Iluka Resources Limited

Audit of 2022 Performance Reports

Douglas Mine Pit 23 by-product disposal site

January 2024

Question today
Imagine tomorrow
Create for the future

Audit of 2022 Performance Reports
Douglas Mine Pit 23 by-product disposal site

Iluka Resources Limited

WSP
Level 11, 567 Collins St
Melbourne VIC 3000

Tel: +61 3 9861 1111
Fax: +61 3 9861 1144
wsp.com

Rev	Date	Details
A	December 2023	Draft
B	January 2024	Final

	Name	date	signature
Prepared by:	Stephen Makin	7 December 2023	
Reviewed by:	Bruce Dawson	15 January 2024	
Approved by:	Bruce Dawson	15 January 2024	

WSP acknowledges that every project we work on takes place on First Peoples lands.
We recognise Aboriginal and Torres Strait Islander Peoples as the first scientists and engineers and pay our respects to Elders past and present.

Table of contents

1 Introduction

WSP Australia Pty Ltd (WSP) was engaged by Iluka Resources Limited (Iluka) to undertake an independent audit of the Performance Reports for the Pit 23 By-products Disposal Facility, located in the municipality of the Horsham Rural City in the Kanagulk area (the site). The independent audit (audit) is a requirement of Planning Permit 15-105 (the planning permit), issued by Horsham Rural City Council (Council). The Performance Reports, prepared by Iluka, provide a summary of the waste acceptance, monitoring and management undertaken at the site during the year ended 31 December 2022. The two Performance Reports prepared by Iluka for 2022 are as follows:

- Environmental Management Plan and Rehabilitation Performance Report (EMP Performance Report) 2022 (Iluka, 2023a); and,
- Incoming Waste Monitoring Plan Performance Report (IWMP Performance Report) 2022 (Iluka, 2023b).

The EMP Performance Report is audited against the reporting requirements listed in Section 12 of Iluka's *Pit 23 Environmental Management Plan* Rev 5.1 (EMP) (Iluka, 2020). Section 13.1.2 of the EMP requires that:

> *"… the selected auditor will be required to audit EMP and Rehabilitation Performance Report to confirm its completeness and accuracy in terms of compliance of the implementation of the plan and compliance with established standards and limits.*
> *In addition to these audit functions the selected auditor will be invited to recommend amendments to the EMP to ensure future compliance."*

Similarly, the IWMP Performance Report requires in Section 5 of Iluka's Pit 23 Incoming Waste Monitoring Plan Rev 5 (IWMP) that:

> *"Reports will be provided to a suitably qualified auditor who will complete an audit of the data provided and compliance with this IWMP"* (Iluka, 2019).

The auditor's reviews of the 2022 Performance reports are provided in Appendix A (IWMP) and Appendix B (EMP & RVMP). The 2022 Performance Reports are provided in Appendix C (IWMP) and Appendix D (EMP & RVMP).

The Performance Reports cover the period from 1 January 2022 to 31 December 2022.

2 Planning Permit Requirements

2.1 Methodology

The Performance Reports were audited against the relevant requirements of Section 5 of the IWMP and Section 12 of the EMP. Additional documentation was sought from Iluka as needed to provide evidence of compliance with relevant sections of the IWMP and EMP.

Due to the limited activities occurring at the site, a site inspection was not conducted as part of the audit. Assessment was therefore limited to desktop review of the Performance Reports and supporting documentation.

The recommendations of the previous Performance Reports (2017-2021) were also considered and a review of Iluka's response to these recommendations is provided in Section 8.

The audit of the IWMP Performance Report, EMP Performance Report and actions undertaken regarding previous audit report recommendations assessed compliance according to:

- 'Compliant'. The information indicated that the relevant requirement of the planning permit or plan had been met.
- 'Not Compliant'. The information indicated that the relevant requirement of the planning permit or plan had not been met.
- 'Not Applicable'. The relevant requirement was not applicable due to the operational status of the plant or the Auditor was unable to determine compliance due to the requirement being outside the scope of the audit.

2.2 Incoming Waste Monitoring Plan

The IWMP has been prepared to satisfy the requirements of Condition 14 of the Planning permit, namely:

> *14. Within 90 days of the commencement of this permit operating, an Incoming Waste Monitoring Plan (IWMP) must be submitted to the satisfaction of the responsible authority and the Department of Health and Human Services for approval by the responsible authority. Three copies of the IWMP must be submitted to the responsible authority. When approved by the responsible authority the IWMP will be endorsed and it will then form part of this permit. The IWMP must provide for:*
> *a. A monitoring and reporting system for ensuring that materials disposed of to Pit 23 are limited to those permitted under the conditions of this permit;*
> *b. Recording of the origin, per load weight and radioactive properties of each incoming load;*
> *c. Monitoring to ensure all vehicles transporting waste have fully secured and contained loads and that all waste loads have been transported in compliance with licensed requirements under the Radiation Act 2005;*
> *d. Records of any transport incidents or spills and remedial actions taken in the event of such incidents; and*
> *e. Annual auditing of records to verify compliance with the requirements of the IWMP.*

This audit has reviewed the IWMP Performance Report against relevant planning permit criteria, and Section 6 of the IWMP.

2.3 Environment Management Plan

The EMP has been prepared by Iluka to provide a framework for the management and monitoring of disposal operations at Pit 23. The EMP outlines:

- The operational, environmental and legal context for the permitted development;

- The operational methods to be used;
- Environmental issues that could compromise environmental performance if not managed appropriately; and,
- The monitoring program to be used for assessing the environmental performance and impact of Pit 23.

This audit has reviewed the EMP Performance Report against relevant planning permit criteria, and Section 12 and 13 of the EMP.

2.4 Rehabilitation and Vegetation Management Plan

The *Rehabilitation and Vegetation Management Plan 2017* (RVMP) has been prepared by Iluka to provide a detailed management framework for rehabilitation of Pit 23. The RVMP outlines:

- The end use and rehabilitation objectives for the subject land;
- The methods to be used for rehabilitation and revegetation;
- Key issues that may compromise rehabilitation outcomes; and,
- Completion criteria and further monitoring post completion.

In relation to the audit of the *Rehabilitation and Vegetation Management Plan 2017,* the relevant planning permit requirements are:

> *42: The permit holder must prepare an EMP and Rehabilitation performance review report covering its compliance requirements under the various sub-components of the EMP and RVMP for provision to a suitably qualified environmental auditor as agreed by the Responsible Authority annually or less frequently as agreed to in writing, by the Responsible Authority.*
> *43: The environmental auditor must review the EMP and Rehabilitation performance review report and provide conclusions on the report's content against its key sub-components, and recommendations for any required amendments to the plans ('auditor's review').*

As of the writing of this audit, Pit 23 was still accepting material and as such, rehabilitation or revegetation has not yet been undertaken by Iluka. There are therefore no findings regarding the RVMP.

3 Environmental Auditor

This audit review was undertaken by Bruce Dawson who is appointed as an Environmental Auditor (Industrial Facilities) under the *Environment Protection Act 2017*.

Bruce has over 35 years' experience in environmental management issues, encompassing industrial planning and assessment, auditing and policy development. Bruce joined Golder Associates Pty Ltd (now WSP) in 2010 as a Principal Environmental Consultant leading the development of performance assurance and industry sustainability services in the Melbourne office.

Bruce has extensive experience in assessing environmental performance and impact and associated strategies for effective management of statutory obligations in waste management, industrial operations, land development and infrastructure development.

Bruce was previously employed with the Environment Protection Authority Victoria (EPA) for 24 years. He was part of EPA's executive leadership team for 8 years, providing a key role in leading operational and policy program areas and lead implementation of EPA's environmental audit program.

Bruce undertakes auditing and assessment of landfill design and construction and risks associated with landfill gas migration. Bruce has extensive experience in development of environmental management plans and environmental policy to reduce environmental impact and compliance risks.

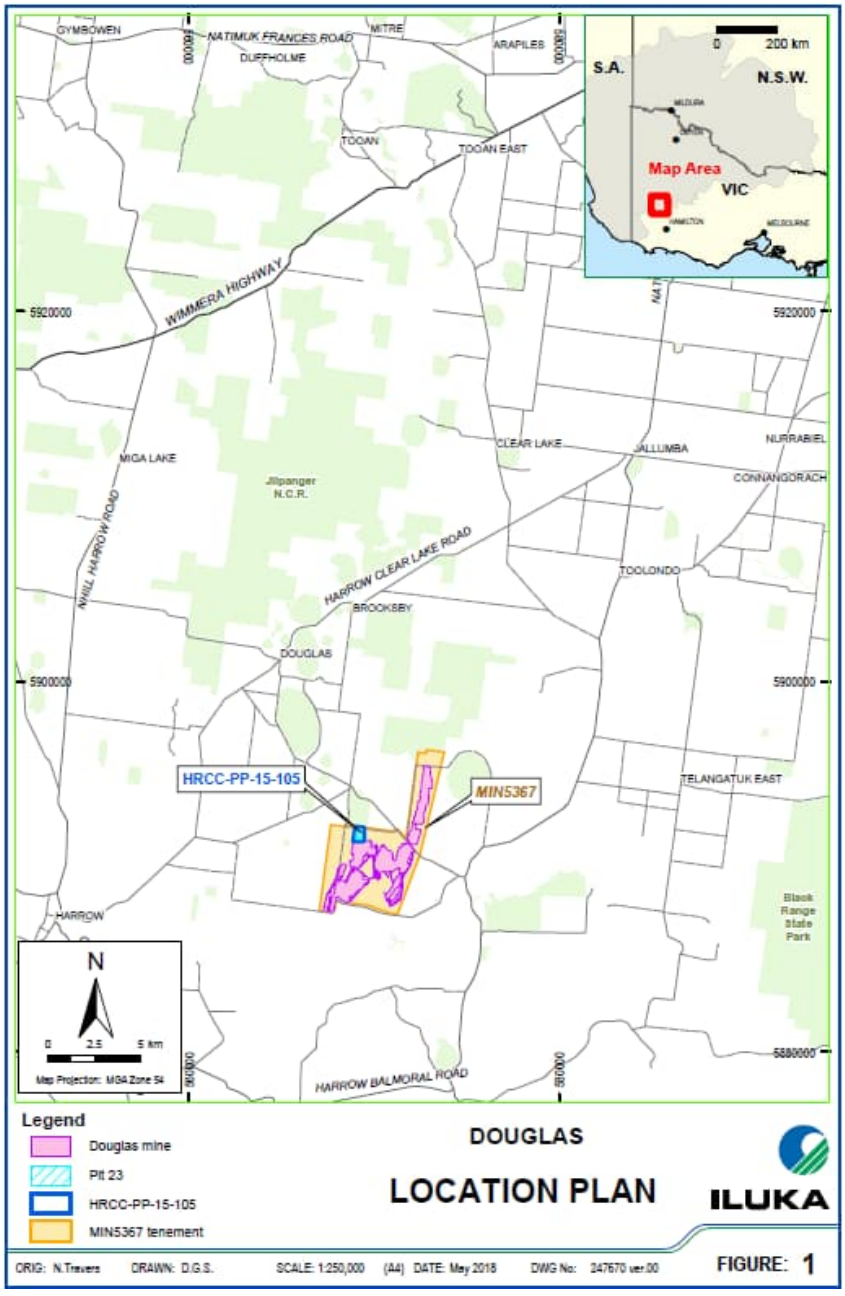
In undertaking this review, Bruce was supported by the following WSP personnel:

- Stephen Makin, Senior Associate Hydrogeologist.

4 Site Location

The Douglas Mineral Sands Mine (shown in Figure 4.1) is located in the municipality of the Horsham Rural City in the Kanagulk area. Iluka produces a number of by-products from its heavy mineral processing operation at its mineral separation plant (MSP) in Hamilton. The by-products produced from this processing are transported by truck from the Hamilton site to the Douglas Mine Site, where it is then disposed of in a mining void known as Pit 23. Pit 23 is shown in Figure 4.1. The IWMP and EMP apply management controls specifically to Pit 23 and its associated operations.

Figure 4.1 Site Location



5 Incoming Waste Monitoring Plan Performance Report

The Auditor's review of the IWMP Performance Report is attached as Appendix A. The review found that the Performance Report is in accordance with Section 6 of the IWMP.

6 Environmental Management Plan and Rehabilitation Performance Report

The Auditor's review of the EMP Performance Report is attached as Appendix B. The review found that the Performance Report is in accordance with Section 12 of the EMP. The Auditor makes the following recommendations:

- The new reported groundwater quality results should be compared to previous background conditions (i.e., calculated without including the new results). If the new results are considered to be consistent with natural background, they can then be included in a revised background for comparison with future results.
- In the event of future exceedances of the PM_{10} air quality limit Iluka should consider including assessment of relevant meteorological data in its assessment of likely contributing sources.

7 Rehabilitation and Vegetation Management Plan

The RVMP reporting requirements are listed in Section 2.4 of this report. Iluka's Performance Report for the RVMP was included in the EMP Performance Report.

Section 2.6 of the EMP Performance Report states that rehabilitation works continue during 2022 with 1,595,000 banked cubic meters of materials from the Tailings Storage Facility (TSF) being deposited into Pit 23.

Section 3 of the EMP Performance Report states that no wastes were disposed into Pit 23 during the 2022 reporting period.

Section 8.3 of the RVMP describes the materials to be used for the rehabilitation of Pit 23 and surrounds. Table 3 describes the material sources to be used in rehabilitation as follows:

- Overburden stockpile 300
- Overburden stockpile 306 (part)
- Subsoil stockpile 273
- Subsoil stockpile 275 (part)
- Subsoil stockpile 278
- Subsoil stockpile 279
- Subsoil stockpile 280
- Subsoil stockpile 281
- Topsoil stockpile 393 (part)
- Topsoil stockpile 396

The RVMP does therefore not identify materials from the TSF as being used for rehabilitation purposes. The suitability of this material for rehabilitation purposes is not evaluated in the RVMP. Iluka has advised the Auditor that analysis of the TSF materials shows metal concentrations below Fill Material criteria in EPA publication 1828.2.

It is therefore recommended that the suitability of TSF material for rehabilitation purposes be evaluated and the RVMP be amended to make specific reference to the use of TSF material for rehabilitation.

8 Other Previous Audit Findings

The audit of 2017 Mineral Sands By-product disposal reports (AECOM, 2017) was the first audit of the IWMP and EMP undertaken. Further audits were undertaken for the period between 2018 -2021 by Golder (Golder, 2018; Golder, 2019; Golder, 2020a; Golder, 2020b; Golder, 2021; Golder 2022a, WSP Golder 2022b). Iluka has responded to recommendations in the previous reporting periods, with the outstanding recommendations provided in Table 8.1.

Table 8.1 Response to previous audit recommendations

Previous Audit Recommendation	Observation	Action Completed in 2022?	Recommendations
General Recommendations			
H2 2021 (WSP Golder, 2022b)	Where sediment is accidentally collected during sampling, another collection should be attempted once the water in at the collection site has settled.	No issues with sediment in samples reported in 2022.	None
H2 2021 (WSP Golder, 2022b)	Addition of rolling medians to the graphs on Figures 7, 9 11, 12, and 13 would allow easier evaluation of trends in future Performance Reporting. The updated rolling medians could be added to the bottom of Table 4, as it has been done for Tables 6, 7 and 8. This would allow easier evaluation of trends and comparison to GWQO.	This recommendation was not implemented in the 2022 Performance Report, however, given the low number of criteria exceedances reported, this was not considered critical for this period.	Consider charting rolling medians with future reporting to visualise trends.
H1 2021 (Golder, 2022a)	Future revisions of the EMP & IWMP should reflect regulatory changes associated with the introduction of the *Environment Protection Act 2017* (the Act) from 1 July 2021. Under the Act, the State Environment Protection Policy (SEPP Waters) was superseded by the Environment Reference Standard (ERS). However, the elements of the SEPP referenced in the EMP have been maintained in the ERS, so the change does not require changes to the monitoring and assessment program, and updates may be made at the next required 3-year interval.	Pending – Actioned for next 3-year EMP/IWMP document review and update.	Update the EMP and IWMP to reflect regulatory changes associated with the introduction of the *Environment Protection Act 2017* (the Act) from 1 July 2021.

9 References

AECOM Audit of 2017 Mineral Sands By-product Disposal Annual Reports.

Golder Associates, 2018. Audit of 2018 Mineral Sands By-product Disposal EMP and IWMP Annual Reports (19121052-001-Rev0).

Golder Associates, 2019. Audit of H1 2019 Mineral Sands By-product Disposal EMP and IWMP Annual Reports (19121052-003-Rev1).

Golder Associates, 2020a. Audit of H2 2019 EMP and IWMP Performance Reports, Douglas Mine Pit 23 by-product disposal site (19121052-006-Rev1).

Golder Associates, 2020b. Audit of H1 2020 EMP and IWMP Performance Reports, Douglas Mine Pit 23 by-product disposal site (19121052-009-Rev0).

Golder Associates, 2020c. Review of Updated EMP and IWMP (19121052-004-L-Rev0).

Golder Associates, 2021. Audit of H2 2020 Performance Reports, Iluka Resources Limited, Douglas Mine Pit 23 by-product disposal site (19121052-011-Rev0).

Golder Associates, 2022a. Review of H1 2021 Performance Reports, Iluka Resources Limited, Douglas Mine Pit 23 by-product disposal site (19121052-013-R-Rev0).

WSP Golder, 2022b. Audit of H2 2021 Performance Reports, Iluka Resources Limited, Douglas Mine Pit 23 by-product disposal site (PS132009-001-R-Rev0).

Iluka Resources Ltd, 2016. Radiation Management Plan- Murray Basin Operations (Rev2) August 2016.

Iluka Resources Ltd, 2017. Rehabilitation and Vegetation Management Plan (Rev3) 12 April 2017.

Iluka Resources Ltd, 2019. Incoming Waste Monitoring Plan (Rev 5). (UDOCS 0058-1414587248-851) 29 October 2019.

Iluka Resources Ltd, 2020. Environment Management Plan (Rev 5.1) (UDOCS 0058-1414587248-1228) 14 August 2020.

Iluka Resources Ltd, 2021a. Planning Permit 15-105, EMP & Rehabilitation Performance Report – H2 2020. (UDOCS 0058-1414587248-1098, Final Rev0).

Iluka Resources Ltd, 2021b. Planning Permit 15-105, Incoming Waste Monitoring Plan Report H2 – 2020 (UDOCS 0090-426461582-2341, Final Rev0).

Iluka Resources Ltd, 2021c. Planning Permit 15-105, EMP & Rehabilitation Performance Report – H1 2021. (UDOCS 0058-1414587248-2780, Final Rev0).

Iluka Resources Ltd, 2021d. Planning Permit 15-105, Incoming Waste Monitoring Plan Report H1 – 2021 (UDOCS 0090-426461582-2769, Final Rev0).

Iluka Resources Ltd, 2021c. Planning Permit 15-105, EMP & Rehabilitation Performance Report – H2 2021. (UDOCS 0090-426461582-2779, Final Rev0).

Iluka Resources Ltd, 2021d. Planning Permit 15-105, Incoming Waste Monitoring Plan Report H2 – 2021 (UDOCS 0090-426461582-2900, Final Rev0).

Iluka Resources Ltd, 2023a. Planning Permit 15-105, EMP & Rehabilitation Performance Report 2022 (UDOCS 0090-426461582-2779, Final Rev v1).

Iluka Resources Ltd, 2023b. Planning Permit 15-105, Incoming Waste Monitoring Plan Report 2022 (UDOCS 0090-426461582-2900, Final Rev1).

Iluka Analytic Sampling Procedures

Analytical - Analysis using XRF 11/6/15.

Analytical - Moisture Determination 10/9/15.

Analytical - Sample Preparation - Fusion of Heavy Mineral 4/12/08.

Analytical - Sample Preparation - Pulverising Grinding Samples 18/10/14.

Analytical - Sample Preparation - Riffle Splitting 23/10/14.

Analytical - XRF QA 23/7/18.

High Volume Air Sampler, Sampling Procedure 26/7/17.

Trucking Procedures

Work Instruction for Loading of Monazite &Ilmenite CL product at Iluka MSP V8 Kalari P/L 28/09/2015.

Emergency Response Procedure for Non Conductor Magnetics V2 Kalari P/L 8/02/2011.

Work Instruction for unloading MSP rejects at Pit 23 V2 Kalari P/L 13/08/2015.

10 Limitations

This Report is provided by WSP Australia Pty Limited (*WSP*) for Iluka Resources Limited (*Client*) in response to specific instructions from the Client and in accordance with WSP's proposal dated 8 August 2023 and agreement with the Client dated 11 August 2023 (*Agreement*).

PERMITTED PURPOSE

This Report is provided by WSP for the purpose described in the Agreement and no responsibility is accepted by WSP for the use of the Report in whole or in part, for any other purpose (*Permitted Purpose*).

QUALIFICATIONS AND ASSUMPTIONS

The services undertaken by WSP in preparing this Report were limited to those specifically detailed in the Report and are subject to the scope, qualifications, assumptions and limitations set out in the Report or otherwise communicated to the Client.

Except as otherwise stated in the Report and to the extent that statements, opinions, facts, conclusion and / or recommendations in the Report (*Conclusions*) are based in whole or in part on information provided by the Client and other parties identified in the report (*Information)*, those Conclusions are based on assumptions by WSP of the reliability, adequacy, accuracy and completeness of the Information and have not been verified. WSP accepts no responsibility for the Information.

WSP has prepared the Report without regard to any special interest of any person other than the Client when undertaking the services described in the Agreement or in preparing the Report.

USE AND RELIANCE

This Report should be read in its entirety and must not be copied, distributed or referred to in part only. The Report must not be reproduced without the written approval of WSP. WSP will not be responsible for interpretations or conclusions drawn by the reader. This Report (or sections of the Report) should not be used as part of a specification for a project or for incorporation into any other document without the prior agreement of WSP.

WSP is not (and will not be) obliged to provide an update of this Report to include any event, circumstance, revised Information or any matter coming to WSP's attention after the date of this Report. Data reported and Conclusions drawn are based solely on information made available to WSP at the time of preparing the Report. The passage of time; unexpected variations in ground conditions; manifestations of latent conditions; or the impact of future events (including (without limitation) changes in policy, legislation, guidelines, scientific knowledge; and changes in interpretation of policy by statutory authorities); may require further investigation or subsequent re-evaluation of the Conclusions.

This Report can only be relied upon for the Permitted Purpose and may not be relied upon for any other purpose. The Report does not purport to recommend or induce a decision to make (or not make) any purchase, disposal, investment, divestment, financial commitment or otherwise. It is the responsibility of the Client to accept (if the Client so chooses) any Conclusions contained within the Report and implement them in an appropriate, suitable and timely manner.

In the absence of express written consent of WSP, no responsibility is accepted by WSP for the use of the Report in whole or in part by any party other than the Client for any purpose whatsoever. Without the express written consent of WSP, any use which a third party makes of this Report or any reliance on (or decisions to be made) based on this Report is at the sole risk of those third parties without recourse to WSP. Third parties should make their own enquiries and obtain independent advice in relation to any matter dealt with or Conclusions expressed in the Report.

DISCLAIMER

No warranty, undertaking or guarantee whether expressed or implied, is made with respect to the data reported or the Conclusions drawn. To the fullest extent permitted at law, WSP, its related bodies corporate and its officers, employees and agents assumes no responsibility and will not be liable to any third party for, or in relation to any losses, damages or expenses (including any indirect, consequential or punitive losses or damages or any amounts for loss of profit, loss of revenue, loss of opportunity to earn profit, loss of production, loss of contract, increased operational costs, loss of business opportunity, site depredation costs, business interruption or economic loss) of any kind whatsoever, suffered on incurred by a third party.

Appendix A

IWMP Performance Report Review

Source & Requirement	Observations (2022)	Compliance	Recommendations
Planning Permit Clause 14. Within 90 days of the commencement of this permit operating, an Incoming Waste Monitoring Plan (IWMP) must be submitted to the satisfaction of the responsible authority and the Department of Health and Human Services for approval by the responsible authority. Three copies of the IWMP must be submitted to the responsible authority. When approved by the responsible authority the IWMP will be endorsed and it will then form part of this permit. The IWMP must provide for:		Compliant	
A monitoring and reporting system for ensuring that materials disposed of to Pit 23 are limited to those permitted under the conditions of this permit.	Section 3.1 of the IWMP Performance Report provides a spreadsheet summary record stating material to be disposed of is permitted. The IWMP Performance Report states that no waste was disposed of in the 2022 reporting period.	Compliant	
Recording the origin, per load weight and radioactive properties of each incoming load.	Section 3.1 of the IWMP Performance Report provides a spreadsheet summary recording the origin and load weight of each material load. Section 3.2 of the IWMP Performance Report provides a summary of the radioactive properties of each material load. During the 2022 reporting period, no waste from the MSP was disposed into Pit 23.	Compliant	

Source & Requirement	Observations (2022)	Compliance	Recommendations
Monitoring to ensure all vehicles transporting waste have fully secured and contained loads and that all waste loads have been transported in compliance with licensed requirements under the Radiation Act 2005.	Work instruction for Loading of Monazite and Ilmenite CL product at the Iluka MSP-Hamilton site identifies that loads are to be secured and contained.	Compliant	
Records of any transport incidents or spills and remedial actions taken in the event of such incidents.	Section 3.3.1 of the IWMP Performance Report states that no transport incidents or spillages occurred over the 2022 period.	Compliant	
Annual auditing of records to verify compliance with the requirements of the IWMP.	This audit fulfils this requirement.	Compliant	
Amendments to the IWMP must be to the satisfaction of the responsible authority and Department of Health and Human Services and must only be made on written approval of the responsible authority.	No amendments were undertaken during the 2022 reporting period.	NA	
IWMP Section 2 Acceptance Criteria			
Source Site. Disposal into Pit 23 is restricted to materials from the following source sites; - the Hamilton MSP; - the Douglas mineral sands mine; - the Kulwin mineral sands mine site (located 28 kilometres east of Ouyen); - the Woornack Rownack and Pirro mineral sands mine site (located 20 km southwest of Ouyen); - Facilities operated by transport contractors associated with the Port of Portland including the heavy mineral concentrate (HMC) storage and train loading facilities at Hopetoun; and	The IWMP Performance Report states that no waste was disposed of in the 2022 reporting period.	Compliant	

Source & Requirement	Observations (2022)	Compliance	Recommendations
- storage facilities in Portland used for storage of the Hamilton MSP products.			
Radioactivity. Disposal to Pit 23 is restricted to materials that contain and are contaminated with naturally occurring radioactive material (NORM), which are: - mineral by-products from the Hamilton MSP, including gypsum produced at the MSP; - used Bag-house dust filter bags (used filter bags); and - concrete or steel from the sites listed in Section 2.1 above.	Section 3.2 of the IWMP Performance Report provides a summary of the radioactive properties of each material load. During the 2022 reporting period, no waste from the MSP was disposed into Pit 23.	Compliant	
By-products for disposal. The Hamilton MSP by-products to disposed into Pit 23 are: - Wet circuit rejects; - Dry circuit rejects; - Gypsum; - Bag hose dust filter bags; - Contaminated concrete and steel.	During the 2022 reporting period, no waste from the MSP was disposed into Pit 23.	NA	
Material Description and physical form. Import for disposal into Pit 23 is restricted to the following materials: - non-liquid waste by-products associated with or sourced though mineral sands processing undertaken at the Hamilton MSP containing or contaminated with NORM; - used dust filter bags from the Hamilton MSP containing or contaminated with NORM; and	During the 2022 reporting period, no waste from the MSP was disposed into Pit 23.	NA	

Source & Requirement	Observations (2022)	Compliance	Recommendations
- NORM-contaminated concrete and steel associated with plant and infrastructure from the sites listed in Section 2.1 above.			
IWMP Section 3. Monitoring			
In accordance with heavy vehicle mass management requirements under Chain of Responsibility legislation administered by the Department of Economic Development, Jobs, Transport and Resources (DEDJTR), the weight of every truck load of material to be disposed of will be measured at the point of loading, or the nearest possible location, prior to transport to the Douglas mine site. The load weight shall be measured by one of the following means; - calibrated weighbridge; - calibrated on-board weighing systems (such as airbag weightometers); - any other mass measurement system or methodology approved by the DEDJTR for demonstrating compliance with heavy vehicle mass management requirement.	Section 3.1 of the IWMP Performance Report lists the load weight of each delivery to Pit23. During the 2022 reporting period, no waste from the MSP was disposed into Pit 23. Iluka has advised that a public commercial calibrated weighbridge is used to weigh material disposed into Pit 23.	Compliant	
For each individual load, the following information shall be recorded in an electronic data management system: - load weight; - material description; - radioactive properties, being concentrations of uranium and thorium in MSP by-products based on the weekly average of the by products produced;	Section 3.1 of the IWMP Performance Report provides information on load weight and material description. Section 3.2 of the IWMP Performance Report provides a summary of the radioactive properties of each material load, which include both thorium and uranium.	Compliant	

Source & Requirement	Observations (2022)	Compliance	Recommendations
- measured concentrations of uranium and thorium in used filter bags, concrete and steel.	During the 2022 reporting period, no waste from the MSP was disposed into Pit 23.		
IWMP Section 4 Control of access for disposal			
Prior to transport of materials to be disposed of in Pit 23, vehicles will be checked: - for compliance with the ARPANSA Code of Practice for Safe Transport of Radioactive Material; and - to confirm and ensure loads are fully secured and contained. Deliveries must enter the site via Elliotts Road and the mine access road shown on the site plan (Figure 2). All vehicles entering the site, including those carrying materials for disposal to Pit 23, must be authorised and must pass through a boom gate that may only be opened with a swipe card issued to authorised personnel or by an authorised Iluka employee at the site office. Each vehicle must then stop at the site office to: - provide a record of the load being delivered (origin, material type, load weight); and - comply with any site-specific requirements that apply for entering the site. Vehicles carrying materials for disposal for which the required information is not provided or is not in conformance with the permitted use will not be allowed to dispose of their loads to Pit 23.	Work instruction for Loading of Monazite and Ilmenite CL product at the Iluka MSP-Hamilton site reviewed. Deliveries were not observed as part of this audit. Figure 2 displays single access point from Elliots Road and truck wash circuit. Load record is provided for each delivery in Section 3.1. During the 2022 reporting period, no waste from the MSP was disposed into Pit 23.	Compliant	

<table>
<tr><th>Source & Requirement</th><th>Observations (2022)</th><th>Compliance</th><th>Recommendations</th></tr>
<tr><td colspan="4">IWMP Section 5 Monitoring Program</td></tr>
<tr><td>In order to confirm the presence of NORM within the MSP by-products, Table 2 in the IWMP specifies the samples collected and quantity measurements made:
Table 2: MSP by-product sampling and quantity measurement
<table>
<tr><th></th><th>Sampling Method</th><th>Quantity</th></tr>
<tr><td colspan="3">Wet Circuits Rejects</td></tr>
<tr><td>FPC Sand Tailing</td><td>Automatic Sampler within plant producing daily composite from frequent cuts</td><td>Continuous flow and density measurement to provide daily solids tonnage</td></tr>
<tr><td>FPC Fines</td><td>Manual sample from thickener underflow collected daily</td><td>Continuous density measurement and volume measurement from positive displacement pump operation to provide daily solids tonnage</td></tr>
<tr><td>ZWC Sand Tailings</td><td>Automatic Sampler within plant producing daily composite from frequent cuts</td><td>Continuous flow and density measurement to provide daily solids tonnage</td></tr>
<tr><td colspan="3">Dry Circuits Rejects</td></tr>
<tr><td>PDC Non-Conductor magnetics</td><td>Automatic Sampler within plant producing daily composite from frequent cuts</td><td>Weightometer integrated to provide daily tonnage.</td></tr>
<tr><td>DCC Magnetics</td><td>Automatic Sampler within plant producing daily composite from frequent cuts</td><td>Weightometer integrated to provide daily tonnage.</td></tr>
<tr><td>Gypsum</td><td>Manual sample from bunker collected daily</td><td>Continuous density measurement and volume measurement from positive displacement pump operation to provide daily solids tonnage</td></tr>
</table>
Under non-routine MSP operations (e.g. maintenance shut-downs and idle periods), sampling and measurement of by-products occurs through representative manual sampling as/when required.</td><td>During the 2022 reporting period, no waste from the MSP was disposed into Pit 23.</td><td>NA</td><td></td></tr>
<tr><td>Bag-house dust filter bags.
Prior to transport, sections of used filter bag cloth of approximately 100 x 100 mm will be cut from at least five used filter bags per consignment and each section submitted for analysis.</td><td>No Bag-house dust filter bags were disposed to Pit 23 during the reporting period.</td><td>NA</td><td></td></tr>
</table>

Source & Requirement	Observations (2022)	Compliance	Recommendations
NORM contaminated concrete and steel. The sampling method applied will be dependent on the precise nature of the material and will be developed and applied on a case-by-case basis. Representative samples of each consignment will be collected and submitted for analysis	No NORM contaminated concrete and steel were disposed to Pit 23 during the reporting period.	NA	
Mineral separation plant by-products. Analysis of MSP by-products is undertaken as follows: - desiccation within the MSP laboratory oven to remove moisture; - pulverisation (as required) to produce a fine granular matrix; - splitting to produce a representative sample of appropriate size; - fusion of the sample to produce a glass bead; and - assay of the bead using an X-Ray Fluorescence Spectrophotometer to determine the concentrations of uranium and thorium. The assay results are uploaded into Iluka's production statistics database as are the results of tonnage measurements of the various streams. The data is then used to calculate the uranium and thorium concentrations in each of the wet circuits rejects, dry circuits rejects and gypsum.	Analytical procedures were previously provided and reviewed.	Compliant	
Analysis of filter bag samples will be undertaken at either Iluka's Hamilton laboratory or an external laboratory to determine the concentrations of uranium and thorium.	No Bag-house dust filter bags were disposed to Pit 23 during the 2022 reporting period.	NA	

Source & Requirement	Observations (2022)	Compliance	Recommendations
Samples of NORM contaminated concrete and steel will be analysed at either Iluka's MSP lab or an external laboratory to determine the concentrations of uranium and thorium.	No NORM contaminated concrete and steel were disposed to Pit 23 during the 2022 reporting period.	NA	
IWMP Reporting			
All data generated from the monitoring described above will be recorded electronically in a data base managed by Iluka. On an annual basis a report will be prepared showing the following:			
For each load: - Source site - Load weight - Radioactive properties being: o assigned concentration of uranium and thorium in MSP mineral byproducts, based on weekly averages of by-products produced; and o measured concentrations of uranium and thorium in used filter bags, concrete or steel.	Section 3.1 and 3.2 of the IWMP Performance report provide the source, weight and radioactive properties of the received material. Section 3.2 of the IWMP Performance Report provides information on the radioactivity analysis of MSP by-products disposed. The IWMP Performance Report states that no waste was disposed of in the 2022 reporting period.	Compliant	
For the report period: - average concentration of uranium and thorium for the MSP by-products, used filter bags, concrete and steel; - total quantities of materials disposed of to Pit 23; and - records of any transport incidents or spills and remedial actions taken in the event of such incidents.	Section 3.2 of the IWMP Performance Report provides information on the radioactivity analysis of MSP by-products disposed. The IWMP Performance Report states that no waste was disposed of in the 2022 reporting period. Section 3.3 of the IWMP Performance Report states no transport incidents or	Compliant	

Source & Requirement	Observations (2022)	Compliance	Recommendations
	spillages occurred during the reporting period.		
The Performance Report will be provided to a suitably qualified auditor who will complete an audit of the data provided and compliance with this IWMP.	This report is provided in accordance with the requirement of the IWMP.	Compliant	
Copies of the Performance Report and the audit report will be submitted to the Responsible Authority.	As the Auditor understands that Iluka will submit the performance reports and the audit report when complete, compliance with this requirement cannot be verified. Iluka has advised that the previous performance report has been submitted to Council.	Compliant	
IWMP Review			
This IWMP shall be reviewed and amended if necessary, to take account of: - advances in knowledge and technology pertaining to by-product disposal; included in this report; - any significant change in operations; - changes in applicable legislation or standards; - changes in Iluka's EHS standards; or every two (2) years, which-ever occurs soonest.	A review of the IWMP (Rev 4) was undertaken in 2020 with the revised plan (Rev 5) submitted to HRCC for review and approval on the 16th December 2020. HRCC provided formal endorsement of the plans on the 29th September 2021.	Compliant	
Proposals for amendment of this plan will be prepared to the satisfaction of the Responsible Authority and the Department of Health and Human Services.	No amendments to the IWMP have been submitted in 2022.	Compliant	

Appendix B

EMP Performance Report Review

Requirement	Observations (2022)	Compliance	Recommendations
General			
Applicable Reporting Period Time period covered by report	The 2022 EMP Performance Report covers the reporting period from 1 January 2022 to 31 December 2022. Iluka states in the Executive Summary that: *Due to rehabilitation activities and the continued reduction of by product disposal into Pit 23 a proposal to cease bi-annual reporting and return to a single annual Performance Report will be submitted to council.*	Compliant	
Executive Summary Summary of compliance to environmental objectives. Summary of rehabilitation activities and performance.	Section 1 contains an Executive Summary which includes a summary of compliance with environmental objectives.	Compliant	
Waste Disposal Summary			
Waste Disposed Summary of waste volumes disposed in the reporting period.	Section 3 states that no wastes were disposed into Pit 23 during the 2022 reporting period. However, Section 2.6 states that 1,595,000 BCM of material was deposited into Pit 23, transferred from the Tailings Storage Facility (TSF) as part of rehabilitation works. The nature of this material is not reported.	Compliant	
Pit Backfill Status The maximum elevation of the upper surface of materials disposed of at the end of the reporting period.	Section 5.2 of the EMP Performance Report states that no wastes were disposed into Pit 23 during the reporting period. However, as rehabilitation earthworks recommenced within Pit 23, the upper surface of material was raised to 196 m AHD, an increase of 2.5m.	Compliant	
Environmental Performance			

Requirement	Observations (2022)	Compliance	Recommendations
Groundwater Routine reporting as detailed in GWMMP (Table 19*): - groundwater quality monitoring results (screened against GWQOs), including discussion on any relevant trends or trigger exceedances; - issues with monitoring bore integrity and accessibility, including any actions undertaken to resolve; - if applicable, information on the outcome of any groundwater model reviews or other groundwater studies pertinent to Pit 23 and the GWMMP. This includes modelling/studies undertaken: o for routine purposes; and	Section 4.1.3 and 4.1.4 of the EMP Performance Report include results of groundwater level gauging and groundwater quality monitoring, respectively. Generally, groundwater level gauging and sampling was conducted as required by the EMP, with monthly monitoring at four bores and at least six-monthly monitoring at the remainder of the nominated bores. Groundwater gauging results indicate generally stable water levels over the period of monitoring. The hydrograph in Figure 5 indicates a higher water level at up-gradient well WRK301 in early 2023. This result is outside the 2022 monitoring period and not included in the table of gauging results (Table 3). Increasing trends were observed during 2021 at up-gradient wells GW06 & WRK302, however, water levels remained generally stable at these wells during 2022. Groundwater quality results were included in an appendix (field parameters) or the attached laboratory reports. Analyte concentrations and ratios did not indicate changes in groundwater conditions at the impact or compliance wells. Concentrations of selenium were reported above the background range (defined as two standard deviations above the mean concentration) at compliance well GW01 in April 2022. However, the concentration (0.063 mg/L) was equal to or lower than previous results from October 2021, July 2019 and May 2019, so is considered to be within the natural range of variation. Subsequent monthly monitoring results indicated selenium concentrations again within the statistical range of variation. Radium 228 concentration at GW01 in July 2022 was elevated within	Compliant	It appears that the Natural Background concentrations presented (e.g., Table 6) included the results from the monitoring period. The new reported results should be compared to previous background conditions (i.e., calculated without including the new results). If the new results are considered to be consistent with natural background, they can then be included in a revised background for comparison with future results.

