

TECHNICAL REPORT

Geochemistry Assessment

WIA Gold Kokoseb Project

Prepared for: Environmental Compliance Consultancy (Pty) Ltd



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DOCUMENT CONTROL	
Document Number	01
Project Number	2024040
File Location	Z:\004_Projects\Projects 2024\2024040 (ECC Namibia Kokoseb WIA Gold)\Reporting

DOCUMENT DISTRIBUTION			
Document Name	Revision	Distributed to	Date distributed
01_2024040_Geochemistry Assessment_Revision B_08102025	Revision B	Environmental Compliance Consultancy (Pty) Ltd	10.10.2025

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Glossary of terms and acronyms

Acidity	A measurement of the amount of acidity in a water sample generally derived using a titration method to a set pH value (in units of mg/L CaCO ₃ equivalent).
Alkalinity	A measurement of the amount of alkalinity in a water sample generally derived using a titration method to a set pH value (in units of mg/L CaCO ₃ equivalent).
ABA	Acid Base Account. Evaluation of the balance between acid generation and acid neutralisation processes. Determines the maximum potential acidity (MPA) and the inherent acid neutralising capacity (ANC), as defined below.
AMD	Acid and metalliferous drainage from mine waste materials characterised by low pH, elevated metal concentrations, high sulfate concentrations and high salinity.
ANC	Acid Neutralising Capacity expressed as kg H ₂ SO ₄ per tonne of sample. A measure of a sample's maximum potential ability to neutralise acid.
ANC:MPA	The ratio of the acid neutralising capacity to the maximum potential acidity of a sample. Used to assess the risk of a sample generating acid conditions.
EC	Electrical Conductivity, expressed as $\mu\text{S}/\text{cm}$.
FIMS	Flow Injection Mercury System.
GAI	Geochemical Abundance Index
ICP-MS	Inductively Coupled Plasma Mass Spectrometry
ICP-AES	Inductively Coupled Plasma Atomic Emission Spectrometry.
INAP	International Network on Acid Prevention
KLC	Kinetic Leach Column. Leaching test setup that generates time-dependent data on the kinetics and rate of acid generation and acid neutralising reactions under laboratory controlled (or onsite conditions)
LoR	Limit of Reporting. Laboratory detection limit for the reporting of results for a particular geochemical test.
MPA	Maximum Potential Acidity. Calculated by multiplying the total sulfur or sulfide-sulfur (CRS) content of a sample by 30.6 (stoichiometric factor) and expressed as kg H ₂ SO ₄ per tonne.
NAF	Non-Acid Forming. Geochemical classification criterion for a sample that will not generate acid conditions.
NAF _{BARREN}	Non-Acid Forming and barren of sulfur (i.e. less than or equal to 0.1% sulfur).
NAPP	Net Acid Producing Potential, expressed as kg H ₂ SO ₄ per tonne. Calculated by subtracting the ANC from the MPA.
NMD	Neutral mine drainage typically caused by exposure of sulfide minerals in mine waste materials to oxygen and water and then neutralisation by gangue minerals. Typically characterised by neutral pH and elevated concentrations of salts, sulfate and metals.
Ore	Material that has been mined with sufficient value to warrant processing.
Overburden	The waste rock material excavated from the pit to access ore.
PAF	Potentially Acid Forming. Geochemical classification criterion for a sample that has the potential to generate acid conditions.
PC Titrator	Potentiometric Compact Titrator. PC Titrators are specially designed for routine applications and simple operation, allowing basic titration analysis from a single device.

pH	A measure of hydrogen ion (H^+) concentration.
S	Sulfur.
SD	Saline Drainage. Water that is elevated in dissolved salts (e.g., Na^+ , K^+ , Ca^{2+} , Mg^{2+} , Cl^- , and SO_4^{2-}), but may have acidic, neutral, or alkaline pH.
SO_4^{2-}	Sulfate.
Static test	Procedure for characterising the geochemical nature of a sample at a single point in time. Static tests may include measurements of mineral and chemical composition of a sample and the Acid Base Account.
TS	Total sulfur content of a sample generally measured using a 'LECO' analyser expressed as total sulfur%.
w:v	Weight to volume ratio.

1 Introduction

RGS Environmental Consultants Pty Ltd (RGS) was commissioned by Environmental Compliance Consultancy (Pty) Ltd (ECC) to complete a geochemistry assessment of mine materials (waste rock, potential tailings and ore) for the proposed Kokoseb Gold Mine Project (the Project) on behalf of WIA Gold Limited (WIA Gold). ECC is assisting WIA Gold in preparing the Environmental and Social Impact Assessment (ESIA) for the Project, in accordance with Namibian and international environmental regulatory requirements.

The Project is located between Uis and Okombahe, approximately 35 km east-northeast of Uis and 25 km northwest of Okombahe in the Erongo Region in Namibia (-21.176832° latitude, 15.172355° longitude). The Project lies within Exclusive Prospecting Licence (EPL) 4818, which is bordered by the C36 main road.

Figure 1-1 illustrates the Project location and proposed layout of the mine, which includes potential resource pit, waste rock dump (WRD), tailings storage facility (TSF), ore stockpile and mining plant area footprints.

This report describes the methods, results, and outcomes of a geochemistry assessment of representative samples of mine materials from the Project. Geochemical characterisation and assessment is essential to assess the potential for waste rock, potential tailings, and stockpiled ore to produce acid and metalliferous drainage (AMD), a term that can include neutral metalliferous drainage (NMD) and saline drainage (SD).

1.1 Project background

The Project is currently in the assessment phase, which involves predicting impacts, evaluating alternatives, assigning mitigation measures, and developing monitoring and conceptual rehabilitation plans. During this phase, the ESIA report and the Environmental and Social Management Plan (ESMP) will be drafted and submitted to the relevant competent authorities.

The Project will develop necessary infrastructure facilities, including access roads and processing plant, and will conduct ground exploration activities, such as soil sampling, geological mapping, geophysical surveys, drilling, and drill-core sampling. The Project plans to utilise conventional open-pit methods to mine the 'dome-shaped' ore body. The ore and waste rock is anticipated to be handled selectively and trucked to the primary crusher, run-of-mine (ROM) pad stockpile, low grade stockpile, or WRDs. WRDs will be located adjacent to the pits and will be constructed by end dumping from tip-heads (**Figure 1-1**).

The beneficiation process of ROM ore material is expected to include crushing, cyanide leaching, carbon-in-pulp processing, electrowinning, and smelting, resulting in gold bars as the final product. It is proposed that tailings materials undergo detoxification, thickening, and filtration before being deposited in a dry stack, potentially in conjunction with waste rock.

Tailings materials are planned to be stored in a downstream-type TSF constructed from waste rock and designed based on a set of specific and detailed studies that incorporate international best practices for TSF design. WRDs and ore stockpiles will be constructed during the first year, with WRDs progressively rehabilitated to reduce potential environmental impacts.

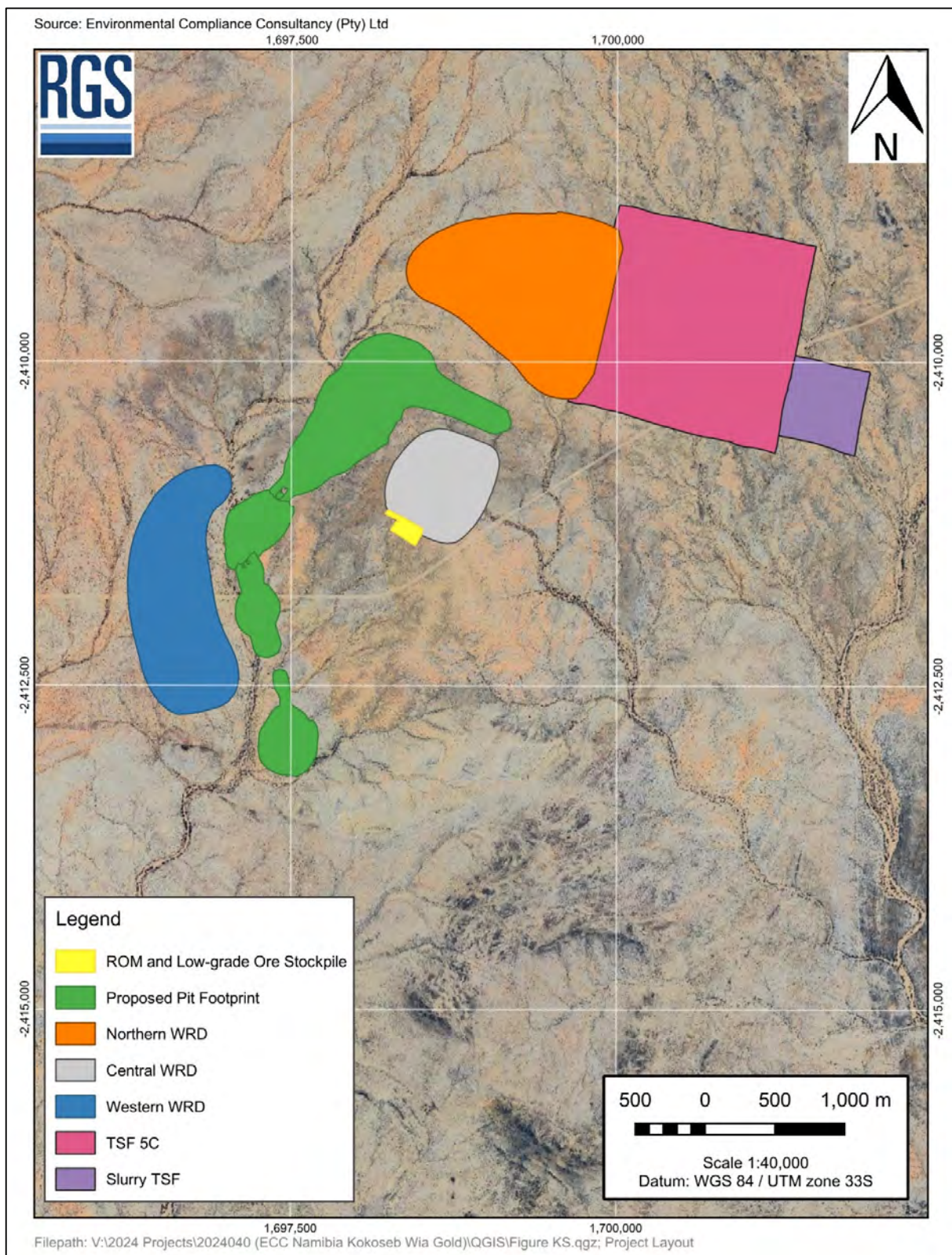


Figure 1-1: Proposed project layout

1.2 Objective and scope of work

The objective of the work program was to undertake a Geochemistry Assessment of mine materials (including waste rock, potential tailings and ore) from the Project suitable to support the preparation of an ESIA.

