water quality EA criteria, in particular metals including barium, copper, vanadium, zinc, iron, aluminium, lead, nickel and physico-chemical parameters including sulphate and pH. Exceedances were typically reported during periods of no flow when monitoring sites comprised remnant, disconnected pools. Furthermore, mining had not yet commenced, and no mine-affected water discharges have occurred. Therefore, the exceedances are unlikely to be mining related and do not pose a risk to environmental receptors and human uses.

Analysis of sediment quality data against sediment quality EA criteria identified an exceedance of arsenic, cadmium, copper, nickel and zinc during the 2025 post wet sampling event. The concentrations are unlikely to be mining related and are considered to pose a low risk to environmental values.

Mining activities commenced late November 2025, this activity was minimal and consisted of topsoil vegetation clearing on the Southern edge of the mining lease. No releases of mine-affected water were reported, exceedances recorded during this reporting period are not attributable to mining activities. Due to mining activities now commencing, although only minor activities, water quality will be closely

7 ACRONYMS

- AC Alick Creek
- ANZG Australia New Zealand Guidelines
- DS Downstream
- EA Environmental Authority
- FR Flinders River
- HC Horse Creek
- JC Julia Creek
- LOR Limit of Reporting
- ML Mining Lease
- NATA National Association of Testing Authorities
- PC Pigeon Creek
- QA/QC Quality Assurance and Quality Control
- REMP Receiving Environment Monitoring Program
- RPD Relative Percentage Difference
- SC Spellary Creek
- US Upstream

Data Table 1 - Surface Water Quality Results

Surface Water Laboratory Results			Aluminium Dissolved	Aluminium Total	Arsenic Dissolved	Arsenic Total	Barium Dissolved	Barium Total
Unit			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LOR			0.01	0.01	0.001	0.001	0.001	0.001
Table E2 - Surface water quality objectives - Water Quality Objectives			0.06		0.01		0.57	

Surface Water Laboratory Results			Bicarb. Alka. as CaCO3	Boron Dissolved	Boron Total	Cadmium Dissolved	Cadmium Total	Calcium	Carb. Alka. as CaCO3
Unit			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LOR			1	0.05	0.05	0.0001	0.0001	1	1
Table E2 - Surface water quality objectives - Water Quality Objectives				0.37		0.0002			
Table E2 - Surface water quality objectives - Compliance Limits									

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Surface Water Laboratory Results			Chloride	Chromium Dissolved	Chromium Total	Cobalt Dissolved	Cobalt Total	Copper Dissolved	Copper Total	Electrical Conductivity
Unit			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	uS/cm
LOR			1	0.001	0.001	0.001	0.001	0.001	0.001	1
Table E2 - Surface water quality objectives - Water Quality Objectives				0.001		0.0014		0.004		607

Surface Water Laboratory Results			Fluoride Total	Hydroxide Alka. as CaCO3	Ionic Balance	Iron Dissolved	Iron Total	Lead Dissolved	Lead Total	Magnesium
Unit			mg/L	mg/L	%	mg/L	mg/L	mg/L	mg/L	mg/L
LOR			0.1	1	0.01	0.05	0.05	0.001	0.001	1
Table E2 - Surface water quality objectives - Water Quality Objectives						0.2		0.0034		
Table E2 - Surface water quality objectives										

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Surface Water Laboratory Results			Manganese Dissolved	Manganese Total	Mercury Inorg. Dissolved	Mercury Inorg. Total	Molybdenum Dissolved	Molybdenum Total
Unit			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LOR			0.001	0.001	0.0001	0.0001	0.001	0.001
Table E2 - Surface water quality objectives - Water Quality Objectives			0.2		0.0006		0.034	
Table E2 - Surface water quality objectives - Compliance Limits			1.9					

Surface Water Laboratory Results			Nickel Dissolved	Nickel Total	pH	Potassium	Selenium Dissolved	Selenium Total	Sodium	Sulphate	Sum of Anions
Unit			mg/L	mg/L	Unit	mg/L	mg/L	mg/L	mg/L	mg/L	meq/L
LOR			0.001	0.001	0.01	1	0.01	0.01	1	1	0.01
Table E2 - Surface water quality objectives - Water Quality Objectives			0.011				0.011		</		

Surface Water Laboratory Results			Sum of Cations	Uranium Dissolved	Uranium Total	Vanadium Dissolved	Vanadium Total	Zinc Dissolved	Zinc Total
Unit			meq/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LOR			0.01	0.001	0.001	0.01	0.01	0.005	0.005
Table E2 - Surface water quality objectives - Water Quality Objectives				0.002		0.02		0.008	
Table E									