Requirement	Observations (2022)	Compliance	Recommendations
o in response to previous reported exceedances and exception reporting. *Correct reference for reporting requirements is Table 18.	the error margin of the statistical range. Subsequent results from 2023 included in Figure 7 indicated lower concentrations. Selenium and radium 228 results for compliance well GW01 tabulated and plotted as time-series charts. A partial set of the results of QA assessment (i.e. field blanks and blind duplicates) are included in Appendix D. Complete results are included within laboratory reports. Four field blanks (February, April, July, and September 2022) and three blind duplicate samples (January, February, and July 2021) were collected. Field blanks had concentrations of some analytes above the adopted limit of reporting (LOR) stated in Table 15 of the EMP, as follows: - Low concentrations of calcium were reported for each of the four blank samples (maximum of 0.09 mg/L). The consistent concentrations indicate this was likely present in the rinsate water or introduced in the laboratory rather than being an indicator of field contamination. - Copper in February 2022 equal to the LOR of 0.001 mg/L. - Nitrate in July 2022 (012 mg/L as N). - Sodium in February 2022 and April 2022 was above the laboratory LOR, but below the adopted LOR listed in Table 15 of the EMP. Blind duplicate samples had generally acceptable repeatability, with all results within 40% relative percentage difference (RPD) with the exception of		

Requirement	Observations (2022)	Compliance	Recommendations
	chromium and copper in January 2022 (66%). However, these RPDs represent small differences (0.001 mg/L) in low concentrations close to the LOR, so are not considered to be significant. Section 4.1.1 reports that there were no issues with bore integrity. Section 5.1 states that the final groundwater flow modelling report was completed and provided to the Responsible Authority in Q3 2019. The requirement to update the groundwater modelling was not triggered during the monitoring period.		
Surface Water Routine reporting as detailed in SWMMP (Table 28): - surface water quality monitoring results (screened against SWQOs), including discussion on any relevant trends or trigger exceedances. - if applicable, information on the outcome of any surface water exceedances or uncontrolled off-site discharges and status of any corrective/preventative	Section 4.2.1 reports on run-off fed surface water quality monitoring. No water discharge from the Pit 23 area to surface water was reported, so sampling of run-off fed surface water sites DUSW11 and DUSW25 was not required during the monitoring period. An opportunistic sample was collected from DUSW11 in August 2022. Results did not indicate exceedance of the water quality objectives. Section 4.2.2 reports on groundwater-fed surface water quality monitoring. Declining ionic balance ratios, which would be indicative of leachate migration, were not reported. The following results were discussed in the report: - Results from DUSW24 indicated elevated concentrations of chromium, copper, cobalt and vanadium in September 2022. Subsequent results from October 2022 to December 2022 returned to the previous concentration range. It is noted that	Compliant	

Requirement	Observations (2022)	Compliance	Recommendations
actions planned or completed.	this location was dry in November 2021 the September 2022 sample was the first collected since that time. Therefore, the September 2022 sample may represent a "first flush" condition following a dry period. - Elevated turbidity was reported at DUSW20 from August to October 2022, but the results remained within the natural background range. These results are not indicative of discharge of impacted groundwater. No uncontrolled off-site discharges or corrective/preventative actions were noted.		
Air Quality Routine reporting as detailed in AQMP (Table 35): - Results of dust (PM10) monitoring undertaken in the reporting period, including discussion of any relevant trends and any exceedances attributed to Pit 23 activities; - Results of Radionuclides (Radon and Thorium) undertaken during the Reporting period, including discussion of any relevant trends and	Section 4.7 of the EMP Performance Report states one result (0.065mg/m^3) above the PM_{10} concentration limit (0.06mg/m^3) was recorded on 30 March 2022 during the reporting period at the Lyons monitoring station. The EMP Performance Reports states that: *This high reading could be due to the extensive burning off that occurred in March.* No additional supporting information regarding this conclusion is provided. The Auditor notes that no results were recorded above the PM_{10} concentration limit at the Chadwicks monitoring station. The PM_{10} concentration at the Chadwicks monitoring station, located closer to the mine site, on 30 March 2022 was approximately 0.03 mg/m^3. Meteorological data form the Bureau of Meteorology station at Kanagulk indicate that a southerly wind direction on the 30 March 2022 was consistent throughout the day. This furthers indicate that the source of the elevated PM_{10} concentrations was unlikely due to	Compliant	In the event of future exceedances of the PM_{10} limit Iluka should consider including assessment of relevant meteorological data in its assessment of likely contributing sources.

Requirement	Observations (2022)	Compliance	Recommendations
any exceedances attributed to Pit 23 activities. - Summary of any dust complaints received; and - For dust complaints or PM_{10} exceedances linked to Pit 23 activities, the actions undertaken to resolve.	the mine operations which are to the west of the monitoring station. Section 4.8 of the EMP Performance Report includes the result of the airborne radionuclide monitoring program. No exceedance of the reportable levels for radon (100 Bq/M^3) and thorium (1000 Bq/m^3) were observed during the reporting period. Section 5.4 of the EMP Performance Report states that no complaints or comments were received during the 2022 reporting period.		
Noise Routine reporting as detailed in Table 39: - Summary of any complaints received and results of noise monitoring/investigation; and - For noise events deemed as site-related, the outcomes of any Action Plan(s) that were implemented.	Section 4.3 of the EMP Performance Report states that no noise related complaints or comments were received during the reporting period. Noise level measurements were therefore not undertaken.	Compliant	

Requirement	Observations (2022)	Compliance	Recommendations
Weeds Routine Reporting as detailed in Table 42: - Summary of any declared weed incursions; and - Actions undertaken to resolve.	Section 4.4 of the EMP Performance Report states that no Weeds of National Significance were identified during the reporting period.	Compliant	
Vehicle Hygiene Routine reporting as detailed in Table 45: - Summary of any vehicle hygiene non-compliance events in the reporting period; and - Actions undertaken to resolve.	Section 4.5 of the EMP Performance Report states that no vehicle hygiene incidents were identified during the reporting period.	Compliant	
Public Safety Reporting as detailed in Table 48: - Summary of any public safety incidents in the reporting period; and - Actions undertaken to resolve.	Section 4.6 of the EMP Performance Report states that no breaches of the security perimeter occurred vehicle during the reporting period.	Compliant	

Requirement	Observations (2022)	Compliance	Recommendations
- Summary of any geotechnical incidents in the reporting period; and - Actions undertaken to resolve.			
Rehabilitation Performance			
Rehabilitation Summary Detailed summary of rehabilitation activities undertaken in the reporting period (e.g. decommissioning, overburden return, revegetation activities).	Section 2.6 of the EMP Performance Report describes rehabilitation activities undertaken during the reporting period.	Compliant	
Other			
Comments / Complaints Summary of comments / complaints received and resulting actions	Section 5.4 of the EMP Performance Report states that no complaints or comments were received during the reporting period.	Compliant	
Outlook Completed actions during the current Plans for the next reporting period.	Section 5.5 of the EMP Performance Report details actions completed during the reporting period. For 2022, this included: - Review of the Pit 23 Risk Register; and - Completion of the biennial geotechnical audit of Pit 23. These items were proposed in the H1 2021 EMP Performance Report.	Compliant	

Requirement	Observations (2022)	Compliance	Recommendations
	Section 5.6 of the EMP Performance Report describes proposed actions for the next reporting period. For 2023, this includes: - Implementation of the ongoing monitoring requirements as per the EMP (Revision 5.1); - Continued rehabilitation works; - Review of the Pit 23 Risk Register; - Completion of the biennial geotechnical audit of Pit 23; and - Review of the EMP.		
Other Matters Discussion on other matters considered relevant by the Responsible Authority or Iluka.	Section 5.8 of the EMP Performance Report describes other matters considered relevant by Iluka or the Responsible Authority. For the 2022 reporting period, this included: - A Geotechnical Audit was conducted in November 2021 by AMC Consultants as required on a biennial basis. The next geotechnical report is scheduled for November 2023. - A review of the Pit 23 Risk Analysis and Response Plan was undertaken in November 2022. The next review is scheduled for H2 2023 as required on an annual basis.	Compliant	
Plan Amendment(s) Summary of any amendments/updates to the EMP, IWMP or RVMP in the reporting period (if applicable)	None.	Compliant	

Appendix C

Iluka IWMP Performance Report 2022

Iluka Resources Limited
Mineral Sands By-Product Disposal

Planning Permit 15-105

Crown Allotments 91, 94, 95, 96
Parish of Telangatuk

Incoming Waste Monitoring Plan

Report – 2022

Iluka Ref: UDOCS 3867-39868-138390

Contact:
Stuart Alexander
Environment Superintendent, Murray Basin
Stuart.Alexander@iluka.com

Document control

Revision	Details of review or changes	Prepared by	Date
0	Final	S. Alexander	12-05-2021
1	Final	C Mintern	19-06-2023

Table of contents

List of tables

List of figures

1 Executive Summary

Iluka Resources Limited (Iluka) operates the Pit 23 by-products disposal facility located at the Douglas Mine in the Kanagulk area and within the municipality of the Horsham Rural City. Pursuant to Planning Permit 15-105 issued by Horsham Rural City Council (HRCC), and the subsidiary Pit 23 Incoming Waste Monitoring Plan (IWMP), the Pit 23 facility is approved for the disposal of:

- non-liquid waste by-products associated with or sourced though mineral sands processing undertaken at the Iluka Hamilton Mineral Separation Plant (MSP) containing or contaminated with Naturally Occurring Radioactive Material (NORM);
- used dust filter bags from the Hamilton MSP containing or contaminated with NORM; and
- NORM-contaminated concrete and steel associated with plant and infrastructure from nominated Iluka sites within Victoria.

This report is submitted in accordance with Section 6 of the IWMP and provides a summary of the wastes received into Pit 23 (origin, volumes/weights and radioactive properties) and records of incidents and remedial actions applicable to the reporting period of 1st January 2022 to 31st December 2022.

Key commentary on monitoring outcomes and performance against compliance objectives in the IWMP for the 2022 reporting period:

- No waste disposed into Pit 23 in the 2022 reporting period; and
- No transport incidents or spillages occurred.

Summary incoming waste data and incident information is provided in Section 3.

2 Introduction

Iluka Resources Limited (Iluka) operates the Pit 23 by-products disposal facility located at the Douglas Mine in the Kanagulk area and within the municipality of the Horsham Rural City (Figure 1 and Figure 2).

Pursuant to Planning Permit 15-105 issued by Horsham Rural City Council (HRCC), and the subsidiary Pit 23 Incoming Waste Monitoring Plan (IWMP), the Pit 23 facility is approved for the disposal of mineral separation by-products and used dust filter bags from the Iluka Hamilton Mineral Separation (MSP) which contain or are contaminated with Naturally Occurring Radioactive Material (NORM), and concrete and steel which contains or is contaminated with NORM associated with plant and infrastructure from nominated Iluka sites within Victoria.

2.1 Planning Permit 15-105

Under the Horsham Planning Scheme the subject land is in the Farming Zone and under the provisions of that zone a permit is required for use and development for Industry (Refuse Disposal). On 25th February 2017 Planning Permit 15-105, (the Permit) was issued by the Horsham Rural City Council as the Responsible Authority to allow:

> *Use and development of the land for the disposal of waste by-products associated with or sourced through mineral sands processing undertaken at the Hamilton Mineral Separation Plant (MSP), including waste by-products and contaminated materials resulting from the processing and transport operations as follows:*
>
> - *By-products from the processing of heavy mineral concentrate at the Hamilton MSP;*
> - *used dust filter bags from the Hamilton MSP; and*
> - *Other chemically inert material contaminated with naturally occurring radioactive material.*
>
> *in accordance with the endorsed plans.*

2.2 Commencement of the Permit

Condition 1 of the Permit states:

> *This permit does not come into operation until:*
>
> a. *Iluka has applied to the Department of Economic Development, Jobs, Transport and Resources to vary the 2003 Work Plan to identify a new endues utilisation of Pit 23 and to vary the rehabilitation plan; and*
> b. *Iluka has applied to the Minister to surrender part of MIN 5367[1] (Pit 23); and*
> c. *The Department of Economic Development, Jobs, Transport and Resources has approved the Work Plan Variation; and*
> d. *The Minister has registered the partial surrender of MIN 5367.*
>
> *The permit comes into operation on the same day the Work Plan Variation is approved, and the partial surrender of MIN 5367 is registered.*

The Variation to the 2003 Douglas Mine Work Plan was approved on the 13th April 2017, and the partial surrender of MIN 5367 was registered on 11th May 2017, this being the date of commencement of the Permit.

[1] Iluka Resources Douglas Mine – Mining Licence No. 5367 ('MIN 5367')

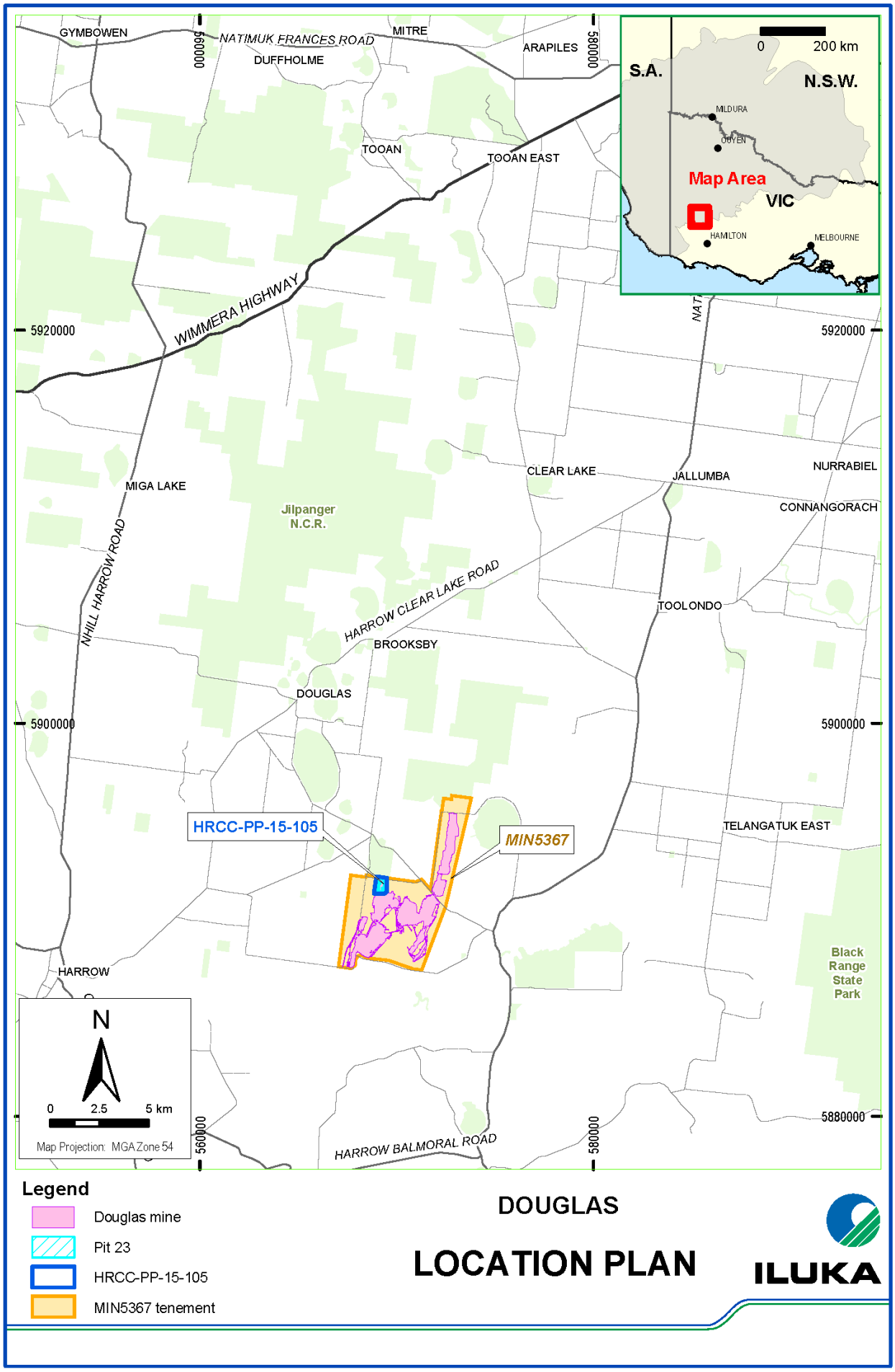


Figure 1. Location of the Douglas Mine.

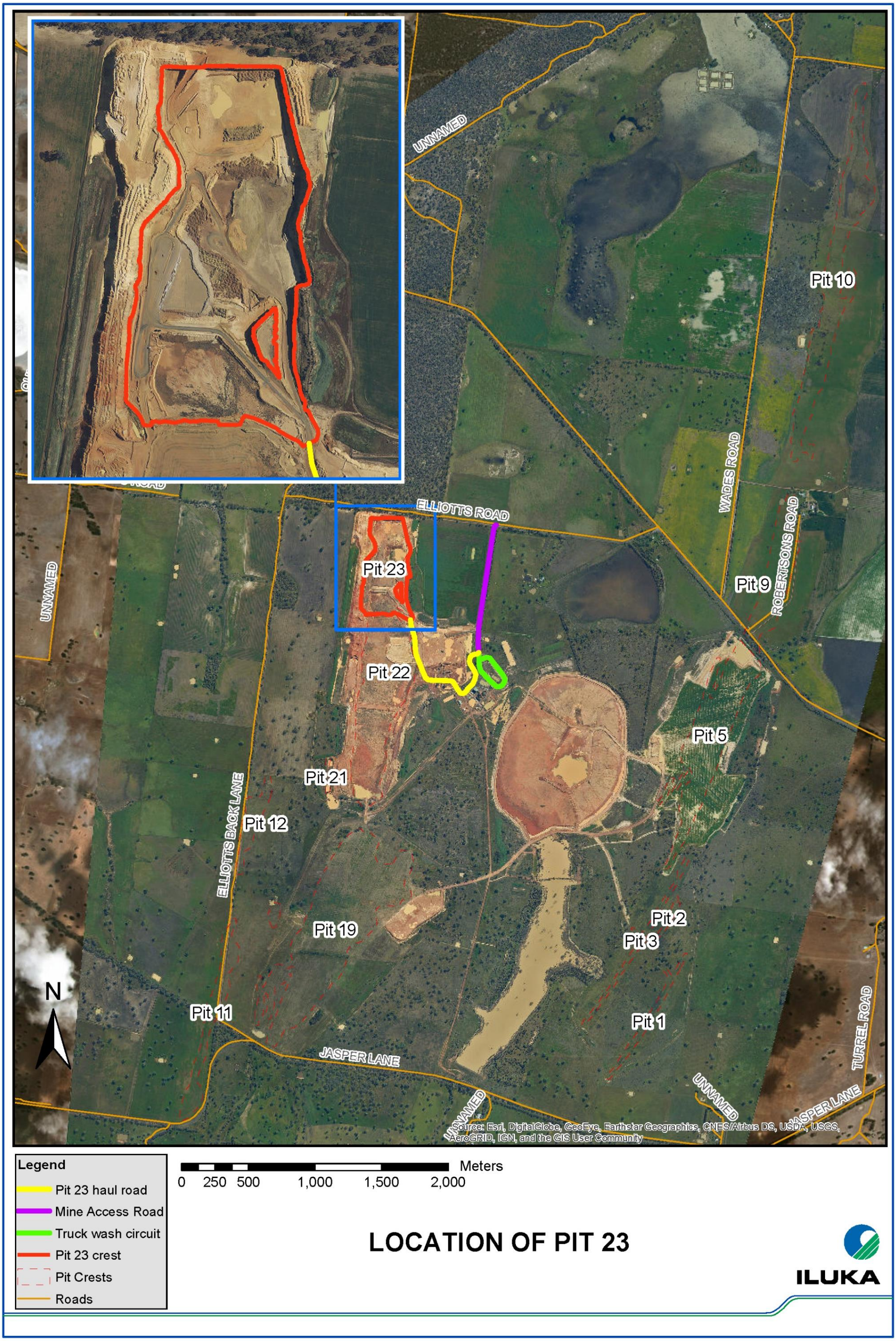


Figure 2. Location of Pit 23.

2.3 Endorsed Plans

Conditions 2, 3, 9, 14, 16 and 34 of the Permit relate to various management plans that once approved by the Responsible Authority will be endorsed to form part of the Permit, which includes:

- Incoming Waste Monitoring Plan (IWMP);
- Environmental Management Plan (EMP), incorporating;
    - Groundwater Monitoring and Management Plan (GWMMP);
    - Surface Water Monitoring and Management Plan (SWMMP);
    - Air Quality/Dust Control Plan (AQMP); and
- Rehabilitation and Vegetation Management Plan (R&VMP)

A review of the EMP (Rev 4) and IWMP (Rev 4) was undertaken in 2020 with the revised plans (Rev 5.1 and 5 respectively) submitted to HRCC for review and approval on the 16th of December 2020. HRCC provided formal endorsement of the plans on the 29th September 2021.

2.4 Permit condition requirement for an IWMP

To ensure compliance with the permitted use (Section 2.1) the Permit includes the following condition concerning the requirement for and content of an IWMP:

Incoming Waste Monitoring Plan

14. *Within 90 days of the commencement of this permit operation, an Incoming Waste Management Plan (IWMP) must be prepared to the satisfaction of the Responsible Authority in consultation with the Department of Health and Human Services for the approval by the responsible authority. Three copies of the plan must be provided to the responsible authority. When approved by the responsible authority the IWMP will be endorsed and it will then form part of this permit. The IWMP must provide for*

    a) A monitoring and reporting system for ensuring that materials disposed of to Pit 23 are limited to those approved under the conditions of this permit;

    b) Recording of the origin, per load weight and radioactive properties of each incoming load;

    c) Monitoring to ensure all vehicles transporting waste have fully secured and contained loads and that all waste loads have been transported in compliance with licence requirements under the Radiation Act 2005;

    d) Records of any transport incidents or spill and remedial actions taken in the event of such incidents; and

    e) Annual audits of records to verify compliance with the requirements of the IWMP

2.5 IWMP reporting requirements

Section 6 of the IWMP states the following reporting requirements:

> *On an annual basis a report will be provided showing the following:*
>
> - *For each load:*
> - *source site;*
> - *load weight; and*
> - *material description; and*
> - *For the report period:*
> - *radioactivity of by-products on a monthly basis; and*
> - *total quantities of by-products disposed of to Pit 23.*
>
> *The annual report will be provided to a suitably qualified auditor who will complete an audit of the data provided and compliance with this IWMP. Copies of the annual report and the audit report will be submitted to the Responsible Authority*

These reporting requirements are addressed in the following sections.

3 Monitoring Results

3.1 Per load monitoring data

In accordance with Section 6 of the endorsed IWMP, data associated with each load of incoming waste is shown in Table 1. No loads of material were received into Pit 23 in the 2022 reporting period.

Table 1: Individual load data for incoming wastes to Pit 23, 2022

Date	Week No.	Source site	Location Code	Material Code	Load weight (t)

3.2 Reporting period monitoring data

In accordance with Section 6 of the endorsed IWMP, the monthly average radioactivity of by-products shall be reported. However, no by-products were disposed into Pit 23 during the reporting period. No samples required for radionuclide analysis as shown in Table 2.

Table 2: Quantities and radioactivity results for disposed MSP by-products, 2022

Product	Product (tonnes)	Th (ppm)	U (ppm)
Dry circuit rejects	0	n/a	n/a
Wet circuit rejects	0	n/a	n/a
Baghouse dust filter bags	0	n/a	n/a
Total	**0**		

3.3 Incidents and remedial actions

3.3.1 Incidents or spills

No transport incidents or spillages occurred during the reporting period

3.3.2 Remedial actions taken

None required

3.4 Other matters

None identified.

Appendix D

Iluka EMP Performance Report 2022

Iluka Resources Limited
Mineral Sands By-Product Disposal

Planning Permit 15-105

Crown Allotments 91, 94, 95, 96
Parish of Telangatuk

Environmental Management Plan and Rehabilitation Performance Report – 2022

Iluka Ref: UDOCS 0090-426461582-2779

Contact:
Stuart Alexander
Environment Superintendent, Murray Basin
Stuart.Alexander@iluka.com

Document control

Revision	Details of review or changes	Prepared by	Date created
A	Draft	S. Alexander	10-05-2022
0	Final	S.Alexander	12-05-2022
V0	Draft	C. Mintern	28-04-2023
v1	Final	C. Mintern	15-09-2023

Table of contents

List of tables

List of figures

1 Executive Summary

Iluka Resources Limited (Iluka) operates the Pit 23 by-products disposal facility located at the Douglas Mine in the Kanagulk area and within the municipality of the Horsham Rural City.

Pursuant to Planning Permit 15-105 issued by Horsham Rural City Council (HRCC), and the subsidiary Pit 23 Incoming Waste Monitoring Plan (IWMP), the Pit 23 facility is approved for the disposal of mineral separation by-products and used dust filter bags from the Iluka Hamilton Mineral Separation (MSP) which contain or are contaminated with Naturally Occurring Radioactive Material (NORM), and concrete and steel which contains or is contaminated with NORM associated with plant and infrastructure from nominated Iluka sites within Victoria.

Complementing the IWMP are the endorsed Pit 23 Environmental Management Plan (EMP) which addresses the identification, management and monitoring of environmental risks associated with the approved development and use; and the endorsed Rehabilitation and Vegetation Management Plan (R&VMP) which addresses the future rehabilitation of the Pit 23 facility including infrastructure decommissioning, landform reinstatement and end land use.

This report is submitted in accordance with Section 12.2 of the endorsed Iluka Pit 23 EMP and outlines the results of monitoring and management actions undertaken during the period 1st Januray 2022 to 31st December 2022.

Due to rehabilitation activities and the continued reduction of by product disposal into Pit 23 a proposal to cease bi-annual reporting and return to a single annual Performance Report will be submitted to council.

Key commentary on environmental monitoring outcomes and performance against compliance objectives in the Pit 23 EMP for the 2022 reporting period:

- There was no surface water discharge from the Pit 23 disturbance area;
- There were no exceedances of applicable limits for any analytes in groundwater-fed surface water sites down-gradient of Pit 23 attributable to disposal activities;
- No noise complaints were received;
- There were one exceedance of the PM_{10} limit (0.065 mg/m^3 on 30 March 2022), this was not attributable to Pit 23 operations;
- There were no exceedances of the air concentration limits for radon or thoron;
- Measured concentrations of gross alpha radiation in airborne dust were within the range of historical values; and
- Rehabilitation earthworks at Pit 23 commenced in H2 2021 and are anticipated to be completed by 2024.

Detailed assessment of compliance, key results and management actions are provided in Section 4 and 5 of the enclosed report.

2 Introduction

Iluka Resources Limited (Iluka) operates the Pit 23 by-products disposal facility located at the Douglas Mine in the Kanagulk area and within the municipality of the Horsham Rural City (Figure 1 and Figure 2).

Pursuant to Planning Permit 15-105 issued by Horsham Rural City Council (HRCC), and the subsidiary Pit 23 Incoming Waste Monitoring Plan (IWMP), the Pit 23 facility is approved for the disposal of mineral separation by-products and used dust filter bags from the Iluka Hamilton Mineral Separation (MSP) which contain or are contaminated with Naturally Occurring Radioactive Material (NORM), and concrete and steel which contains or is contaminated with NORM associated with plant and infrastructure from nominated Iluka sites within Victoria.

2.1 Planning Permit 15-105

Under the Horsham Planning Scheme the subject land is in the Farming Zone and under the provisions of that zone a permit is required for use and development for Industry (Refuse Disposal). On 25th February 2017 Planning Permit 15-105, (the Permit) was issued by the Horsham Rural City Council as the Responsible Authority to allow:

> *Use and development of the land for the disposal of waste by-products associated with or sourced through mineral sands processing undertaken at the Hamilton Mineral Separation Plant (MSP), including waste by-products and contaminated materials resulting from the processing and transport operations as follows:*
>
> - *By-products from the processing of heavy mineral concentrate at the Hamilton MSP;*
> - *used dust filter bags from the Hamilton MSP; and*
> - *Other chemically inert material contaminated with naturally occurring radioactive material.*
>
> *in accordance with the endorsed plans.*

2.2 Commencement of the Permit

Condition 1 of the Permit states:

> *This permit does not come into operation until:*
>
> *a. Iluka has applied to the Department of Economic Development, Jobs, Transport and Resources to vary the 2003 Work Plan to identify a new endues utilisation of Pit 23 and to vary the rehabilitation plan; and*
>
> *b. Iluka has applied to the Minister to surrender part of MIN 5367 (Pit 23); and*
>
> *c. The Department of Economic Development, Jobs, Transport and Resources has approved the Work Plan Variation; and*
>
> *d. The Minister has registered the partial surrender of MIN 5367.*
>
> *The permit comes into operation on the same day the Work Plan Variation is approved, and the partial surrender of MIN 5367 is registered.*

The Variation to the 2003 Douglas Mine Work Plan was approved on the 13th April 2017, and the partial surrender of MIN5367 was registered on 11th May 2017, this being the date of commencement of the Permit.

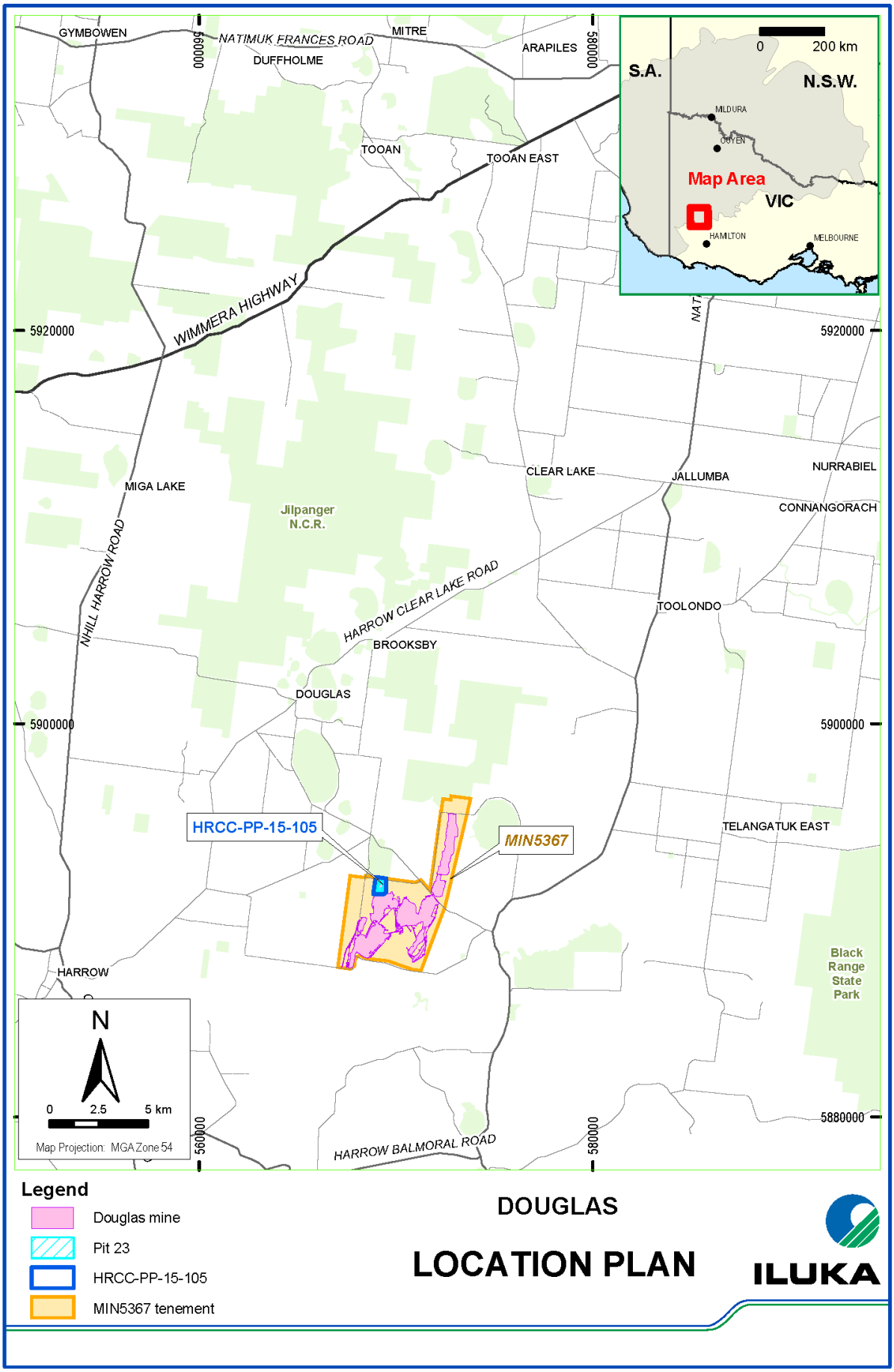


Figure 1: Douglas Mine and Pit 23 regional location.

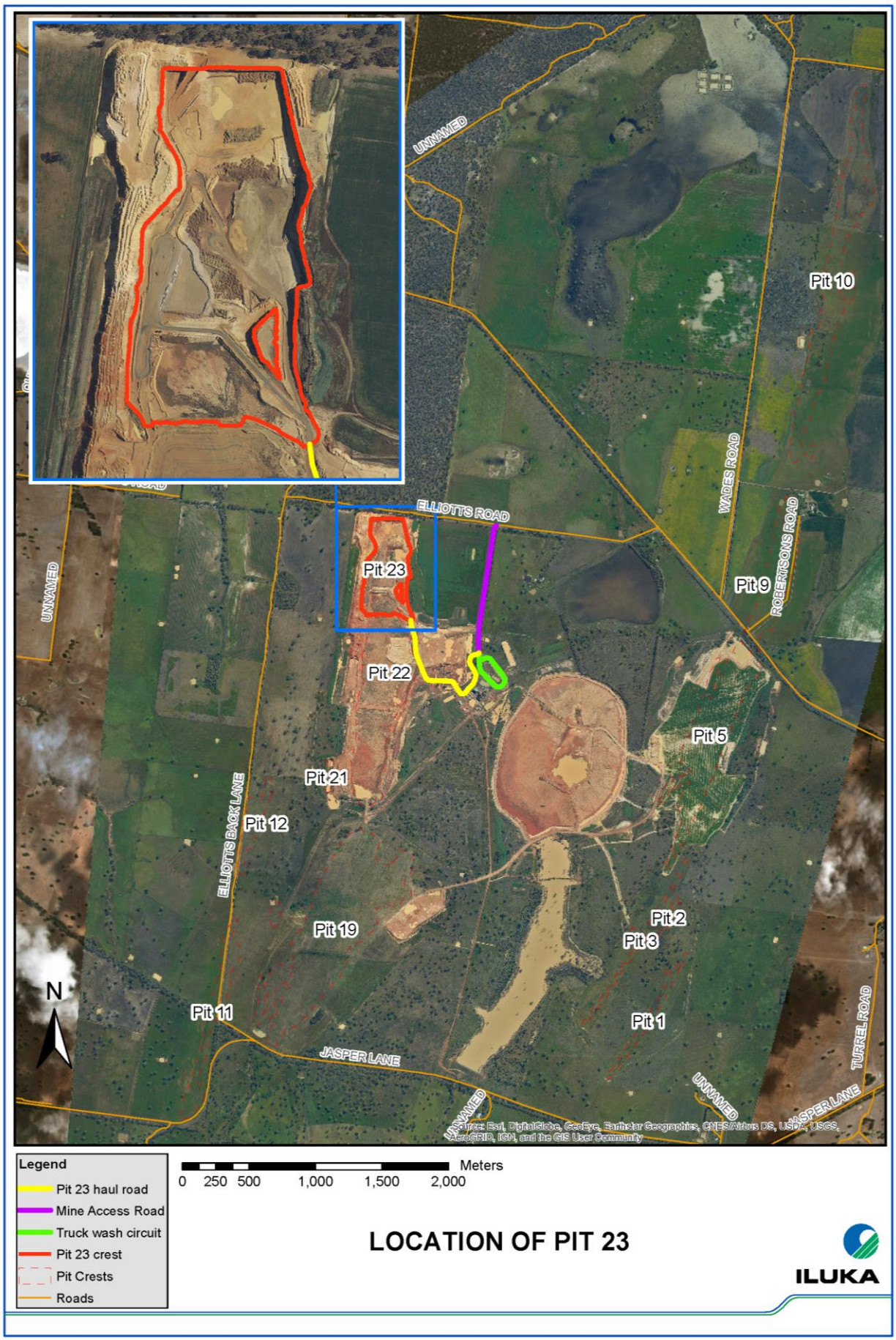


Figure 2: Pit 23 location

2.3 Endorsed Plans

Conditions 2, 3, 9, 14, 16 and 34 of the Permit relate to various management plans that once approved by the Responsible Authority will be endorsed to form part of the Permit, which includes:

- Incoming Waste Monitoring Plan (IWMP);
- Environmental Management Plan (EMP), incorporating;
    - Groundwater Monitoring and Management Plan (GWMMP);
    - Surface Water Monitoring and Management Plan (SWMMP);
    - Air Quality/Dust Control Plan (AQMP); and
- Rehabilitation and Vegetation Management Plan (R&VMP)

The original plans were endorsed by Horsham Rural City Council on 17th July 2017

A review of the EMP (Rev 4) and IWMP (Rev 4) was undertaken in 2020 with the revised plans (Rev 5.1 and 5 respectively) submitted to HRCC for review and approval on the 16th of December 2020. HRCC provided formal endorsement of the plans on the 29th September 2021.