To achieve this objective, the following scope of work was undertaken:

- Review and gap analysis of relevant existing data for the Project.
- Creation of a Geochemical Sampling and Analysis Plan (GSAP) to guide the collection and geochemical testing of samples from the Project to address any identified data gaps.
- Provision of an interim technical report (this report) detailing the results of sampling and static geochemistry test program, providing an interim interpretation of test results, and containing interim material management recommendations.
- Provision of a final technical report describing the results of sampling and static and kinetic geochemistry test programs, providing an interpretation of test results; and containing material management recommendations.
- The RGS work program was completed in three stages:

Stage 1: Review existing information and develop a Geochemical Sampling and Analysis Plan. Intervals from pre-existing drill core were selected for geochemical analysis. Selection of drill holes and selected core intervals for sampling were guided by assay and spatial data provided by the Project (RGS, 2025)¹.

Stage 2: Sample collection and static geochemical analysis. RGS/ECC staff worked together with Project personnel to help guide and supervise the sample collection process. The collected samples were submitted for static geochemical analysis, including Acid-Base Account (ABA) testing and multi-element analysis of solid and soluble fractions at an accredited commercial laboratory. The results of the static geochemistry test program were used to assess any potential for AMD, NMD, SD issues related to mine materials likely to be generated at the Project. Based on the results of the static test program, the scope of the planned kinetic leach column (KLC) Stage 3 test program on selected mine materials was refined.

Stage 3: Kinetic geochemical analysis. KLC testing provides information on the effects of sample materials on the geochemistry of contact water under surface conditions over time. KLC tests will take place over a period of 12 months, with four leach events over the first three months, followed by three quarterly leach events. At the conclusion of the KLC test program, this interim technical report will be updated to include and interpret the KLC data derived from this program.

This interim technical report addresses **Stage 2** of the above Scope of Work, specifically, the completion of static geochemical characterisation program and provides an interpretation of the static geochemical test results. Based on the acquired results and interpretations, this interim technical report also includes recommendations for selection of samples and suites of analyses for the KLC test program to be completed in **Stage 3**.

¹ RGS, 2025. Geochemical Sampling and Analysis Plan (GSAP). Document prepared by RGE Environmental Consultancy Pty Ltd on behalf of Environmental Compliance Consultancy (ECC).

2 Geology and Stratigraphy

The Kokoseb gold deposit is situated within the Northern Central Zone of the Pan-African Damara Orogenic Belt. The area consists of Neo-Proterozoic metasediments belonging to the Arandis, Karibib, and Kuiseb Formations of the Swakop Group. Gold mineralization occurs in the metasediments of the Kuiseb Formation, which are significantly intruded by late syn-tectonic and post-tectonic granites, along with minor mafic dykes trending north/south to north-northeast/south-southwest. While exposure across the licence area is moderate to good, the Kuiseb Formation is often only sub-outcropping and is typically covered by thin layers of soil, colluvium, or pisolitic calcrete up to 2 m thick (**Figure 2-1**).

In the Kokoseb area, the Kuiseb schist forms a dome structure, centred by a post-tectonic leucogranite referred to as the "Central Granite Pluton." This pluton is primarily composed of medium-grained quartz, potassium-feldspar, and plagioclase, with smaller amounts of biotite, muscovite, magnetite, garnet, and tourmaline.

Granite dykes, granitic veinlets, and pegmatites cutting through the Kuiseb schist are linked to this granite phase or later ones. Gold mineralisation forms an arc around this pluton, spanning approximately 3 km in diameter. A coarse-grained, pre-syn-tectonic porphyritic-feldspar granite encloses the mineralised schists to the west, east, and northeast. The schist units are composed of dark grey, poorly foliated, quartz/plagioclase/potassium-feldspar-rich, biotite-bearing schists, as well as better-foliated black biotite schists.

Gold occurs as native gold grains and, to a lesser extent, silver-bearing gold grains, and is spatially associated with sulfides dominated by pyrrhotite, löllingite, and arsenopyrite.

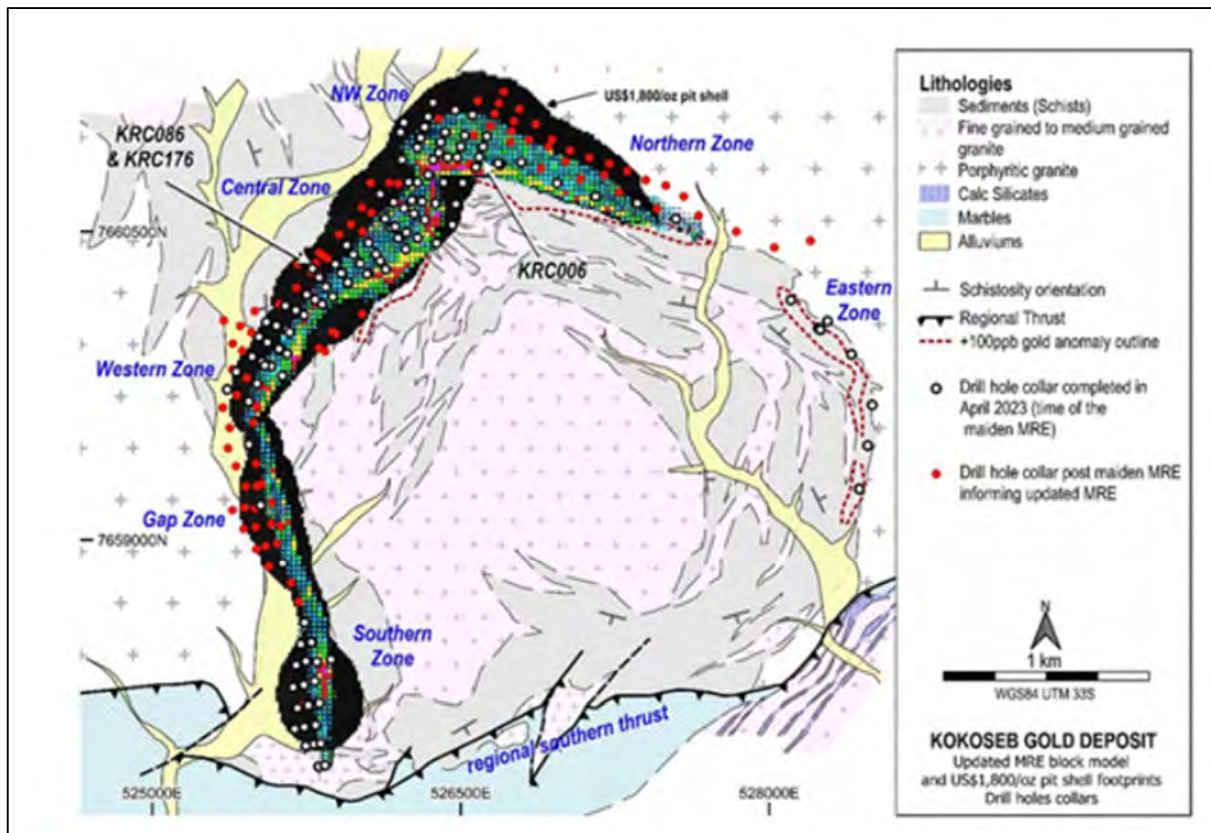


Figure 2-1: Local geology of the proposed Kokoseb Gold Mine with drill hole locations
(source: Environmental Compliance Consultancy (Pty) Ltd)

3 Sampling and Testing Methodology

This section provides a summary of the methodology used for the sampling and geochemical characterisation of representative samples of mining materials at the Project.

3.1 Investigation strategy

RGS worked closely with ECC and Project personnel to develop a strategy to collect and geochemically characterise representative samples of mine materials representing waste rock, potential tailings and ore. The sampling and testing strategy was developed to align with Namibian and international legislation, regulations, guidelines, and standards for the geochemical assessment of mine materials, which includes the following;

- AMIRA. ARD Test Handbook: Project 387A Prediction and Kinetic Control of Acid Mine Drainage, Australian Minerals Industry Research Association, Ian Wark Research Institute and Environmental Geochemistry International Pty Ltd (May 2002).
- International Finance Corporation EHS General Guidelines (IFC, 2007);
- International Network on Acid Prevention (INAP) Global Acid Rock Drainage (GARD) Guide (INAP, 2025);
- Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials (MEND, 2009);
- Preventing Acid and Metalliferous Drainage (COA, 2016);
- Republic of Namibia (2007). Environmental Management Act 7 of 2007;
- Republic of Namibia (2012). Environmental Impact Assessment Regulations G.N. No. 30 of 2011;
- Republic of Namibia (2013). Water Resources Management Act (No. 11 of 2013);

3.2 Sampling program

Representative samples of mine materials were collected by ECC and Project personnel following instructions provided in the RGS GSAP (RGS, 2025)¹. **Table 3-1** provides the distribution of samples collected and tested according to the mine material types (waste rock, potential tailings and ore) which occur at the Project, along with associated sample descriptions.