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Surface Water Laboratory Results			Aluminium Dissolved	Aluminium Total	Arsenic Dissolved	Arsenic Total	Barium Dissolved	Barium Total	Bicarb. Alka. as CaCO3
Unit			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LOR			0.01	0.01	0.001	0.001	0.001	0.001	1
Table E2 - Surface water quality objectives - Water Quality Objectives			0.06		0.01		0.57		
Table E2 - Surface water quality objectives - Compliance Limits									

Surface Water Laboratory Results			Boron Dissolved	Boron Total	Cadmium Dissolved	Cadmium Total	Calcium	Carb. Alka. as CaCO3	Chloride
Unit			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LOR			0.05	0.05	0.0001	0.0001	1	1	1
Table E2 - Surface water quality objectives - Water Quality Objectives			0.37		0.0002				
Table E2 - Surface water quality objectives - Compliance Limits									

Surface Water Laboratory Results			Chromium Dissolved	Chromium Total	Cobalt Dissolved	Cobalt Total	Copper Dissolved	Copper Total	Electrical Conductivity
Unit			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	uS/cm
LOR			0.001	0.001	0.001	0.001	0.001	0.001	1
Table E2 - Surface water quality objectives - Water Quality Objectives			0.001		0.0014		0.004		607
Table E2 - Surface water quality objectives - Compliance Limits									

Data Table 2 - Sediment Quality Results

Sediment Laboratory Results				>C10 - C16 Fraction	>C10 - C16 Fraction minus Naphthalene (F2)	>C10 - C40 Fraction (sum)	>C16 - C34 Fraction	>C34 - C40 Fraction	1,2-Dichloroethane-D4
Unit				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
LOR				50	50	50	100	100	
Table E3 - Sediment Quality Objectives									

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Sediment Laboratory Results				4-Bromofluorobenzene	Arsenic	Benzene	C10 - C14 Fraction	C10 - C36 Fraction (sum)	C15 - C28 Fraction	C29 - C36 Fraction	C6 - C10 Fraction
Unit				%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					5	0.2	50	50	100	100	10
Table E3 - Sediment Quality Objectives					20						
Sample ID	Location</										

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Sediment Laboratory Results				4-Bromofluorobenzene	Arsenic	Benzene	C10 - C14 Fraction	C10 - C36 Fraction (sum)	C15 - C28 Fraction	C29 - C36 Fraction	C6 - C10 Fraction
Unit				%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					5	0.2	50	50	100	100	10
Table E3 - Sediment Quality Objectives					20						
Sample ID	Location</										

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Sediment Laboratory Results				meta- & para-Xylene	Moisture Content	Naphthalene	Nickel	ortho-Xylene	Sum of BTEX	Toluene	Toluene-D8	Total Xylenes	Zinc
Unit				mg/kg	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	mg/kg	mg/kg
LOR				0.5	0.1	1	2	0.5	0.2	0.5		0.5	
Table E3 - Sediment Quality Objectives							21	</					

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Data Table 4 - Sediment Quality RPD Results

Sediment			Moisture Content	Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
Unit			%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR			0.1	5	1	2	5	5	2	5	0.1

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Sediment Quality RPD Results

			C6 - C9 Fraction	C10 - C14 Fraction	C15 - C28 Fraction	C29 - C36 Fraction	C10 - C36 Fraction (sum)	C6 - C10 Fraction
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		LOR	10	50	100	100	50	10
		10x LOR	100	500	1000	1000	500	100
		20x LOR	200</					

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Sediment Quality RPD Results

			C6 - C10 Fraction minus BTEX (F1)	>C10 - C16 Fraction	>C16 - C34 Fraction	>C34 - C40 Fraction	>C10 - C40 Fraction (sum)
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR			10	50	100	100	50
10x LOR			100	500	1000	1000	500
20x LOR			2				

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Sediment Quality RPD Results

			>C10 - C16 Fraction minus Naphthalene (F2)	Benzene	Toluene	Ethylbenzene	meta- & para-Xylene
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR			50	0.2	0.5	0.5	0.5
10x LOR			500	2	5	5	5

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Sediment Quality RPD Results

			ortho-Xylene	Total Xylene	Sum of BTEX	Naphthalene
Unit			mg/kg	mg/kg	mg/kg	mg/kg
LOR			0.5	0.5	0.2	1
10x LOR			5	5	2	10
20x LOR			10	10		

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8 APPENDIX A – SURFACE WATER FIELD DATA

Sample ID		Time	Date	QA/QC ID	DRY	Field Parameters												Notes
						°C	DO		EC	TDS	Sal							