2.4 Plan Amendments

No amendments were made to the EMP, IWMP or R&VMP during the reporting period.

2.5 Performance reporting

Section 12.1 of the endorsed EMP (Rev 5.1, September 2021) outlines the routine reporting requirements for the mineral sands by-product disposal operations which are:

> *A review of performance will be completed and an EMP and Rehabilitation Performance Report prepared annually on a calendar year basis, or as otherwise agreed with the Responsible Authority.*
>
> *The structure and content of each report will follow that given in Table 49. Where no activities applied in the reporting period for a certain aspect or activity this will be referenced as "Not Applicable" in the report with a brief supporting explanation provided.*

Table 49: Structure of EMP and Rehabilitation Performance Reports

Item	Information to be provided
General	
Applicable Reporting Period	Time period covered by report
Executive Summary	Summary of compliance to environmental objectives Summary of rehabilitation activities and performance
Waste Disposal Summary	
Waste Disposed	Summary of waste volumes disposed in the reporting period
Pit Backfill Status	The maximum elevation of the upper surface of materials disposed of at the end of the reporting period.
Environmental Performance	
Groundwater	Reporting as detailed in GWMMP (Table 19)
Surface Water	Reporting as detailed in SWMMP (Table 28)
Air Quality	Reporting as detailed in AQMP (Table 35)
Noise	Reporting as detailed in Table 39
Weeds	Reporting as detailed in Table 42
Vehicle Hygiene	Reporting as detailed in Table 45
Public Safety	Reporting as detailed in Table 48
Rehabilitation Performance	
Rehabilitation Summary	Detailed summary of rehabilitation activities undertaken in the reporting period (e.g. decommissioning, overburden return, revegetation activities).
Other	
Comments / Complaints	Summary of comments / complaints received and resulting actions
Outlook	Plans for the next reporting period
Other Matters	Discussion on other matters considered relevant by the Responsible Authority or Iluka.
Plan Amendment(s)	Summary of any amendments/updates to the EMP, IWMP or R&VWMP in the reporting period (if applicable)

Per Section 13.1.2 of the EMP, the EMP and Rehabilitation Performance Reports will be subject to review by an independent auditor prior to submission to the Responsible Authority.

2.6 Rehabilitation and Vegetation Management Plan

Rehabilitation works continued at Douglas during 2022 with material from the Tailings Storage Facility (TSF) cell being hauled into the Pit 23 void.The total material hauled into Pit 23 during 2022 was 1,595,000 BCM.

3 Delivery and Disposal of Materials into Pit 23

No wastes were disposed into Pit 23 during the 2022 reporting period.

4 Monitoring Results

4.1 Groundwater

4.1.1 Bore network status

The Pit 23 bore network includes additional monitoring bores installed in 2018 per the recommendations in the independent desktop review of proposed by-product disposal (EES, 2016). Since the installation of these bores, the augmented bore network satisfies Condition 28(c) of the Permit.

In accordance with Section 7.5.1 of the current endorsed EMP (Rev 5.1, September 2021) groundwater monitoring bores are designated as compliance, impact or background as defined in Table 1.

Table 1: Pit 23 groundwater monitoring bores categories

Category	Description
Impact Bores	Bores immediately adjacent the Pit 23 crest and expected to be influenced by histrorical mine/tailings disposal, as based on groundwater arrival time predictions (EMM, 2019) and Pit 23 solute transport modelling (per Jacobs, 2016). **Not subject to exceedance reporting.**
Compliance / Indicator Bores	Bores not impacted by mining or Pit 23 by-product disposal acrivities and sited down-gradient of Pit 23 and directly on the path of groundwater flow. These bores are used to indicate the occurrence (or otherwise) of potentially-contaminated groundwater flows from Pit 23 and adverse impacts on stock water beneficial use. **Subject to exceedance reporting.**
Background Bores	Bores sited up-gradient, cross-gradient and far down-gradient of Pit 23 and representative of local or broader background groundwater condition not associated with Pit 23. Monitoring of these bores allows comparison of groundwater trends or observations in nominated compliance bores. **Not subject to exceedance reporting.**

The category and status of the Pit 23 monitoring bore network is given in Table **2**.
Monitoring bore locations are provided in Figure 3.

Table 2: Pit 23 bore status (as at 31/12/2022)

Well ID	Comment	Status / Condition
IMPACT BORES		
WRK300	Adjacent Pit 23 pit crest (NE corner)	OK
BW36A	Adjacent Pit 23 pit crest (NW corner)	OK
COMPLIANCE / INDICATOR BORES		
GW01	Down-gradient / on flow path	OK
GW02	Down-gradient / on flow path	OK
GW03	Down-gradient / on flow path	OK
GW04A	Down-gradient / on flow path	OK
BACKGROUND BORES		
WRK301	Up-gradient of Pit 23	OK
GW04	Cross-gradient of flow path	OK
GW05	Cross-gradient of flow path	OK
WRK302	Up-gradient of Pit 23	OK

Well ID	Comment	Status / Condition
GW06	Up-gradient of Pit 23	OK
GW08	Up-gradient of Pit 23	OK
GW07	Up-gradient of flow path	OK
BW45B	Cross-gradient of flow path	OK
BW28A	Cross-gradient of flow path	OK
BW05	Far down-gradient	OK
IWB2	Background - other	OK
IWB6	Background - other	OK

4.1.2 Bore monitoring schedule

As per Section 7.5 of the EMP bi-annual sampling and analysis will continue for all bores listed in Table **2** above.

Compliance bores (GW01, GW02, GW03 and GW04A) will in addition be sampled in all remaining months outside of bi-annual sampling with a reduced suite of analytes to align with the site specific water quality objectives that have been set for analytes (pH – lower criterion, Se and U_{238} along with ionic ratio's Na:Ca and Cl:SO_4) whose natural background values exceed the groundwater objectives, thereby, the background values become the groundwater objectives.

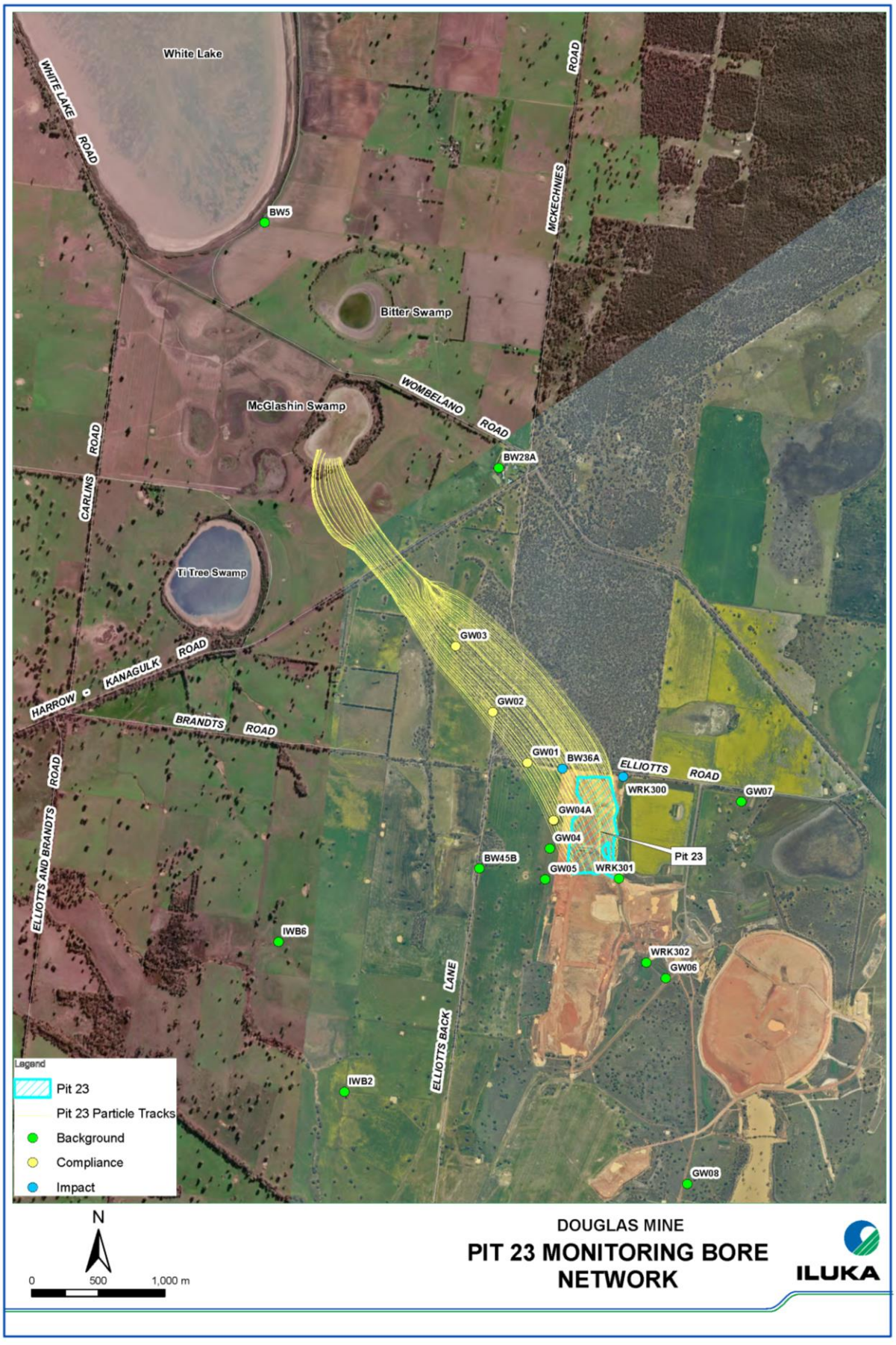


Figure 3: Pit 23 updated groundwater monitoring network.

4.1.3 Standing water levels

In accordance with Section 7.5 of the current endorsed EMP (Rev 5.1, September 2021) groundwater level monitoring will be undertaken in the course of groundwater quality sampling.

Groundwater level hydrographs for these bores (expressed in groundwater elevation (metres above Australian Height Datum, mAHD) are provided in Table **3** and Figure 4 to Figure 6. Data includes that obtained during scheduled events and ad-hoc measurements.

All bores along the predicted flow path (Figure 4) have exhibited stable standing water levels in the preceding 24-month period and in comparison to long-term trends; background bores and bores up and cross-gradient of Pit 23 (Figure 5 and Figure 6) have exhibited relatively stable water levels with minor fluctuation.

Table 3: Monitoring bores - standing water levels (mAHD).

Bore ID	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
IMPACT BORES												
WRK300	175.18	*	*	*	*	*	175.1	*	*	175.2	*	*
BW36A	174.4	*	174.4	*	*	*	174.4	*	*		*	*
INDICATOR / COMPLIANCE BORES												
GW01	173.6	173.6	173.6	173.6	173.52	173.4	173.5	173.4	173.5	173.4	173.4	173.5
GW02	170.8	170.7	170.7	170.7	170.1	170.1	170.4	170.4	170.4	170.4	170.4	170.4
GW03	162.0	161.9	162.2	162.2	162.2	161.2	162.0	162.1	162.0	162.0	162.1	162.1
GW04A	177.0	177.0	177.0	177.0	176.9	176.9	176.9	176.9	176.9	177.0	177.0	177.0
BORES REPRESENTATIVE OF BACKGROUND												
WRK301	178.1	*	*	*	*	*	178.1	*	*	178.2	*	*
GW04	178.3	*	178.3	*	*	*	178.2	*	*	178.2	*	*
GW05	178.9	*	178.8	*	*		178.9	*	*	178.8	*	*
WRK302	176.8	*	*	*	*	*	176.8	*	*	176.5	*	*
GW06	176.5	*	*	*	*	*	176.5	*	*	176.5	*	*
GW08	177.5	*	*	*	*	*	177.4	*	*	177.4	*	*
GW07	172.5	*	*	*	*	*	172.5	*	*	172.5	*	*
BW45B	177.59	*	177.6	*	*	*	177.6	*	*	177.6	*	*
BW28A	*	152.0	*	*	*	*	152.1	*	*	152.1	*	*
BW05	147.4	*	*	*	*	*	147.4	*	*	147.5	*	*
IWB2	179.7	*	*	*	*	*	179.7	*	*	179.6	*	*
IWB6	176.7	*	*	*	*	*	176.9	*	*	*	*	*

Notes

- dates marked with an asterisk (*) indicates no scheduled sampling required

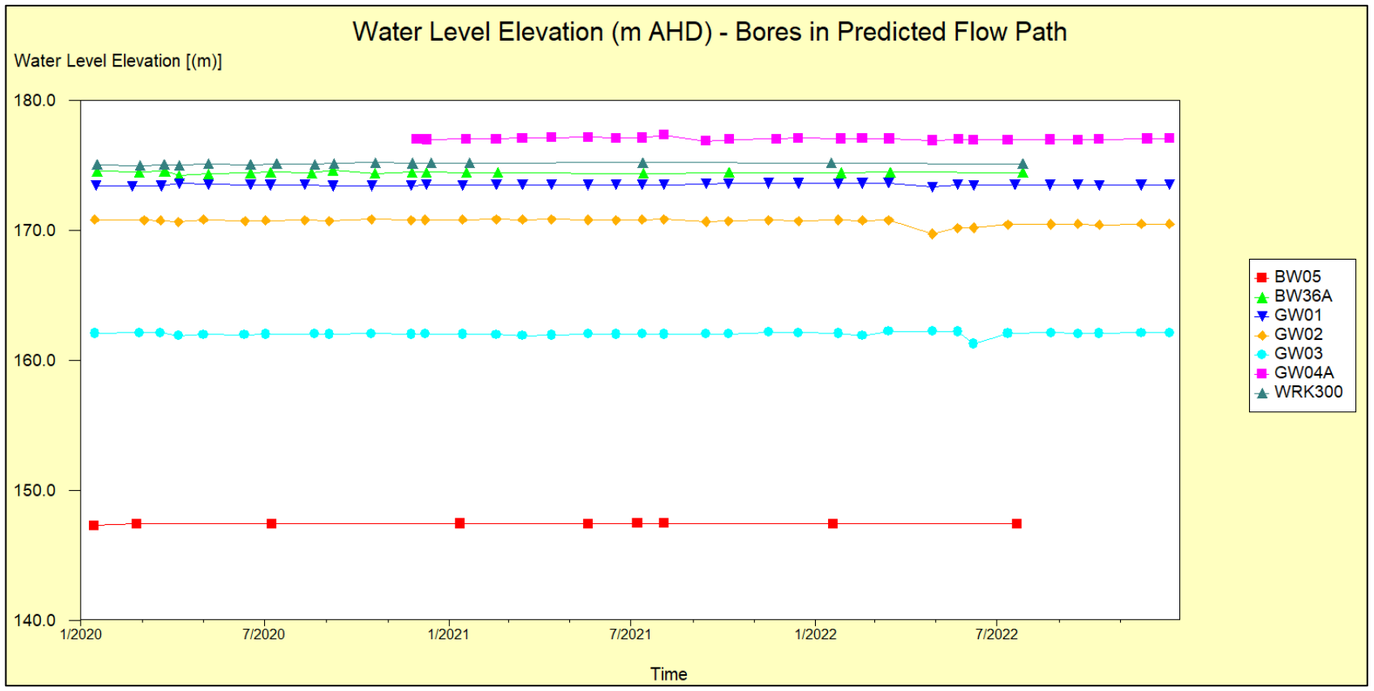


Figure 4: Groundwater elevation (mAHD) – bores in predicted flow path

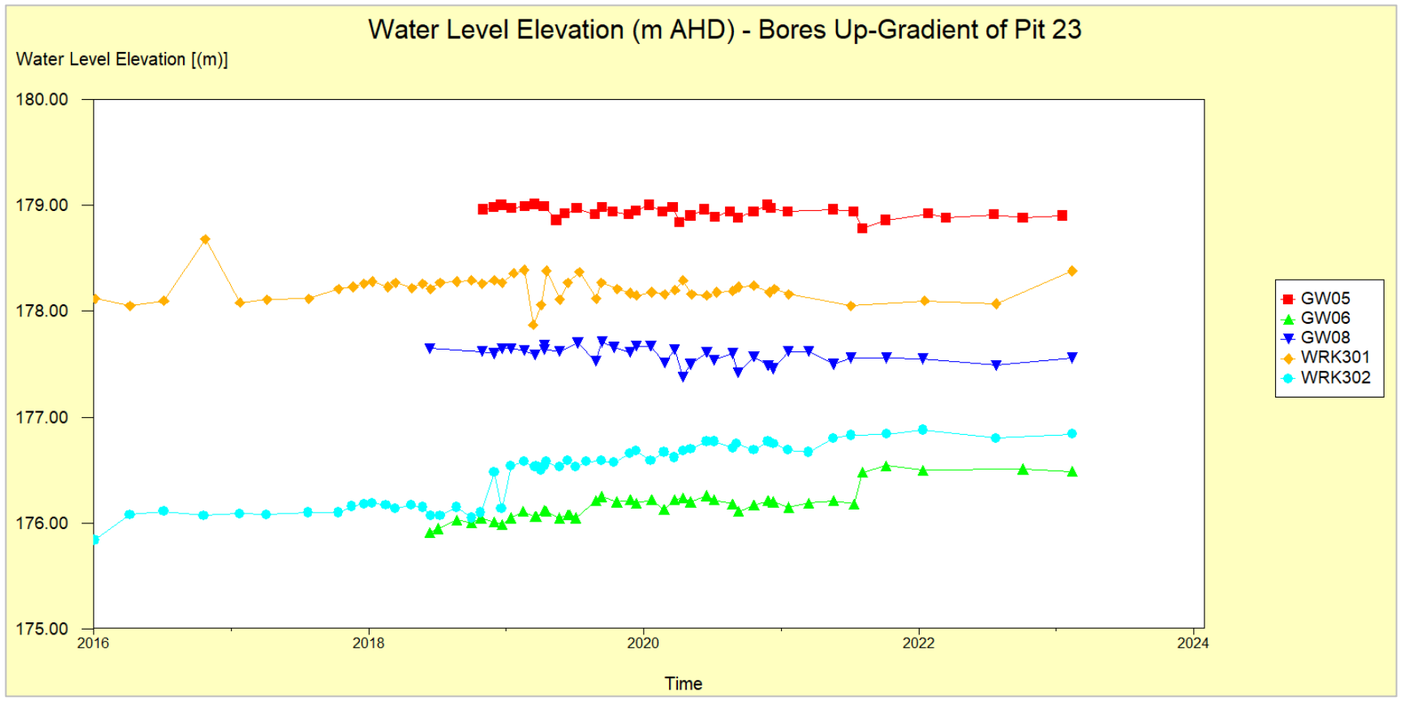


Figure 5: Groundwater elevation (mAHD) – up-gradient bores

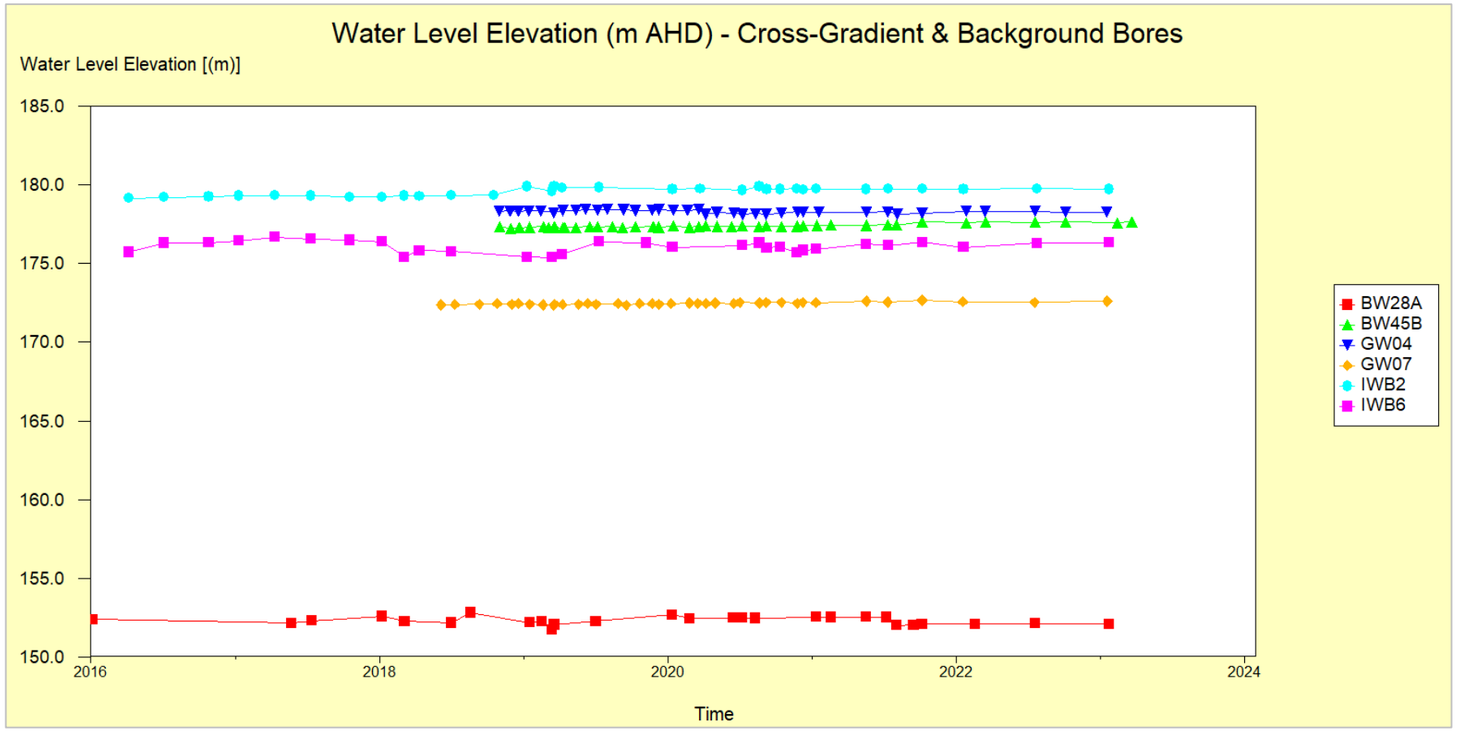


Figure 6: Groundwater elevation (mAHD) – up-gradient bores

4.1.4 Groundwater quality

As per Section 7.3.2 of the EMP groundwater is dominated by the Na-Cl ion pair whereas the results of laboratory leach tests on MSP by-products show that leachate is dominated by the Ca-SO4 ion pair. Thus, leachate migration would be indicated by a decline in the Cl:SO4 and Na:Ca ratios as the concentrations of sulfate or calcium increases relative to the concentrations of chloride or sodium, respectively.

Groundwater water quality objectives (GWQOs) are used to evaluate changes in groundwater chemistry that may be associated with seepage from Pit 23, however, objectives for these ionic ratios are not prescribed in the SEPP (Waters) and the GWQOs for these ratios do not apply as standalone limits to be maintained and are only taken into consideration where they correspond to a simultaneous trend of concern in one or more other analytes. They are used to confirm the likelihood of a Pit 23 related influence on groundwater quality and expression into surface waters where trends of concern are first observed for other analytes.

Per Section 7.6 of the EMP in the event that an exceedance of one or more GWQOs occurs the following will occur:

- Follow up confirmation sampling and analysis
- Referring to the predicted groundwater particle arrival times from the updated hydrogeological model (per EMM, 2019), confirmation of the arrival of seepage from Pit 23 in a bore will be assumed if all the below apply:
    - the results of the follow-up sampling and analysis confirms a continued adverse trend/exceedance;
    - the exceedance(s) correspond with a simultaneous trend of concern/exceedance in Cl:SO4 and/or Na:Ca ratios;
    - the results are not consistent with the natural background chemistry in that bore or bores; and
    - the timing of the above adverse trends/exceedances is less than 90% of that predicted in the hydrogeological model (i.e. seepage from Pit 23 may have arrived at the bore(s) sooner than expected).

During the reporting period there was one elevated Selenium result received in April 2022 and one elevated Radium 228 result in July 2022 received from groundwater bore GW01. Follow up sampling taken in subsequent months at this groundwater bore showed all samples returned to below the GWQO's for Selenium and Radium 228. The elevated Radium 228 result in July of 2.2 Bq/l is within the error margin of +/- 0.2. These results are show in

Table **4**.

Groundwater sampling and analysis QA/QC assessment and validation provided by external laboratories did not report any non-conformances.

Four field blanks (Feb 2022, April 2022, July 2022 and Sep 2022) and three blind duplicates (Jan 2022, Feb 2022 and July 2022) were taken during the reporting period. Assessment of the results for the field blanks and blind duplicates is provided in **Appendix D**.

The results of the QA/QC assessment of the field blanks taken during 2022 indicate there were low detection of various cations/anions (Sodium and Nitrate Nitrogen), metals (Boron and Copper) and Total Dissolved Solids detected. Concentrations measured were below the laboratory limit of reporting, indicating there was no gross contamination.

Blind duplicate samples taken in January, February and July 2022 had acceptable repeatability, with all results within 66% relative percentage difference (RPD). Two results were within 66% releative percentage difference. The majority of the results were below 10% relative percentage difference.

Analyte concentrations above GWQO's, radionuclide Selenium concentrations are presented in Table 4 and Figure 7.

All groundwater quality monitoring data (laboratory and field data) for the reporting period for all parameters monitored is provided in **Appendix B** and **Appendix C** of this report, respectively.

Table 4: Compliance monitoring bores – groundwater quality results

Bore ID	Date	Ra228 (Bq/L)	Se (mg/L)	Groundwater Travel Time (Years) *
GWQO		***2***	***0.06***	
GW01	7/06/2018	<0.08	0.002	88 years
	15/01/2019	1.36	0.052	
	20/03/2019	0.72	0.054	
	15/04/2019	1.2	0.050	
	14/05/2019	1.36	0.070	
	18/06/2019	1.29	0.039	
	8/07/2019	0.77	0.063	
	15/01/2020	0.81	0.018	
	20/02/2020	0.9	0.025	
	7/07/2020	0.72	0.024	
	10/08/2020	0.42	0.033	
	14/01/2021	1.06	0.062	
	17/02/2021	SNR	0.031	
	15/03/2021	SNR	0.026	
	13/04/2021	SNR	0.025	
	19/05/2021	SNR	0.019	
	16/06/2021	SNR	0.057	
	12/07/2021	0.78	0.053	
	3/08/2021	SNR	0.059	
	14/09/2021	SNR	0.032	
	6/10/2021	SNR	0.063	
	15/12/2021	SNR	0.022	
	15/12/2021	SNR	0.048	
	24/01/2022	0.940	0.027	
	17/02/2022	NS	0.018	
	15/03/2022	NS	0.030	
	28/04/2022	NS	0.063	
	23/05/2022	NS	0.036	
	8/06/2022	NS	0.005	
	12/07/2022	NS	0.031	
	19/07/2022	2.2	0.031	
	23/08/2022	NS	0.041	
	20/09/2022	NS	0.054	
	11/10/2022	NS	0.024	
	22/11/2022	NS	0.019	
	20/12/2022	NS	0.059	
	Rolling median of last eight (8) data points	**1.0**	**0.03**	
	Natural Background (av + 2SD)	**2.29**	**0.067**	

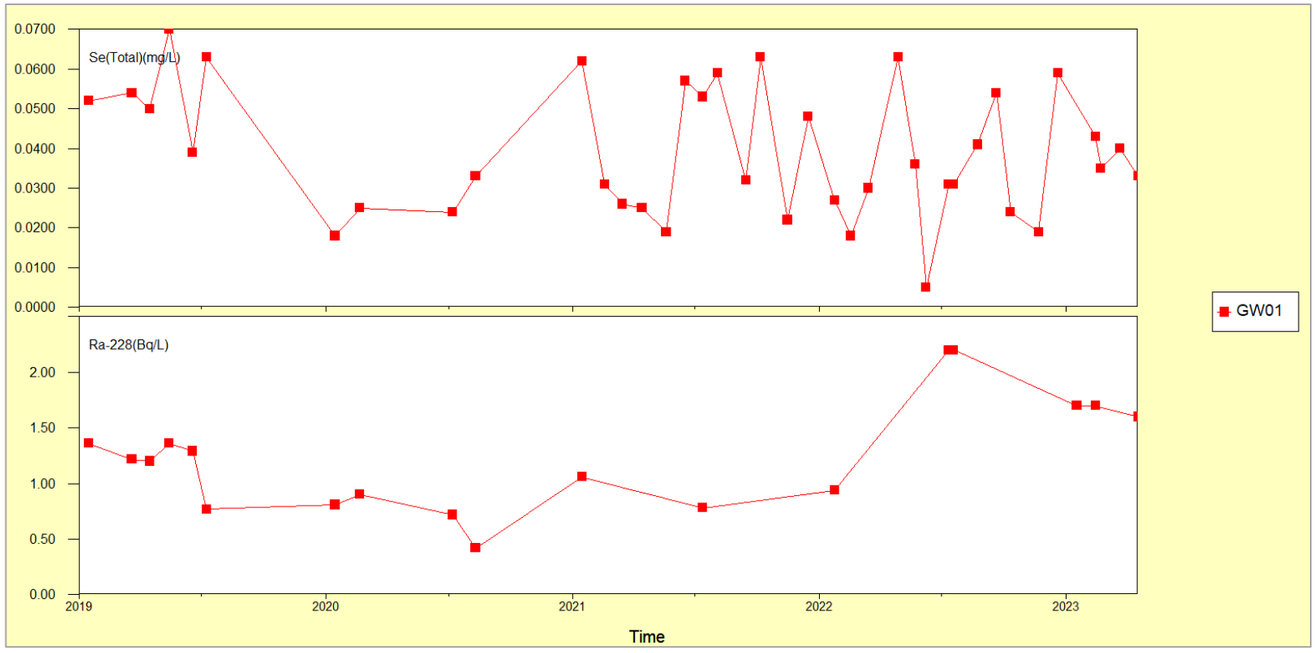


Figure 7: Radium 228 and Se trend for compliance bore GW01 (1 of 2)

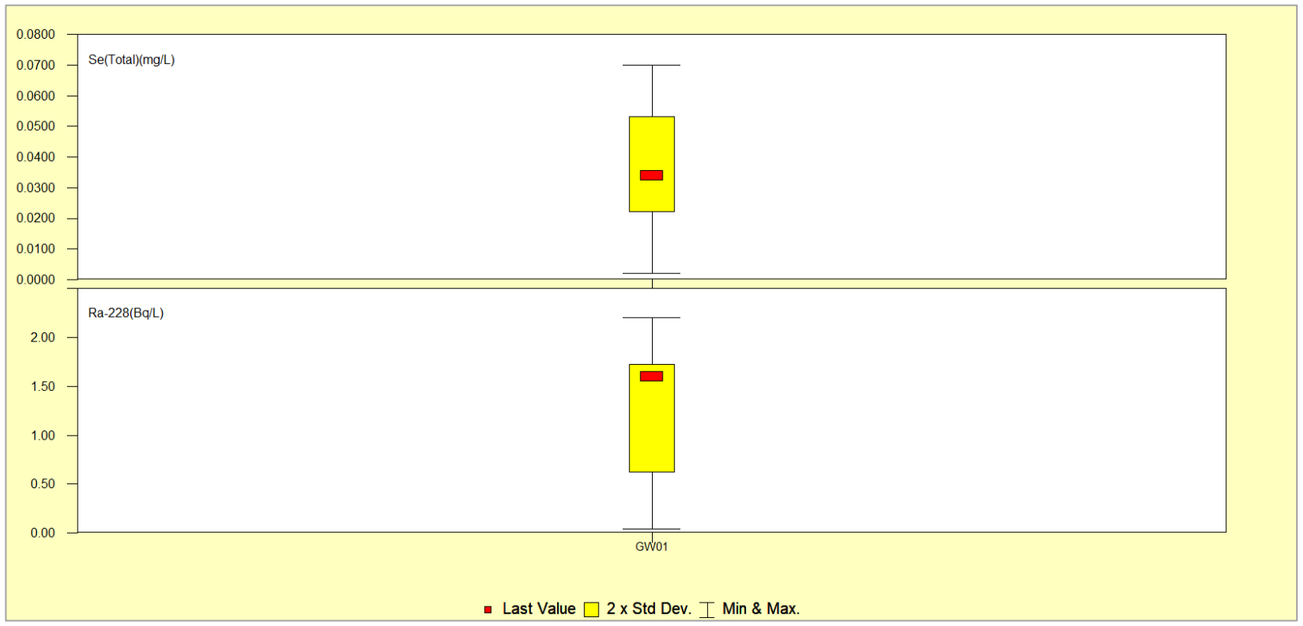


Figure 8: Radium 228 and Se trend for compliance bore GW01 (2 of 2)

4.2 Surface water quality

4.2.1 Run-off fed surface water sites

In accordance with Section 8.4.3.2 of the EMP, surface water samples are required monthly (when available) and/or must be obtained from nominated run-off fed surface water monitoring points if a discharge of run-off water from the disturbed area of Pit 23 and surrounds occurs.

No discharges occurred during the reporting period and subsequently no follow-up monitoring was required, however, opportunistic sampling undertaken from August 2022 at Chadwicks Wetland (DUSW11) reported all surface water quality objectives (SWQOs) as described in Table 22 of the EMP were met. All surfacewater quality monitoring data for the reporting period is provided in **Appendix A** of this report.

4.2.2 Groundwater-fed surface water sites

In accordance with Section 8.4.3.1 of the EMP, monthly surface water samples (when available) obtained from the nominated groundwater-fed surface water monitoring points down-gradient of Pit 23 (i.e. surface water features receiving groundwater base-flow) are analysed for a suite of target parameters to identify the potential expression of Pit 23 groundwater seepage.

As per Section 7.3.2 of the EMP groundwater is dominated by the Na-Cl ion pair whereas the results of laboratory leach tests on MSP by-products show that leachate is dominated by the Ca-SO4 ion pair. Thus, leachate migration would be indicated by a decline in the Cl:SO4 and Na:Ca ratios as the concentrations of sulfate or calcium increases relative to the concentrations of chloride or sodium, respectively.

Surfacewater water quality objectives (SWQOs) as described per Table 22 of the EMP are used to evaluate changes in water chemistry that may be associated with seepage from Pit 23, however, objectives for these ionic ratios are not prescribed in the SEPP (Waters) and the SWQOs for these ratios do not apply as standalone limits to be maintained and are only taken into consideration where they correspond to a simultaneous trend of concern in one or more other analytes. i.e. they are used to confirm the likelihood of a Pit 23 related influence on groundwater quality and expression into surface waters where trends of concern are first observed for other analytes.

Per Section 8.6 of the EMP in the event that an exceedance of one or more SWQOs occurs the following will occur:

- Follow up confirmation sampling and analysis
- Exceedences will be assumed as related to Pit 23 if **all** the below apply:
    - the results of the follow-up sampling and analysis confirms a continued adverse trend/exceedance;
    - the exceedance(s) correspond with a simultaneous trend of concern/exceedance in Cl:SO4 and/or Na:Ca ratios;
    - the results are not consistent with the natural background chemistry at that site (where sufficient depth of data exists to allow this assessment). This recognises that some receptor sites have unique and variable chemistry that may naturally exceed the site-specific SWQOs);
    - similar trends of concern/exceedances are **not** observed in samples obtained from reference/analogue sites as listed in Table 19 of the EMP; and
    - the timing of the above adverse trends/exceedances is less than 90% of that predicted in the hydrogeological model (i.e. seepage from Pit 23 may have arrived at the bore(s) sooner than expected).

Table 5 listed below describes surface water locations and sampling frequency.