A total of 75 individual samples were collected and included in this assessment. The sample list included 63 waste rock samples, eight mineralised waste samples (to provide some indication of the geochemical characteristics of tailings materials), and four ore samples; from a total of eight drill holes. The location of these drill holes relative to the Project are provided in **Figure 3-1** and drill hole cross sections showing the locations of sampled drill hole intervals are provided in **Attachment A**.

The samples were crushed (where required), and sub-samples were taken and pulverised to pass 75 µm sieve size. The samples were bagged, labelled, sealed, and then transferred to an accredited commercial laboratory (Aquatiko Scientific Laboratories in South Africa) for static geochemical testing. This standard laboratory sample preparation procedure provides a homogenous sample but also generates a large sample surface area in contact with the resultant assay solution, thereby providing a higher potential for dissolution and reaction than would be expected in the field, and representing an assumed initial 'worst case' scenario for these sample materials.

Table 3-1: Sampled drill hole locations

Drill Hole ID	Easting (WGS 84 UTM 33S)	Northing (WGS 84 UTM 33S)	No. of Waste Rock Samples	No. of Potential Tailings Samples	No. of Ore Samples
KDD021	525,726	7,658,193	8	3	1
KDD023	526,0634	7,660,734	8		
KDD039	525,860	7,660,490	6		
KDD040	525,745	7,660,324	8	5	2
KDD042	526,667	7,661,235	11		
KDD054	525,586	7,660,059	12		
KDD058	526,147	7,660,529	9		
KDD074	526,233	7,660,639	1		1

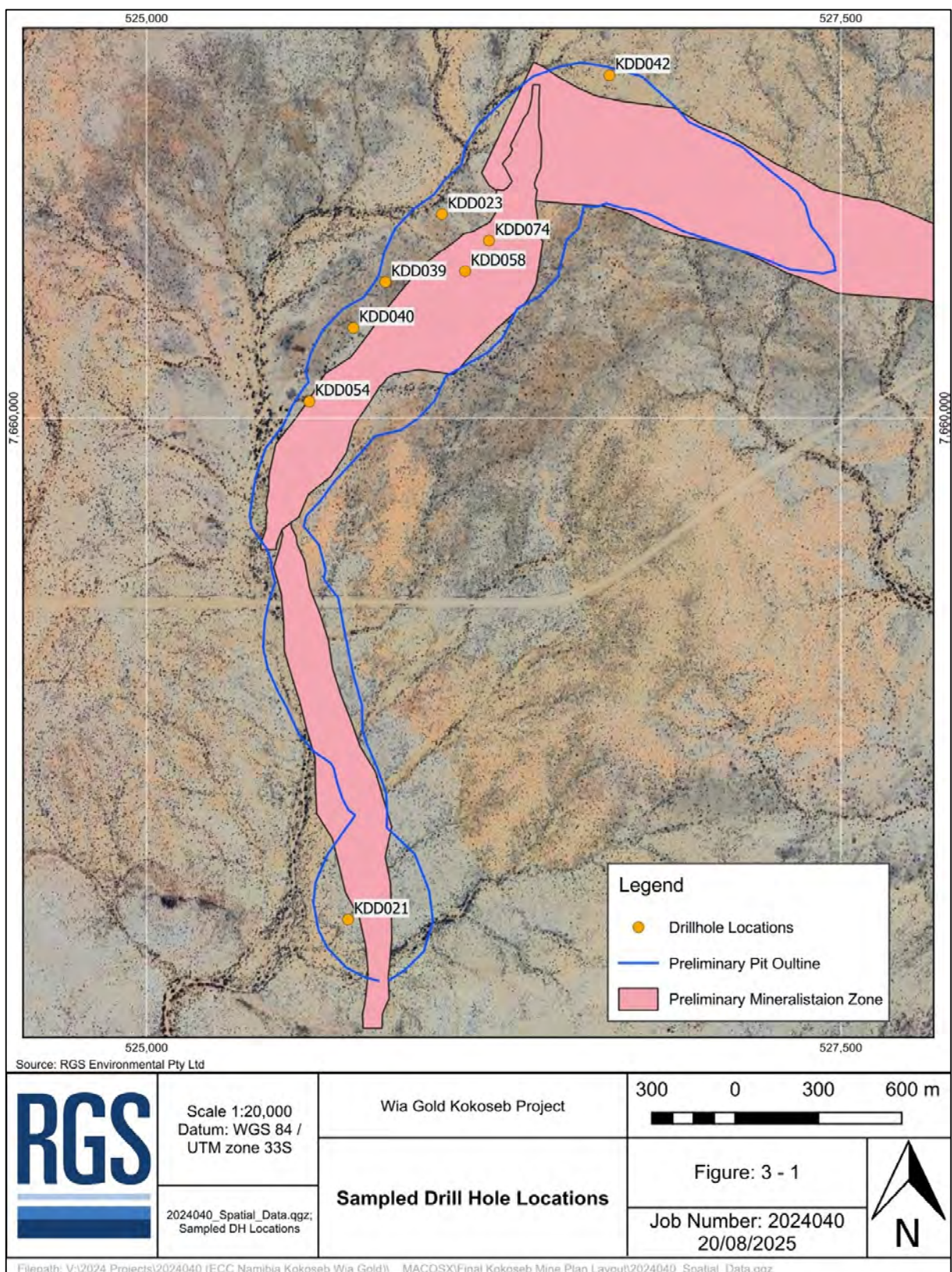


Figure 3-1: Sampled drill hole locations

3.3 Geochemical test program

A series of static geochemical tests were completed by Aquatico Scientific Laboratories on the 75 drill core samples. The geochemical test program was designed to assess the degree of risk from the presence and potential oxidation of sulfides, acid generation, and the presence/leaching of soluble metals/metalloids and salts.

A summary of the parameters involved in geochemical assessment of mine waste materials is provided in **Attachment B**.

3.3.1 Static geochemical analysis

Static geochemical tests provide a 'snapshot' of the geochemical characteristics of a sample material at a single point in time. These tests were performed to screen individual samples before selecting individual and/or composite samples for more detailed static (and planned kinetic) geochemical test work.

Acid Base Account (ABA) analysis was used to determine the acid-neutralising and acid-generating characteristics of the 75 sample materials.

The ABA test program included static geochemical tests for the following parameters:

- pH (1:5 sample:water) [AMIRA, 2002];
- Electrical conductivity (EC) (1:5 sample:water) [electrometric];
- Total sulfur [Combustion method];
- Chromium Reducible Sulfur (S_{CR}) [Australian Standard 4969.7-2008]
- Acid Neutralising Capacity (ANC) [Sobek method];
- Calculated Net Acid Production Potential (NAPP).

Based on the results of the ABA tests received and interpreted by RGS, two individual and 13 composite samples of mine materials were selected for multi-element analysis on both the solid and soluble fractions. The 15 samples were selected based on material type, location and static geochemical characteristics.

- The selected samples were tested for:
- Total cations (Ca^{2+} , Mg^{2+} , K^+ , Na^+ [ICP-AES]);
- Total metals and metalloids (Ag, Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Hg, Mn, Mo, Ni, P, Pb, Sb, Se, Th, U, V and Zn [ICP-AES/MS; FIMS]);
- pH and EC (1:5 sample:deionised water);
- Alkalinity or acidity (pH dependent) (1:5 sample:deionised water extract);
- Major soluble ions (Ca^{2+} , Mg^{2+} , Na^+ , K^+ , Cl^- , SO_4^{2-} , F^-) [1:5 w:v sample:deionised water extract; ASLP; ICP-AES/MS; Discrete Analyser; PC Titrator]; and
- Soluble metals and metalloids (Ag, Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Hg, Mn, Mo, Ni, P, Pb, Sb, Se, Th, U, V and Zn) [1:5 w/v sample:deionised water extract; ASLP; ICP-AES/MS; FIMS].

The individual and composite samples selected for multi-element analysis are provided in **Table C1 (Attachment C)**.

3.3.2 Kinetic geochemical analysis

Based on the outcomes of the static geochemical analysis, representative composite samples of mine materials have been selected and recommended for a program of dynamic Kinetic Leach Column (KLC) tests. Sample materials recommended for KLC tests are provided in **Table 3-2** and the individual samples recommended to be composited for KLC testing are provided in **Table C2 (Attachment C)**. These samples were selected based on the sample type (waste, potential tailings and ore), logged sample mineralogy, and static sample geochemistry.

The results from the recommended KLC tests will be used to predict the ongoing dynamic geochemical characteristics and likely chemistry of pore water within excavated mine materials and assist with optimising the methods for managing these materials in the field to minimise the risk of any environmental impacts. KLC tests comprise seven leach events which take place over a period of 12 months. The initial four leach events will be monthly, followed by three quarterly leach events. Leachate collected from the KLC test program will be analysed for:

- pH and EC;
- Acidity and alkalinity [PC Titrator];
- Soluble metals and metalloids (Ag, Al, As, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Hg, Mn, Mo, Ni, P, Pb, Sb, Se, Th, U, V and Zn);
- Dissolved major cations (Ca^{2+} , Mg^{2+} , Na^{+} and K^{+}) [ICP-AES/MS]; and
- Dissolved major anions (Cl^{-} , F^{-} , SO_4^{2-}) [ICP-AES/MS].

Table 3-2: Recommended sample materials for KLC testing

Sample Description	Sample Type	Classification	KLC Number
Waste Rock	Very Low Sulfide	Non-Acid Forming (Barren) and Non-Acid Forming	KLC 1
Waste Rock	Low Sulfide	Non-Acid Forming (Barren) and Non-Acid Forming	KLC 2
Potential Tailings	Mineralised Waste	Non-Acid Forming (Barren) and Non-Acid Forming	KLC 3
Ore	Ore	Non-Acid Forming	KLC 4

Following the end of the leaching program, this interim technical report will be updated to include the outcomes of the KLC test program.

4 Results

4.1 Acid-Base Account

The ABA test results for the 75 waste rock, potential tailings and ore samples sorted by lithology, mineralisation and material type are provided in **Table D1 (Attachment D)**. The methodology used in this section is provided in **Section 3** and a glossary of terms and acronyms used is provided on **Page iv**.

4.1.1 $\text{pH}_{(1:5)}$

The $\text{pH}_{(1:5)}$ values of the samples of mine materials tested ranges from pH 8.3 to 10.2 (median 9.7) as shown in **Figure 4-1**. Most of the samples have $\text{pH}_{(1:5)}$ values greater than the deionised water used in the tests, suggesting that, at least initially, addition of alkalinity to water in contact with these materials is likely. Only seven waste rock samples have a pH value less than 9.0. The remaining waste rock samples, as well as all potential tailings and ore samples, have pH values greater than 9.0.

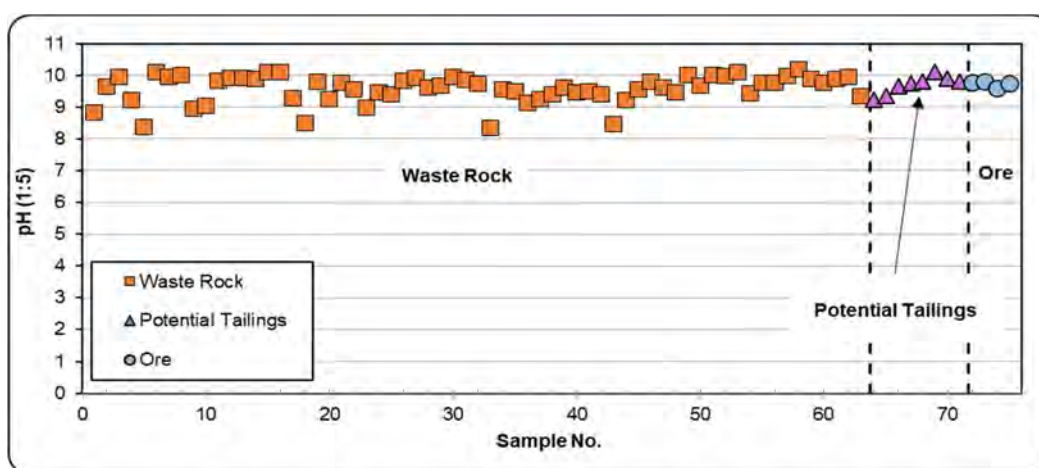


Figure 4-1: $\text{pH}_{(1:5)}$ values for samples from the Kokoseb Project.

4.1.2 $\text{EC}_{(1:5)}$

The $\text{EC}_{(1:5)}$ value of the samples of mine materials tested ranges from 96 to 603 $\mu\text{S}/\text{cm}$, with a median value of 158 $\mu\text{S}/\text{cm}$ (Figure 4-2). Waste rock samples cover a range of $\text{EC}_{(1:5)}$ values, between 96 and 603 $\mu\text{S}/\text{cm}$ (median 157 $\mu\text{S}/\text{cm}$), and typically have a low EC value (59 waste rock samples have an EC less than 250 $\mu\text{S}/\text{cm}$). Potential tailings materials and ore materials all have $\text{EC}_{(1:5)}$ values less than 200 $\mu\text{S}/\text{cm}$.

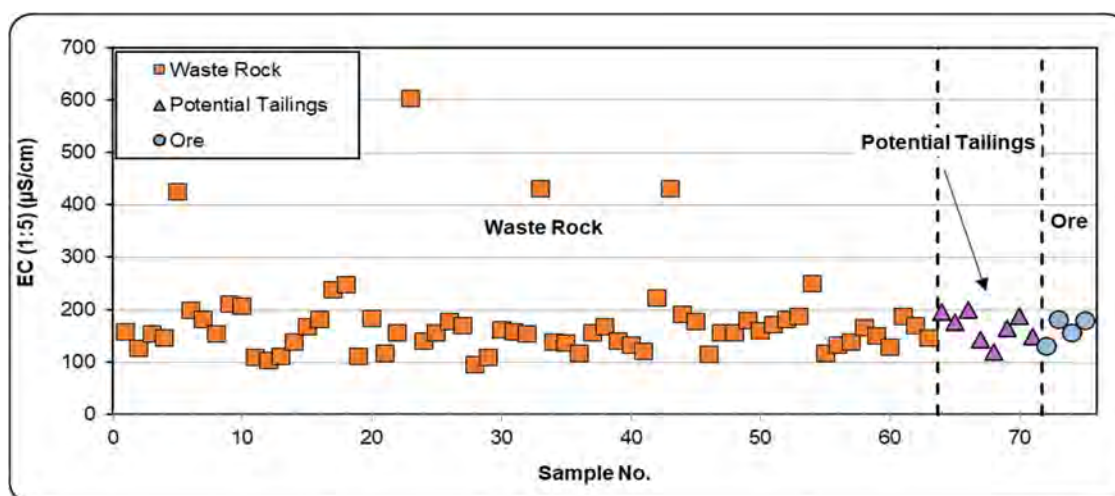


Figure 4-2: $EC_{(1:5)}$ values for samples from the Kokoseb Project

4.1.3 Total and sulfide sulfur

The total sulfur content of the 75 samples of mine materials ranges from below the laboratory limit of reporting (LoR) of 0.01 to 1.78 %S and has a median value of 0.05 %S (Figure 4-3). Most of the waste rock and potential tailings samples have a very low total sulfur concentration relative to the median crustal abundance (0.1 %S)² for this element in unmineralised soils (INAP, 2025³; Bowen, 1979⁴). Materials with a total sulfur content less than or equal to 0.1 % are essentially barren of sulfur, generally represent background concentrations, and have negligible capacity to generate acidity (INAP, 2025)³.

The total sulfur content of 19 of the 63 waste rock samples, two of the eight potential tailings samples and all of the ore samples is greater than 0.1 %S and the higher total sulfur values (>1.0 %) are associated with one biotite granite and two biotite schist waste rock samples and one ore sample.

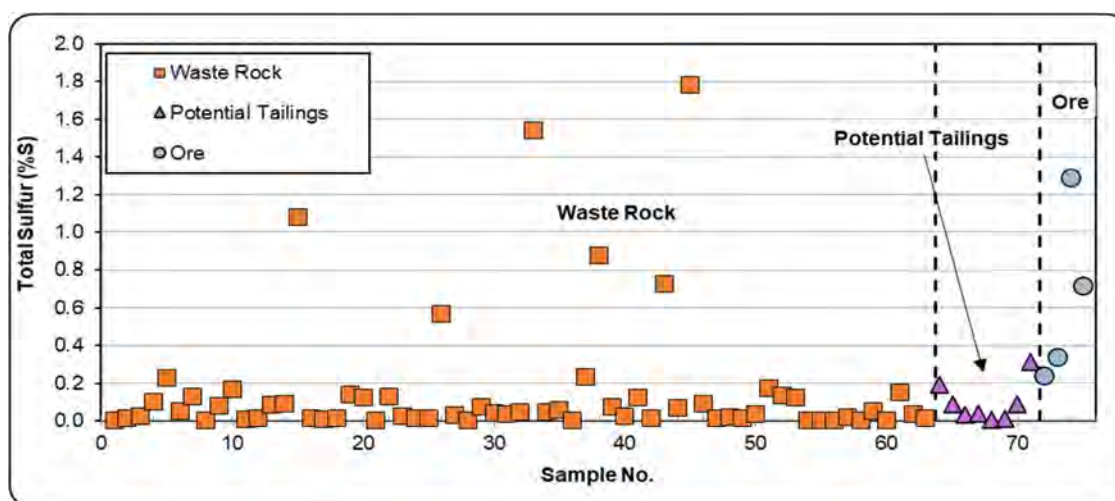


Figure 4-3: Total sulfur concentrations for samples from the Kokoseb Project

² The median crustal abundance of sulfur (0.07 %S) has been rounded up to 0.1 % (INAP, 2025).

³ INAP (2025). Global Acid Rock Drainage Guide (GARD Guide). Document prepared by Golder Associates on behalf of the International Network on Acid Prevention (INAP). 2025 (<http://www.inap.com.au/>).

⁴ Bowen H.J.M. (1979). Environmental Chemistry of the Elements, Academic Press. pp.60-61. New York.

The sulfide sulfur content of 75 mine material samples was tested using the S_{CR} method, and the results are presented in **Figure 4-4**.

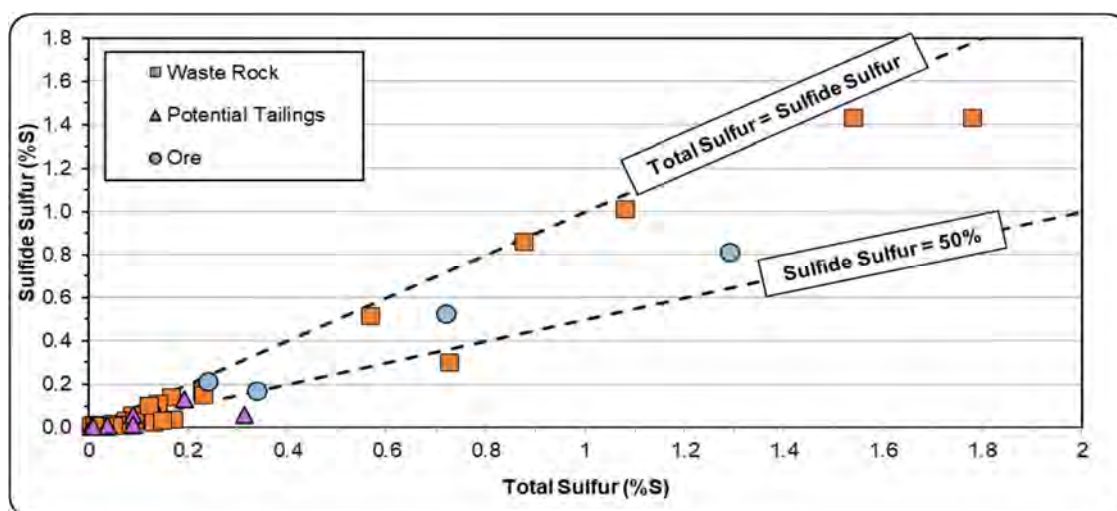


Figure 4-4: Total sulfur vs sulfide sulfur for mine material samples from the Kokoseb Project

Of the 75 samples tested, only 13 samples have a sulfide sulfur content greater than 0.1 % S_{CR} . This sample group includes eight waste rock samples and four ore samples, where most of the total sulfur is in the form of sulfide sulfur. Additionally, one potential tailings sample also has over 0.1 % S_{CR} , where most of the sulfur is not in the sulfide form. The results indicate that for most samples with a total sulfur content > 0.1 %S, most of the total sulfur content is present in a sulfide form and therefore may potentially be a source of acidity.