Table 5: Surface water monitoring program

Receptor Sites	Frequency
Receptors: Groundwater-fed	
DUSW20 – North-west drainage line DUSW05B – White Lake DUSW24 – McGlashin Swamp	• Monthly; or • During or following an off-site discharge event (creek and drainage lines only)
Receptors: Runoff-fed	
DUSW11 – Chadwicks Wetland DUSW25 – Red Hill drainage line	• Monthly; or • During or following an off-site discharge event (creek and drainage lines only)

Nil exceedences or trends of concern attributable to Pit 23 seepage or mining infuences as per the SWQO's following surfacewater sampling and analysis at groundwater fed receptor locations DUSW24, DUSW05B and DUSW20 were identified during the reporting period.

Sampling results at location DUSW24 in September 2022 show one-off elevated readings for Chromium, Copper, Cobalt and Vanadium, presented in Table 6. Follow up sampling taken in subsequent months showed all samples returned to below SWQO's, showing that the elevated results were outliers.

Sampling results at location DUSW20 between August 2022 and October 2022 showed three consecutive elevated turbidity results; 134 NTU, 42 NTU, 60 NTU. There were no other elevated analyte results for this site.These elevated turbidity results raised the rolling median to 101 NTU which is above the 75th percentile SWQO of 24.2 NTU but remaines within the natural background values. An explanation for elevated turbidity results due to significant storm events that caused elevated runoff to occur. Analyte results for DUSW20 are presented in Table 7 and Figure 9.

All surfacewater quality monitoring data for the reporting period is provided in Appendix A of this report.

Table 6: Surface water location DUSW24 Na:Ca water quality results to 2022.

SiteName	Sample Date	Na:Ca	Cl:SO4	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	V (mg/L)
SWQO's	***Two (2) consecutive data-points > objective***	*<4.76*	*<1.84*	*0.038*	*0.008*	*0.022*	*0.11*
DUSW24	19/01/2017	3.74	312	0.001	0.001	0.001	NS
	26/06/2017	4.94	66.25	0.001	0.001	0.001	0.008
	12/09/2017	5.32	13.16	0.002	0.001	0.002	0.008
	11/10/2017	5.22	11.52	0.001	0.001	0.001	0.009
	15/01/2018	16.43	14.26	0.001	0.001	0.003	0.008
	9/04/2018	20.97	42.31	0.001	0.001	0.002	0.008
	19/06/2018	18.18	36.84	0.001	NS	0.002	NS
	17/07/2018	20	30.43	0.001	0.001	0.001	0.014
	14/08/2018	17.46	26.39	0.001	0.001	0.001	0.005
	12/09/2018	18.31	22.47	0.001	0.001	0.003	0.006
	17/10/2018	16.3	20.77	0.002	0.001	0.002	0.008
	1/11/2018	18	23.85	0.002	0.001	0.001	0.009
	14/08/2019	7.04	4.02	0.004	0.001	0.003	0.008
	16/09/2019	7.88	4.9	0.001	0.001	0.003	0.005
	17/09/2020	8.24	5.33	0.001	0.001	0.008	0.007
	13/10/2020	8.33	4.58	0.002	0.001	0.004	0.003
	4/08/2021	1.32	1.03	0.001	0.001	0.004	0.002
	15/09/2021	6.88	2.89	0.001	0.001	0.002	0.005
	5/10/2021	8.13	4.04	0.001	0.001	0.003	0.008
	23/11/2021	DRY	DRY	DRY	DRY	DRY	DRY
	27/09/2022	3.33	10	0.37	0.36	0.37	0.36
	12/10/2022	4.15	12.22	0.009	0.001	0.003	0.007
	7/11/2022	4.59	13.33	0.008	0.002	0.003	0.009
	19/12/2022	4.36	14.38	0.003	0.001	0.003	0.01
	Rolling median of last eight (8) data-points	4.47	7.29	0.0025	0.001	0.003	0.0075
	Natural Background (av + 2SD)	*10.02*	*18.3*	*0.309*	*0.30*	*0.308*	*0.301*

NS= No sample

Table 7: Surface water location DUSW20 turbidity results to 2022.

SiteName	Sample Date	Turbidity NTU
SWQO's	***Two (2) consecutive data-points > objective***	***-***
DUSW20	20/07/2017	72
	31/07/2017	44
	17/08/2017	171
	24/08/2017	103
	5/09/2017	50
	12/09/2017	61
	11/10/2017	22
	8/08/2018	68
	14/08/2019	227
	14/09/2020	164
	8/10/2020	59
	3/08/2021	151
	30/08/2022	134
	27/09/2022	42
	13/10/2022	60
	Rolling median of last eight (8) data-points	*101*
	Natural Background (av + 2SD)	*244.59*

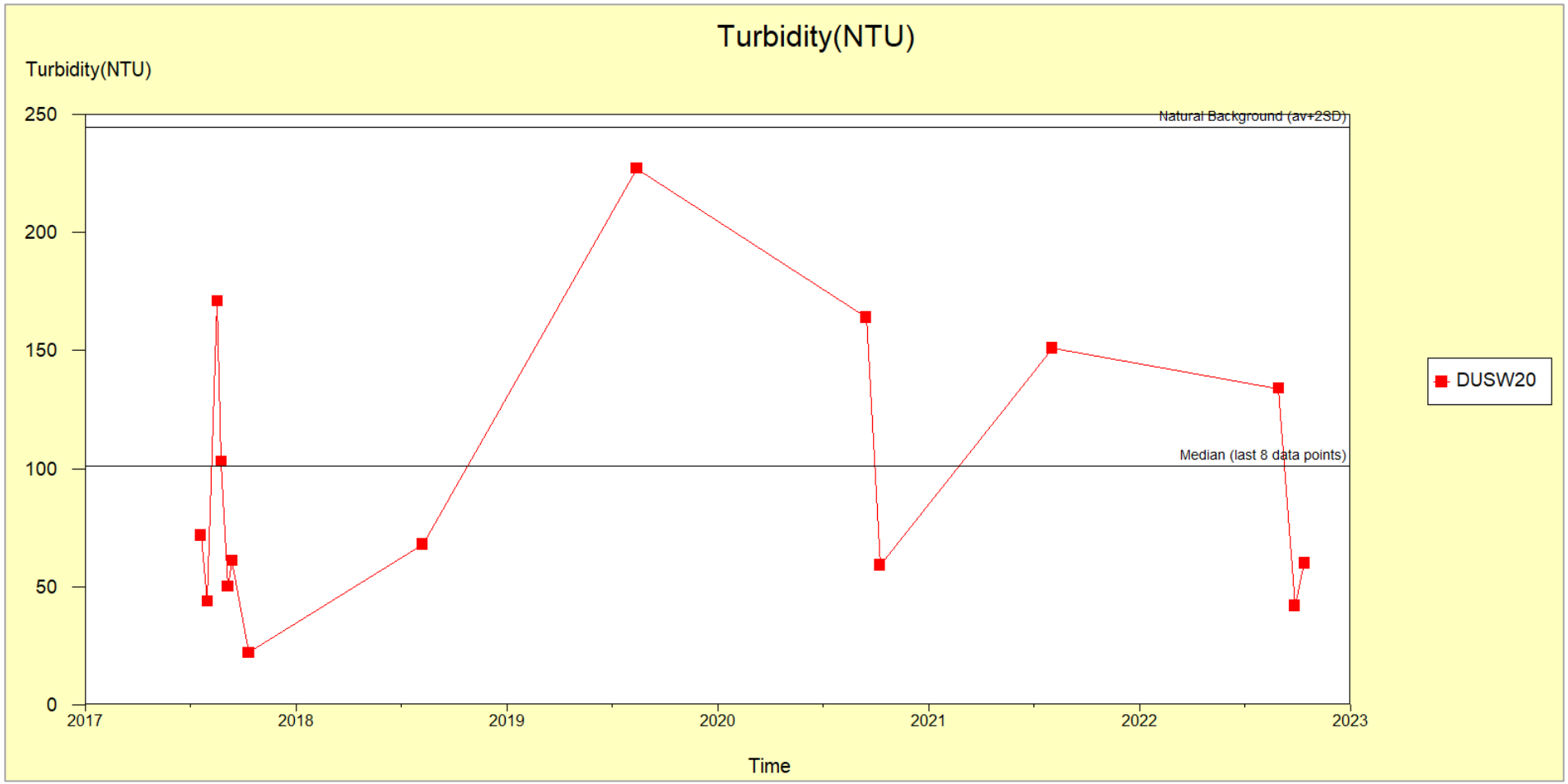


Figure 9: Surface water location DUSW20 turbidity trend from 2017 to 2022.

4.3 Noise

In accordance with Section 10.1.4 of the endorsed EMP, noise level measurements will be undertaken in the unlikely event that noise complaints are received.

No noise related complaints were received during the reporting period, and hence no noise levels measurements were undertaken.

4.4 Weeds

No Weeds of national significance were identified during the reporting period.

4.5 Vehicle Hygiene

No incidents were identified during the reporting period.

4.6 Public Safety

No breaches of the security perimeter ocurred during the reporting period.

4.7 PM_{10} concentrations in air

In accordance with Sections 9.6 and 10.1.4 of the endorsed EMP, the concentration of PM_{10} dust in air at the Lyon's and Chadwick's residences is measured using high volume ('hi-vol') air samplers on a one-in-six day monitoring cycle. The location of these hi-vol air samplers relative to Pit 23 are shown in Figure **11**.

12-month rolling results for PM_{10} compared to daily rainfall are shown in Figure 10. Results adhere to the expected year-on-year pattern of lower airborne PM_{10} concentrations in winter months.

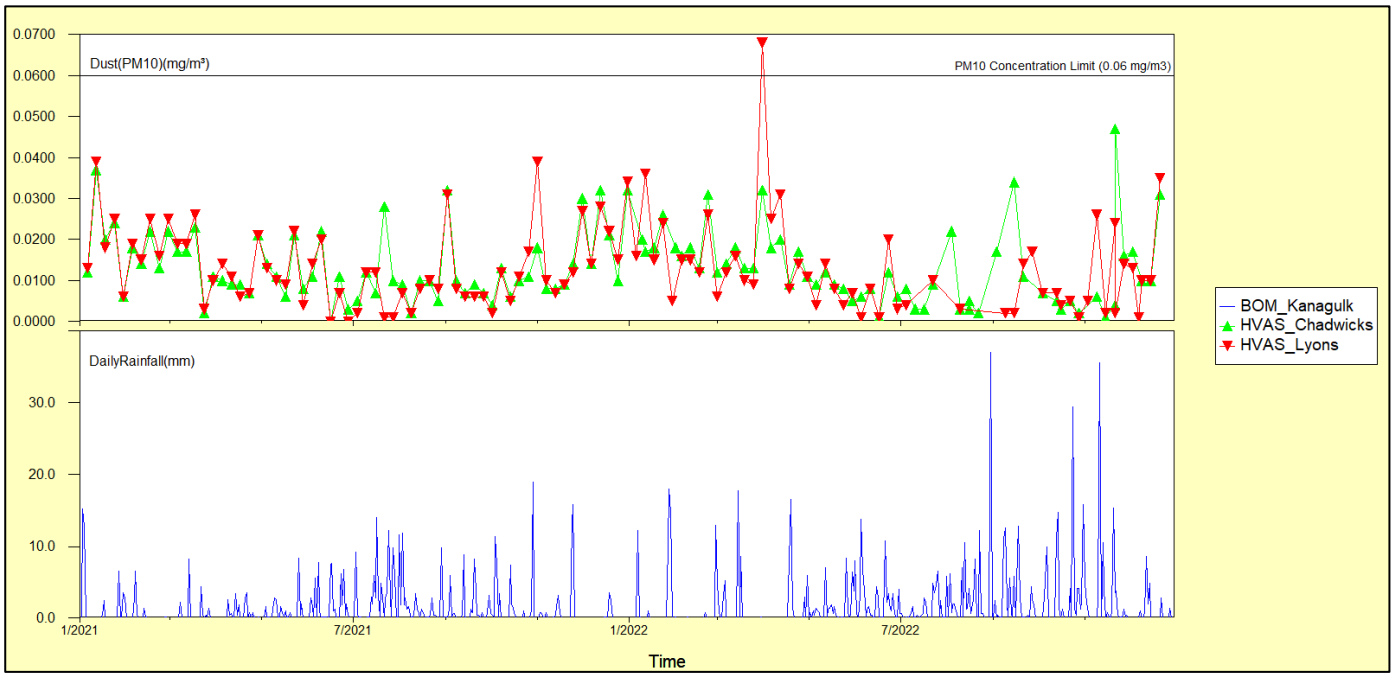


Figure 10. PM_{10} dust concentrations at neighbouring residences vs. daily rainfall.

There was one result of above the PM_{10} concentration limit (0.06 mg/m^3) of 0.065 mg/m3 was recorded on 30th March 2022 at the Lyons monitoring location. This high reading could be due to the extensive burning off that occurred in March.

Figure 11. Pit 23 air quality (PM10) monitoring locations.

4.8 Radiation monitoring – other

It is a requirement of the Iluka Radiation Management Licence 300042022 that works relating to the minerals sands by-product disposal into Pit 23 are conducted in accordance with a Radiation Management Plan (RMP) and a Radioactive Waste Management Plan (RWMP), including the monitoring programs under those plans, to ensure that radiation doses are below the prescribed limit.

Radiation monitoring relevant to this performance report includes:

- Radon concentrations in air;
- Gross alpha activity concentration of airborne dust; and
- Radionuclide concentrations in groundwater and surface water.

Results for radon concentrations in air and gross alpha activity concentration of airborne dust are detailed below. Results for radionuclides in groundwater and surface water are detailed in Sections **4.1** and **4.2** respectively.

4.8.1 Air Radon and Thoron Concentrations

Monitoring of radon concentrations in air is undertaken at four locations within Pit 23 and at two residences east of Pit 23 (Chadwick's) and south of Pit 23 (Rises). Radon monitoring is undertaken using Rapidos High Sensitivity ("Rapidos HS") radon detectors and thoron monitoring is undertaken using Landauer Thoron Progeny Detectors (Figure **11**).

New high-sensitivity thoron detectors from Landauer were installed at the start of 2021 to replace the Radtrak2 detectors. The new thoron progeny meters have a lower detectable limit of ~0.5 Bq/m^3 compared with the previous Radtrak2 detectors that had a higher detetection limit of 30 Bq/m^3.

Radon and Thoron monitoring results for the reporting period are presented in
Table 8 and Table 9, and also in Figure 13 and Figure 14.

All measured radon and thoron levels up until 2022 were well below the reportable levels.

Figure 12: Thoron and Radon detectors.

Table 8: Radon concentrations within Pit 23 to 2022.

Location	Radon concentration in air (Bq/m^3)								
	Reportable level	Jan21 To Mar21	Apr21 To Jun21	Jul21 To Sep21	Oct21 To Dec21	Jan22 To Mar22	Apr22 To Jun22	Jul22 To Sep22	Oct22 To Dec22
Pit 23 East	**100**	<4	7 ± 6	<8	<7	<6	<10	<6	<8
Pit 23 North	**100**	<4	<7	<5	<7	4 ± 3	<9	<6	<8
Pit 23 West	**100**	<4	<7	<8	15 ± 7	<6	<10	8 ± 6	<8
Pit 23 South	**100**	<4	8 ± 6	<8	<7	4 ± 3	<9	<6	<8
Chadwick's	**100**	<4	8 ± 6	<5	<8	4 ± 3	<10	<6	<8
Rises	**100**	<4	9 ± 6	5 ± 4	<8	<7	11 ± 8	<6	<8

Table 9: Thoron concentrations within Pit 23 to 2022.

Location	**Thoron concentration in air (Bq/m^3)**								
	Reportable level	Jan21 To Mar21	Apr21 To Jun21	Jul21 To Sep21	Oct21 To Dec21	Jan22 To Mar22	Apr22 To Jun22	Jul22 To Sep22	Oct22 To Dec22
Pit 23 East	**1000**	4.17 ± 0.38	139 ± 2.9	4.4 ± 1.3	NR	7.2 ± 2.0	2.4 ± 2.1	<1.6	<2.4
Pit 23 North	**1000**	4.63 ± 0.39	2.1 ± 0.5	4.6 ± 1.4	NR	6.2 ± 2.0	2.7 ± 2.2	<1.5	<2.0
Pit 23 West	**1000**	5.03 ± 0.4	2.1 ± 0.5	3.6 ± 1.3	NR	6.2 ± 2.0	10 ± 2.6	<1.6	2.1 ± 1.6
Pit 23 South	**1000**	6.25 ± 0.42	4.0 ± 0.6	9.0 ± 1.8	NR	5.0 ± 1.9	8.6 ± 2.5	3.2 ± 1.7	6.0 ± 2.7
Chadwick's	**1000**	5.12 ± 0.4	1.6 ± 0.47	2.5 ± 1.1	NR	3.2 ± 1.8	3.2 ± 2.2	<1.6	<3.6
Rises	**1000**	1.55 ± 0.32	1.9 ± 0.49	1.7 ± 0.98	NR	1.7 ± 1.6	<2.0	<1.5	1.4 ± 0.68
NR = No Result – due to detectors lost/damaged during transit									

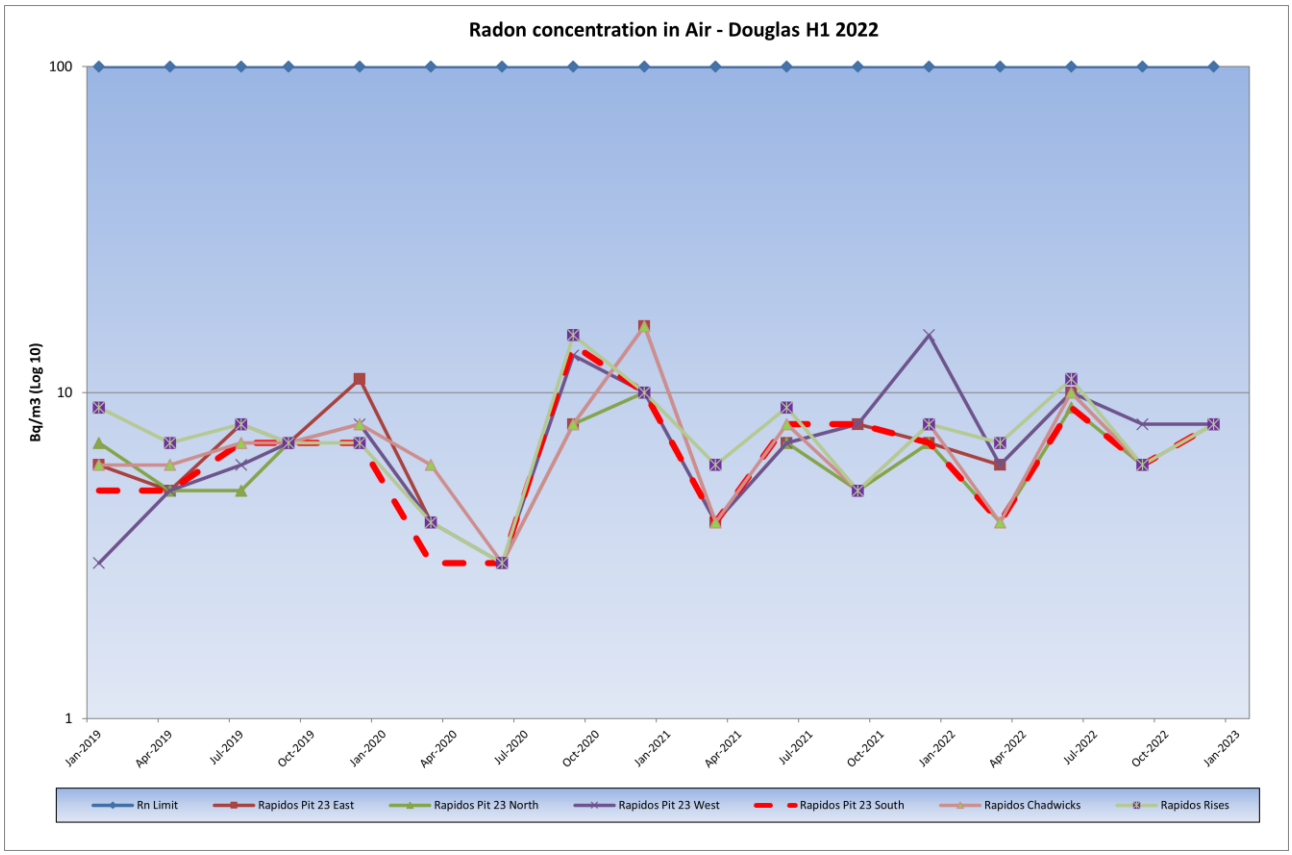


Figure 13: Radon concentration results for 2022.

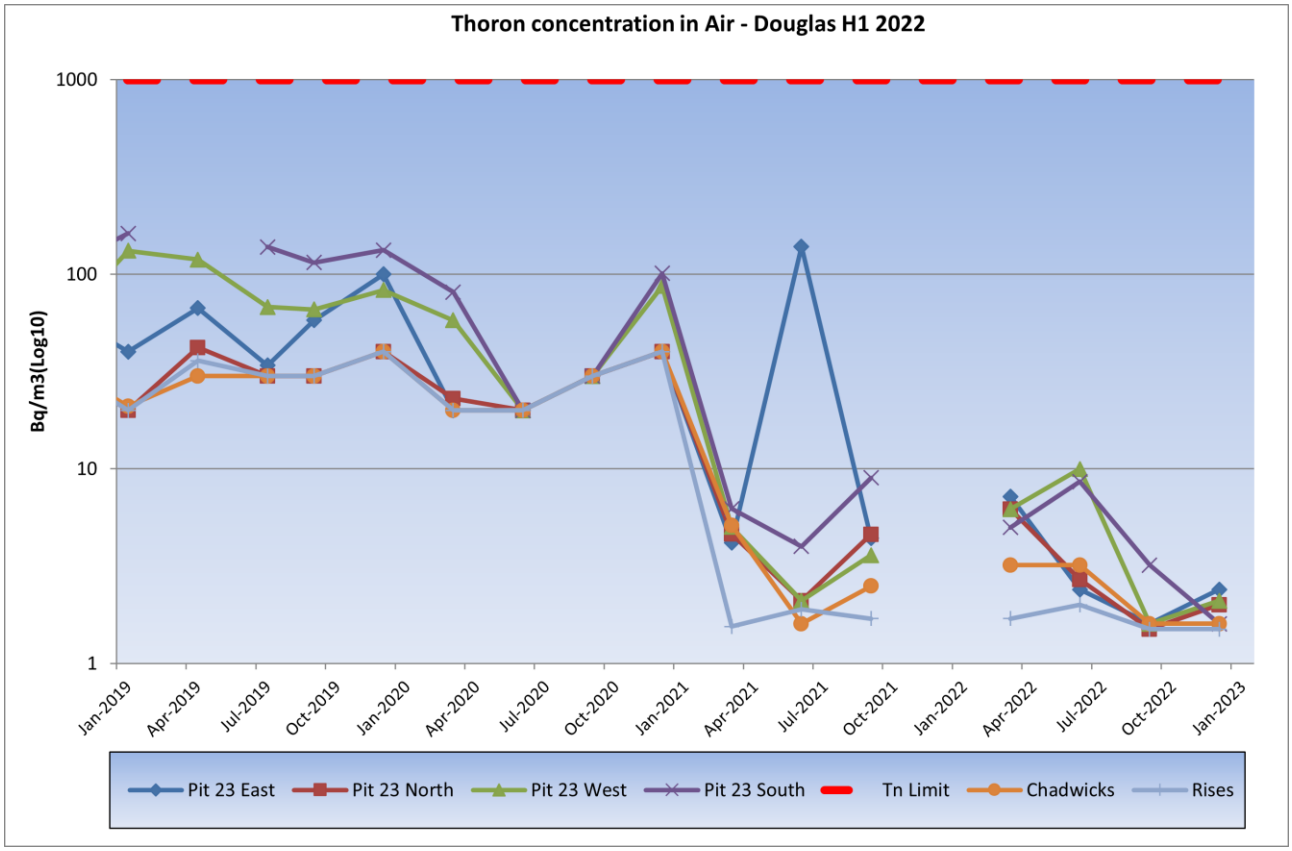


Figure 14: Thoron concentration results for 2022.

4.8.2 Gross alpha concentrations in airborne dust

As noted in Section 4.7, sampling for airborne particulates in PM_{10} dust is conducted using high volume (hi-vol) air samplers located at the Chadwick's and Lyons residences (see Figure **11**).

On a quarterly basis hi-vol units are run at the Lyons and Rises residences for a continuous 96 hour period for purposes of monitoring gross alpha concentration in air, which represents a total air sample volume of approximately 6,000 m^3. The filters are weighed to determine the total dust loading in mg/m^3 and then analysed for gross alpha activity expressed as millibequerels/m^3 (mBq/m^3).

The results for the monitoring period are in line with historical values and are shown in Table 10 and Figure **15**.

Table 10: Gross Alpha radiation in PM_{10} dust.

Location	Run Date	Sample / Filter No.	Air Volume (m^3)	Activity Conc (mBq/m^3)
Chadwick's	27/08/2021	150121GF34	6149	0.17
Lyon's	27/08/2021	150121GF33	6159	0.18
Rises	27/08/2021	150121GF32	6108	0.20
Chadwick's	7/11/2021	060921GF7	6051	0.08
Lyon's	7/11/2021	060921GF6	6052	0.08
Rises	26/11/2021	060921GF14	6009	0.10
Chadwick's	6/4/2022	060921GF62	5966	0.212
Lyon's	6/4/2022	060921GF63	5998	0.138
Rises	6/4/2022	160522GF52	6259	0.209
Chadwick's	14/6/2022	060921GF33	5747	0.353
Lyon's	14/6/2022	060921GF27	5799	0.487
Rises	14/6/2022	060921GF57	6002	0.035
Chadwick's	2/8/2022	060921GF96	6230	0.135
Lyon's	2/8/2022	060921GF97	5323	0.143
Rises	2/8/2022	060921GF98	6220	0.148
Chadwick's	13/10/2022	160522GF30	6060	0.237
Lyon's	13/10/2022	160522GF29	6091	0.348
Rises	13/10/2022	160522GF31	6127	0.344

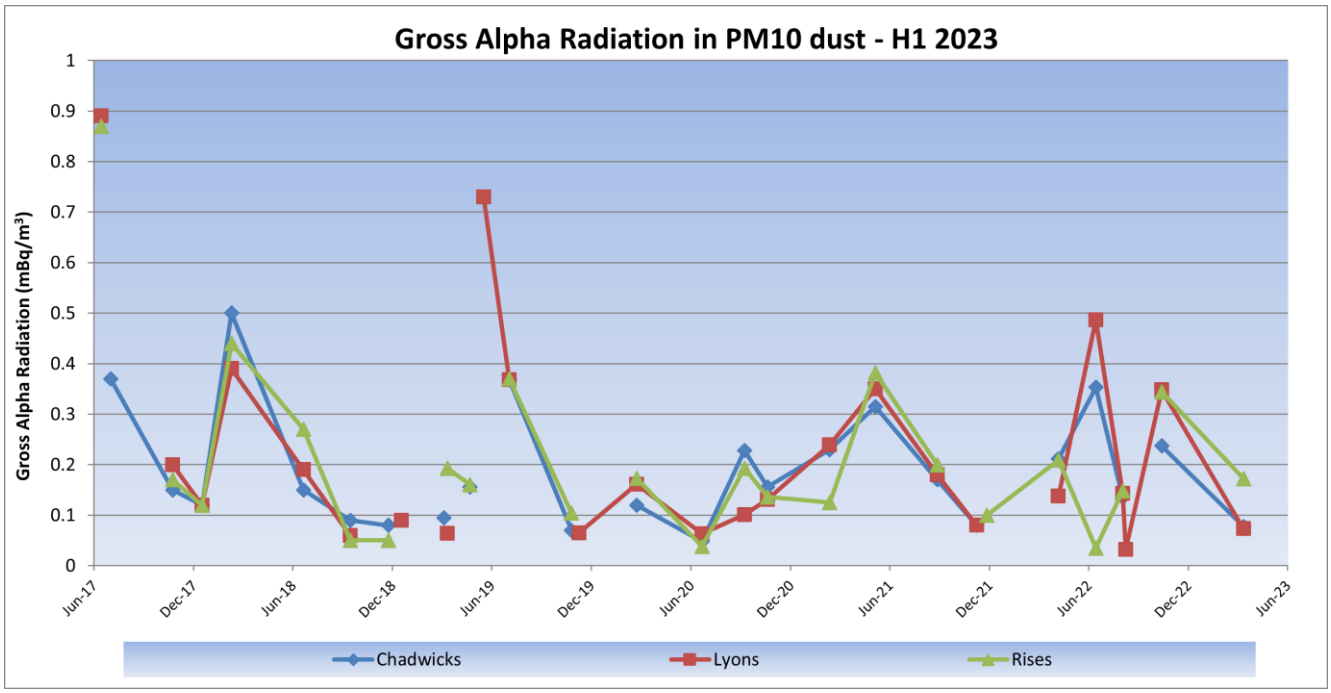


Figure 15: Gross Alpha Radiation in PM10 Dust for 2022.

5 Management Actions

5.1 Groundwater model review and recalibration

Preliminary findings of the 2019 groundwater model update were presented to the Responsible Authority and Pit 23 Technical Reference Group (TRG) by Iluka and EMM Consulting personnel at a meeting held at the HRCC Council Chambers on 23rd May 2019. The final modelling report was completed and provided to the Responsible Authority in Q3 2019.

This modelling was used to validate existing model predictions on the groundwater flow path and groundwater flow rates from the Pit 23 facility, and to inform updates to groundwater-related content of the Pit 23 Environmental Management Plan (EMP, Rev 5.1).

Section 7.5.8 of the endorsed EMP outlines the drivers that will trigger a review and recalibration of the hydrogeological model.

5.2 Maximum surface level of disposed materials in Pit 23

In accordance with Section 12.1 of the EMP, the maximum elevation of the upper surface of materials disposed of at the end of the reporting period must be reported.

The Pit 23 void consists of an upper and lower disposal area; no MSP wastes were disposed into Pit 23 during the 2022 reporting period.

Accordingly, as rehabilitation earthworks recommeced within Pit 23, the upper surface of material deposited in Pit 23 (i.e. the elevation of capped material in the upper disposal area) was raised to 196 mAHD.

5.3 Non-compliances

No non-compliances occurred during the reporting period.

5.4 Comments and complaints received

No complaints or comments were received during the 2022 reporting period.

5.5 2022 Completed Actions

The following actions were completed during to 2022:

- Review of the Pit 23 Risk Register; and
- Completion of the biennial geotechnical audit of Pit 23 in November 2021.

5.6 2023 Proposed Actions

The following actions are planned for 2023:

- Implementation of the ongoing monitoring requirements as per the EMP (Revision 5.1);
- Continued rehabilitation works ;
- Review of the Pit 23 Risk Register;
- Completion of the biennial geotechnical audit of Pit 23; and

Review of the EMP

5.7 Other matters

5.7.1 Geotechnical audit

In accordance with Section 10.4.4.5 of the EMP, geotechnical audits are completed on a biennial basis with the last audit completed in November 2021 (AMC Consultants, 2021).

An audit has been scheduled to be completed by AMC Consultants in November 2023.

5.7.2 Pit 23 Risk Register annual review

Per Section 6 of the EMP, the Pit 23 Risk Analysis and Response Plan (RARP) was developed by AECOM Australia Pty Ltd who recommended that the Pit 23 Risk Register (contained as Appendix A of the RARP) be reviewed annually at the time when EMP and Rehabilitation Performance Reports are developed.

A review of the Pit 23 RARP risk register was undertaken in November 2022 with the register's next review scheduled scheduled to be completed in H2 2023.

6 References

ANZECC/ARMCANZ (2000) *National Water Quality Management Strategy: Australian and New Zealand Guidelines for Fresh and Marine Water Quality.* Australian and New Zealand Environment and Conservation Council and Agricultural and Resource Management Council of Australia and New Zealand, Canberra, Australian Capital Territory, October 2000.

AMC Consultants (2021) Douglas Mine Pit 23 Geotechnical Audit & Risk Assessment, 3rd December 2020.

CDM Smith (2014) Douglas Mine Site Hydrogeological Modelling. Completed on behalf of Iluka Resources, November 2014

CDM Smith (2015) Douglas Mine – Particle Tracking of Seepage Water. Completed on behalf of Iluka Resources, February 2015

EMM (2018) Pit 23 Groundwater – Assessment of Seepage Indicator Exceedances, November 2018 (Report S180265, Rev 2 Final), issued for Iluka Resources Ltd

EMM (2019) *Groundwater Model Update and Predictive Scenario Modelling – Douglas Mine*. Prepared by EMM Consulting for Iluka Resources Ltd, September 2019.

EES (2016) *Independent Desktop Review For The Continuation Of Mineral By-Products Disposal Into Pit 23 At Iluka's Douglas Mine Site, Northwest Victoria No. 215071v2 dated April 2016.* Prepared by Environmental Earth Sciences, Melbourne, Victoria. (TRIM T18729).

Water Technology (2017) Douglas Mine Surface Water Management System Modelling – Methodology and Results Report, April 2017 (v0.4_Final)

Water Technology (2018) Rainfall Analysis and Model Update, Douglas Mine – Surface Water Management System Modelling, February 2018.

Water Technology (2023) Douglas Mine Catchment Modelling Update: Douglas Mine Catchment Modelling Surface Water Management System Modelling, April 2023.