The S_{CR} values for the samples have been multiplied by a factor derived from the stoichiometry of the oxidation of sulfide into sulfate to calculate Maximum Potential Acidity (MPA) values for the samples. Where sample S_{CR} values were below the LoR (0.01 %S), a value of half of the LoR (0.005 %S) was used for the calculation. The MPA value of a sample assumes that all sulfide present in the sample can oxidise and generate sulfate and so, provides a conservative value of the acidity that may be generated by a sample. MPA values are expressed as the number of kilograms of sulfuric acid calculated to be generated by a tonne of the sample (kg H_2SO_4/t).

4.1.4 ANC:MPA ratio

Based on the sulfide content, the MPA that could be generated by the 75 samples of mine materials ranges from 0.2 to 43.8 kg H_2SO_4/t and has a low median value of 0.2 kg H_2SO_4/t .

The ANC value for the 75 samples ranges from 41.4 to 238.0 kg H_2SO_4/t and has a median value of 86.1 kg H_2SO_4/t . The highest ANC values are recorded for the waste rock samples (median 100 kg H_2SO_4/t) and lowest ANC values are associated with potential tailings samples (less than 60 kg H_2SO_4/t).

Figure 4-5 presents ANC versus MPA for the 75 samples of mine materials. ANC:MPA ratio lines are plotted on the figure to illustrate the factor of safety associated with the samples. Generally, samples with an ANC:MPA ratio greater than 2 (and/or with a sulfur content ≤ 0.1 %) are considered to have a low to negligible risk of acid generation and a high factor of safety in terms of potential for AMD (COA, 2016⁵, INAP, 2025³).

⁵ COA (2016). Leading Practice Sustainable Development Program for the Mining Industry. Prevention of Acid and Metalliferous Drainage. Commonwealth of Australia, Canberra ACT, September.

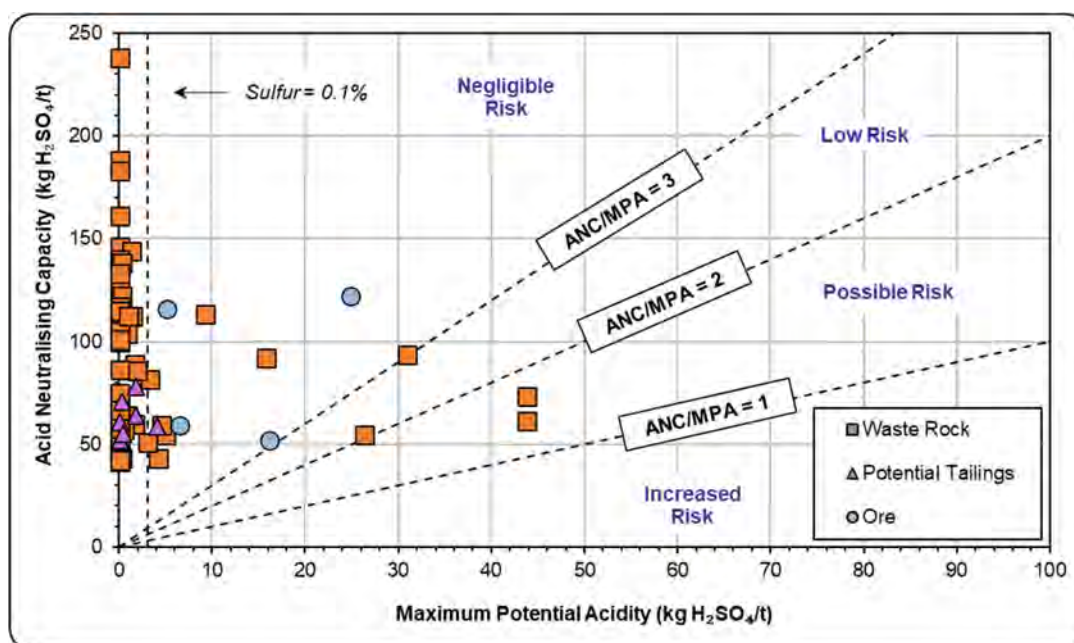


Figure 4-5: ANC v MPA for mine material samples from the Kokoseb Project

The results indicate that most of the samples of mine materials plot in the negligible risk domains and represent materials with a very low risk of acid generation and a high factor of safety with respect to potential acid generation. Only two of the waste rock samples plot in the possible risk domain (Figure 4-5) and represent material that may have a reduced factor of safety with respect to potential acid generation.

4.1.5 NAPP

The NAPP is the balance between the capacity of a sample to generate acidity (MPA) minus its capacity to neutralise acidity (ANC). All 75 samples of mine materials have negative calculated NAPP values which range from -237.8 to -17.5 kg H₂SO₄/t with a median value of -78.4 kg H₂SO₄/t (Figure 4-6). This indicates that all samples are likely to have excess neutralising capacity relative to their MPA.

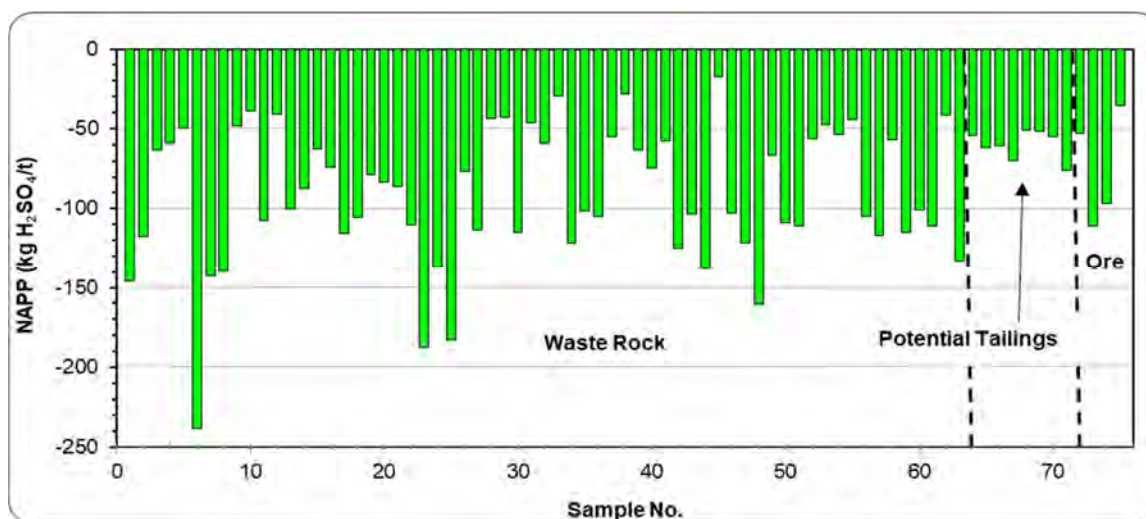


Figure 4-6: NAPP values for mine material samples from the Kokoseb Project

4.1.6 Geochemical classification

The ABA test data have been used to classify the acid forming nature of the 75 samples of mine materials. The adopted classification criteria reflect international (INAP, 2025)³ guideline criteria for the classification of mine materials. **Table 4-1** provides a summary of the criteria used by RGS to classify the acid forming nature of the samples and a breakdown of the number of samples in each classification category and **Figure 4-7** shows the classification of samples by material type.

The data presented in **Table 4-1** and **Figure 4-7** illustrate that all mine material samples have excess ANC and are classified as Non-Acid Forming (NAF). Additionally, 71 % of the samples have sufficiently low sulfide sulfur that they can be classified as NAF-Barren due to essentially being barren of sulfide.

Table 4-1: Geochemical classification criteria and classification for samples from the Kokoseb Project

Classification	S (%)	NAPP ¹ (kg H ₂ SO ₄ /t)	Number of Samples (n = 75)
Non-Acid Forming (Barren) ²	≤ 0.1	-	53
Non-Acid Forming	> 0.1	< - 5	22
Uncertain	> 0.1	> - 5 to ≤ + 5	0
Potentially Acid Forming - Low Capacity	> 0.1	> + 5 to ≤ + 10	0
Potentially Acid Forming	> 0.1	> 10	0

Notes:

1. If total sulfur/S_{CR} is less than or equal to 0.1 %S, the NAPP is not required for material classification as the sample is essentially barren of oxidisable sulfide sulfur (INAP, 2025).
2. A sample classified as NAF can be further described as 'barren' if the total sulfur and/or sulfide sulfur content is less than or equal to 0.1 %S, as the sample essentially has negligible acid generating capacity.