7 Appendices

Appendix A: Monitoring Data – Surface Water

Variable	Unit	Sample Point	Date	Result
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	0.7
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	0.2
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	0.4
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	0.1
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	0.1
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW20	30/08/2022	3.3
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW11	31/08/2022	3.4
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	34.0
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW20	27/09/2022	1.8
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW24	27/09/2022	0.8
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	5.5
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW24	12/10/2022	2.2
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW20	13/10/2022	1.5
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	14.0
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW24	7/11/2022	4.0
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	18.0
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW11	19/12/2022	1.4
Aluminium (Total)	mg/L	DG_A_I_SW_DUSW24	19/12/2022	2.1
Boron (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	3.4
Boron (Total)	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	2.6
Boron (Total)	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	1.9
Boron (Total)	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	2.4
Boron (Total)	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	1.3
Boron (Total)	mg/L	DG_A_I_SW_DUSW20	30/08/2022	0.1
Boron (Total)	mg/L	DG_A_I_SW_DUSW11	31/08/2022	0.1
Boron (Total)	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	1.6
Boron (Total)	mg/L	DG_A_I_SW_DUSW20	27/09/2022	0.1
Boron (Total)	mg/L	DG_A_I_SW_DUSW24	27/09/2022	0.5
Boron (Total)	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	0.9
Boron (Total)	mg/L	DG_A_I_SW_DUSW24	12/10/2022	0.5
Boron (Total)	mg/L	DG_A_I_SW_DUSW20	13/10/2022	0.1
Boron (Total)	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	0.8
Boron (Total)	mg/L	DG_A_I_SW_DUSW24	7/11/2022	0.3
Boron (Total)	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	1.4
Boron (Total)	mg/L	DG_A_I_SW_DUSW11	19/12/2022	0.1
Boron (Total)	mg/L	DG_A_I_SW_DUSW24	19/12/2022	0.4
Calcium	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	810
Calcium	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	1100
Calcium	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	1500
Calcium	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	1700
Calcium	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	1300
Calcium	mg/L	DG_A_I_SW_DUSW20	30/08/2022	10.0
Calcium	mg/L	DG_A_I_SW_DUSW11	31/08/2022	8.2
Calcium	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	940
Calcium	mg/L	DG_A_I_SW_DUSW20	27/09/2022	36.0
Calcium	mg/L	DG_A_I_SW_DUSW24	27/09/2022	51
Calcium	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	770
Calcium	mg/L	DG_A_I_SW_DUSW24	12/10/2022	53
Calcium	mg/L	DG_A_I_SW_DUSW20	13/10/2022	5.8
Calcium	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	540
Calcium	mg/L	DG_A_I_SW_DUSW24	7/11/2022	37
Calcium	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	780
Calcium	mg/L	DG_A_I_SW_DUSW24	19/12/2022	39

Variable	Unit	Sample Point	Date	Result
Chloride	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	180000
Chloride	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	170000
Chloride	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	89000
Chloride	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	86000
Chloride	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	63000
Chloride	mg/L	DG_A_I_SW_DUSW20	30/08/2022	93.0
Chloride	mg/L	DG_A_I_SW_DUSW11	31/08/2022	4.4
Chloride	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	40000
Chloride	mg/L	DG_A_I_SW_DUSW20	27/09/2022	510.0
Chloride	mg/L	DG_A_I_SW_DUSW24	27/09/2022	260
Chloride	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	29000
Chloride	mg/L	DG_A_I_SW_DUSW24	12/10/2022	330
Chloride	mg/L	DG_A_I_SW_DUSW20	13/10/2022	410.0
Chloride	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	20000
Chloride	mg/L	DG_A_I_SW_DUSW24	7/11/2022	240
Chloride	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	29000
Chloride	mg/L	DG_A_I_SW_DUSW24	19/12/2022	230
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW05B	28/04/2022	25.7
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW05B	24/05/2022	23.6
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW05B	7/06/2022	15.9
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW05B	27/07/2022	13.0
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW05B	18/08/2022	11.9
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW20	30/08/2022	7.2
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW11	31/08/2022	0.55
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW05B	27/09/2022	12.1
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW20	27/09/2022	7.5
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW24	27/09/2022	10
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW05B	12/10/2022	12.6
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW24	12/10/2022	12.22
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW20	13/10/2022	9.53
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW05B	7/11/2022	11.8
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW24	7/11/2022	13.33
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW05B	19/12/2022	10.7
Chloride:Sulfate Ratio		DG_A_I_SW_DUSW24	19/12/2022	14.38
Chromium (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	*0.001*
Chromium (Total)	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	*0.001*
Chromium (Total)	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	*0.001*
Chromium (Total)	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	*0.001*
Chromium (Total)	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	*0.001*
Chromium (Total)	mg/L	DG_A_I_SW_DUSW20	30/08/2022	0.002
Chromium (Total)	mg/L	DG_A_I_SW_DUSW11	31/08/2022	0.002
Chromium (Total)	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	0.034
Chromium (Total)	mg/L	DG_A_I_SW_DUSW20	27/09/2022	0.006
Chromium (Total)	mg/L	DG_A_I_SW_DUSW24	27/09/2022	0.37
Chromium (Total)	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	0.012
Chromium (Total)	mg/L	DG_A_I_SW_DUSW24	12/10/2022	0.009
Chromium (Total)	mg/L	DG_A_I_SW_DUSW20	13/10/2022	0.003
Chromium (Total)	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	0.015
Chromium (Total)	mg/L	DG_A_I_SW_DUSW24	7/11/2022	0.008
Chromium (Total)	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	0.018
Chromium (Total)	mg/L	DG_A_I_SW_DUSW11	19/12/2022	0.002
Chromium (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	0.003
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	*0.001*
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	*0.001*
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	*0.001*
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	*0.001*
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	0.001
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW20	30/08/2022	*0.001*

Variable	Unit	Sample Point	Date	Result
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW11	31/08/2022	*0.001*
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	0.008
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW20	27/09/2022	0.001
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW24	27/09/2022	0.36
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	0.003
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW24	12/10/2022	*0.001*
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW20	13/10/2022	0.002
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	0.004
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW24	7/11/2022	0.002
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	0.005
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW11	19/12/2022	0.005
Cobalt (Total)	mg/L	DG_A_I_SW_DUSW24	19/12/2022	*0.001*
Copper (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	*0.001*
Copper (Total)	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	0.002
Copper (Total)	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	0.003
Copper (Total)	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	*0.001*
Copper (Total)	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	0.002
Copper (Total)	mg/L	DG_A_I_SW_DUSW20	30/08/2022	0.005
Copper (Total)	mg/L	DG_A_I_SW_DUSW11	31/08/2022	0.004
Copper (Total)	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	0.018
Copper (Total)	mg/L	DG_A_I_SW_DUSW20	27/09/2022	0.004
Copper (Total)	mg/L	DG_A_I_SW_DUSW24	27/09/2022	0.37
Copper (Total)	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	0.008
Copper (Total)	mg/L	DG_A_I_SW_DUSW24	12/10/2022	0.003
Copper (Total)	mg/L	DG_A_I_SW_DUSW20	13/10/2022	0.002
Copper (Total)	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	0.016
Copper (Total)	mg/L	DG_A_I_SW_DUSW24	7/11/2022	0.003
Copper (Total)	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	0.015
Copper (Total)	mg/L	DG_A_I_SW_DUSW11	19/12/2022	0.003
Copper (Total)	mg/L	DG_A_I_SW_DUSW24	19/12/2022	0.003
Dissolved Oxygen	%	DG_A_I_SW_DUSW05B	28/04/2022	33
Dissolved Oxygen	%	DG_A_I_SW_DUSW05B	24/05/2022	109
Dissolved Oxygen	%	DG_A_I_SW_DUSW05B	7/06/2022	107
Dissolved Oxygen	%	DG_A_I_SW_DUSW05B	27/07/2022	152
Dissolved Oxygen	%	DG_A_I_SW_DUSW05B	18/08/2022	112
Dissolved Oxygen	%	DG_A_I_SW_DUSW20	30/08/2022	96.000
Dissolved Oxygen	%	DG_A_I_SW_DUSW11	31/08/2022	65
Dissolved Oxygen	%	DG_A_I_SW_DUSW05B	27/09/2022	4.6
Dissolved Oxygen	%	DG_A_I_SW_DUSW20	27/09/2022	10.400
Dissolved Oxygen	%	DG_A_I_SW_DUSW24	27/09/2022	1.2
Dissolved Oxygen	%	DG_A_I_SW_DUSW05B	12/10/2022	5.8
Dissolved Oxygen	%	DG_A_I_SW_DUSW24	12/10/2022	0.5
Dissolved Oxygen	%	DG_A_I_SW_DUSW20	13/10/2022	8.800
Dissolved Oxygen	%	DG_A_I_SW_DUSW05B	7/11/2022	1.1
Dissolved Oxygen	%	DG_A_I_SW_DUSW24	7/11/2022	0.5
Dissolved Oxygen	%	DG_A_I_SW_DUSW05B	19/12/2022	1.6
Dissolved Oxygen	%	DG_A_I_SW_DUSW11	19/12/2022	81
Dissolved Oxygen	%	DG_A_I_SW_DUSW24	19/12/2022	4
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW05B	28/04/2022	250000
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW05B	24/05/2022	240000
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW05B	7/06/2022	190000
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW05B	27/07/2022	180000
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW05B	18/08/2022	140000
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW20	30/08/2022	467
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW11	31/08/2022	124
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW05B	27/09/2022	98590
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW20	27/09/2022	1900
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW24	27/09/2022	1291

Variable	Unit	Sample Point	Date	Result
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW05B	12/10/2022	70469
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW24	12/10/2022	1544
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW20	13/10/2022	17000
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW05B	7/11/2022	55545
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW24	7/11/2022	1266
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW05B	19/12/2022	74724
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW11	19/12/2022	470
Electrical Conductivity	µS/cm	DG_A_I_SW_DUSW24	19/12/2022	1206
Iron (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	0.6
Iron (Total)	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	0.1
Iron (Total)	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	0.3
Iron (Total)	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	0.0
Iron (Total)	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	0.2
Iron (Total)	mg/L	DG_A_I_SW_DUSW20	30/08/2022	3.6
Iron (Total)	mg/L	DG_A_I_SW_DUSW11	31/08/2022	3.5
Iron (Total)	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	25.0
Iron (Total)	mg/L	DG_A_I_SW_DUSW20	27/09/2022	2.8
Iron (Total)	mg/L	DG_A_I_SW_DUSW24	27/09/2022	0.9
Iron (Total)	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	4.6
Iron (Total)	mg/L	DG_A_I_SW_DUSW24	12/10/2022	2.5
Iron (Total)	mg/L	DG_A_I_SW_DUSW20	13/10/2022	3.2
Iron (Total)	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	13.0
Iron (Total)	mg/L	DG_A_I_SW_DUSW24	7/11/2022	4.3
Iron (Total)	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	15.0
Iron (Total)	mg/L	DG_A_I_SW_DUSW11	19/12/2022	10.0
Iron (Total)	mg/L	DG_A_I_SW_DUSW24	19/12/2022	2.7
Lead (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	*0.001*
Lead (Total)	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	0.055
Lead (Total)	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	0.33
Lead (Total)	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	0.03
Lead (Total)	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	0.19
Lead (Total)	mg/L	DG_A_I_SW_DUSW20	30/08/2022	0.002
Lead (Total)	mg/L	DG_A_I_SW_DUSW11	31/08/2022	0.002
Lead (Total)	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	25
Lead (Total)	mg/L	DG_A_I_SW_DUSW20	27/09/2022	0.002
Lead (Total)	mg/L	DG_A_I_SW_DUSW24	27/09/2022	0.41
Lead (Total)	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	4.6
Lead (Total)	mg/L	DG_A_I_SW_DUSW24	12/10/2022	*0.001*
Lead (Total)	mg/L	DG_A_I_SW_DUSW20	13/10/2022	0.002
Lead (Total)	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	13
Lead (Total)	mg/L	DG_A_I_SW_DUSW24	7/11/2022	0.002
Lead (Total)	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	15
Lead (Total)	mg/L	DG_A_I_SW_DUSW11	19/12/2022	0.004
Lead (Total)	mg/L	DG_A_I_SW_DUSW24	19/12/2022	*0.001*
Na:Ca Ratio		DG_A_I_SW_DUSW05B	28/04/2022	148.1
Na:Ca Ratio		DG_A_I_SW_DUSW05B	24/05/2022	90.9
Na:Ca Ratio		DG_A_I_SW_DUSW05B	7/06/2022	38.0
Na:Ca Ratio		DG_A_I_SW_DUSW05B	27/07/2022	29.4
Na:Ca Ratio		DG_A_I_SW_DUSW05B	18/08/2022	29.2
Na:Ca Ratio		DG_A_I_SW_DUSW20	30/08/2022	9.3
Na:Ca Ratio		DG_A_I_SW_DUSW11	31/08/2022	1.2
Na:Ca Ratio		DG_A_I_SW_DUSW05B	27/09/2022	23.4
Na:Ca Ratio		DG_A_I_SW_DUSW20	27/09/2022	8.06
Na:Ca Ratio		DG_A_I_SW_DUSW24	27/09/2022	3.33
Na:Ca Ratio		DG_A_I_SW_DUSW05B	12/10/2022	20.8
Na:Ca Ratio		DG_A_I_SW_DUSW24	12/10/2022	4.15
Na:Ca Ratio		DG_A_I_SW_DUSW20	13/10/2022	43.1
Na:Ca Ratio		DG_A_I_SW_DUSW05B	7/11/2022	20.4

Variable	Unit	Sample Point	Date	Result
Na:Ca Ratio		DG_A_I_SW_DUSW24	7/11/2022	4.59
Na:Ca Ratio		DG_A_I_SW_DUSW05B	19/12/2022	20.5
Na:Ca Ratio		DG_A_I_SW_DUSW24	19/12/2022	4.36
Nickel (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	*0.001*
Nickel (Total)	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	0.011
Nickel (Total)	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	0.004
Nickel (Total)	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	*0.001*
Nickel (Total)	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	0.002
Nickel (Total)	mg/L	DG_A_I_SW_DUSW20	30/08/2022	0.003
Nickel (Total)	mg/L	DG_A_I_SW_DUSW11	31/08/2022	0.004
Nickel (Total)	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	0.019
Nickel (Total)	mg/L	DG_A_I_SW_DUSW20	27/09/2022	0.004
Nickel (Total)	mg/L	DG_A_I_SW_DUSW24	27/09/2022	0.36
Nickel (Total)	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	0.009
Nickel (Total)	mg/L	DG_A_I_SW_DUSW24	12/10/2022	0.005
Nickel (Total)	mg/L	DG_A_I_SW_DUSW20	13/10/2022	0.005
Nickel (Total)	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	0.01
Nickel (Total)	mg/L	DG_A_I_SW_DUSW24	7/11/2022	0.006
Nickel (Total)	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	0.012
Nickel (Total)	mg/L	DG_A_I_SW_DUSW11	19/12/2022	0.006
Nickel (Total)	mg/L	DG_A_I_SW_DUSW24	19/12/2022	0.004
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	5.40
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	5.90
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	12.00
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	7.90
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW20	30/08/2022	2.80
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW11	31/08/2022	2.40
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	6.00
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW20	27/09/2022	2.90
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW24	27/09/2022	3.40
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	7.20
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW24	12/10/2022	3.70
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW20	13/10/2022	2.60
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	7.40
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW24	7/11/2022	4.20
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	8.90
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW11	19/12/2022	4.90
Nitrogen (Total)	mg/L	DG_A_I_SW_DUSW24	19/12/2022	4.40
pH	pH units	DG_A_I_SW_DUSW05B	28/04/2022	7.3
pH	pH units	DG_A_I_SW_DUSW05B	24/05/2022	7.4
pH	pH units	DG_A_I_SW_DUSW05B	7/06/2022	7.6
pH	pH units	DG_A_I_SW_DUSW05B	27/07/2022	7.8
pH	pH units	DG_A_I_SW_DUSW05B	18/08/2022	7.2
pH	pH units	DG_A_I_SW_DUSW20	30/08/2022	7.4
pH	pH units	DG_A_I_SW_DUSW11	31/08/2022	7.2
pH	pH units	DG_A_I_SW_DUSW05B	27/09/2022	7.2
pH	pH units	DG_A_I_SW_DUSW20	27/09/2022	7.8
pH	pH units	DG_A_I_SW_DUSW24	27/09/2022	7.5
pH	pH units	DG_A_I_SW_DUSW05B	12/10/2022	7.1
pH	pH units	DG_A_I_SW_DUSW24	12/10/2022	7.4
pH	pH units	DG_A_I_SW_DUSW20	13/10/2022	7.7
pH	pH units	DG_A_I_SW_DUSW05B	7/11/2022	7.8
pH	pH units	DG_A_I_SW_DUSW24	7/11/2022	7.2
pH	pH units	DG_A_I_SW_DUSW05B	19/12/2022	7.4
pH	pH units	DG_A_I_SW_DUSW11	19/12/2022	7.1
pH	pH units	DG_A_I_SW_DUSW24	19/12/2022	7.6
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	0.2
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	0.1

Variable	Unit	Sample Point	Date	Result
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	0.1
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	0.1
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW20	30/08/2022	0.3
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW11	31/08/2022	0.3
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	0.5
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW20	27/09/2022	0.1
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW24	27/09/2022	1.1
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	1.2
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW24	12/10/2022	1.5
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW20	13/10/2022	0.2
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	0.7
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW24	7/11/2022	1.3
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	0.5
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW11	19/12/2022	0.6
Phosphorus (Total)	mg/L	DG_A_I_SW_DUSW24	19/12/2022	1.5
Radium 226	Bq/L	DG_A_I_SW_DUSW05B	28/04/2022	0.01
Radium 226	Bq/L	DG_A_I_SW_DUSW05B	24/05/2022	*0.01*
Radium 226	Bq/L	DG_A_I_SW_DUSW05B	7/06/2022	<0.05
Radium 226	Bq/L	DG_A_I_SW_DUSW05B	27/07/2022	*0.05*
Radium 226	Bq/L	DG_A_I_SW_DUSW05B	18/08/2022	<0.06
Radium 226	Bq/L	DG_A_I_SW_DUSW20	30/08/2022	<0.02
Radium 226	Bq/L	DG_A_I_SW_DUSW11	31/08/2022	0.02
Radium 226	Bq/L	DG_A_I_SW_DUSW05B	27/09/2022	<0.03
Radium 226	Bq/L	DG_A_I_SW_DUSW20	27/09/2022	<0.03
Radium 226	Bq/L	DG_A_I_SW_DUSW24	27/09/2022	<0.03
Radium 226	Bq/L	DG_A_I_SW_DUSW05B	12/10/2022	<0.03
Radium 226	Bq/L	DG_A_I_SW_DUSW24	12/10/2022	<0.03
Radium 226	Bq/L	DG_A_I_SW_DUSW20	13/10/2022	<0.03
Radium 226	Bq/L	DG_A_I_SW_DUSW05B	7/11/2022	<0.02
Radium 226	Bq/L	DG_A_I_SW_DUSW24	7/11/2022	<0.02
Radium 226	Bq/L	DG_A_I_SW_DUSW05B	19/12/2022	<0.02
Radium 226	Bq/L	DG_A_I_SW_DUSW24	19/12/2022	<0.03
Radium 228	Bq/L	DG_A_I_SW_DUSW05B	28/04/2022	<0.08
Radium 228	Bq/L	DG_A_I_SW_DUSW05B	24/05/2022	*0.08*
Radium 228	Bq/L	DG_A_I_SW_DUSW05B	7/06/2022	<0.12
Radium 228	Bq/L	DG_A_I_SW_DUSW05B	27/07/2022	*0.12*
Radium 228	Bq/L	DG_A_I_SW_DUSW05B	18/08/2022	<0.10
Radium 228	Bq/L	DG_A_I_SW_DUSW20	30/08/2022	<0.02
Radium 228	Bq/L	DG_A_I_SW_DUSW11	31/08/2022	0.01
Radium 228	Bq/L	DG_A_I_SW_DUSW05B	27/09/2022	<0.04
Radium 228	Bq/L	DG_A_I_SW_DUSW20	27/09/2022	<0.04
Radium 228	Bq/L	DG_A_I_SW_DUSW24	27/09/2022	<0.04
Radium 228	Bq/L	DG_A_I_SW_DUSW05B	12/10/2022	<0.04
Radium 226	Bq/L	DG_A_I_SW_DUSW24	12/10/2022	<0.04
Radium 228	Bq/L	DG_A_I_SW_DUSW20	13/10/2022	<0.04
Radium 228	Bq/L	DG_A_I_SW_DUSW05B	7/11/2022	<0.03
Radium 228	Bq/L	DG_A_I_SW_DUSW24	7/11/2022	<0.02
Radium 228	Bq/L	DG_A_I_SW_DUSW05B	19/12/2022	<0.04
Radium 228	Bq/L	DG_A_I_SW_DUSW24	19/12/2022	<0.03
Sodium	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	120000
Sodium	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	100000
Sodium	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	57000
Sodium	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	50000
Sodium	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	48
Sodium	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	66.0
Sodium	mg/L	DG_A_I_SW_DUSW20	30/08/2022	4.4
Sodium	mg/L	DG_A_I_SW_DUSW11	31/08/2022	22000
Sodium	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	290.0

Variable	Unit	Sample Point	Date	Result
Sodium	mg/L	DG_A_I_SW_DUSW20	27/09/2022	170
Sodium	mg/L	DG_A_I_SW_DUSW24	27/09/2022	16000
Sodium	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	220
Sodium	mg/L	DG_A_I_SW_DUSW24	12/10/2022	250.0
Sodium	mg/L	DG_A_I_SW_DUSW20	13/10/2022	21
Sodium	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	170
Sodium	mg/L	DG_A_I_SW_DUSW24	7/11/2022	30
Sodium	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	170
Sulfate	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	7000
Sulfate	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	7200
Sulfate	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	5600
Sulfate	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	6600
Sulfate	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	5300
Sulfate	mg/L	DG_A_I_SW_DUSW20	30/08/2022	13.0
Sulfate	mg/L	DG_A_I_SW_DUSW11	31/08/2022	8
Sulfate	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	3300
Sulfate	mg/L	DG_A_I_SW_DUSW20	27/09/2022	68.0
Sulfate	mg/L	DG_A_I_SW_DUSW24	27/09/2022	26
Sulfate	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	2300
Sulfate	mg/L	DG_A_I_SW_DUSW24	12/10/2022	27
Sulfate	mg/L	DG_A_I_SW_DUSW20	13/10/2022	43.0
Sulfate	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	1700
Sulfate	mg/L	DG_A_I_SW_DUSW24	7/11/2022	18
Sulfate	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	2700
Sulfate	mg/L	DG_A_I_SW_DUSW24	19/12/2022	16
Turbidity	NTU	DG_A_I_SW_DUSW20	3/08/2021	19.6
Turbidity	NTU	DG_A_I_SW_DUSW11	4/08/2021	18.9
Turbidity	NTU	DG_A_I_SW_DUSW24	4/08/2021	44.3
Turbidity	NTU	DG_A_I_SW_DUSW05B	4/08/2021	20.1
Turbidity	NTU	DG_A_I_SW_DUSW24	15/09/2021	129
Turbidity	NTU	DG_A_I_SW_DUSW05B	18/08/2022	9.9
Turbidity	NTU	DG_A_I_SW_DUSW20	30/08/2022	134
Turbidity	NTU	DG_A_I_SW_DUSW11	31/08/2022	153
Turbidity	NTU	DG_A_I_SW_DUSW05B	27/09/2022	221
Turbidity	NTU	DG_A_I_SW_DUSW20	27/09/2022	42
Turbidity	NTU	DG_A_I_SW_DUSW24	27/09/2022	46.7
Turbidity	NTU	DG_A_I_SW_DUSW05B	12/10/2022	90.5
Turbidity	NTU	DG_A_I_SW_DUSW24	12/10/2022	35.6
Turbidity	NTU	DG_A_I_SW_DUSW20	13/10/2022	60
Turbidity	NTU	DG_A_I_SW_DUSW05B	7/11/2022	170
Turbidity	NTU	DG_A_I_SW_DUSW24	7/11/2022	41
Turbidity	NTU	DG_A_I_SW_DUSW05B	19/12/2022	220
Turbidity	NTU	DG_A_I_SW_DUSW11	19/12/2022	127
Turbidity	NTU	DG_A_I_SW_DUSW24	19/12/2022	25.5
Uranium (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	*0.001*
Uranium (Total)	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	*0.001*
Uranium (Total)	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	0.002
Uranium (Total)	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	0.0029
Uranium (Total)	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	0.0025
Uranium (Total)	mg/L	DG_A_I_SW_DUSW20	30/08/2022	0.0001
Uranium (Total)	mg/L	DG_A_I_SW_DUSW11	31/08/2022	0.0002
Uranium (Total)	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	0.006
Uranium (Total)	mg/L	DG_A_I_SW_DUSW20	27/09/2022	0.0002
Uranium (Total)	mg/L	DG_A_I_SW_DUSW24	27/09/2022	0.0001
Uranium (Total)	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	0.0048
Uranium (Total)	mg/L	DG_A_I_SW_DUSW24	12/10/2022	<0.0001
Uranium (Total)	mg/L	DG_A_I_SW_DUSW20	13/10/2022	0.0002
Uranium (Total)	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	0.002

Variable	Unit	Sample Point	Date	Result
Uranium (Total)	mg/L	DG_A_I_SW_DUSW24	7/11/2022	<0.0001
Uranium (Total)	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	0.004
Uranium (Total)	mg/L	DG_A_I_SW_DUSW11	19/12/2022	*0.001*
Uranium (Total)	mg/L	DG_A_I_SW_DUSW24	19/12/2022	<0.0001
Uranium 238	Bq/L	DG_A_I_SW_DUSW05B	28/04/2022	<0.025
Uranium 238	Bq/L	DG_A_I_SW_DUSW05B	24/05/2022	*0.025*
Uranium 238	Bq/L	DG_A_I_SW_DUSW05B	7/06/2022	0.036
Uranium 238	Bq/L	DG_A_I_SW_DUSW05B	27/07/2022	*0.036*
Uranium 238	Bq/L	DG_A_I_SW_DUSW05B	18/08/2022	0.031
Uranium 238	Bq/L	DG_A_I_SW_DUSW20	30/08/2022	*0.001*
Uranium 238	Bq/L	DG_A_I_SW_DUSW11	31/08/2022	0.025
Uranium 238	Bq/L	DG_A_I_SW_DUSW05B	27/09/2022	*0.06*
Uranium 238	Bq/L	DG_A_I_SW_DUSW20	27/09/2022	0.002
Uranium 238	Bq/L	DG_A_I_SW_DUSW24	27/09/2022	*0.001*
Uranium 238	Bq/L	DG_A_I_SW_DUSW05B	12/10/2022	0.06
Uranium 238	Bq/L	DG_A_I_SW_DUSW24	12/10/2022	*0.001*
Uranium 238	Bq/L	DG_A_I_SW_DUSW20	13/10/2022	0.002
Uranium 238	Bq/L	DG_A_I_SW_DUSW05B	7/11/2022	*0.016*
Uranium 238	Bq/L	DG_A_I_SW_DUSW24	7/11/2022	*0.001*
Uranium 238	Bq/L	DG_A_I_SW_DUSW05B	19/12/2022	0.004
Uranium 238	Bq/L	DG_A_I_SW_DUSW24	19/12/2022	*<0.001*
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	0.004
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	0.002
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	*0.001*
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	0.003
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	0.005
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW20	30/08/2022	0.013
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW11	31/08/2022	0.008
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	0.058
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW20	27/09/2022	0.006
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW24	27/09/2022	0.36
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	0.015
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW24	12/10/2022	0.007
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW20	13/10/2022	0.009
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	0.024
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW24	7/11/2022	0.009
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	0.043
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW11	19/12/2022	0.018
Vanadium (Total)	mg/L	DG_A_I_SW_DUSW24	19/12/2022	0.01
Zinc (Total)	mg/L	DG_A_I_SW_DUSW05B	28/04/2022	0.006
Zinc (Total)	mg/L	DG_A_I_SW_DUSW05B	24/05/2022	0.021
Zinc (Total)	mg/L	DG_A_I_SW_DUSW05B	7/06/2022	0.004
Zinc (Total)	mg/L	DG_A_I_SW_DUSW05B	27/07/2022	0.005
Zinc (Total)	mg/L	DG_A_I_SW_DUSW05B	18/08/2022	0.003
Zinc (Total)	mg/L	DG_A_I_SW_DUSW20	30/08/2022	0.024
Zinc (Total)	mg/L	DG_A_I_SW_DUSW11	31/08/2022	0.027
Zinc (Total)	mg/L	DG_A_I_SW_DUSW05B	27/09/2022	0.042
Zinc (Total)	mg/L	DG_A_I_SW_DUSW20	27/09/2022	0.034
Zinc (Total)	mg/L	DG_A_I_SW_DUSW24	27/09/2022	0.57
Zinc (Total)	mg/L	DG_A_I_SW_DUSW05B	12/10/2022	0.066
Zinc (Total)	mg/L	DG_A_I_SW_DUSW24	12/10/2022	0.049
Zinc (Total)	mg/L	DG_A_I_SW_DUSW20	13/10/2022	0.032
Zinc (Total)	mg/L	DG_A_I_SW_DUSW05B	7/11/2022	0.03
Zinc (Total)	mg/L	DG_A_I_SW_DUSW24	7/11/2022	0.029
Zinc (Total)	mg/L	DG_A_I_SW_DUSW05B	19/12/2022	0.032
Zinc (Total)	mg/L	DG_A_I_SW_DUSW11	19/12/2022	0.013
Zinc (Total)	mg/L	DG_A_I_SW_DUSW24	19/12/2022	0.015
Results in italics represent values less that reporting limit i.e. <0.01 = *0.01*				

Appendix B: Monitoring Data (Lab) – Groundwater

Variable	Unit	Sample Point	Date	Result
Aluminium (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	0.05
Aluminium (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	0.23
Aluminium (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	0.15
Aluminium (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	8.90
Aluminium (Total)	mg/L	DG_A_I_PZ_BW45B	17/03/2022	11.40
Aluminium (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	12.00
Aluminium (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	12.00
Aluminium (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	1.60
Aluminium (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	1.50
Aluminium (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	1.60
Aluminium (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	1.50
Aluminium (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW04	5/10/2022	0.04
Aluminium (Total)	mg/L	DG_A_I_PZ_GW04A	27/01/2022	0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW04A	17/02/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	0.02
Aluminium (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	0.02
Aluminium (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	0.13
Aluminium (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	1.10
Aluminium (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	0.04
Aluminium (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	0.04
Aluminium (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	0.03
Aluminium (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	<0.01
Aluminium (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	0.02
Aluminium (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	0.93
Aluminium (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	0.11
Aluminium (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	0.02
Aluminium (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	0.11
Aluminium (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	0.11
Aluminium (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	0.03
Aluminium (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	0.12
Aluminium (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	0.24
Arsenic (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	0.007
Arsenic (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	0.009
Arsenic (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	0.310
Arsenic (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	0.460
Arsenic (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	0.120
Arsenic (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	0.160
Arsenic (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	0.008
Arsenic (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	0.007

Variable	Unit	Sample Point	Date	Result
Arsenic (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	0.009
Arsenic (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	0.008
Arsenic (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	0.006
Arsenic (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	0.010
Arsenic (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	0.008
Arsenic (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	0.120
Arsenic (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	0.120
Arsenic (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	0.110
Arsenic (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	0.080
Arsenic (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	0.005
Arsenic (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	0.006
Arsenic (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	0.004
Arsenic (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	0.014
Arsenic (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	0.004
Arsenic (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	0.006
Arsenic (Total)	mg/L	DG_A_I_PZ_GW04	5/10/2022	0.007
Arsenic (Total)	mg/L	DG_A_I_PZ_GW04A	27/01/2022	0.001
Arsenic (Total)	mg/L	DG_A_I_PZ_GW04A	17/02/2022	0.002
Arsenic (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	0.002
Arsenic (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	0.001
Arsenic (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	0.003
Arsenic (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	0.003
Arsenic (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	0.003
Arsenic (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	0.004
Arsenic (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	0.007
Arsenic (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	0.002
Arsenic (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	0.001
Arsenic (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	0.001
Arsenic (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	0.001
Arsenic (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	0.001
Arsenic (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	0.001
Arsenic (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	0.013
Arsenic (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	0.009
Arsenic (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	0.002
Arsenic (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	0.002
Arsenic (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	0.003
Arsenic (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	0.013
Arsenic (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	0.002
Arsenic (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	0.002
Boron (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	1.30
Boron (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	1.40
Boron (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	0.84
Boron (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	0.93
Boron (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	0.07
Boron (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	0.08
Boron (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	0.81
Boron (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	1.10
Boron (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	1.10
Boron (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	0.10
Boron (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	0.10
Boron (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	0.09
Boron (Total)	mg/L	DG_A_I_PZ_GW01	12/07/2022	0.08
Boron (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	0.08
Boron (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	0.12
Boron (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	0.12
Boron (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	0.11
Boron (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	0.08
Boron (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	0.29

Variable	Unit	Sample Point	Date	Result
Boron (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	0.29
Boron (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	0.27
Boron (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	0.41
Boron (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	0.41
Boron (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	0.53
Boron (Total)	mg/L	DG_A_I_PZ_GW04	5/10/2022	0.58
Boron (Total)	mg/L	DG_A_I_PZ_GW04A	27/01/2022	0.35
Boron (Total)	mg/L	DG_A_I_PZ_GW04A	17/02/2022	0.26
Boron (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	0.40
Boron (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	0.42
Boron (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	0.79
Boron (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	1.10
Boron (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	1.10
Boron (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	1.80
Boron (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	1.60
Boron (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	1.70
Boron (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	1.60
Boron (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	1.50
Boron (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	1.50
Boron (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	0.08
Boron (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	0.08
Boron (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	0.05
Boron (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	0.05
Boron (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	0.23
Boron (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	0.17
Boron (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	0.63
Boron (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	0.41
Boron (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	1.70
Boron (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	1.70
Cadmium (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW01	12/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW04	5/10/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW04A	27/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW04A	17/02/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	<0.0002

Variable	Unit	Sample Point	Date	Result
Cadmium (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	0.0003
Cadmium (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	0.0004
Cadmium (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	<0.0002
Cadmium (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	<0.0002
Calcium	mg/L	DG_A_I_PZ_BW05	19/01/2022	280
Calcium	mg/L	DG_A_I_PZ_BW05	21/07/2022	250
Calcium	mg/L	DG_A_I_PZ_BW28A	19/01/2022	500
Calcium	mg/L	DG_A_I_PZ_BW28A	21/07/2022	530
Calcium	mg/L	DG_A_I_PZ_BW36B	27/01/2022	130
Calcium	mg/L	DG_A_I_PZ_BW36B	27/07/2022	120
Calcium	mg/L	DG_A_I_PZ_BW45B	27/01/2022	350
Calcium	mg/L	DG_A_I_PZ_BW45B	20/07/2022	340
Calcium	mg/L	DG_A_I_PZ_GW01	24/01/2022	78
Calcium	mg/L	DG_A_I_PZ_GW01	17/02/2022	72
Calcium	mg/L	DG_A_I_PZ_GW01	15/03/2022	69
Calcium	mg/L	DG_A_I_PZ_GW01	28/04/2022	75
Calcium	mg/L	DG_A_I_PZ_GW01	23/05/2022	81
Calcium	mg/L	DG_A_I_PZ_GW01	8/06/2022	86
Calcium	mg/L	DG_A_I_PZ_GW01	12/07/2022	75
Calcium	mg/L	DG_A_I_PZ_GW01	19/07/2022	75
Calcium	mg/L	DG_A_I_PZ_GW01	23/08/2022	66
Calcium	mg/L	DG_A_I_PZ_GW01	20/09/2022	77
Calcium	mg/L	DG_A_I_PZ_GW01	11/10/2022	76
Calcium	mg/L	DG_A_I_PZ_GW01	22/11/2022	90
Calcium	mg/L	DG_A_I_PZ_GW01	20/12/2022	83
Calcium	mg/L	DG_A_I_PZ_GW02	24/01/2022	22
Calcium	mg/L	DG_A_I_PZ_GW02	17/02/2022	17
Calcium	mg/L	DG_A_I_PZ_GW02	15/03/2022	19
Calcium	mg/L	DG_A_I_PZ_GW02	28/04/2022	17
Calcium	mg/L	DG_A_I_PZ_GW02	23/05/2022	16
Calcium	mg/L	DG_A_I_PZ_GW02	8/06/2022	19
Calcium	mg/L	DG_A_I_PZ_GW02	12/07/2022	18
Calcium	mg/L	DG_A_I_PZ_GW02	24/08/2022	20
Calcium	mg/L	DG_A_I_PZ_GW02	20/09/2022	15
Calcium	mg/L	DG_A_I_PZ_GW02	11/10/2022	15
Calcium	mg/L	DG_A_I_PZ_GW02	22/11/2022	19
Calcium	mg/L	DG_A_I_PZ_GW02	20/12/2022	16
Calcium	mg/L	DG_A_I_PZ_GW03	24/01/2022	160
Calcium	mg/L	DG_A_I_PZ_GW03	17/02/2022	160
Calcium	mg/L	DG_A_I_PZ_GW03	15/03/2022	180
Calcium	mg/L	DG_A_I_PZ_GW03	28/04/2022	160
Calcium	mg/L	DG_A_I_PZ_GW03	23/05/2022	170
Calcium	mg/L	DG_A_I_PZ_GW03	8/06/2022	170

Variable	Unit	Sample Point	Date	Result
Calcium	mg/L	DG_A_I_PZ_GW03	12/07/2022	190
Calcium	mg/L	DG_A_I_PZ_GW03	24/08/2022	170
Calcium	mg/L	DG_A_I_PZ_GW03	20/09/2022	520
Calcium	mg/L	DG_A_I_PZ_GW03	11/10/2022	160
Calcium	mg/L	DG_A_I_PZ_GW03	22/11/2022	160
Calcium	mg/L	DG_A_I_PZ_GW03	20/12/2022	160
Calcium	mg/L	DG_A_I_PZ_GW04	27/01/2022	120
Calcium	mg/L	DG_A_I_PZ_GW04	20/07/2022	140
Chloride	mg/L	DG_A_I_PZ_GW04A	27/01/2022	120
Calcium	mg/L	DG_A_I_PZ_GW04A	17/02/2022	82
Calcium	mg/L	DG_A_I_PZ_GW04A	16/03/2022	96
Calcium	mg/L	DG_A_I_PZ_GW04A	28/04/2022	110
Calcium	mg/L	DG_A_I_PZ_GW04A	24/05/2022	120
Calcium	mg/L	DG_A_I_PZ_GW04A	8/06/2022	120
Calcium	mg/L	DG_A_I_PZ_GW04A	12/07/2022	110
Calcium	mg/L	DG_A_I_PZ_GW04A	23/08/2022	97
Calcium	mg/L	DG_A_I_PZ_GW04A	20/09/2022	98
Calcium	mg/L	DG_A_I_PZ_GW04A	11/10/2022	100
Calcium	mg/L	DG_A_I_PZ_GW04A	28/11/2022	110
Calcium	mg/L	DG_A_I_PZ_GW04A	20/12/2022	82
Calcium	mg/L	DG_A_I_PZ_GW05	27/01/2022	86
Calcium	mg/L	DG_A_I_PZ_GW05	20/07/2022	88
Calcium	mg/L	DG_A_I_PZ_GW06	13/01/2022	610
Chloride	mg/L	DG_A_I_PZ_GW06	5/10/2022	530
Calcium	mg/L	DG_A_I_PZ_GW07	18/01/2022	360
Calcium	mg/L	DG_A_I_PZ_GW07	19/07/2022	340
Calcium	mg/L	DG_A_I_PZ_GW08	13/01/2022	550
Calcium	mg/L	DG_A_I_PZ_GW08	26/07/2022	520
Calcium	mg/L	DG_A_I_PZ_IWB2	20/01/2022	10
Calcium	mg/L	DG_A_I_PZ_IWB2	25/07/2022	8
Calcium	mg/L	DG_A_I_PZ_IWB6	20/01/2022	6
Calcium	mg/L	DG_A_I_PZ_IWB6	25/07/2022	6
Calcium	mg/L	DG_A_I_PZ_WRK300	17/01/2022	160
Calcium	mg/L	DG_A_I_PZ_WRK300	27/07/2022	130
Calcium	mg/L	DG_A_I_PZ_WRK301	17/01/2022	290
Calcium	mg/L	DG_A_I_PZ_WRK301	26/07/2022	200
Calcium	mg/L	DG_A_I_PZ_WRK302	13/01/2022	440
Calcium	mg/L	DG_A_I_PZ_WRK302	26/07/2022	430
Chloride	mg/L	DG_A_I_PZ_GW01	24/01/2022	3300
Chloride	mg/L	DG_A_I_PZ_GW01	17/02/2022	3300
Chloride	mg/L	DG_A_I_PZ_GW01	15/03/2022	3400
Chloride	mg/L	DG_A_I_PZ_GW01	28/04/2022	3400
Chloride	mg/L	DG_A_I_PZ_GW01	23/05/2022	3400
Chloride	mg/L	DG_A_I_PZ_GW01	8/06/2022	3400
Chloride	mg/L	DG_A_I_PZ_GW01	12/07/2022	3400
Chloride	mg/L	DG_A_I_PZ_GW01	19/07/2022	3400
Chloride	mg/L	DG_A_I_PZ_GW01	23/08/2022	3400
Chloride	mg/L	DG_A_I_PZ_GW01	20/09/2022	3500
Chloride	mg/L	DG_A_I_PZ_GW01	11/10/2022	3500
Chloride	mg/L	DG_A_I_PZ_GW01	14/11/2022	3500
Chloride	mg/L	DG_A_I_PZ_GW01	22/11/2022	3500
Chloride	mg/L	DG_A_I_PZ_GW01	20/12/2022	3500
Chloride	mg/L	DG_A_I_PZ_GW02	24/01/2022	2200
Chloride	mg/L	DG_A_I_PZ_GW02	17/02/2022	2100
Chloride	mg/L	DG_A_I_PZ_GW02	15/03/2022	2200
Chloride	mg/L	DG_A_I_PZ_GW02	28/04/2022	2200
Chloride	mg/L	DG_A_I_PZ_GW02	23/05/2022	2200
Chloride	mg/L	DG_A_I_PZ_GW02	8/06/2022	2200