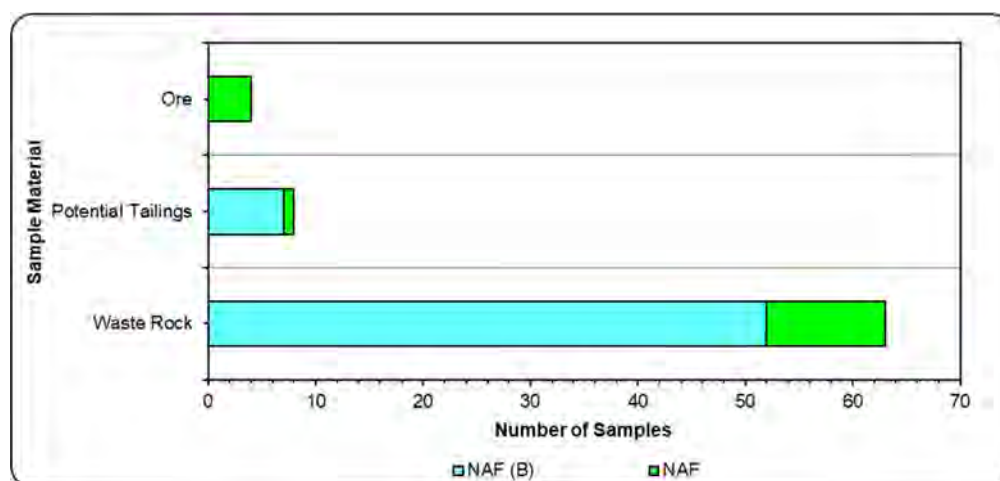


Figure 4-7: Geochemical classification by material type for samples from the Kokoseb Project

4.2 Multi-element testing

4.2.1 Multi-element concentration in solids

Multi-element assays were carried out on 15 samples (i.e. two individual and 13 composite samples) of mine materials, made up from 65 of the 75 individual samples of mine materials, as described in **Section 3.3.1**. The results of these assays were used to help identify any elements (metals or metalloids), and major ions that may be present in the mine materials at concentrations that could be of environmental concern with respect to

materials handling, storage, revegetation and water quality. The individual and composite samples selected for multi-element testing are provided in **Table C1 (Attachment C)**.

The results from multi-element testing (metals/metalloids in solids) for the 15 selected samples are presented in **Table D2 (Attachment D)**.

4.2.2 Geochemical abundance index

To provide some context for the total metal/metalloid concentrations in mine materials determined by the solid multi-element testing, the assay result values can be compared to the median crustal abundances of the analytes for unmineralised soils (Bowen, 1979⁴, INAP, 2025³). The extent of enrichment is reported as the Geochemical Abundance Index (GAI), which relates the actual concentration in a sample with the median crustal abundance on a log₂ scale.

The GAI is expressed in integer increments from 0 to 6, where a GAI value of 0 indicates that the element is present at a concentration less than, or similar to, the median crustal abundance; and a GAI value of 6 indicates approximately a 100-fold enrichment above median crustal abundance (**Table 4-2**).

Table 4-2: Geochemical abundance index values and enrichment factors

GAI	Enrichment Factor	GAI	Enrichment Factor
0	Less than 3-fold enrichment	4	24 – 48 fold enrichment
1	3 – 6 fold enrichment	5	48 – 96 fold enrichment
2	6 – 12 fold enrichment	6	Greater than 96 fold enrichment
3	12 – 24 fold enrichment		

The GAI provides an indication of metals/metalloids that may be enriched relative to the global median crustal abundance in unmineralised soils, however the following points should also be considered:

- The median crustal abundance varies between different literature sources, therefore affecting the calculated GAI values.
- If a sample is shown to be enriched relative to the median crustal abundance, there is no direct correlation that that particular sample will also leach metals/metalloids and major ions at elevated concentrations. The mobility of metals/metalloids and major ions are dependent on a number of factors including mineralogy, adsorption/desorption and the environment in which it occurs.
- Whilst some element concentrations can be elevated relative to the median crustal abundance, the nature of an ore deposit means the background levels are generally expected to be elevated.
- Similarly, because an element is not enriched does not mean it will never be a concern, because under some conditions (e.g., low pH) the solubility of common environmentally important elements such as Al, Cu, Cd, Fe and Zn increases significantly.

As a general rule, a GAI of greater than 3 signifies enrichment that may warrant further examination. This is particularly the case with some environmentally important 'trace' elements, such as As, Cr, Cd, Cu, Pb, Se and Zn, more so than with major rock-forming elements, such as Al, Ca, Fe, Mg and Na. Elements identified as enriched may not necessarily be a concern for revegetation, drainage water quality or public health, but their significance should still be evaluated.

Table D2 (Attachment D) provides total metal/metalloid concentrations for the 15 composite samples of mine materials described in this section. Where an analyte was present in concentrations below the LoR, a value of half of the LoR value was used to calculate the GAI value. The relative enrichment of metals/metalloids in these samples compared to median crustal abundance (GAI) in unmineralised soils is presented in **Table D3 (Attachment D)**.

The GAI results indicate that mine materials represented by the waste rock, potential tailings and ore samples are typically not significantly enriched with metals/metalloids compared to the median crustal abundance in unmineralised soils. The main exception is cadmium which is present in 10 waste rock samples, one potential tailings sample and one ore sample at a concentration of up to 6.4 mg/kg, which is greater than the maximum concentration typically found naturally in unmineralised soils (2 mg/kg). Arsenic enrichment is limited to one waste rock sample, one potential tailings sample and one ore sample compared to the median crustal abundance in unmineralised soils. Thorium is enriched in a single waste rock sample compared to the median crustal abundance in unmineralised soils. Whilst the GAI results indicate that silver is enriched compared to the median crustal abundance in all 15 samples, this enrichment is simply an artifact of the high laboratory limit of reporting (LoR) (250 mg/kg) relative to the median crustal abundance value (0.05 mg/kg) for this element.

Notwithstanding, the nature of a mining deposit means some metals/metalloids are expected to be slightly elevated compared to background soil levels in some materials.

The solubility and potential mobility of metals/metalloids in the mine materials under expected site pH and EC conditions are investigated further in **Section 4.2.3**.

4.2.3 Water quality static tests

There are no specific regulatory criteria for metal/metalloid concentrations in leachate from mine materials on mine sites in Namibia (described in **Section 3.3.1**). As such, to assist in providing context for the acquired results, RGS has compared multi-element water extract concentrations from the 15 composite samples with Australian guideline values for livestock drinking water and aquatic freshwater ecosystems (ANZG, 2018)⁶. These guidelines are provided for context only and are not intended to be interpreted as “maximum permissible levels” for site water storage or discharge.

It should also be recognised that direct comparison of geochemical data with guideline values can be misleading. For the purpose of this study, guideline values are only provided for a broad context and should not be interpreted as arbitrary “maximum” or “trigger” values. Using sample pulps (ground to passing 75µm) provides a high surface area to solution ratio, which encourages mineral reaction and dissolution of the solid phase. The results from screening tests on water extract solutions are assumed to represent a “worst case” scenario for initial surface runoff and seepage from mine materials.

The results from multi-element testing of water extracts (using a 1:5 sample to water ratio) from the 15 selected samples of mine materials are presented in **Table D4 (Attachment D)**. The pH of the water extracts ranges from 8.2 to 9.9, and most waste rock samples and all potential tailings and ore samples have a pH value that is slightly higher than the applied pH range (6 to 9) recommended for 95 % species protection in freshwater aquatic ecosystems (ANZG, 2018)⁶. The total alkalinity in the water extracts ranges from the equivalent of 41 to 104 mg CaCO₃/L equivalent (median 68 mg CaCO₃ equivalent). All water extracts have an acidity value below the laboratory LoR (<3.6 mg CaCO₃/L equivalent) and excess alkalinity, leading to a positive net alkalinity value.

The water extracts have EC values ranging from 117 to 363 µS/cm, with a low median value of 179 µS/cm, indicating low salinity and low concentrations of dissolved solids relative to the applied livestock drinking water guideline value (1,000 µS/cm). The concentration of major ions in the water extracts from the composite samples of mine materials is typically low in the waste rock, potential tailings and ore samples and is typically dominated by potassium, sodium and sulfate. The sulfate concentration values for all sample water extracts are at least an order of magnitude lower than the applied livestock drinking water quality guideline value of 1,000 mg (ANZG, 2018)⁶. The fluoride concentration in the water extracts from six of the 15 samples (five waste rock and one ore sample) can be marginally greater than the applied water quality guideline criterion for livestock drinking water of 2 mg/L (ANZG, 2018)⁶.

The concentrations of trace metals/metalloids in the water extracts from the 15 samples of mine materials (including cadmium) are typically low and predominantly below the laboratory LoR. Most of the metal/metalloid

⁶ ANZG (2018). Australian and New Zealand Guidelines for Fresh and Marine Water Quality, Australian and New Zealand Environment Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand, Canberra.

concentrations tested in the water extracts are below the applied water quality guideline criteria. The main exception is the dissolved aluminium concentration in water extracts, which is greater than the applied guideline criteria for freshwater aquatic freshwater ecosystems (95 % species protection) of 0.055 mg/L in 13 samples (10 waste rock, two potential tailings and one ore sample). The ore water extract concentration is also marginally greater than the applied livestock drinking water (5 mg/L) in one ore sample. Notwithstanding, the dissolved iron concentration is also elevated in most of these samples, which would not be expected at the alkaline pH values, and therefore some of the 'dissolved' aluminium is likely to represent fine colloidal material that has passed through the laboratory filtration stage (0.45 µm filter) and subsequently been dissolved by acid in the analytical method.

The only other dissolved trace metal/metalloid concentration that is elevated in the water extracts from 12 samples (nine waste rock, two potential tailings and one ore sample) compared to the freshwater aquatic ecosystems water quality guideline value (0.006 mg/L) is arsenic. In general, the dissolved arsenic concentration is higher in the water extracts derived from the potential tailings and ore samples and lower in the waste rock samples. Only one water extract sample (from ore) has a dissolved arsenic concentration greater than the applied livestock drinking water guideline value (0.5 mg/L).

Based on these results, it is expected that the risk of potential impact on the quality of surface and groundwater from initial contact with mine materials at the Project will be low. However, it is recommended that dissolved fluoride, aluminium, and arsenic be included in the water quality monitoring program for the site to verify that this is the case.

It is also recommended that the Stage 3 KLC test program described in **Section 3.3.2** be completed to predict the ongoing dynamic geochemical characteristics and likely quality of any leachate from the mine materials over time to assist with optimising the planned methods for managing these materials in the field.