Variable	Unit	Sample Point	Date	Result
Chloride	mg/L	DG_A_I_PZ_GW02	12/07/2022	2100
Chloride	mg/L	DG_A_I_PZ_GW02	24/08/2022	2200
Chloride	mg/L	DG_A_I_PZ_GW02	20/09/2022	2100
Chloride	mg/L	DG_A_I_PZ_GW02	11/10/2022	2000
Chloride	mg/L	DG_A_I_PZ_GW02	22/11/2022	1900
Chloride	mg/L	DG_A_I_PZ_GW02	20/12/2022	1800
Chloride	mg/L	DG_A_I_PZ_GW03	24/01/2022	3200
Chloride	mg/L	DG_A_I_PZ_GW03	17/02/2022	3100
Chloride	mg/L	DG_A_I_PZ_GW03	15/03/2022	3200
Chloride	mg/L	DG_A_I_PZ_GW03	28/04/2022	3200
Chloride	mg/L	DG_A_I_PZ_GW03	23/05/2022	3300
Chloride	mg/L	DG_A_I_PZ_GW03	8/06/2022	3200
Chloride	mg/L	DG_A_I_PZ_GW03	12/07/2022	3200
Chloride	mg/L	DG_A_I_PZ_GW03	24/08/2022	3300
Chloride	mg/L	DG_A_I_PZ_GW03	20/09/2022	3300
Chloride	mg/L	DG_A_I_PZ_GW03	11/10/2022	3300
Chloride	mg/L	DG_A_I_PZ_GW03	22/11/2022	3300
Chloride	mg/L	DG_A_I_PZ_GW03	20/12/2022	3300
Chloride	mg/L	DG_A_I_PZ_GW04	27/01/2022	2500
Chloride	mg/L	DG_A_I_PZ_GW04	20/07/2022	2700
Chloride	mg/L	DG_A_I_PZ_GW04A	27/01/2022	2400
Chloride	mg/L	DG_A_I_PZ_GW04A	17/02/2022	1600
Chloride	mg/L	DG_A_I_PZ_GW04A	16/03/2022	2300
Chloride	mg/L	DG_A_I_PZ_GW04A	12/07/2022	2400
Chloride	mg/L	DG_A_I_PZ_GW04A	28/04/2022	2400
Chloride	mg/L	DG_A_I_PZ_GW04A	24/05/2022	2300
Chloride	mg/L	DG_A_I_PZ_GW04A	8/06/2022	2400
Chloride	mg/L	DG_A_I_PZ_GW04A	12/07/2022	2400
Chloride	mg/L	DG_A_I_PZ_GW04A	23/08/2022	2300
Chloride	mg/L	DG_A_I_PZ_GW04A	20/09/2022	2300
Chloride	mg/L	DG_A_I_PZ_GW04A	11/10/2022	1700
Chloride	mg/L	DG_A_I_PZ_GW04A	28/11/2022	2300
Chloride	mg/L	DG_A_I_PZ_GW04A	20/12/2022	1800
Chloride	mg/L	DG_A_I_PZ_GW05	27/01/2022	2600
Chloride	mg/L	DG_A_I_PZ_GW05	16/03/2022	2700
Chloride	mg/L	DG_A_I_PZ_GW05	20/07/2022	2700
Chloride	mg/L	DG_A_I_PZ_GW06	13/01/2022	6300
Chloride	mg/L	DG_A_I_PZ_GW06	5/10/2022	6600
Chloride	mg/L	DG_A_I_PZ_GW07	18/01/2022	5800
Chloride	mg/L	DG_A_I_PZ_GW07	19/07/2022	5800
Chloride	mg/L	DG_A_I_PZ_GW08	13/01/2022	6500
Chloride	mg/L	DG_A_I_PZ_GW08	26/07/2022	6800
Chloride	mg/L	DG_A_I_PZ_IWB2	20/01/2022	1000
Chloride	mg/L	DG_A_I_PZ_IWB2	25/07/2022	1100
Chloride	mg/L	DG_A_I_PZ_IWB6	20/01/2022	340
Chloride	mg/L	DG_A_I_PZ_IWB6	25/07/2022	350
Chloride	mg/L	DG_A_I_PZ_WRK300	17/01/2022	1600
Chloride	mg/L	DG_A_I_PZ_WRK300	27/07/2022	1700
Chloride	mg/L	DG_A_I_PZ_WRK301	17/01/2022	3100
Chloride	mg/L	DG_A_I_PZ_WRK301	26/07/2022	2400
Chloride	mg/L	DG_A_I_PZ_WRK302	13/01/2022	6100
Chloride	mg/L	DG_A_I_PZ_WRK302	26/07/2022	6200
Chloride:Sulfate Ratio		DG_A_I_PZ_BW05	19/01/2022	9.52
Chloride:Sulfate Ratio		DG_A_I_PZ_BW05	21/07/2022	11.53
Chloride:Sulfate Ratio		DG_A_I_PZ_BW28A	19/01/2022	7.11
Chloride:Sulfate Ratio		DG_A_I_PZ_BW28A	21/07/2022	8.55
Chloride:Sulfate Ratio		DG_A_I_PZ_BW36B	27/01/2022	8.44
Chloride:Sulfate Ratio		DG_A_I_PZ_BW36B	27/07/2022	8.79

Variable	Unit	Sample Point	Date	Result
Chloride:Sulfate Ratio		DG_A_I_PZ_BW45B	27/01/2022	5.30
Chloride:Sulfate Ratio		DG_A_I_PZ_BW45B	20/07/2022	6.51
Chloride:Sulfate Ratio		DG_A_I_PZ_GW01	24/01/2022	7.17
Chloride:Sulfate Ratio		DG_A_I_PZ_GW01	17/02/2022	6.47
Chloride:Sulfate Ratio		DG_A_I_PZ_GW01	15/03/2022	6.94
Chloride:Sulfate Ratio		DG_A_I_PZ_GW01	28/04/2022	8.10
Chloride:Sulfate Ratio		DG_A_I_PZ_GW01	23/05/2022	7.56
Chloride:Sulfate Ratio		DG_A_I_PZ_GW01	8/06/2022	7.23
Chloride:Sulfate Ratio		DG_A_I_PZ_GW01	12/07/2022	7.73
Chloride:Sulfate Ratio		DG_A_I_PZ_GW01	19/07/2022	7.73
Chloride:Sulfate Ratio		DG_A_I_PZ_GW01	23/08/2022	8.29
Chloride:Sulfate Ratio		DG_A_I_PZ_GW01	20/09/2022	8.29
Chloride:Sulfate Ratio		DG_A_I_PZ_GW01	11/10/2022	5.65
Chloride:Sulfate Ratio		DG_A_I_PZ_GW01	22/11/2022	8.33
Chloride:Sulfate Ratio		DG_A_I_PZ_GW01	20/12/2022	7.61
Chloride:Sulfate Ratio		DG_A_I_PZ_GW02	24/01/2022	5.64
Chloride:Sulfate Ratio		DG_A_I_PZ_GW02	17/02/2022	6.00
Chloride:Sulfate Ratio		DG_A_I_PZ_GW02	15/03/2022	5.95
Chloride:Sulfate Ratio		DG_A_I_PZ_GW02	28/04/2022	6.47
Chloride:Sulfate Ratio		DG_A_I_PZ_GW02	23/05/2022	6.11
Chloride:Sulfate Ratio		DG_A_I_PZ_GW02	8/06/2022	5.12
Chloride:Sulfate Ratio		DG_A_I_PZ_GW02	12/07/2022	4.67
Chloride:Sulfate Ratio		DG_A_I_PZ_GW02	24/08/2022	5.79
Chloride:Sulfate Ratio		DG_A_I_PZ_GW02	20/09/2022	6.56
Chloride:Sulfate Ratio		DG_A_I_PZ_GW02	11/10/2022	4.55
Chloride:Sulfate Ratio		DG_A_I_PZ_GW02	22/11/2022	6.33
Chloride:Sulfate Ratio		DG_A_I_PZ_GW02	20/12/2022	5.29
Chloride:Sulfate Ratio		DG_A_I_PZ_GW03	24/01/2022	6.04
Chloride:Sulfate Ratio		DG_A_I_PZ_GW03	17/02/2022	5.74
Chloride:Sulfate Ratio		DG_A_I_PZ_GW03	15/03/2022	6.15
Chloride:Sulfate Ratio		DG_A_I_PZ_GW03	28/04/2022	7.11
Chloride:Sulfate Ratio		DG_A_I_PZ_GW03	23/05/2022	7.17
Chloride:Sulfate Ratio		DG_A_I_PZ_GW03	8/06/2022	5.52
Chloride:Sulfate Ratio		DG_A_I_PZ_GW03	12/07/2022	6.15
Chloride:Sulfate Ratio		DG_A_I_PZ_GW03	24/08/2022	7.17
Chloride:Sulfate Ratio		DG_A_I_PZ_GW03	20/09/2022	7.17
Chloride:Sulfate Ratio		DG_A_I_PZ_GW03	11/10/2022	5.69
Chloride:Sulfate Ratio		DG_A_I_PZ_GW03	22/11/2022	7.67
Chloride:Sulfate Ratio		DG_A_I_PZ_GW03	20/12/2022	6.47
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04	27/01/2022	4.17
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04	20/07/2022	5.63
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04A	27/01/2022	6.00
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04A	17/02/2022	6.67
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04A	16/03/2022	5.90
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04A	12/07/2022	5.71
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04A	28/04/2022	8.00
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04A	24/05/2022	6.05
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04A	8/06/2022	5.45
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04A	12/07/2022	5.71
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04A	23/08/2022	6.97
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04A	20/09/2022	6.97
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04A	11/10/2022	5.86
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04A	28/11/2022	6.76
Chloride:Sulfate Ratio		DG_A_I_PZ_GW04A	20/12/2022	9.00
Chloride:Sulfate Ratio		DG_A_I_PZ_GW05	27/01/2022	4.00
Chloride:Sulfate Ratio		DG_A_I_PZ_GW05	16/03/2022	5.00
Chloride:Sulfate Ratio		DG_A_I_PZ_GW05	20/07/2022	5.00
Chloride:Sulfate Ratio		DG_A_I_PZ_GW06	13/01/2022	4.20

Variable	Unit	Sample Point	Date	Result
Chloride:Sulfate Ratio		DG_A_I_PZ_GW06	5/10/2022	5.08
Chloride:Sulfate Ratio		DG_A_I_PZ_GW07	18/01/2022	6.25
Chloride:Sulfate Ratio		DG_A_I_PZ_GW07	19/07/2022	6.82
Chloride:Sulfate Ratio		DG_A_I_PZ_GW08	13/01/2022	5.00
Chloride:Sulfate Ratio		DG_A_I_PZ_GW08	26/07/2022	5.23
Chloride:Sulfate Ratio		DG_A_I_PZ_IWB2	20/01/2022	6.25
Chloride:Sulfate Ratio		DG_A_I_PZ_IWB2	25/07/2022	8.46
Chloride:Sulfate Ratio		DG_A_I_PZ_IWB6	20/01/2022	1.62
Chloride:Sulfate Ratio		DG_A_I_PZ_IWB6	25/07/2022	1.94
Chloride:Sulfate Ratio		DG_A_I_PZ_WRK300	17/01/2022	4.71
Chloride:Sulfate Ratio		DG_A_I_PZ_WRK300	27/07/2022	4.36
Chloride:Sulfate Ratio		DG_A_I_PZ_WRK301	17/01/2022	5.34
Chloride:Sulfate Ratio		DG_A_I_PZ_WRK301	26/07/2022	4.53
Chloride:Sulfate Ratio		DG_A_I_PZ_WRK302	13/01/2022	4.36
Chloride:Sulfate Ratio		DG_A_I_PZ_WRK302	26/07/2022	4.43
Chloride:Sulfate Ratio		DG_A_I_PZ_BW05	19/01/2022	9.52
Chloride:Sulfate Ratio		DG_A_I_PZ_BW05	21/07/2022	11.53
Chloride:Sulfate Ratio		DG_A_I_PZ_BW28A	19/01/2022	7.11
Chloride:Sulfate Ratio		DG_A_I_PZ_BW28A	21/07/2022	8.55
Chloride:Sulfate Ratio		DG_A_I_PZ_BW36B	27/01/2022	8.44
Chloride:Sulfate Ratio		DG_A_I_PZ_BW36B	27/07/2022	8.79
Chloride:Sulfate Ratio		DG_A_I_PZ_BW45B	27/01/2022	5.30
Chloride:Sulfate Ratio		DG_A_I_PZ_BW45B	20/07/2022	6.51
Chromium (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	0.001
Chromium (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	0.005
Chromium (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	0.006
Chromium (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	0.005
Chromium (Total)	mg/L	DG_A_I_PZ_GW01	12/07/2022	0.004
Chromium (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	0.004
Chromium (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	0.002
Chromium (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	0.003
Chromium (Total)	mg/L	DG_A_I_PZ_GW04	5/10/2022	0.030
Chromium (Total)	mg/L	DG_A_I_PZ_GW04A	27/01/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW04A	17/02/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	0.002
Chromium (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	0.002
Chromium (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	0.005
Chromium (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	0.007

Variable	Unit	Sample Point	Date	Result
Chromium (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	0.007
Chromium (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	0.005
Chromium (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	0.003
Chromium (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	0.002
Chromium (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	<0.001
Chromium (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	<0.001
Cobalt (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	<0.001
Cobalt (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	<0.001
Cobalt (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	0.020
Cobalt (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	0.023
Cobalt (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	0.005
Cobalt (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	0.006
Cobalt (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	0.025
Cobalt (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	0.036
Cobalt (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	0.030
Cobalt (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	0.066
Cobalt (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	0.077
Cobalt (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	0.079
Cobalt (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	0.063
Cobalt (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	0.020
Cobalt (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	0.018
Cobalt (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	0.018
Cobalt (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	0.017
Cobalt (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	0.003
Cobalt (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	0.004
Cobalt (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	0.003
Cobalt (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	0.003
Cobalt (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	0.008
Cobalt (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	0.009
Cobalt (Total)	mg/L	DG_A_I_PZ_GW04	5/10/2022	0.011
Cobalt (Total)	mg/L	DG_A_I_PZ_GW04A	27/01/2022	0.004
Cobalt (Total)	mg/L	DG_A_I_PZ_GW04A	17/02/2022	0.004
Cobalt (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	0.005
Cobalt (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	0.005
Cobalt (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	0.002
Cobalt (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	0.002
Cobalt (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	0.003
Cobalt (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	0.002
Cobalt (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	0.004
Cobalt (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	0.031
Cobalt (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	0.033
Cobalt (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	<0.001
Cobalt (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	<0.001
Cobalt (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	0.002
Cobalt (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	0.002
Cobalt (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	0.002
Cobalt (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	0.002
Cobalt (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	0.002
Cobalt (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	<0.001
Cobalt (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	0.002
Cobalt (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	<0.001

Variable	Unit	Sample Point	Date	Result
Cobalt (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	0.025
Cobalt (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	0.027
Copper (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	0.001
Copper (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	<0.001
Copper (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	<0.001
Copper (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	<0.001
Copper (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	0.005
Copper (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	0.001
Copper (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	0.011
Copper (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	0.010
Copper (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	0.016
Copper (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	0.003
Copper (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	0.002
Copper (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	0.009
Copper (Total)	mg/L	DG_A_I_PZ_GW01	12/07/2022	0.001
Copper (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	<0.001
Copper (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	0.002
Copper (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	<0.001
Copper (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	0.004
Copper (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	<0.001
Copper (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	0.003
Copper (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	<0.001
Copper (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	0.004
Copper (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	0.002
Copper (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	0.006
Copper (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	0.007
Copper (Total)	mg/L	DG_A_I_PZ_GW04	5/10/2022	0.004
Copper (Total)	mg/L	DG_A_I_PZ_GW04A	27/01/2022	0.001
Copper (Total)	mg/L	DG_A_I_PZ_GW04A	17/02/2022	0.003
Copper (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	0.005
Copper (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	<0.001
Copper (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	0.009
Copper (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	0.007
Copper (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	0.008
Copper (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	0.001
Copper (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	0.004
Copper (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	0.002
Copper (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	<0.001
Copper (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	<0.001
Copper (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	<0.001
Copper (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	0.019
Copper (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	<0.001
Copper (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	0.001
Copper (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	<0.001
Copper (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	0.004
Copper (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	0.004
Copper (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	0.005
Copper (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	0.003
Copper (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	0.001
Copper (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	0.0240
Lead (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	0.0360

Variable	Unit	Sample Point	Date	Result
Lead (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	0.0350
Lead (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	0.0020
Lead (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	0.0010
Lead (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	0.0010
Lead (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	0.0040
Lead (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW04	5/10/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW04A	27/01/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW04A	17/02/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	0.0030
Lead (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	0.0030
Lead (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	0.0030
Lead (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	<0.001
Lead (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	0.0060
Lead (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	0.0070
Mercury (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	0.0002
Mercury (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	0.0002

Variable	Unit	Sample Point	Date	Result
Mercury (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	0.0002
Mercury (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW04A	5/10/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW04A	27/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW04A	17/02/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	0.0004
Mercury (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	0.0002
Mercury (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	0.0002
Mercury (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	0.0002
Mercury (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	<0.0001
Mercury (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	<0.0001
Molybdenum (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	0.002
Molybdenum (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	0.002
Molybdenum (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	0.002
Molybdenum (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	0.002
Molybdenum (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	<0.0001
Molybdenum (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	<0.0001
Molybdenum (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	<0.0001
Molybdenum (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	<0.0001
Molybdenum (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	<0.0001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	<0.0001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	<0.0001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	<0.0001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	<0.0001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW04	5/10/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW04A	27/01/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW04A	17/02/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	<0.001

Variable	Unit	Sample Point	Date	Result
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	<0.001
Molybdenum (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	<0.001
Na:Ca Ratio		DG_A_I_PZ_BW05	19/01/2022	15.7
Na:Ca Ratio		DG_A_I_PZ_BW05	21/07/2022	17.6
Na:Ca Ratio		DG_A_I_PZ_BW28A	19/01/2022	6.6
Na:Ca Ratio		DG_A_I_PZ_BW28A	21/07/2022	6.8
Na:Ca Ratio		DG_A_I_PZ_BW36B	27/01/2022	12.3
Na:Ca Ratio		DG_A_I_PZ_BW36B	27/07/2022	14.2
Na:Ca Ratio		DG_A_I_PZ_BW45B	27/01/2022	8.6
Na:Ca Ratio		DG_A_I_PZ_BW45B	20/07/2022	9.1
Na:Ca Ratio		DG_A_I_PZ_GW01	24/01/2022	21.8
Na:Ca Ratio		DG_A_I_PZ_GW01	17/02/2022	26.4
Na:Ca Ratio		DG_A_I_PZ_GW01	15/03/2022	27.5
Na:Ca Ratio		DG_A_I_PZ_GW01	28/04/2022	26.7
Na:Ca Ratio		DG_A_I_PZ_GW01	23/05/2022	24.7
Na:Ca Ratio		DG_A_I_PZ_GW01	8/06/2022	23.3
Na:Ca Ratio		DG_A_I_PZ_GW01	12/07/2022	25.3
Na:Ca Ratio		DG_A_I_PZ_GW01	19/07/2022	25.3
Na:Ca Ratio		DG_A_I_PZ_GW01	23/08/2022	27.3
Na:Ca Ratio		DG_A_I_PZ_GW01	20/09/2022	27.3
Na:Ca Ratio		DG_A_I_PZ_GW01	11/10/2022	26.3
Na:Ca Ratio		DG_A_I_PZ_GW01	22/11/2022	22.2
Na:Ca Ratio		DG_A_I_PZ_GW01	20/12/2022	24.1
Na:Ca Ratio		DG_A_I_PZ_GW02	24/01/2022	59.1
Na:Ca Ratio		DG_A_I_PZ_GW02	17/02/2022	76.5
Na:Ca Ratio		DG_A_I_PZ_GW02	15/03/2022	63.2
Na:Ca Ratio		DG_A_I_PZ_GW02	28/04/2022	76.5
Na:Ca Ratio		DG_A_I_PZ_GW02	23/05/2022	87.5
Na:Ca Ratio		DG_A_I_PZ_GW02	8/06/2022	68.4
Na:Ca Ratio		DG_A_I_PZ_GW02	12/07/2022	72.2
Na:Ca Ratio		DG_A_I_PZ_GW02	24/08/2022	65.0
Na:Ca Ratio		DG_A_I_PZ_GW02	20/09/2022	80.0
Na:Ca Ratio		DG_A_I_PZ_GW02	11/10/2022	80.0
Na:Ca Ratio		DG_A_I_PZ_GW02	22/11/2022	57.9
Na:Ca Ratio		DG_A_I_PZ_GW02	20/12/2022	68.8
Na:Ca Ratio		DG_A_I_PZ_GW03	24/01/2022	11.3
Na:Ca Ratio		DG_A_I_PZ_GW03	17/02/2022	11.3
Na:Ca Ratio		DG_A_I_PZ_GW03	15/03/2022	10.0
Na:Ca Ratio		DG_A_I_PZ_GW03	28/04/2022	11.9
Na:Ca Ratio		DG_A_I_PZ_GW03	23/05/2022	11.8
Na:Ca Ratio		DG_A_I_PZ_GW03	8/06/2022	11.2
Na:Ca Ratio		DG_A_I_PZ_GW03	12/07/2022	10.0
Na:Ca Ratio		DG_A_I_PZ_GW03	24/08/2022	11.2

Variable	Unit	Sample Point	Date	Result
Na:Ca Ratio		DG_A_I_PZ_GW03	20/09/2022	3.7
Na:Ca Ratio		DG_A_I_PZ_GW03	11/10/2022	11.3
Na:Ca Ratio		DG_A_I_PZ_GW03	22/11/2022	11.9
Na:Ca Ratio		DG_A_I_PZ_GW03	20/12/2022	12.5
Na:Ca Ratio		DG_A_I_PZ_GW04	27/01/2022	12.5
Na:Ca Ratio		DG_A_I_PZ_GW04	20/07/2022	11.4
Na:Ca Ratio		DG_A_I_PZ_GW04A	27/01/2022	10.8
Na:Ca Ratio		DG_A_I_PZ_GW04A	17/02/2022	11.0
Na:Ca Ratio		DG_A_I_PZ_GW04A	16/03/2022	13.5
Na:Ca Ratio		DG_A_I_PZ_GW04A	12/07/2022	12.7
Na:Ca Ratio		DG_A_I_PZ_GW04A	28/04/2022	12.7
Na:Ca Ratio		DG_A_I_PZ_GW04A	24/05/2022	11.7
Na:Ca Ratio		DG_A_I_PZ_GW04A	8/06/2022	11.7
Na:Ca Ratio		DG_A_I_PZ_GW04A	12/07/2022	12.7
Na:Ca Ratio		DG_A_I_PZ_GW04A	23/08/2022	13.4
Na:Ca Ratio		DG_A_I_PZ_GW04A	20/09/2022	13.4
Na:Ca Ratio		DG_A_I_PZ_GW04A	11/10/2022	8.4
Na:Ca Ratio		DG_A_I_PZ_GW04A	28/11/2022	11.8
Na:Ca Ratio		DG_A_I_PZ_GW04A	20/12/2022	12.2
Na:Ca Ratio		DG_A_I_PZ_GW05	27/01/2022	19.8
Na:Ca Ratio		DG_A_I_PZ_GW05	16/03/2022	20.5
Na:Ca Ratio		DG_A_I_PZ_GW05	20/07/2022	20.5
Na:Ca Ratio		DG_A_I_PZ_GW06	13/01/2022	6.1
Na:Ca Ratio		DG_A_I_PZ_GW06	5/10/2022	5.9
Na:Ca Ratio		DG_A_I_PZ_GW07	18/01/2022	8.9
Na:Ca Ratio		DG_A_I_PZ_GW07	19/07/2022	9.1
Na:Ca Ratio		DG_A_I_PZ_GW08	13/01/2022	6.5
Na:Ca Ratio		DG_A_I_PZ_GW08	26/07/2022	6.3
Na:Ca Ratio		DG_A_I_PZ_IWB2	20/01/2022	64.9
Na:Ca Ratio		DG_A_I_PZ_IWB2	25/07/2022	77.8
Na:Ca Ratio		DG_A_I_PZ_IWB6	20/01/2022	50.0
Na:Ca Ratio		DG_A_I_PZ_IWB6	25/07/2022	50.0
Na:Ca Ratio		DG_A_I_PZ_WRK300	17/01/2022	5.5
Na:Ca Ratio		DG_A_I_PZ_WRK300	27/07/2022	7.5
Na:Ca Ratio		DG_A_I_PZ_WRK301	17/01/2022	6.6
Na:Ca Ratio		DG_A_I_PZ_WRK301	26/07/2022	6.5
Na:Ca Ratio		DG_A_I_PZ_WRK302	13/01/2022	8.2
Na:Ca Ratio		DG_A_I_PZ_WRK302	26/07/2022	7.7
Nickel (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	<0.001
Nickel (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	<0.001
Nickel (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	0.017
Nickel (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	0.024
Nickel (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	0.024
Nickel (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	0.026
Nickel (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	0.048
Nickel (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	0.058
Nickel (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	0.087
Nickel (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	0.031
Nickel (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	0.034
Nickel (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	0.037
Nickel (Total)	mg/L	DG_A_I_PZ_GW01	12/07/2022	0.027
Nickel (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	0.027
Nickel (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	0.006
Nickel (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	0.003
Nickel (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	0.005
Nickel (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	0.005
Nickel (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	0.006
Nickel (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	0.004

Variable	Unit	Sample Point	Date	Result
Nickel (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	0.005
Nickel (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	0.010
Nickel (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	0.007
Nickel (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	0.014
Nickel (Total)	mg/L	DG_A_I_PZ_GW04	5/10/2022	0.016
Nickel (Total)	mg/L	DG_A_I_PZ_GW04A	27/01/2022	0.005
Nickel (Total)	mg/L	DG_A_I_PZ_GW04A	17/02/2022	0.015
Nickel (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	0.011
Nickel (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	0.013
Nickel (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	0.001
Nickel (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	0.026
Nickel (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	0.010
Nickel (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	0.017
Nickel (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	0.022
Nickel (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	0.029
Nickel (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	0.030
Nickel (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	0.008
Nickel (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	0.009
Nickel (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	0.003
Nickel (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	0.003
Nickel (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	0.002
Nickel (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	0.002
Nickel (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	0.003
Nickel (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	0.005
Nickel (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	0.003
Nickel (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	0.003
Nickel (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	0.019
Nickel (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	0.019
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_BW05	19/01/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_BW05	21/07/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_BW28A	19/01/2022	0.009
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_BW28A	21/07/2022	0.003
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_BW36B	27/01/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_BW36B	27/07/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_BW45B	27/01/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_BW45B	20/07/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW01	24/01/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW01	17/02/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW01	15/03/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW01	12/07/2022	0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW01	19/07/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW02	24/01/2022	0.013
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW02	17/02/2022	0.016
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW02	15/03/2022	0.014
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW02	12/07/2022	0.007
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW03	24/01/2022	0.010
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW03	17/02/2022	0.007
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW03	15/03/2022	0.016
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW03	12/07/2022	0.010
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW04	27/01/2022	0.003
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW04	20/07/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW04A	27/01/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW04A	17/02/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW04A	16/03/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW04A	12/07/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW05	27/01/2022	0.033
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW05	20/07/2022	0.019
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW06	13/01/2022	<0.001

Variable	Unit	Sample Point	Date	Result
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW06	5/10/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW07	18/01/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW07	19/07/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW08	13/01/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_GW08	26/07/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_IWB2	20/01/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_IWB2	25/07/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_IWB6	20/01/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_IWB6	25/07/2022	0.003
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_WRK300	17/01/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_WRK300	27/07/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_WRK301	17/01/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_WRK301	26/07/2022	<0.001
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_WRK302	13/01/2022	0.003
Nitrate-Nitrogen	mg/L	DG_A_I_PZ_WRK302	26/07/2022	<0.001
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_BW05	19/01/2022	1.10
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_BW05	21/07/2022	1.50
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_BW28A	19/01/2022	0.22
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_BW28A	21/07/2022	0.26
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_BW36B	27/01/2022	0.01
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_BW36B	27/07/2022	0.04
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_BW45B	27/01/2022	0.19
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_BW45B	20/07/2022	0.19
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW01	24/01/2022	1.50
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW01	17/02/2022	1.20
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW01	15/03/2022	1.10
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW01	12/07/2022	1.40
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW01	19/07/2022	1.40
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW02	24/01/2022	5.30
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW02	17/02/2022	6.00
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW02	15/03/2022	5.30
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW02	12/07/2022	5.80
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW03	24/01/2022	1.80
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW03	17/02/2022	2.00
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW03	15/03/2022	1.60
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW03	12/07/2022	2.10
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW04	27/01/2022	3.70
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW04	20/07/2022	3.30
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW04A	27/01/2022	4.20
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW04A	17/02/2022	3.90
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW04A	16/03/2022	4.80
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW04A	12/07/2022	4.50
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW05	27/01/2022	4.70
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW05	20/07/2022	5.30
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW06	13/01/2022	0.12
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW06	5/10/2022	0.14
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW07	18/01/2022	0.60
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW07	19/07/2022	0.65
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW08	13/01/2022	0.30
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_GW08	26/07/2022	0.32
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_IWB2	20/01/2022	4.50
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_IWB2	25/07/2022	4.80
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_IWB6	20/01/2022	9.40
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_IWB6	25/07/2022	8.90
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_WRK300	17/01/2022	0.83
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_WRK300	27/07/2022	4.30
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_WRK301	17/01/2022	0.08
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_WRK301	26/07/2022	0.83

Variable	Unit	Sample Point	Date	Result
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_WRK302	13/01/2022	0.33
Nitrite-Nitrogen	mg/L	DG_A_I_PZ_WRK302	26/07/2022	0.36
Radium 226	mg/L	DG_A_I_PZ_BW05	19/01/2022	0.02
Radium 226	mg/L	DG_A_I_PZ_BW05	21/07/2022	<0.04
Radium 226	Bq/L	DG_A_I_PZ_BW28A	19/01/2022	0.10
Radium 226	Bq/L	DG_A_I_PZ_BW28A	21/07/2022	<0.04
Radium 226	Bq/L	DG_A_I_PZ_BW36B	27/01/2022	0.04
Radium 226	Bq/L	DG_A_I_PZ_BW36B	27/07/2022	<0.04
Radium 226	Bq/L	DG_A_I_PZ_BW45B	27/01/2022	0.89
Radium 226	Bq/L	DG_A_I_PZ_BW45B	17/03/2022	0.86
Radium 226	Bq/L	DG_A_I_PZ_BW45B	20/07/2022	0.88
Radium 226	Bq/L	DG_A_I_PZ_BW45B	5/10/2022	<0.03
Radium 226	Bq/L	DG_A_I_PZ_GW01	24/01/2022	0.49
Radium 226	Bq/L	DG_A_I_PZ_GW01	12/07/2022	0.54
Radium 226	Bq/L	DG_A_I_PZ_GW01	19/07/2022	0.54
Radium 226	Bq/L	DG_A_I_PZ_GW02	24/01/2022	0.10
Radium 226	Bq/L	DG_A_I_PZ_GW02	12/07/2022	<0.07
Radium 226	Bq/L	DG_A_I_PZ_GW03	24/01/2022	0.02
Radium 226	Bq/L	DG_A_I_PZ_GW03	12/07/2022	<0.06
Radium 226	Bq/L	DG_A_I_PZ_GW04	27/01/2022	0.14
Radium 226	Bq/L	DG_A_I_PZ_GW04	20/07/2022	< 0.05
Radium 226	Bq/L	DG_A_I_PZ_GW04A	27/01/2022	0.14
Radium 226	Bq/L	DG_A_I_PZ_GW04A	12/07/2022	0.04
Radium 226	Bq/L	DG_A_I_PZ_GW05	27/01/2022	0.04
Radium 226	Bq/L	DG_A_I_PZ_GW05	20/07/2022	<0.02
Radium 226	Bq/L	DG_A_I_PZ_GW06	13/01/2022	0.11
Radium 226	Bq/L	DG_A_I_PZ_GW06	5/10/2022	<0.03
Radium 226	Bq/L	DG_A_I_PZ_GW07	18/01/2022	<0.04
Radium 226	Bq/L	DG_A_I_PZ_GW07	19/07/2022	<0.03
Radium 226	Bq/L	DG_A_I_PZ_GW08	13/01/2022	0.04
Radium 226	Bq/L	DG_A_I_PZ_GW08	26/07/2022	<0.03
Radium 226	Bq/L	DG_A_I_PZ_IWB2	20/01/2022	0.02
Radium 226	Bq/L	DG_A_I_PZ_IWB2	25/07/2022	<0.04
Radium 226	Bq/L	DG_A_I_PZ_IWB6	20/01/2022	0.02
Radium 226	Bq/L	DG_A_I_PZ_IWB6	25/07/2022	<0.04
Radium 226	Bq/L	DG_A_I_PZ_WRK300	17/01/2022	0.02
Radium 226	Bq/L	DG_A_I_PZ_WRK300	27/07/2022	<0.03
Radium 226	Bq/L	DG_A_I_PZ_WRK301	17/01/2022	0.01
Radium 226	Bq/L	DG_A_I_PZ_WRK301	26/07/2022	<0.03
Radium 226	Bq/L	DG_A_I_PZ_WRK302	13/01/2022	0.23
Radium 226	Bq/L	DG_A_I_PZ_WRK302	26/07/2022	<0.03
Radium 228	Bq/L	DG_A_I_PZ_BW05	19/01/2022	<0.001
Radium 228	Bq/L	DG_A_I_PZ_BW05	21/07/2022	<0.06
Radium 228	Bq/L	DG_A_I_PZ_BW28A	19/01/2022	<0.001
Radium 228	Bq/L	DG_A_I_PZ_BW28A	21/07/2022	<0.06
Radium 228	Bq/L	DG_A_I_PZ_BW36B	27/01/2022	0.12
Radium 228	Bq/L	DG_A_I_PZ_BW36B	27/07/2022	<0.07
Radium 228	Bq/L	DG_A_I_PZ_BW45B	27/01/2022	3.78
Radium 228	Bq/L	DG_A_I_PZ_BW45B	17/03/2022	2.55
Radium 228	Bq/L	DG_A_I_PZ_BW45B	20/07/2022	6.20
Radium 228	Bq/L	DG_A_I_PZ_BW45B	5/10/2022	<0.04
Radium 228	Bq/L	DG_A_I_PZ_GW01	24/01/2022	0.94
Radium 228	Bq/L	DG_A_I_PZ_GW01	19/07/2022	2.20
Radium 228	Bq/L	DG_A_I_PZ_GW02	24/01/2022	0.21
Radium 228	Bq/L	DG_A_I_PZ_GW02	12/07/2022	<0.13
Radium 228	Bq/L	DG_A_I_PZ_GW03	24/01/2022	<0.001
Radium 228	Bq/L	DG_A_I_PZ_GW03	12/07/2022	<0.05
Radium 228	Bq/L	DG_A_I_PZ_GW04	27/01/2022	0.21

Variable	Unit	Sample Point	Date	Result
Radium 228	Bq/L	DG_A_I_PZ_GW04	20/07/2022	< 0.08
Radium 228	Bq/L	DG_A_I_PZ_GW04A	27/01/2022	0.46
Radium 228	Bq/L	DG_A_I_PZ_GW04A	12/07/2022	0.91
Radium 228	Bq/L	DG_A_I_PZ_GW05	27/01/2022	0.04
Radium 228	Bq/L	DG_A_I_PZ_GW05	20/07/2022	<0.07
Radium 228	Bq/L	DG_A_I_PZ_GW06	13/01/2022	0.12
Radium 228	Bq/L	DG_A_I_PZ_GW06	5/10/2022	<0.04
Radium 228	Bq/L	DG_A_I_PZ_GW07	18/01/2022	<0.09
Radium 228	Bq/L	DG_A_I_PZ_GW07	19/07/2022	0.84
Radium 228	Bq/L	DG_A_I_PZ_GW08	13/01/2022	<0.001
Radium 228	Bq/L	DG_A_I_PZ_GW08	26/07/2022	<0.05
Radium 228	Bq/L	DG_A_I_PZ_IWB2	20/01/2022	<0.001
Radium 228	Bq/L	DG_A_I_PZ_IWB2	25/07/2022	<0.04
Radium 228	Bq/L	DG_A_I_PZ_IWB6	20/01/2022	<0.08
Radium 228	Bq/L	DG_A_I_PZ_IWB6	25/07/2022	<0.03
Radium 228	Bq/L	DG_A_I_PZ_WRK300	17/01/2022	<0.001
Radium 228	Bq/L	DG_A_I_PZ_WRK300	27/07/2022	<0.04
Radium 228	Bq/L	DG_A_I_PZ_WRK301	17/01/2022	<0.001
Radium 228	Bq/L	DG_A_I_PZ_WRK301	26/07/2022	<0.04
Radium 228	Bq/L	DG_A_I_PZ_WRK302	13/01/2022	1.04
Radium 228	Bq/L	DG_A_I_PZ_WRK302	26/07/2022	1.20
Selenium (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	0.011
Selenium (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	0.014
Selenium (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	0.009
Selenium (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	0.014
Selenium (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	0.001
Selenium (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	0.003
Selenium (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	0.025
Selenium (Total)	mg/L	DG_A_I_PZ_BW45B	17/03/2022	0.010
Selenium (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	0.019
Selenium (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	0.033
Selenium (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	0.027
Selenium (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	0.018
Selenium (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	0.030
Selenium (Total)	mg/L	DG_A_I_PZ_GW01	28/04/2022	0.063
Selenium (Total)	mg/L	DG_A_I_PZ_GW01	23/05/2022	0.036
Selenium (Total)	mg/L	DG_A_I_PZ_GW01	8/06/2022	0.005
Selenium (Total)	mg/L	DG_A_I_PZ_GW01	12/07/2022	0.031
Selenium (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	0.031
Selenium (Total)	mg/L	DG_A_I_PZ_GW01	23/08/2022	0.041
Selenium (Total)	mg/L	DG_A_I_PZ_GW01	20/09/2022	0.054
Selenium (Total)	mg/L	DG_A_I_PZ_GW01	11/10/2022	0.024
Selenium (Total)	mg/L	DG_A_I_PZ_GW01	22/11/2022	0.019
Selenium (Total)	mg/L	DG_A_I_PZ_GW01	20/12/2022	0.059
Selenium (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	0.003
Selenium (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	0.002
Selenium (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	0.001
Selenium (Total)	mg/L	DG_A_I_PZ_GW02	28/04/2022	0.002
Selenium (Total)	mg/L	DG_A_I_PZ_GW02	23/05/2022	0.002
Selenium (Total)	mg/L	DG_A_I_PZ_GW02	8/06/2022	0.002
Selenium (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	0.002
Selenium (Total)	mg/L	DG_A_I_PZ_GW02	24/08/2022	0.002
Selenium (Total)	mg/L	DG_A_I_PZ_GW02	20/09/2022	0.003
Selenium (Total)	mg/L	DG_A_I_PZ_GW02	11/10/2022	0.003
Selenium (Total)	mg/L	DG_A_I_PZ_GW02	22/11/2022	0.003
Selenium (Total)	mg/L	DG_A_I_PZ_GW02	20/12/2022	0.003
Selenium (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	0.001
Selenium (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	0.001