5 Discussion

5.1.1 AMD potential

Waste rock materials are comprised of multiple lithologies (biotite granite, quartz/biotite Schist, biotite schist, quartzite, calc-silicate, pegmatite and granite). These materials typically have low sulfur content and excess ANC and so are likely to be NAF. As a bulk material, waste rock is likely to have a high factor of safety and pose a very low risk of generating acidic drainage.

Potential tailings materials are likely to have a relatively low sulfur content with excess ANC and are generally expected to be NAF – Barren. These materials are likely to have a high factor of safety and pose a negligible risk of generating acidic drainage.

Ore may have slightly elevated sulfur concentrations compared to the median crustal abundance value in unmineralised soils, but will have excess ANC. The ANC:MPA ratio is greater than 2 in the ore samples and material represented by these samples is considered to have a high factor of safety in terms of potential for acidic drainage.

Overall, the ABA results confirm that most mine materials have low total sulfur content, appreciable excess ANC, and a high factor of safety with respect to potential generation of acid in contact waters. Overall, it is expected that bulk materials represented by the mine materials samples tested will have a low risk of generating acidic drainage.

5.1.2 NMD and SD potential

NMD and SD may occur when acid-generating minerals such as pyrite are limited or elevated levels of ANC from buffering minerals such as carbonates are present. Although not acidic, this type of drainage can still pose environmental risks by increasing salinity and metal/metalloid concentrations in nearby surface and groundwater water bodies containing aquatic life.

Static leach testing suggests that initial contact water from mine materials is likely to be alkaline, with low salinity. Under a 'worst case' sample preparation and laboratory-controlled contact water situation, dissolved elements such as fluoride, aluminium, and arsenic may be present in pore water at concentrations greater than applied freshwater aquatic ecosystem (95 % species protection) values⁶. Similarly, initial pore waters in ore may contain elevated concentrations of aluminium and arsenic at concentrations greater than applied livestock drinking water guideline values⁶.

A few waste rock samples, and some ore and potential tailings samples may contain elevated sulfide concentrations. While these samples contain excess ANC and pose a minimal risk in terms of generating acidic drainage, the oxidation over time of sulfides within these materials may increase the risk of NMD and SD. Hence, KLC testing is recommended to assess the potential risk of NMD or SD generation from selected mine materials over time.

6 Conclusions and Recommendations

RGS has completed a static geochemistry assessment program on representative samples of mine materials from the Project including waste rock, potential tailings and ore materials. The geochemistry assessment to date has involved reviewing relevant available information for the site, developing a GSAP to guide the collection and static geochemical analysis of representative samples of mine materials and the collation, tabulation, and interpretation of laboratory characterisation results. A total of 75 samples representing mine materials likely to be excavated at the Project have been geochemically characterised.

The results of the information review and static geochemical test program have been used to provide preliminary conclusions as to the characteristics of the various mine materials at the Project and whether these characteristics will present any initial and ongoing environmental risks that will need to be managed. These conclusions and associated recommendations will be updated following the completion of the recommended Stage 3 KLC testing program.

6.1 Conclusions

The geochemistry assessment to date has found that:

- The majority of the mine materials, as represented by the samples tested, have low sulfur content, and all samples have excess ANC relative to their MPA, and are classified as NAF;
- Waste rock, potential tailings and ore materials are not expected to be notably enriched in metals/metalloids compared to median crustal abundances in unmineralised soils. Minor exceptions may include cadmium in all mine materials and arsenic in potential tailings and ore materials;
- Initial drainage from mine materials is generally expected to be alkaline and non-saline;
- The concentration of most dissolved metals/metalloids are expected to occur in low concentrations in initial contact water derived from mine materials; and
- Under a 'worst case' sample preparation and laboratory-controlled contact water situation, dissolved elements such as fluoride, aluminium, and arsenic from some mine materials may be present in pore water at a concentration greater than the applied water quality guideline values⁶.

6.2 Recommendations

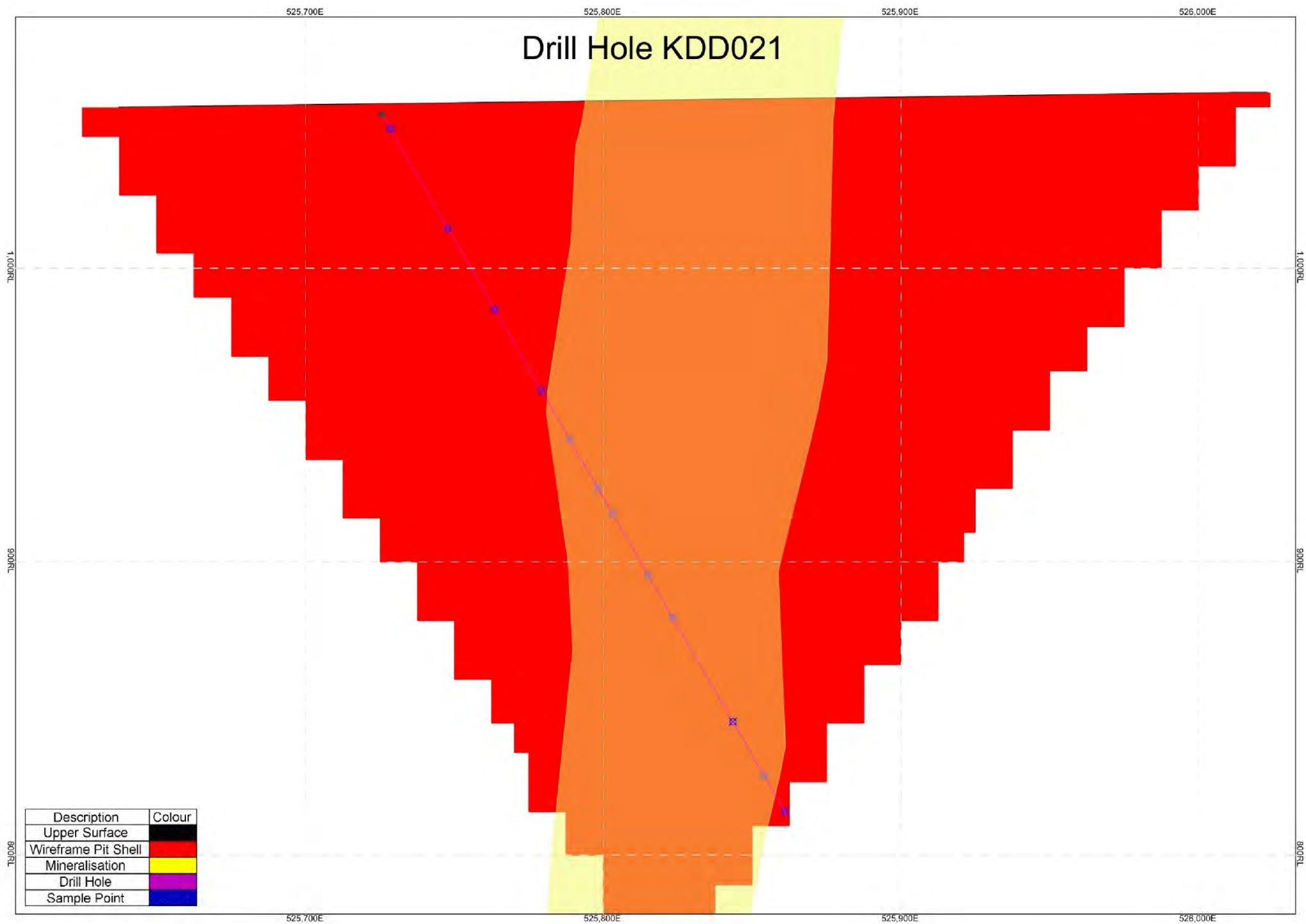
Based on the outcomes of this Geochemistry Assessment, the following recommendations are made:

- Stage 3 KLC testing of mine material samples to verify pH, salinity, and metal/metalloid solute release trends over time;
- Baseline monitoring to inform the development of site-specific water quality values to help guide the development of an effective water management plan and to provide Project specific context to geochemical results;
- The inclusion of pH, EC, fluoride, and dissolved aluminium and arsenic testing in the Project's water quality monitoring test program; and
- Analysis of future tailings samples generated by feasibility study beneficiation trials (or pilot plant studies) to validate the preliminary results obtained from potential tailings material samples described in this assessment.