Variable	Unit	Sample Point	Date	Result
Selenium (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	<0.001
Selenium (Total)	mg/L	DG_A_I_PZ_GW03	28/04/2022	0.001
Selenium (Total)	mg/L	DG_A_I_PZ_GW03	23/05/2022	0.001
Selenium (Total)	mg/L	DG_A_I_PZ_GW03	8/06/2022	0.001
Selenium (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	0.001
Selenium (Total)	mg/L	DG_A_I_PZ_GW03	24/08/2022	0.001
Selenium (Total)	mg/L	DG_A_I_PZ_GW03	20/09/2022	0.001
Selenium (Total)	mg/L	DG_A_I_PZ_GW03	11/10/2022	0.002
Selenium (Total)	mg/L	DG_A_I_PZ_GW03	22/11/2022	0.001
Selenium (Total)	mg/L	DG_A_I_PZ_GW03	20/12/2022	0.001
Selenium (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	0.018
Selenium (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	0.025
Selenium (Total)	mg/L	DG_A_I_PZ_GW04	5/10/2022	0.026
Selenium (Total)	mg/L	DG_A_I_PZ_GW04A	27/01/2022	0.012
Selenium (Total)	mg/L	DG_A_I_PZ_GW04A	17/02/2022	0.005
Selenium (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	0.011
Selenium (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	0.015
Selenium (Total)	mg/L	DG_A_I_PZ_GW04A	28/04/2022	0.012
Selenium (Total)	mg/L	DG_A_I_PZ_GW04A	24/05/2022	0.011
Selenium (Total)	mg/L	DG_A_I_PZ_GW04A	8/06/2022	0.016
Selenium (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	0.015
Selenium (Total)	mg/L	DG_A_I_PZ_GW04A	23/08/2022	0.012
Selenium (Total)	mg/L	DG_A_I_PZ_GW04A	20/09/2022	0.009
Selenium (Total)	mg/L	DG_A_I_PZ_GW04A	11/10/2022	0.009
Selenium (Total)	mg/L	DG_A_I_PZ_GW04A	28/11/2022	0.012
Selenium (Total)	mg/L	DG_A_I_PZ_GW04A	20/12/2022	0.006
Selenium (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	0.022
Selenium (Total)	mg/L	DG_A_I_PZ_GW05	16/03/2022	0.020
Selenium (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	0.025
Selenium (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	0.024
Selenium (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	0.008
Selenium (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	0.008
Selenium (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	0.008
Selenium (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	0.010
Selenium (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	0.016
Selenium (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	0.016
Selenium (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	<0.001
Selenium (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	0.001
Selenium (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	0.002
Selenium (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	0.003
Selenium (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	0.002
Selenium (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	0.003
Selenium (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	0.006
Selenium (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	0.006
Selenium (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	0.010
Selenium (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	0.010
Sodium	mg/L	DG_A_I_PZ_BW05	19/01/2022	4400
Sodium	mg/L	DG_A_I_PZ_BW05	21/07/2022	4400
Sodium	mg/L	DG_A_I_PZ_BW28A	19/01/2022	3300
Sodium	mg/L	DG_A_I_PZ_BW28A	21/07/2022	3600
Sodium	mg/L	DG_A_I_PZ_BW36B	27/01/2022	1600
Sodium	mg/L	DG_A_I_PZ_BW36B	27/07/2022	1700
Sodium	mg/L	DG_A_I_PZ_BW45B	27/01/2022	3000
Sodium	mg/L	DG_A_I_PZ_BW45B	20/07/2022	3100
Sodium	mg/L	DG_A_I_PZ_GW01	24/01/2022	1700
Sodium	mg/L	DG_A_I_PZ_GW01	17/02/2022	1900
Sodium	mg/L	DG_A_I_PZ_GW01	15/03/2022	1900
Sodium	mg/L	DG_A_I_PZ_GW01	28/04/2022	2000

Variable	Unit	Sample Point	Date	Result
Sodium	mg/L	DG_A_I_PZ_GW01	23/05/2022	2000
Sodium	mg/L	DG_A_I_PZ_GW01	8/06/2022	2000
Sodium	mg/L	DG_A_I_PZ_GW01	12/07/2022	1900
Sodium	mg/L	DG_A_I_PZ_GW01	19/07/2022	1900
Sodium	mg/L	DG_A_I_PZ_GW01	23/08/2022	1800
Sodium	mg/L	DG_A_I_PZ_GW01	20/09/2022	2000
Sodium	mg/L	DG_A_I_PZ_GW01	11/10/2022	2000
Sodium	mg/L	DG_A_I_PZ_GW01	22/11/2022	2000
Sodium	mg/L	DG_A_I_PZ_GW01	20/12/2022	2000
Sodium	mg/L	DG_A_I_PZ_GW02	24/01/2022	1300
Sodium	mg/L	DG_A_I_PZ_GW02	17/02/2022	1300
Sodium	mg/L	DG_A_I_PZ_GW02	15/03/2022	1200
Sodium	mg/L	DG_A_I_PZ_GW02	28/04/2022	1300
Sodium	mg/L	DG_A_I_PZ_GW02	23/05/2022	1400
Sodium	mg/L	DG_A_I_PZ_GW02	8/06/2022	1300
Sodium	mg/L	DG_A_I_PZ_GW02	12/07/2022	1300
Sodium	mg/L	DG_A_I_PZ_GW02	24/08/2022	1300
Sodium	mg/L	DG_A_I_PZ_GW02	20/09/2022	1200
Sodium	mg/L	DG_A_I_PZ_GW02	11/10/2022	1200
Sodium	mg/L	DG_A_I_PZ_GW02	22/11/2022	1100
Sodium	mg/L	DG_A_I_PZ_GW02	20/12/2022	1100
Sodium	mg/L	DG_A_I_PZ_GW03	24/01/2022	1800
Sodium	mg/L	DG_A_I_PZ_GW03	17/02/2022	1800
Sodium	mg/L	DG_A_I_PZ_GW03	15/03/2022	1800
Sodium	mg/L	DG_A_I_PZ_GW03	28/04/2022	1900
Sodium	mg/L	DG_A_I_PZ_GW03	23/05/2022	2000
Sodium	mg/L	DG_A_I_PZ_GW03	8/06/2022	1900
Sodium	mg/L	DG_A_I_PZ_GW03	12/07/2022	1900
Sodium	mg/L	DG_A_I_PZ_GW03	24/08/2022	1900
Sodium	mg/L	DG_A_I_PZ_GW03	20/09/2022	1900
Sodium	mg/L	DG_A_I_PZ_GW03	11/10/2022	1800
Sodium	mg/L	DG_A_I_PZ_GW03	22/11/2022	1900
Sodium	mg/L	DG_A_I_PZ_GW03	20/12/2022	2000
Sodium	mg/L	DG_A_I_PZ_GW04	27/01/2022	1500
Sodium	mg/L	DG_A_I_PZ_GW04	20/07/2022	1600
Sodium	mg/L	DG_A_I_PZ_GW04A	27/01/2022	1300
Sodium	mg/L	DG_A_I_PZ_GW04A	17/02/2022	900
Sodium	mg/L	DG_A_I_PZ_GW04A	16/03/2022	1300
Sodium	mg/L	DG_A_I_PZ_GW04A	12/07/2022	1400
Sodium	mg/L	DG_A_I_PZ_GW04A	28/04/2022	1400
Sodium	mg/L	DG_A_I_PZ_GW04A	24/05/2022	1400
Sodium	mg/L	DG_A_I_PZ_GW04A	8/06/2022	1400
Sodium	mg/L	DG_A_I_PZ_GW04A	12/07/2022	1400
Sodium	mg/L	DG_A_I_PZ_GW04A	23/08/2022	1300
Sodium	mg/L	DG_A_I_PZ_GW04A	20/09/2022	1300
Sodium	mg/L	DG_A_I_PZ_GW04A	11/10/2022	840
Sodium	mg/L	DG_A_I_PZ_GW04A	28/11/2022	1300
Sodium	mg/L	DG_A_I_PZ_GW04A	20/12/2022	1000
Sodium	mg/L	DG_A_I_PZ_GW05	27/01/2022	1700
Sodium	mg/L	DG_A_I_PZ_GW05	16/03/2022	1800
Sodium	mg/L	DG_A_I_PZ_GW05	20/07/2022	1800
Sodium	mg/L	DG_A_I_PZ_GW06	13/01/2022	3700
Sodium	mg/L	DG_A_I_PZ_GW06	5/10/2022	3100
Sodium	mg/L	DG_A_I_PZ_GW07	18/01/2022	3200
Sodium	mg/L	DG_A_I_PZ_GW07	19/07/2022	3100
Sodium	mg/L	DG_A_I_PZ_GW08	13/01/2022	3600
Sodium	mg/L	DG_A_I_PZ_GW08	26/07/2022	3300
Sodium	mg/L	DG_A_I_PZ_IWB2	20/01/2022	630

Variable	Unit	Sample Point	Date	Result
Sodium	mg/L	DG_A_I_PZ_IWB2	25/07/2022	630
Sodium	mg/L	DG_A_I_PZ_IWB6	20/01/2022	300
Sodium	mg/L	DG_A_I_PZ_IWB6	25/07/2022	300
Sodium	mg/L	DG_A_I_PZ_WRK300	17/01/2022	880
Sodium	mg/L	DG_A_I_PZ_WRK300	27/07/2022	970
Sodium	mg/L	DG_A_I_PZ_WRK301	17/01/2022	1900
Sodium	mg/L	DG_A_I_PZ_WRK301	26/07/2022	1300
Sodium	mg/L	DG_A_I_PZ_WRK302	13/01/2022	3600
Sodium	mg/L	DG_A_I_PZ_WRK302	26/07/2022	3300
Sulfate	mg/L	DG_A_I_PZ_BW05	19/01/2022	830
Sulfate	mg/L	DG_A_I_PZ_BW05	21/07/2022	720
Sulfate	mg/L	DG_A_I_PZ_BW28A	19/01/2022	970
Sulfate	mg/L	DG_A_I_PZ_BW28A	21/07/2022	830
Sulfate	mg/L	DG_A_I_PZ_BW36B	27/01/2022	320
Sulfate	mg/L	DG_A_I_PZ_BW36B	27/07/2022	330
Sulfate	mg/L	DG_A_I_PZ_BW45B	27/01/2022	1000
Sulfate	mg/L	DG_A_I_PZ_BW45B	20/07/2022	860
Sulfate	mg/L	DG_A_I_PZ_GW01	24/01/2022	460
Sulfate	mg/L	DG_A_I_PZ_GW01	17/02/2022	510
Sulfate	mg/L	DG_A_I_PZ_GW01	15/03/2022	490
Sulfate	mg/L	DG_A_I_PZ_GW01	28/04/2022	420
Sulfate	mg/L	DG_A_I_PZ_GW01	23/05/2022	450
Sulfate	mg/L	DG_A_I_PZ_GW01	8/06/2022	470
Sulfate	mg/L	DG_A_I_PZ_GW01	12/07/2022	440
Sulfate	mg/L	DG_A_I_PZ_GW01	19/07/2022	440
Sulfate	mg/L	DG_A_I_PZ_GW01	23/08/2022	410
Sulfate	mg/L	DG_A_I_PZ_GW01	20/09/2022	440
Sulfate	mg/L	DG_A_I_PZ_GW01	11/10/2022	620
Sulfate	mg/L	DG_A_I_PZ_GW01	22/11/2022	420
Sulfate	mg/L	DG_A_I_PZ_GW01	20/12/2022	460
Sulfate	mg/L	DG_A_I_PZ_GW02	24/01/2022	390
Sulfate	mg/L	DG_A_I_PZ_GW02	17/02/2022	350
Sulfate	mg/L	DG_A_I_PZ_GW02	15/03/2022	370
Sulfate	mg/L	DG_A_I_PZ_GW02	28/04/2022	340
Sulfate	mg/L	DG_A_I_PZ_GW02	23/05/2022	360
Sulfate	mg/L	DG_A_I_PZ_GW02	8/06/2022	430
Sulfate	mg/L	DG_A_I_PZ_GW02	12/07/2022	450
Sulfate	mg/L	DG_A_I_PZ_GW02	24/08/2022	380
Sulfate	mg/L	DG_A_I_PZ_GW02	20/09/2022	320
Sulfate	mg/L	DG_A_I_PZ_GW02	11/10/2022	440
Sulfate		DG_A_I_PZ_GW02	22/11/2022	300
Sulfate		DG_A_I_PZ_GW02	20/12/2022	340
Sulfate		DG_A_I_PZ_GW03	24/01/2022	530
Sulfate		DG_A_I_PZ_GW03	17/02/2022	540
Sulfate		DG_A_I_PZ_GW03	15/03/2022	520
Sulfate		DG_A_I_PZ_GW03	28/04/2022	450
Sulfate		DG_A_I_PZ_GW03	23/05/2022	460
Sulfate		DG_A_I_PZ_GW03	8/06/2022	580
Sulfate		DG_A_I_PZ_GW03	12/07/2022	520
Sulfate		DG_A_I_PZ_GW03	24/08/2022	460
Sulfate		DG_A_I_PZ_GW03	20/09/2022	460
Sulfate		DG_A_I_PZ_GW03	11/10/2022	580
Sulfate		DG_A_I_PZ_GW03	22/11/2022	430
Sulfate		DG_A_I_PZ_GW03	20/12/2022	510
Sulfate		DG_A_I_PZ_GW04	27/01/2022	600
Sulfate		DG_A_I_PZ_GW04	20/07/2022	480
Sulfate		DG_A_I_PZ_GW04A	27/01/2022	400
Sulfate		DG_A_I_PZ_GW04A	17/02/2022	240

Variable	Unit	Sample Point	Date	Result
Sulfate	mg/L	DG_A_I_PZ_GW04A	16/03/2022	390
Sulfate	mg/L	DG_A_I_PZ_GW04A	28/04/2022	300
Sulfate	mg/L	DG_A_I_PZ_GW04A	24/05/2022	380
Sulfate	mg/L	DG_A_I_PZ_GW04A	8/06/2022	440
Sulfate	mg/L	DG_A_I_PZ_GW04A	12/07/2022	420
Sulfate	mg/L	DG_A_I_PZ_GW04A	23/08/2022	330
Sulfate	mg/L	DG_A_I_PZ_GW04A	20/09/2022	320
Sulfate	mg/L	DG_A_I_PZ_GW04A	11/10/2022	290
Sulfate	mg/L	DG_A_I_PZ_GW04A	28/11/2022	340
Sulfate	mg/L	DG_A_I_PZ_GW04A	20/12/2022	200
Sulfate	mg/L	DG_A_I_PZ_GW05	27/01/2022	650
Sulfate	mg/L	DG_A_I_PZ_GW05	20/07/2022	540
Sulfate	mg/L	DG_A_I_PZ_GW06	13/01/2022	1500
Sulfate	mg/L	DG_A_I_PZ_GW06	5/10/2022	1300
Sulfate	mg/L	DG_A_I_PZ_GW07	18/01/2022	880
Sulfate	mg/L	DG_A_I_PZ_GW07	19/07/2022	850
Sulfate	mg/L	DG_A_I_PZ_GW08	13/01/2022	1300
Sulfate	mg/L	DG_A_I_PZ_GW08	26/07/2022	1300
Sulfate	mg/L	DG_A_I_PZ_IWB2	20/01/2022	160
Sulfate	mg/L	DG_A_I_PZ_IWB2	25/07/2022	130
Sulfate	mg/L	DG_A_I_PZ_IWB6	20/01/2022	210
Sulfate	mg/L	DG_A_I_PZ_IWB6	25/07/2022	180
Sulfate	mg/L	DG_A_I_PZ_WRK300	17/01/2022	340
Sulfate	mg/L	DG_A_I_PZ_WRK300	27/07/2022	390
Sulfate	mg/L	DG_A_I_PZ_WRK301	17/01/2022	580
Sulfate	mg/L	DG_A_I_PZ_WRK301	26/07/2022	530
Sulfate	mg/L	DG_A_I_PZ_WRK302	13/01/2022	1400
Sulfate	mg/L	DG_A_I_PZ_WRK302	26/07/2022	1400
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW05	19/01/2022	15000
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW05	21/07/2022	14000
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW28A	19/01/2022	15000
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW28A	21/07/2022	13000
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW36B	27/01/2022	5700
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW36B	27/07/2022	5500
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW45B	27/01/2022	11000
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW45B	20/07/2022	10000
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW45B	5/10/2022	11390
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	24/01/2022	6400
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	17/02/2022	6800
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	15/03/2022	7000
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	28/04/2022	7800
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	23/05/2022	7100
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	8/06/2022	7500
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	12/07/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	19/07/2022	6600
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	23/08/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	20/09/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	11/10/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	22/11/2022	7600
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	20/12/2022	7600
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	24/01/2022	4300
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	17/02/2022	4100
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	15/03/2022	4300
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	28/04/2022	4700
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	23/05/2022	4500
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	8/06/2022	4700
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	12/07/2022	4958
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	24/08/2022	4891

Variable	Unit	Sample Point	Date	Result
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	20/09/2022	4824
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	11/10/2022	4556
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	22/11/2022	4200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	20/12/2022	4200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	24/01/2022	6600
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	17/02/2022	6400
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	15/03/2022	6700
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	28/04/2022	7100
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	23/05/2022	6800
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	8/06/2022	7200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	12/07/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	24/08/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	20/09/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	11/10/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	22/11/2022	7400
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	20/12/2022	7900
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04	27/01/2022	5500
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04	20/07/2022	5200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04	5/10/2022	6030
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	27/01/2022	5200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	17/02/2022	3200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	16/03/2022	4400
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	28/04/2022	5300
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	24/05/2022	5200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	8/06/2022	5400
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	12/07/2022	4500
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	23/08/2022	4800
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	20/09/2022	5000
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	11/10/2022	3500
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	28/11/2022	5100
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	20/12/2022	4300
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW05	27/01/2022	5400
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW05	20/07/2022	5100
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW05	5/10/2022	6164
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW06	13/01/2022	13000
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW06	5/10/2022	13000
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW07	18/01/2022	11000
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW07	19/07/2022	12060
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW08	13/01/2022	13000
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW08	26/07/2022	14000
Total Dissolved Solids	mg/L	DG_A_I_PZ_IWB2	20/01/2022	2100
Total Dissolved Solids	mg/L	DG_A_I_PZ_IWB2	25/07/2022	2100
Total Dissolved Solids	mg/L	DG_A_I_PZ_IWB6	20/01/2022	1000
Total Dissolved Solids	mg/L	DG_A_I_PZ_IWB6	25/07/2022	1000
Total Dissolved Solids	mg/L	DG_A_I_PZ_WRK300	17/01/2022	3700
Total Dissolved Solids	mg/L	DG_A_I_PZ_WRK300	27/07/2022	3300
Total Dissolved Solids	mg/L	DG_A_I_PZ_WRK301	17/01/2022	6900
Total Dissolved Solids	mg/L	DG_A_I_PZ_WRK301	26/07/2022	5000
Total Dissolved Solids	mg/L	DG_A_I_PZ_WRK302	13/01/2022	12000
Total Dissolved Solids	mg/L	DG_A_I_PZ_WRK302	26/07/2022	12000
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW05	19/01/2022	15000
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW05	21/07/2022	14000
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW28A	19/01/2022	15000
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW28A	21/07/2022	13000
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW36B	27/01/2022	5700
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW36B	27/07/2022	5500
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW45B	27/01/2022	11000
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW45B	20/07/2022	10000

Variable	Unit	Sample Point	Date	Result
Total Dissolved Solids	mg/L	DG_A_I_PZ_BW45B	5/10/2022	11390
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	24/01/2022	6400
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	17/02/2022	6800
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	15/03/2022	7000
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	28/04/2022	7800
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	23/05/2022	7100
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	8/06/2022	7500
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	12/07/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	19/07/2022	6600
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	23/08/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	20/09/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	11/10/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	22/11/2022	7600
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW01	20/12/2022	7600
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	24/01/2022	4300
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	17/02/2022	4100
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	15/03/2022	4300
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	28/04/2022	4700
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	23/05/2022	4500
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	8/06/2022	4700
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	12/07/2022	4958
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	24/08/2022	4891
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	20/09/2022	4824
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	11/10/2022	4556
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	22/11/2022	4200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW02	20/12/2022	4200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	24/01/2022	6600
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	17/02/2022	6400
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	15/03/2022	6700
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	28/04/2022	7100
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	23/05/2022	6800
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	8/06/2022	7200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	12/07/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	24/08/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	20/09/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	11/10/2022	7370
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	22/11/2022	7400
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW03	20/12/2022	7900
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04	27/01/2022	5500
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04	20/07/2022	5200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04	5/10/2022	6030
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	27/01/2022	5200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	17/02/2022	3200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	16/03/2022	4400
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	28/04/2022	5300
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	24/05/2022	5200
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	8/06/2022	5400
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	12/07/2022	4500
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	23/08/2022	4800
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	20/09/2022	5000
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	11/10/2022	3500
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	28/11/2022	5100
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW04A	20/12/2022	4300
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW05	27/01/2022	5400
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW05	20/07/2022	5100
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW05	5/10/2022	6164
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW06	13/01/2022	13000
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW06	5/10/2022	13000

Variable	Unit	Sample Point	Date	Result
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW07	18/01/2022	11000
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW07	19/07/2022	12060
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW08	13/01/2022	13000
Total Dissolved Solids	mg/L	DG_A_I_PZ_GW08	26/07/2022	14000
Total Dissolved Solids	mg/L	DG_A_I_PZ_IWB2	20/01/2022	2100
Total Dissolved Solids	mg/L	DG_A_I_PZ_IWB2	25/07/2022	2100
Total Dissolved Solids	mg/L	DG_A_I_PZ_IWB6	20/01/2022	1000
Total Dissolved Solids	mg/L	DG_A_I_PZ_IWB6	25/07/2022	1000
Total Dissolved Solids	mg/L	DG_A_I_PZ_WRK300	17/01/2022	3700
Total Dissolved Solids	mg/L	DG_A_I_PZ_WRK300	27/07/2022	3300
Total Dissolved Solids	mg/L	DG_A_I_PZ_WRK301	17/01/2022	6900
Total Dissolved Solids	mg/L	DG_A_I_PZ_WRK301	26/07/2022	5000
Total Dissolved Solids	mg/L	DG_A_I_PZ_WRK302	13/01/2022	12000
Total Dissolved Solids	mg/L	DG_A_I_PZ_WRK302	26/07/2022	12000
Uranium (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	0.004
Uranium (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	0.004
Uranium (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	0.007
Uranium (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	0.008
Uranium (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	0.020
Uranium (Total)	mg/L	DG_A_I_PZ_BW45B	17/03/2022	0.002
Uranium (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	0.031
Uranium (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	0.005
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	0.003
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	0.002
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	0.002
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	28/04/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	23/05/2022	0.002
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	8/06/2022	0.003
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	12/07/2022	0.003
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	0.003
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	23/08/2022	0.003
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	20/09/2022	0.003
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	11/10/2022	0.003
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	14/11/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	22/11/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW01	20/12/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW02	28/04/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW02	23/05/2022	0.002
Uranium (Total)	mg/L	DG_A_I_PZ_GW02	8/06/2022	0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW02	24/08/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW02	20/09/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW02	11/10/2022	0.003
Uranium (Total)	mg/L	DG_A_I_PZ_GW02	22/11/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW02	20/12/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW03	28/04/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW03	22/11/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW04	16/03/2022	<0.001

Variable	Unit	Sample Point	Date	Result
Uranium (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW04	5/10/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW04A	28/04/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW04A	24/05/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW04A	8/06/2022	<0.0005
Uranium (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW04A	23/08/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW04A	20/09/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW04A	11/10/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW04A	28/11/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW04A	20/12/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW05	16/03/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	0.003
Uranium (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	0.003
Uranium (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	<0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	0.001
Uranium (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	0.001
Uranium (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	<0.0001
Uranium (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	<0.0001
Uranium (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	<0.0001
Uranium (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	<0.0001
Uranium (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	0.001
Uranium (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	0.000
Uranium (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	0.004
Uranium (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	0.004
Uranium (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	0.003
Uranium (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	0.001
Uranium 238	Bq/L	DG_A_I_PZ_BW05	19/01/2022	0.037
Uranium 238	Bq/L	DG_A_I_PZ_BW05	21/07/2022	0.052
Uranium 238	Bq/L	DG_A_I_PZ_BW28A	19/01/2022	0.062
Uranium 238	Bq/L	DG_A_I_PZ_BW28A	21/07/2022	0.100
Uranium 238	Bq/L	DG_A_I_PZ_BW36B	27/01/2022	0.001
Uranium 238	Bq/L	DG_A_I_PZ_BW36B	27/07/2022	0.001
Uranium 238	Bq/L	DG_A_I_PZ_BW45B	20/07/2022	0.380
Uranium 238	Bq/L	DG_A_I_PZ_BW45B	5/10/2022	0.060
Uranium 238	Bq/L	DG_A_I_PZ_GW01	24/01/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW01	17/02/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW01	15/03/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW01	28/04/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW01	23/05/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW01	8/06/2022	0.031
Uranium 238	Bq/L	DG_A_I_PZ_GW01	12/07/2022	0.014
Uranium 238	Bq/L	DG_A_I_PZ_GW01	19/07/2022	0.035
Uranium 238	Bq/L	DG_A_I_PZ_GW01	23/08/2022	0.040
Uranium 238	Bq/L	DG_A_I_PZ_GW01	20/09/2022	0.032
Uranium 238	Bq/L	DG_A_I_PZ_GW01	11/10/2022	0.032
Uranium 238	Bq/L	DG_A_I_PZ_GW01	22/11/2022	0.002
Uranium 238	Bq/L	DG_A_I_PZ_GW01	20/12/2022	0.002
Uranium 238	Bq/L	DG_A_I_PZ_GW02	24/01/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW02	17/02/2022	0.037
Uranium 238	Bq/L	DG_A_I_PZ_GW02	15/03/2022	<0.025
Uranium 238	Bq/L	DG_A_I_PZ_GW02	28/04/2022	<0.025
Uranium 238	Bq/L	DG_A_I_PZ_GW02	23/05/2022	<0.025

Variable	Unit	Sample Point	Date	Result
Uranium 238	Bq/L	DG_A_I_PZ_GW02	8/06/2022	<0.002
Uranium 238	Bq/L	DG_A_I_PZ_GW02	12/07/2022	0.014
Uranium 238	Bq/L	DG_A_I_PZ_GW02	22/11/2022	0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW03	24/01/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW03	17/02/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW03	15/03/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW03	28/04/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW03	23/05/2022	<0.025
Uranium 238	Bq/L	DG_A_I_PZ_GW03	8/06/2022	<0.002
Uranium 238	Bq/L	DG_A_I_PZ_GW03	12/07/2022	0.007
Uranium 238	Bq/L	DG_A_I_PZ_GW03	22/11/2022	0.000
Uranium 238	Bq/L	DG_A_I_PZ_GW04	16/03/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW04	20/07/2022	< 0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW04A	17/02/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW04A	16/03/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW04A	28/04/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW04A	24/05/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW04A	8/06/2022	<0.002
Uranium 238	Bq/L	DG_A_I_PZ_GW04A	12/07/2022	0.004
Uranium 238	Bq/L	DG_A_I_PZ_GW04A	23/08/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW04A	28/11/2022	<0.0001
Uranium 238	Bq/L	DG_A_I_PZ_GW05	16/03/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW05	20/07/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_GW06	13/01/2022	0.060
Uranium 238	Bq/L	DG_A_I_PZ_GW06	5/10/2022	0.036
Uranium 238	Bq/L	DG_A_I_PZ_GW07	18/01/2022	0.006
Uranium 238	Bq/L	DG_A_I_PZ_GW07	19/07/2022	0.005
Uranium 238	Bq/L	DG_A_I_PZ_GW08	13/01/2022	0.617
Uranium 238	Bq/L	DG_A_I_PZ_GW08	26/07/2022	0.019
Uranium 238	Bq/L	DG_A_I_PZ_IWB2	20/01/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_IWB2	25/07/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_IWB6	20/01/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_IWB6	25/07/2022	0.002
Uranium 238	Bq/L	DG_A_I_PZ_WRK300	17/01/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_WRK300	27/07/2022	0.001
Uranium 238	Bq/L	DG_A_I_PZ_WRK301	17/01/2022	<0.001
Uranium 238	Bq/L	DG_A_I_PZ_WRK301	26/07/2022	0.051
Uranium 238	Bq/L	DG_A_I_PZ_WRK302	13/01/2022	0.037
Uranium 238	Bq/L	DG_A_I_PZ_WRK302	26/07/2022	0.011
Zinc (Total)	mg/L	DG_A_I_PZ_BW05	19/01/2022	0.008
Zinc (Total)	mg/L	DG_A_I_PZ_BW05	21/07/2022	0.010
Zinc (Total)	mg/L	DG_A_I_PZ_BW28A	19/01/2022	0.017
Zinc (Total)	mg/L	DG_A_I_PZ_BW28A	21/07/2022	0.024
Zinc (Total)	mg/L	DG_A_I_PZ_BW36B	27/01/2022	0.024
Zinc (Total)	mg/L	DG_A_I_PZ_BW36B	27/07/2022	0.026
Zinc (Total)	mg/L	DG_A_I_PZ_BW45B	27/01/2022	0.029
Zinc (Total)	mg/L	DG_A_I_PZ_BW45B	20/07/2022	0.031
Zinc (Total)	mg/L	DG_A_I_PZ_BW45B	5/10/2022	0.077
Zinc (Total)	mg/L	DG_A_I_PZ_GW01	24/01/2022	0.004
Zinc (Total)	mg/L	DG_A_I_PZ_GW01	17/02/2022	0.043
Zinc (Total)	mg/L	DG_A_I_PZ_GW01	15/03/2022	0.043
Zinc (Total)	mg/L	DG_A_I_PZ_GW01	12/07/2022	0.015
Zinc (Total)	mg/L	DG_A_I_PZ_GW01	19/07/2022	0.015
Zinc (Total)	mg/L	DG_A_I_PZ_GW02	24/01/2022	<0.001
Zinc (Total)	mg/L	DG_A_I_PZ_GW02	17/02/2022	0.022
Zinc (Total)	mg/L	DG_A_I_PZ_GW02	15/03/2022	0.014
Zinc (Total)	mg/L	DG_A_I_PZ_GW02	12/07/2022	0.018
Zinc (Total)	mg/L	DG_A_I_PZ_GW03	24/01/2022	0.005

Variable	Unit	Sample Point	Date	Result
Zinc (Total)	mg/L	DG_A_I_PZ_GW03	17/02/2022	0.022
Zinc (Total)	mg/L	DG_A_I_PZ_GW03	15/03/2022	0.019
Zinc (Total)	mg/L	DG_A_I_PZ_GW03	12/07/2022	0.260
Zinc (Total)	mg/L	DG_A_I_PZ_GW03	24/08/2022	0.005
Zinc (Total)	mg/L	DG_A_I_PZ_GW04	27/01/2022	0.020
Zinc (Total)	mg/L	DG_A_I_PZ_GW04	20/07/2022	0.049
Zinc (Total)	mg/L	DG_A_I_PZ_GW04	5/10/2022	0.044
Zinc (Total)	mg/L	DG_A_I_PZ_GW04A	17/02/2022	0.063
Zinc (Total)	mg/L	DG_A_I_PZ_GW04A	16/03/2022	0.067
Zinc (Total)	mg/L	DG_A_I_PZ_GW04A	12/07/2022	0.068
Zinc (Total)	mg/L	DG_A_I_PZ_GW05	27/01/2022	0.017
Zinc (Total)	mg/L	DG_A_I_PZ_GW05	20/07/2022	0.046
Zinc (Total)	mg/L	DG_A_I_PZ_GW05	5/10/2022	0.037
Zinc (Total)	mg/L	DG_A_I_PZ_GW06	13/01/2022	0.004
Zinc (Total)	mg/L	DG_A_I_PZ_GW06	5/10/2022	0.022
Zinc (Total)	mg/L	DG_A_I_PZ_GW07	18/01/2022	0.013
Zinc (Total)	mg/L	DG_A_I_PZ_GW07	19/07/2022	0.012
Zinc (Total)	mg/L	DG_A_I_PZ_GW08	13/01/2022	0.017
Zinc (Total)	mg/L	DG_A_I_PZ_GW08	26/07/2022	0.006
Zinc (Total)	mg/L	DG_A_I_PZ_IWB2	20/01/2022	0.110
Zinc (Total)	mg/L	DG_A_I_PZ_IWB2	25/07/2022	0.015
Zinc (Total)	mg/L	DG_A_I_PZ_IWB6	20/01/2022	0.012
Zinc (Total)	mg/L	DG_A_I_PZ_IWB6	25/07/2022	0.015
Zinc (Total)	mg/L	DG_A_I_PZ_WRK300	17/01/2022	0.023
Zinc (Total)	mg/L	DG_A_I_PZ_WRK300	27/07/2022	0.057
Zinc (Total)	mg/L	DG_A_I_PZ_WRK301	17/01/2022	0.025
Zinc (Total)	mg/L	DG_A_I_PZ_WRK301	26/07/2022	0.033
Zinc (Total)	mg/L	DG_A_I_PZ_WRK302	13/01/2022	0.013
Zinc (Total)	mg/L	DG_A_I_PZ_WRK302	26/07/2022	0.009

Appendix C: Monitoring Data (Field) – Groundwater

Variable	Unit	Sample Point	Date	Result
Dissolved Oxygen	%	DG_A_I_PZ_WRK300	17/01/2022	10.0
Dissolved Oxygen	%	DG_A_I_PZ_WRK300	27/07/2022	40.0
Dissolved Oxygen	%	DG_A_I_PZ_WRK301	17/01/2022	15.0
Dissolved Oxygen	%	DG_A_I_PZ_WRK301	26/07/2022	11.0
Dissolved Oxygen	%	DG_A_I_PZ_WRK302	13/01/2022	63.0
Dissolved Oxygen	%	DG_A_I_PZ_WRK302	26/07/2022	59.0
Dissolved Oxygen	%	DG_A_I_PZ_IWB2	20/01/2022	0.0
Dissolved Oxygen	%	DG_A_I_PZ_IWB2	25/07/2022	0.0
Dissolved Oxygen	%	DG_A_I_PZ_IWB6	20/01/2022	2.0
Dissolved Oxygen	%	DG_A_I_PZ_IWB6	25/07/2022	44.0
Dissolved Oxygen	%	DG_A_I_PZ_BW28A	19/01/2022	0.0
Dissolved Oxygen	%	DG_A_I_PZ_BW28A	21/07/2022	0.0
Dissolved Oxygen	%	DG_A_I_PZ_BW36B	27/01/2022	0.0
Dissolved Oxygen	%	DG_A_I_PZ_BW36B	27/07/2022	1.0
Dissolved Oxygen	%	DG_A_I_PZ_BW45B	27/01/2022	24.0
Dissolved Oxygen	%	DG_A_I_PZ_BW45B	20/07/2022	40.0
Dissolved Oxygen	%	DG_A_I_PZ_BW45B	5/10/2022	44.0
Dissolved Oxygen	%	DG_A_I_PZ_BW05	19/01/2022	4.0
Dissolved Oxygen	%	DG_A_I_PZ_BW05	21/07/2022	0.0
Dissolved Oxygen	%	DG_A_I_PZ_GW01	24/01/2022	69.0
Dissolved Oxygen	%	DG_A_I_PZ_GW01	17/02/2022	63.0
Dissolved Oxygen	%	DG_A_I_PZ_GW01	15/03/2022	63.0
Dissolved Oxygen	%	DG_A_I_PZ_GW01	23/05/2022	65.0
Dissolved Oxygen	%	DG_A_I_PZ_GW01	8/06/2022	75.0
Dissolved Oxygen	%	DG_A_I_PZ_GW01	19/07/2022	66.0
Dissolved Oxygen	%	DG_A_I_PZ_GW01	23/08/2022	67.0
Dissolved Oxygen	%	DG_A_I_PZ_GW01	20/09/2022	69.0
Dissolved Oxygen	%	DG_A_I_PZ_GW01	11/10/2022	68.0
Dissolved Oxygen	%	DG_A_I_PZ_GW01	22/11/2022	62.0
Dissolved Oxygen	%	DG_A_I_PZ_GW01	20/12/2022	45.0
Dissolved Oxygen	%	DG_A_I_PZ_GW02	24/01/2022	1.0
Dissolved Oxygen	%	DG_A_I_PZ_GW02	17/02/2022	3.0
Dissolved Oxygen	%	DG_A_I_PZ_GW02	15/03/2022	2.0
Dissolved Oxygen	%	DG_A_I_PZ_GW02	23/05/2022	2.0
Dissolved Oxygen	%	DG_A_I_PZ_GW02	8/06/2022	10.0
Dissolved Oxygen	%	DG_A_I_PZ_GW02	12/07/2022	2.0
Dissolved Oxygen	%	DG_A_I_PZ_GW02	24/08/2022	30.0
Dissolved Oxygen	%	DG_A_I_PZ_GW02	20/09/2022	9.0
Dissolved Oxygen	%	DG_A_I_PZ_GW02	11/10/2022	10.0
Dissolved Oxygen	%	DG_A_I_PZ_GW02	22/11/2022	2.0
Dissolved Oxygen	%	DG_A_I_PZ_GW02	20/12/2022	2.0
Dissolved Oxygen	%	DG_A_I_PZ_GW03	24/01/2022	10.0
Dissolved Oxygen	%	DG_A_I_PZ_GW03	17/02/2022	11.0
Dissolved Oxygen	%	DG_A_I_PZ_GW03	15/03/2022	12.0
Dissolved Oxygen	%	DG_A_I_PZ_GW03	23/05/2022	49.0
Dissolved Oxygen	%	DG_A_I_PZ_GW03	8/06/2022	30.0
Dissolved Oxygen	%	DG_A_I_PZ_GW03	12/07/2022	55.0
Dissolved Oxygen	%	DG_A_I_PZ_GW03	24/08/2022	12.0
Dissolved Oxygen	%	DG_A_I_PZ_GW03	20/09/2022	46.0
Dissolved Oxygen	%	DG_A_I_PZ_GW03	11/10/2022	35.0
Dissolved Oxygen	%	DG_A_I_PZ_GW03	22/11/2022	10.0
Dissolved Oxygen	%	DG_A_I_PZ_GW03	20/12/2022	43.0
Dissolved Oxygen	%	DG_A_I_PZ_GW04	27/01/2022	93.0
Dissolved Oxygen	%	DG_A_I_PZ_GW04	20/07/2022	74.0
Dissolved Oxygen	%	DG_A_I_PZ_GW04	5/10/2022	3.0
Dissolved Oxygen	%	DG_A_I_PZ_GW05	27/01/2022	16.0
Dissolved Oxygen	%	DG_A_I_PZ_GW05	20/07/2022	12.0
Dissolved Oxygen	%	DG_A_I_PZ_GW05	5/10/2022	80.0
Dissolved Oxygen	%	DG_A_I_PZ_GW06	13/01/2022	87.0
Dissolved Oxygen	%	DG_A_I_PZ_GW06	5/10/2022	77.0
Dissolved Oxygen	%	DG_A_I_PZ_GW07	18/01/2022	92.0
Dissolved Oxygen	%	DG_A_I_PZ_GW07	19/07/2022	90.0
Dissolved Oxygen	%	DG_A_I_PZ_GW08	13/01/2022	57.0
Dissolved Oxygen	%	DG_A_I_PZ_GW08	26/07/2022	67.0
Dissolved Oxygen	%	DG_A_I_PZ_GW04A	27/01/2022	20.0
Dissolved Oxygen	%	DG_A_I_PZ_GW04A	17/02/2022	4.0
Dissolved Oxygen	%	DG_A_I_PZ_GW04A	16/03/2022	12.0

Variable	Unit	Sample Point	Date	Result
Dissolved Oxygen	%	DG_A_I_PZ_GW04A	24/05/2022	51.0
Dissolved Oxygen	%	DG_A_I_PZ_GW04A	8/06/2022	63.0
Dissolved Oxygen	%	DG_A_I_PZ_GW04A	12/07/2022	63.0
Dissolved Oxygen	%	DG_A_I_PZ_GW04A	23/08/2022	36.0
Dissolved Oxygen	%	DG_A_I_PZ_GW04A	20/09/2022	37.0
Dissolved Oxygen	%	DG_A_I_PZ_GW04A	11/10/2022	30.0
Dissolved Oxygen	%	DG_A_I_PZ_GW04A	28/11/2022	54.0
Dissolved Oxygen	%	DG_A_I_PZ_GW04A	20/12/2022	3.0
Electrical Conductivity	µS/cm	DG_A_I_PZ_WRK300	17/01/2022	6362
Electrical Conductivity	µS/cm	DG_A_I_PZ_WRK300	27/07/2022	5878
Electrical Conductivity	µS/cm	DG_A_I_PZ_WRK301	17/01/2022	11121
Electrical Conductivity	µS/cm	DG_A_I_PZ_WRK301	26/07/2022	8469
Electrical Conductivity	µS/cm	DG_A_I_PZ_WRK302	13/01/2022	19681
Electrical Conductivity	µS/cm	DG_A_I_PZ_WRK302	26/07/2022	19404
Electrical Conductivity	µS/cm	DG_A_I_PZ_IWB2	20/01/2022	3897
Electrical Conductivity	µS/cm	DG_A_I_PZ_IWB2	25/07/2022	3769
Electrical Conductivity	µS/cm	DG_A_I_PZ_IWB6	20/01/2022	1718
Electrical Conductivity	µS/cm	DG_A_I_PZ_IWB6	25/07/2022	1685
Electrical Conductivity	µS/cm	DG_A_I_PZ_BW28A	19/01/2022	21709
Electrical Conductivity	µS/cm	DG_A_I_PZ_BW28A	21/07/2022	23666
Electrical Conductivity	µS/cm	DG_A_I_PZ_BW36B	27/01/2022	9583
Electrical Conductivity	µS/cm	DG_A_I_PZ_BW36B	27/07/2022	9423
Electrical Conductivity	µS/cm	DG_A_I_PZ_BW45B	27/01/2022	17520
Electrical Conductivity	µS/cm	DG_A_I_PZ_BW45B	20/07/2022	19310
Electrical Conductivity	µS/cm	DG_A_I_PZ_BW45B	5/10/2022	18368
Electrical Conductivity	µS/cm	DG_A_I_PZ_BW05	19/01/2022	24697
Electrical Conductivity	µS/cm	DG_A_I_PZ_BW05	21/07/2022	27284
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW01	24/01/2022	11016
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW01	17/02/2022	11036
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW01	15/03/2022	9675
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW01	28/04/2022	10350
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW01	23/05/2022	11514
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW01	8/06/2022	10868
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW01	19/07/2022	12102
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW01	23/08/2022	11512
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW01	20/09/2022	11708
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW01	11/10/2022	11086
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW01	22/11/2022	11353
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW01	20/12/2022	11366
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW02	24/01/2022	7568
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW02	17/02/2022	7594
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW02	15/03/2022	6507
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW02	28/04/2022	7175
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW02	23/05/2022	7951
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW02	8/06/2022	7368
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW02	12/07/2022	8007
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW02	24/08/2022	7859
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW02	20/09/2022	7362
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW02	11/10/2022	6747
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW02	22/11/2022	6661
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW02	20/12/2022	6326
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW03	24/01/2022	11007
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW03	17/02/2022	10766
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW03	15/03/2022	9740
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW03	28/04/2022	10610
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW03	23/05/2022	11432
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW03	8/06/2022	10558
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW03	12/07/2022	11851
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW03	24/08/2022	11611
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW03	20/09/2022	11395
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW03	11/10/2022	10715
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW03	22/11/2022	11117
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW03	20/12/2022	11072
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04	27/01/2022	9107
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04	20/07/2022	9920
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04	5/10/2022	9803
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW05	27/01/2022	9359
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW05	20/07/2022	10304
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW05	5/10/2022	9404
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW06	13/01/2022	20760

Variable	Unit	Sample Point	Date	Result
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW06	5/10/2022	21650
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW07	18/01/2022	18173
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW07	19/07/2022	19808
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW08	13/01/2022	20912
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW08	26/07/2022	20588
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04A	27/01/2022	8513
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04A	17/02/2022	5804
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04A	16/03/2022	6909
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04A	28/04/2022	7800
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04A	24/05/2022	8595
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04A	8/06/2022	8078
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04A	12/07/2022	8861
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04A	23/08/2022	8417
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04A	20/09/2022	8013
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04A	11/10/2022	5965
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04A	28/11/2022	7450
Electrical Conductivity	µS/cm	DG_A_I_PZ_GW04A	20/12/2022	5816
pH	pH units	DG_A_I_PZ_WRK300	17/01/2022	6.82
pH	pH units	DG_A_I_PZ_WRK300	27/07/2022	6.55
pH	pH units	DG_A_I_PZ_WRK301	17/01/2022	6.98
pH	pH units	DG_A_I_PZ_WRK301	26/07/2022	7.31
pH	pH units	DG_A_I_PZ_WRK302	13/01/2022	5.81
pH	pH units	DG_A_I_PZ_WRK302	26/07/2022	6.00
pH	pH units	DG_A_I_PZ_IWB2	20/01/2022	5.50
pH	pH units	DG_A_I_PZ_IWB2	25/07/2022	5.56
pH	pH units	DG_A_I_PZ_IWB6	20/01/2022	5.45
pH	pH units	DG_A_I_PZ_IWB6	25/07/2022	5.41
pH	pH units	DG_A_I_PZ_BW28A	19/01/2022	6.46
pH	pH units	DG_A_I_PZ_BW28A	21/07/2022	6.61
pH	pH units	DG_A_I_PZ_BW36B	27/01/2022	7.18
pH	pH units	DG_A_I_PZ_BW36B	27/07/2022	6.68
pH	pH units	DG_A_I_PZ_BW45B	27/01/2022	3.91
pH	pH units	DG_A_I_PZ_BW45B	20/07/2022	3.91
pH	pH units	DG_A_I_PZ_BW45B	5/10/2022	3.98
pH	pH units	DG_A_I_PZ_BW05	19/01/2022	7.00
pH	pH units	DG_A_I_PZ_BW05	21/07/2022	7.18
pH	pH units	DG_A_I_PZ_GW01	24/01/2022	5.00
pH	pH units	DG_A_I_PZ_GW01	17/02/2022	5.03
pH	pH units	DG_A_I_PZ_GW01	15/03/2022	4.97
pH	pH units	DG_A_I_PZ_GW01	28/04/2022	5.88
pH	pH units	DG_A_I_PZ_GW01	23/05/2022	4.76
pH	pH units	DG_A_I_PZ_GW01	8/06/2022	4.93
pH	pH units	DG_A_I_PZ_GW01	19/07/2022	5.12
pH	pH units	DG_A_I_PZ_GW01	23/08/2022	4.83
pH	pH units	DG_A_I_PZ_GW01	20/09/2022	5.03
pH	pH units	DG_A_I_PZ_GW01	11/10/2022	5.54
pH	pH units	DG_A_I_PZ_GW01	22/11/2022	5.22
pH	pH units	DG_A_I_PZ_GW01	20/12/2022	5.19
pH	pH units	DG_A_I_PZ_GW02	24/01/2022	5.44
pH	pH units	DG_A_I_PZ_GW02	17/02/2022	5.31
pH	pH units	DG_A_I_PZ_GW02	15/03/2022	5.39
pH	pH units	DG_A_I_PZ_GW02	28/04/2022	5.30
pH	pH units	DG_A_I_PZ_GW02	23/05/2022	5.22
pH	pH units	DG_A_I_PZ_GW02	8/06/2022	5.28
pH	pH units	DG_A_I_PZ_GW02	12/07/2022	5.52
pH	pH units	DG_A_I_PZ_GW02	24/08/2022	5.26
pH	pH units	DG_A_I_PZ_GW02	20/09/2022	5.40
pH	pH units	DG_A_I_PZ_GW02	11/10/2022	5.89
pH	pH units	DG_A_I_PZ_GW02	22/11/2022	5.35
pH	pH units	DG_A_I_PZ_GW02	20/12/2022	5.28
pH	pH units	DG_A_I_PZ_GW03	24/01/2022	6.00
pH	pH units	DG_A_I_PZ_GW03	17/02/2022	5.91
pH	pH units	DG_A_I_PZ_GW03	15/03/2022	5.98
pH	pH units	DG_A_I_PZ_GW03	28/04/2022	4.85
pH	pH units	DG_A_I_PZ_GW03	23/05/2022	5.80
pH	pH units	DG_A_I_PZ_GW03	8/06/2022	5.92
pH	pH units	DG_A_I_PZ_GW03	12/07/2022	6.16
pH	pH units	DG_A_I_PZ_GW03	24/08/2022	5.88
pH	pH units	DG_A_I_PZ_GW03	20/09/2022	5.98
pH	pH units	DG_A_I_PZ_GW03	11/10/2022	6.43

Variable	Unit	Sample Point	Date	Result
pH	pH units	DG_A_I_PZ_GW03	22/11/2022	5.97
pH	pH units	DG_A_I_PZ_GW03	20/12/2022	5.82
pH	pH units	DG_A_I_PZ_GW04	27/01/2022	5.52
pH	pH units	DG_A_I_PZ_GW04	20/07/2022	5.80
pH	pH units	DG_A_I_PZ_GW04	5/10/2022	6.10
pH	pH units	DG_A_I_PZ_GW05	27/01/2022	5.86
pH	pH units	DG_A_I_PZ_GW05	20/07/2022	6.05
pH	pH units	DG_A_I_PZ_GW05	5/10/2022	5.70
pH	pH units	DG_A_I_PZ_GW06	13/01/2022	6.40
pH	pH units	DG_A_I_PZ_GW06	5/10/2022	6.34
pH	pH units	DG_A_I_PZ_GW07	18/01/2022	6.24
pH	pH units	DG_A_I_PZ_GW07	19/07/2022	6.33
pH	pH units	DG_A_I_PZ_GW08	13/01/2022	6.17
pH	pH units	DG_A_I_PZ_GW08	26/07/2022	6.37
pH	pH units	DG_A_I_PZ_GW04A	27/01/2022	5.74
pH	pH units	DG_A_I_PZ_GW04A	17/02/2022	6.00
pH	pH units	DG_A_I_PZ_GW04A	16/03/2022	5.78
pH	pH units	DG_A_I_PZ_GW04A	28/04/2022	5.61
pH	pH units	DG_A_I_PZ_GW04A	24/05/2022	5.56
pH	pH units	DG_A_I_PZ_GW04A	8/06/2022	5.68
pH	pH units	DG_A_I_PZ_GW04A	12/07/2022	5.83
pH	pH units	DG_A_I_PZ_GW04A	23/08/2022	5.61
pH	pH units	DG_A_I_PZ_GW04A	20/09/2022	5.79
pH	pH units	DG_A_I_PZ_GW04A	11/10/2022	6.35
pH	pH units	DG_A_I_PZ_GW04A	28/11/2022	5.69
pH	pH units	DG_A_I_PZ_GW04A	20/12/2022	6.05
Redox Potential (Eh)	mV	DG_A_I_PZ_WRK300	17/01/2022	118
Redox Potential (Eh)	mV	DG_A_I_PZ_WRK300	27/07/2022	193
Redox Potential (Eh)	mV	DG_A_I_PZ_WRK301	17/01/2022	145
Redox Potential (Eh)	mV	DG_A_I_PZ_WRK301	26/07/2022	250
Redox Potential (Eh)	mV	DG_A_I_PZ_WRK302	13/01/2022	330
Redox Potential (Eh)	mV	DG_A_I_PZ_WRK302	26/07/2022	159
Redox Potential (Eh)	mV	DG_A_I_PZ_IWB2	20/01/2022	372
Redox Potential (Eh)	mV	DG_A_I_PZ_IWB2	25/07/2022	250
Redox Potential (Eh)	mV	DG_A_I_PZ_IWB6	20/01/2022	256
Redox Potential (Eh)	mV	DG_A_I_PZ_IWB6	25/07/2022	321
Redox Potential (Eh)	mV	DG_A_I_PZ_BW28A	19/01/2022	148
Redox Potential (Eh)	mV	DG_A_I_PZ_BW28A	21/07/2022	-45
Redox Potential (Eh)	mV	DG_A_I_PZ_BW36B	27/01/2022	-142
Redox Potential (Eh)	mV	DG_A_I_PZ_BW36B	27/07/2022	-40
Redox Potential (Eh)	mV	DG_A_I_PZ_BW45B	27/01/2022	343
Redox Potential (Eh)	mV	DG_A_I_PZ_BW45B	20/07/2022	167
Redox Potential (Eh)	mV	DG_A_I_PZ_BW45B	5/10/2022	393
Redox Potential (Eh)	mV	DG_A_I_PZ_BW05	19/01/2022	18
Redox Potential (Eh)	mV	DG_A_I_PZ_BW05	21/07/2022	7
Redox Potential (Eh)	mV	DG_A_I_PZ_GW01	24/01/2022	449
Redox Potential (Eh)	mV	DG_A_I_PZ_GW01	17/02/2022	241
Redox Potential (Eh)	mV	DG_A_I_PZ_GW01	15/03/2022	610
Redox Potential (Eh)	mV	DG_A_I_PZ_GW01	28/04/2022	125
Redox Potential (Eh)	mV	DG_A_I_PZ_GW01	23/05/2022	238
Redox Potential (Eh)	mV	DG_A_I_PZ_GW01	8/06/2022	595
Redox Potential (Eh)	mV	DG_A_I_PZ_GW01	19/07/2022	200
Redox Potential (Eh)	mV	DG_A_I_PZ_GW01	23/08/2022	751
Redox Potential (Eh)	mV	DG_A_I_PZ_GW01	20/09/2022	786
Redox Potential (Eh)	mV	DG_A_I_PZ_GW01	11/10/2022	679
Redox Potential (Eh)	mV	DG_A_I_PZ_GW01	22/11/2022	450
Redox Potential (Eh)	mV	DG_A_I_PZ_GW01	20/12/2022	529
Redox Potential (Eh)	mV	DG_A_I_PZ_GW02	24/01/2022	610
Redox Potential (Eh)	mV	DG_A_I_PZ_GW02	17/02/2022	205
Redox Potential (Eh)	mV	DG_A_I_PZ_GW02	15/03/2022	470
Redox Potential (Eh)	mV	DG_A_I_PZ_GW02	28/04/2022	167
Redox Potential (Eh)	mV	DG_A_I_PZ_GW02	23/05/2022	533
Redox Potential (Eh)	mV	DG_A_I_PZ_GW02	8/06/2022	448
Redox Potential (Eh)	mV	DG_A_I_PZ_GW02	12/07/2022	333
Redox Potential (Eh)	mV	DG_A_I_PZ_GW02	24/08/2022	278
Redox Potential (Eh)	mV	DG_A_I_PZ_GW02	11/10/2022	667
Redox Potential (Eh)	mV	DG_A_I_PZ_GW02	22/11/2022	302
Redox Potential (Eh)	mV	DG_A_I_PZ_GW02	20/12/2022	384
Redox Potential (Eh)	mV	DG_A_I_PZ_GW03	24/01/2022	312
Redox Potential (Eh)	mV	DG_A_I_PZ_GW03	17/02/2022	115

Variable	Unit	Sample Point	Date	Result
Redox Potential (Eh)	mV	DG_A_I_PZ_GW03	15/03/2022	280
Redox Potential (Eh)	mV	DG_A_I_PZ_GW03	28/04/2022	183
Redox Potential (Eh)	mV	DG_A_I_PZ_GW03	23/05/2022	168
Redox Potential (Eh)	mV	DG_A_I_PZ_GW03	8/06/2022	365
Redox Potential (Eh)	mV	DG_A_I_PZ_GW03	12/07/2022	175
Redox Potential (Eh)	mV	DG_A_I_PZ_GW03	24/08/2022	284
Redox Potential (Eh)	mV	DG_A_I_PZ_GW03	11/10/2022	638
Redox Potential (Eh)	mV	DG_A_I_PZ_GW03	22/11/2022	304
Redox Potential (Eh)	mV	DG_A_I_PZ_GW03	20/12/2022	387
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04	27/01/2022	191
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04	20/07/2022	539
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04	5/10/2022	302
Redox Potential (Eh)	mV	DG_A_I_PZ_GW05	27/01/2022	157
Redox Potential (Eh)	mV	DG_A_I_PZ_GW05	20/07/2022	300
Redox Potential (Eh)	mV	DG_A_I_PZ_GW05	5/10/2022	360
Redox Potential (Eh)	mV	DG_A_I_PZ_GW06	13/01/2022	498
Redox Potential (Eh)	mV	DG_A_I_PZ_GW06	5/10/2022	328
Redox Potential (Eh)	mV	DG_A_I_PZ_GW07	18/01/2022	209
Redox Potential (Eh)	mV	DG_A_I_PZ_GW07	19/07/2022	144
Redox Potential (Eh)	mV	DG_A_I_PZ_GW08	13/01/2022	300
Redox Potential (Eh)	mV	DG_A_I_PZ_GW08	26/07/2022	152
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04A	27/01/2022	176
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04A	17/02/2022	284
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04A	16/03/2022	237
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04A	28/04/2022	163
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04A	24/05/2022	510
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04A	8/06/2022	276
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04A	12/07/2022	158
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04A	23/08/2022	655
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04A	20/09/2022	585
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04A	11/10/2022	477
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04A	28/11/2022	623
Redox Potential (Eh)	mV	DG_A_I_PZ_GW04A	20/12/2022	530
Standing Water Level (m AHD)	m	DG_A_I_PZ_WRK300	17/01/2022	175.18
Standing Water Level (m AHD)	m	DG_A_I_PZ_WRK300	27/07/2022	175.12
Standing Water Level (m AHD)	m	DG_A_I_PZ_WRK301	17/01/2022	178.10
Standing Water Level (m AHD)	m	DG_A_I_PZ_WRK301	26/07/2022	178.07
Standing Water Level (m AHD)	m	DG_A_I_PZ_WRK302	13/01/2022	176.88
Standing Water Level (m AHD)	m	DG_A_I_PZ_WRK302	26/07/2022	176.80
Standing Water Level (m AHD)	m	DG_A_I_PZ_IWB2	20/01/2022	179.72
Standing Water Level (m AHD)	m	DG_A_I_PZ_IWB2	25/07/2022	179.75
Standing Water Level (m AHD)	m	DG_A_I_PZ_IWB6	20/01/2022	176.74
Standing Water Level (m AHD)	m	DG_A_I_PZ_IWB6	25/07/2022	176.99
Standing Water Level (m AHD)	m	DG_A_I_PZ_BW28A	19/01/2022	152.09
Standing Water Level (m AHD)	m	DG_A_I_PZ_BW28A	21/07/2022	152.14
Standing Water Level (m AHD)	m	DG_A_I_PZ_BW36A	27/01/2022	174.43
Standing Water Level (m AHD)	m	DG_A_I_PZ_BW36A	17/03/2022	174.48
Standing Water Level (m AHD)	m	DG_A_I_PZ_BW36A	27/07/2022	174.44
Standing Water Level (m AHD)	m	DG_A_I_PZ_BW45B	27/01/2022	177.59
Standing Water Level (m AHD)	m	DG_A_I_PZ_BW45B	17/03/2022	177.65
Standing Water Level (m AHD)	m	DG_A_I_PZ_BW45B	20/07/2022	177.62
Standing Water Level (m AHD)	m	DG_A_I_PZ_BW45B	5/10/2022	177.64
Standing Water Level (m AHD)	m	DG_A_I_PZ_BW05	19/01/2022	147.46
Standing Water Level (m AHD)	m	DG_A_I_PZ_BW05	21/07/2022	147.45
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW01	24/01/2022	173.61
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW01	17/02/2022	173.63
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW01	15/03/2022	173.66
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW01	28/04/2022	173.66
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW01	23/05/2022	173.52
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW01	8/06/2022	173.47
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW01	19/07/2022	173.52
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW01	23/08/2022	173.49
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW01	20/09/2022	173.51
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW01	11/10/2022	173.47
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW01	22/11/2022	173.49
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW01	20/12/2022	173.52
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW02	24/01/2022	170.80
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW02	17/02/2022	170.77
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW02	15/03/2022	170.79
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW02	28/04/2022	169.73

Variable	Unit	Sample Point	Date	Result
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW02	23/05/2022	170.18
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW02	8/06/2022	170.19
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW02	12/07/2022	170.44
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW02	24/08/2022	170.47
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW02	20/09/2022	170.48
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW02	11/10/2022	170.42
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW02	22/11/2022	170.49
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW02	20/12/2022	170.48
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW03	24/01/2022	162.09
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW03	17/02/2022	161.90
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW03	15/03/2022	162.22
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW03	28/04/2022	162.22
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW03	23/05/2022	162.21
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW03	8/06/2022	161.27
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW03	12/07/2022	162.09
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW03	24/08/2022	162.12
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW03	20/09/2022	162.06
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW03	11/10/2022	162.09
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW03	22/11/2022	162.12
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW03	20/12/2022	162.13
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04	27/01/2022	178.33
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04	16/03/2022	178.30
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04	20/07/2022	178.32
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04	5/10/2022	178.26
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW05	27/01/2022	178.92
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW05	16/03/2022	178.88
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW05	20/07/2022	178.91
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW05	5/10/2022	178.88
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW06	13/01/2022	176.50
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW06	5/10/2022	176.51
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW07	18/01/2022	172.58
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW07	19/07/2022	172.54
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW08	13/01/2022	177.54
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW08	26/07/2022	177.48
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04A	27/01/2022	177.05
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04A	17/02/2022	177.07
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04A	16/03/2022	177.05
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04A	28/04/2022	176.91
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04A	24/05/2022	176.99
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04A	8/06/2022	176.96
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04A	12/07/2022	176.95
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04A	23/08/2022	176.98
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04A	20/09/2022	176.96
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04A	11/10/2022	177.00
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04A	28/11/2022	177.05
Standing Water Level (m AHD)	m	DG_A_I_PZ_GW04A	20/12/2022	177.07
Temperature	°C	DG_A_I_PZ_WRK300	17/01/2022	21.0
Temperature	°C	DG_A_I_PZ_WRK300	27/07/2022	16.1
Temperature	°C	DG_A_I_PZ_WRK301	17/01/2022	22.7
Temperature	°C	DG_A_I_PZ_WRK301	26/07/2022	16.0
Temperature	°C	DG_A_I_PZ_WRK302	13/01/2022	17.5
Temperature	°C	DG_A_I_PZ_WRK302	26/07/2022	16.8
Temperature	°C	DG_A_I_PZ_IWB2	20/01/2022	18.1
Temperature	°C	DG_A_I_PZ_IWB2	25/07/2022	17.7
Temperature	°C	DG_A_I_PZ_IWB6	20/01/2022	16.8
Temperature	°C	DG_A_I_PZ_IWB6	25/07/2022	16.8
Temperature	°C	DG_A_I_PZ_BW28A	19/01/2022	17.7
Temperature	°C	DG_A_I_PZ_BW28A	21/07/2022	17.4
Temperature	°C	DG_A_I_PZ_BW36B	27/01/2022	28.7
Temperature	°C	DG_A_I_PZ_BW36B	27/07/2022	15.5
Temperature	°C	DG_A_I_PZ_BW45B	27/01/2022	18.5
Temperature	°C	DG_A_I_PZ_BW45B	20/07/2022	17.8
Temperature	°C	DG_A_I_PZ_BW45B	5/10/2022	16.8
Temperature	°C	DG_A_I_PZ_BW05	19/01/2022	16.9
Temperature	°C	DG_A_I_PZ_BW05	21/07/2022	17.1
Temperature	°C	DG_A_I_PZ_GW01	24/01/2022	17.9
Temperature	°C	DG_A_I_PZ_GW01	17/02/2022	17.9
Temperature	°C	DG_A_I_PZ_GW01	15/03/2022	18.1
Temperature	°C	DG_A_I_PZ_GW01	28/04/2022	17.8
Temperature	°C	DG_A_I_PZ_GW01	23/05/2022	17.4

Variable	Unit	Sample Point	Date	Result
Temperature	°C	DG_A_I_PZ_GW01	8/06/2022	17.3
Temperature	°C	DG_A_I_PZ_GW01	19/07/2022	17.3
Temperature	°C	DG_A_I_PZ_GW01	23/08/2022	17.3
Temperature	°C	DG_A_I_PZ_GW01	20/09/2022	17.6
Temperature	°C	DG_A_I_PZ_GW01	11/10/2022	17.8
Temperature	°C	DG_A_I_PZ_GW01	22/11/2022	16.6
Temperature	°C	DG_A_I_PZ_GW01	20/12/2022	17.8
Temperature	°C	DG_A_I_PZ_GW02	24/01/2022	18.2
Temperature	°C	DG_A_I_PZ_GW02	17/02/2022	17.8
Temperature	°C	DG_A_I_PZ_GW02	15/03/2022	18.0
Temperature	°C	DG_A_I_PZ_GW02	28/04/2022	18.0
Temperature	°C	DG_A_I_PZ_GW02	23/05/2022	18.0
Temperature	°C	DG_A_I_PZ_GW02	8/06/2022	17.8
Temperature	°C	DG_A_I_PZ_GW02	12/07/2022	17.8
Temperature	°C	DG_A_I_PZ_GW02	24/08/2022	17.3
Temperature	°C	DG_A_I_PZ_GW02	20/09/2022	17.7
Temperature	°C	DG_A_I_PZ_GW02	11/10/2022	17.9
Temperature	°C	DG_A_I_PZ_GW02	22/11/2022	17.6
Temperature	°C	DG_A_I_PZ_GW02	20/12/2022	18.4
Temperature	°C	DG_A_I_PZ_GW03	24/01/2022	19.9
Temperature	°C	DG_A_I_PZ_GW03	17/02/2022	18.2
Temperature	°C	DG_A_I_PZ_GW03	15/03/2022	19.0
Temperature	°C	DG_A_I_PZ_GW03	28/04/2022	17.4
Temperature	°C	DG_A_I_PZ_GW03	23/05/2022	18.8
Temperature	°C	DG_A_I_PZ_GW03	8/06/2022	16.0
Temperature	°C	DG_A_I_PZ_GW03	12/07/2022	17.8
Temperature	°C	DG_A_I_PZ_GW03	24/08/2022	16.9
Temperature	°C	DG_A_I_PZ_GW03	20/09/2022	18.1
Temperature	°C	DG_A_I_PZ_GW03	11/10/2022	18.7
Temperature	°C	DG_A_I_PZ_GW03	22/11/2022	17.3
Temperature	°C	DG_A_I_PZ_GW03	20/12/2022	20.0
Temperature	°C	DG_A_I_PZ_GW04	27/01/2022	24.2
Temperature	°C	DG_A_I_PZ_GW04	20/07/2022	16.9
Temperature	°C	DG_A_I_PZ_GW04	5/10/2022	16.4
Temperature	°C	DG_A_I_PZ_GW05	27/01/2022	21.0
Temperature	°C	DG_A_I_PZ_GW05	20/07/2022	16.3
Temperature	°C	DG_A_I_PZ_GW05	5/10/2022	16.2
Temperature	°C	DG_A_I_PZ_GW06	13/01/2022	18.1
Temperature	°C	DG_A_I_PZ_GW06	5/10/2022	15.2
Temperature	°C	DG_A_I_PZ_GW07	18/01/2022	18.3
Temperature	°C	DG_A_I_PZ_GW07	19/07/2022	17.9
Temperature	°C	DG_A_I_PZ_GW08	13/01/2022	19.0
Temperature	°C	DG_A_I_PZ_GW08	26/07/2022	17.1
Temperature	°C	DG_A_I_PZ_GW04A	27/01/2022	25.0
Temperature	°C	DG_A_I_PZ_GW04A	17/02/2022	19.6
Temperature	°C	DG_A_I_PZ_GW04A	16/03/2022	18.1
Temperature	°C	DG_A_I_PZ_GW04A	28/04/2022	17.1
Temperature	°C	DG_A_I_PZ_GW04A	24/05/2022	16.6
Temperature	°C	DG_A_I_PZ_GW04A	8/06/2022	16.4
Temperature	°C	DG_A_I_PZ_GW04A	12/07/2022	16.9
Temperature	°C	DG_A_I_PZ_GW04A	23/08/2022	16.5
Temperature	°C	DG_A_I_PZ_GW04A	20/09/2022	17.2
Temperature	°C	DG_A_I_PZ_GW04A	11/10/2022	16.9
Temperature	°C	DG_A_I_PZ_GW04A	28/11/2022	17.7
Temperature	°C	DG_A_I_PZ_GW04A	20/12/2022	19.5

Appendix D: Duplicate and Blank Analytical Results – 2022

Sample Description			Field Blank	Field Blank	Field Blank	Field Blank	GW02	Blind	RPD	GW02	Blind	RPD	GW02	Blind	RPD
Sample Collection Method			Received	Received	Received	Received	Received	Received		Received	Received		Received	Received	
Sample Taken Date			17/02/2022	28/04/2022	12/07/2022	20/09/2022	24/01/2022	24/01/2022		17/02/2022	17/02/2022		12/07/2022	12/07/2022	
Lab. Received Date			18/02/2022	29/04/2022	13/07/2022	21/09/2022	25/01/2022	25/01/2022		18/02/2022	18/02/2022		13/07/2022	13/07/2022	
EML Lab No.			EML-3137	EML-7910	EML-12951	EML-18270	EML-1293	EML-1294		EML-3134	EML-3138		EML-12948	EML-12950	
Analyte	**Unit**	**Method**													
Aluminium (Total)	mg/L	ECO-Metals	<0.001		<0.01		<0.001	<0.001	0.00	<0.01	<0.01	0	<0.01	<0.01	0
Arsenic (Total)	mg/L	ECO-Metals	<0.001		<0.001		<0.001	0.001	0.00	<0.001	<0.001	0	<0.001	<0.001	0
Cadmium (Total)	mg/L	ECO-Metals	<0.0002		<0.0002		<0.0002	<0.0002	0.00	<0.0002	<0.0002	0	<0.0002	<0.0002	0
Calcium	mg/L	Cations	0.08	0.06	0.09	0.08	22	19	14.63	17	16	6.06	18	21	-15.38
Chloride	mg/L	Chloride	<1	<1	<1	<1	2200	2100	4.65	2100	2100	0.00	2100	2200	-4.65
Chromium (Total)	mg/L	ECO-Metals	<0.001		<0.001		0.001	0.002	-66.67	<0.001	<0.001	0.00	<0.001	<0.001	0.00
Cobalt (Total)	mg/L	ECO-Metals	<0.001		<0.001		0.02	0.019	5.13	0.018	0.019	-5.41	0.017	0.022	-25.64
Copper (Total)	mg/L	ECO-Metals	0.001		<0.001		0.002	0.001	66.67	<0.001	<0.001	0.00	<0.001	<0.001	0.00
Elecrical Conductivity	uS/cm	Cond-M	1.4	1.3	1.2	1.7	7568	7500	0.90	7500	7600	-1.32	7400	7700	-3.97
Fluoride	mg/L	Fluoride	<0.1		<0.1		<0.1	<0.1	0.00	<0.1	<0.1	0.00	<0.1	<0.1	0.00
Lead (Total)	mg/L	ECO-Metals	<0.001		<0.001		<0.001	<0.001	0.00	<0.001	<0.001	0.00	<0.001	<0.001	0.00
Mercury (Total)	mg/L	ECO-Metals	<0.0001		<0.0001		<0.0001	<0.0001	0.00	<0.0001	<0.0001	0.00	<0.0001	<0.0001	0.00
Molybdenum (Total)	mg/L	ECO-Metals	<0.001		<0.001		<0.001	<0.001	0.00	<0.001	<0.001	0.00	<0.001	<0.001	0.00
Nickel (Total)	mg/L	ECO-Metals	<0.001		<0.001		0.006	0.005	18.18	0.003	0.003	0.00	0.005	0.006	-18.18
Nitrate-Nitrogen	mg/L	ECO-Metals	<0.005		0.012		5.3	5.7	-7.27	6	6	0.00	5.8	5.7	1.74
Nitrite-Nitrogen	mg/L	Ton-HR-DA	<0.001		<0.001		0.013	0.013	0.00	0.016	0.016	0.00	0.007	0.007	0.00
pH		PH	6.1	6.1	6.1	6.2	5.44	5.3	2.61	5.7	5.7	0.00	5.6	5.5	1.80
Selenium (Total)	mg/L	ECO-Metals	<0.001	<0.001	<0.001	<0.001	0.003	0.002	40.00	0.002	0.002	0.00	0.002	0.002	0.00
Sodium	mg/L	Cations	0.03	0.02	<0.02	<0.02	1300	1300	0.00	1300	1300	0.00	1300	1300	0.00
Sulfate	mg/L	SO4	<2	<2	<2	<2	390	380	2.60	350	370	-5.56	450	400	11.76
Total Dissolved Solids	mg/L	1001G	<20	<20	<20	<20	4300	4100	4.76	4100	4200	-2.41	4100	4000	2.47
Uranium (Total)	mg/L	ECO-Metals	<0.001		<0.001		<0.001	<0.001	0.00	<0.001	<0.001	0.00	<0.001	<0.001	0.00
Uranium238	mg/L	ECO-Metals								<0.001			0.014		