7 Attachments

Attachment A: Geochemistry Sample Location Cross Sections

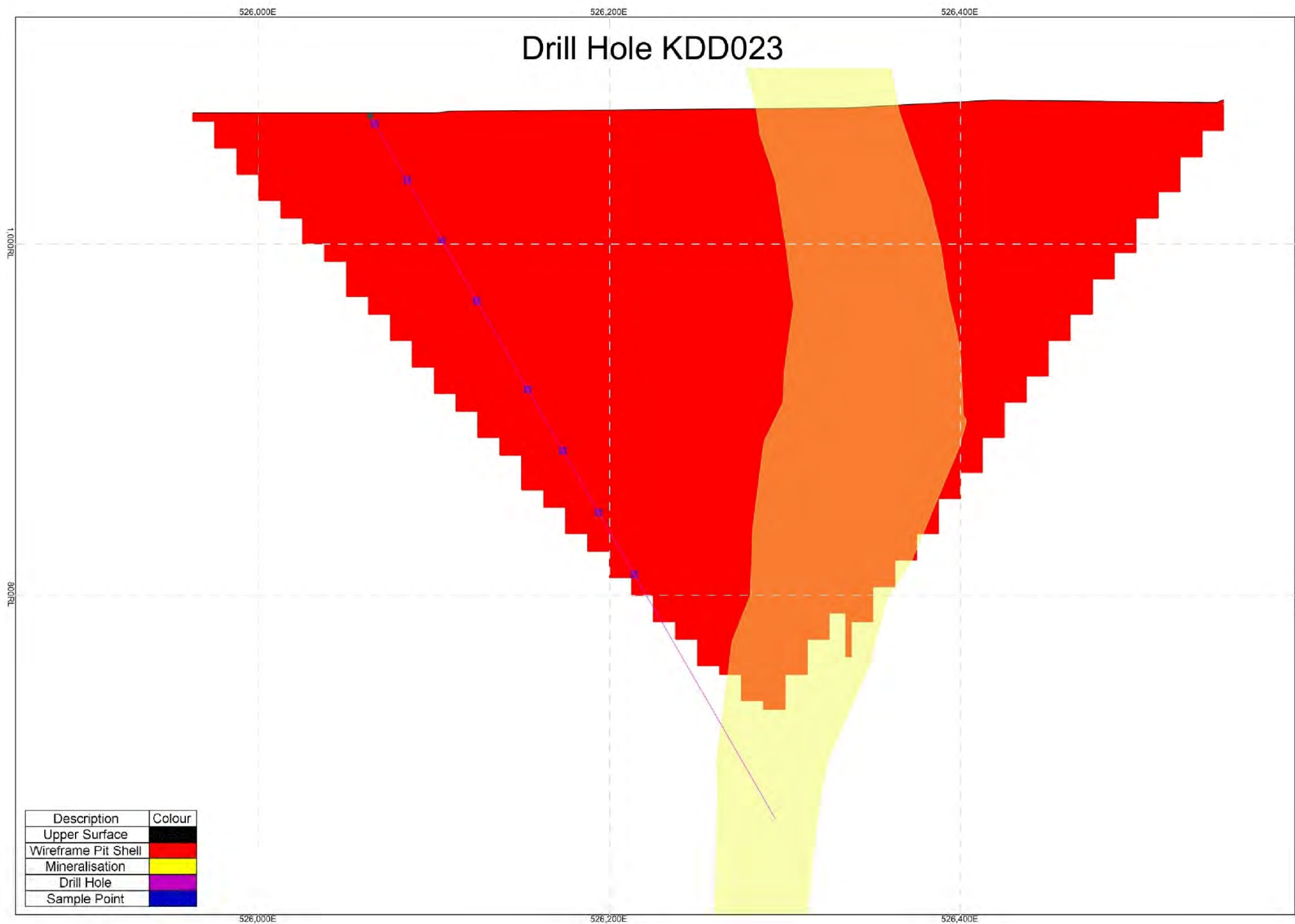
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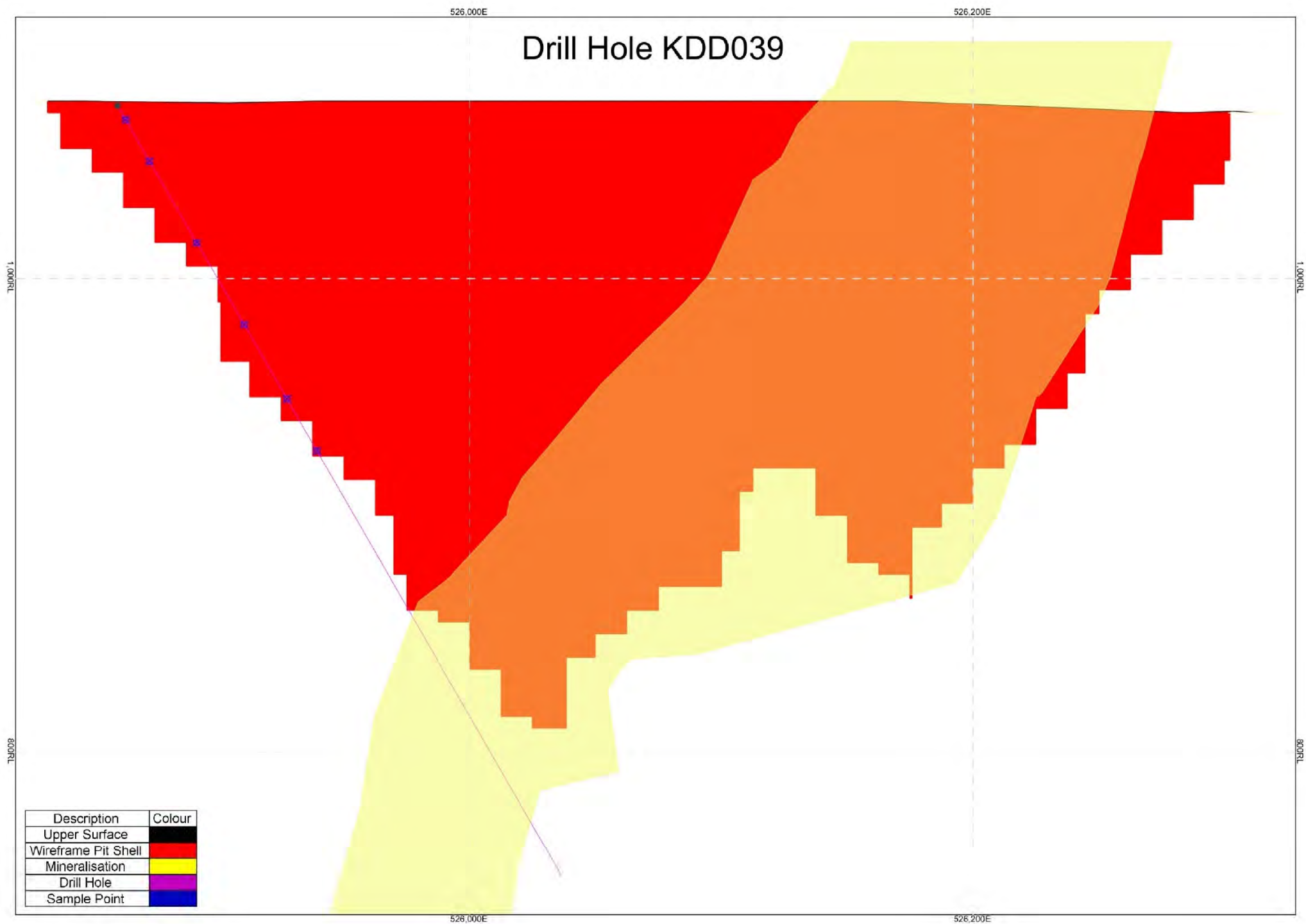
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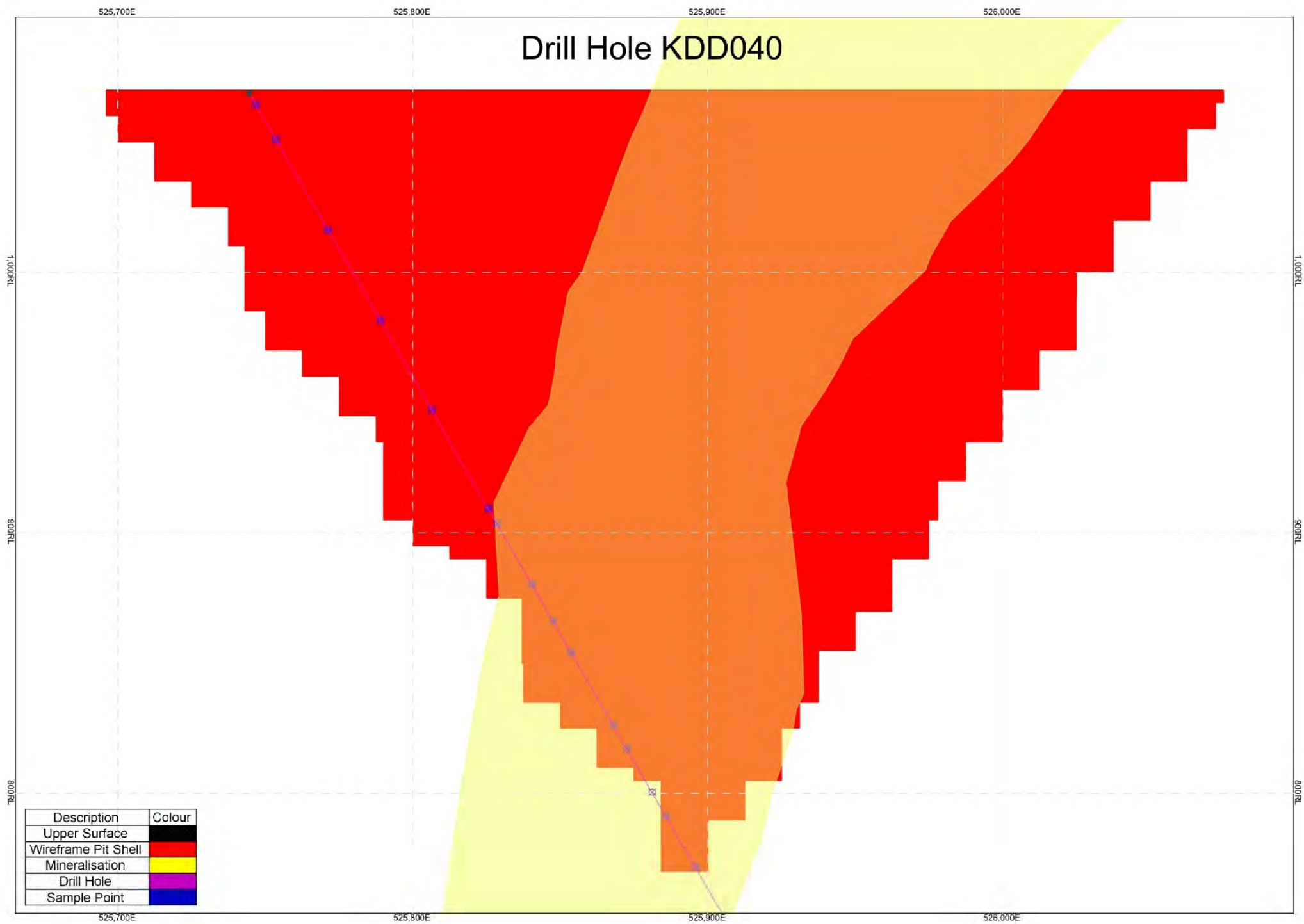
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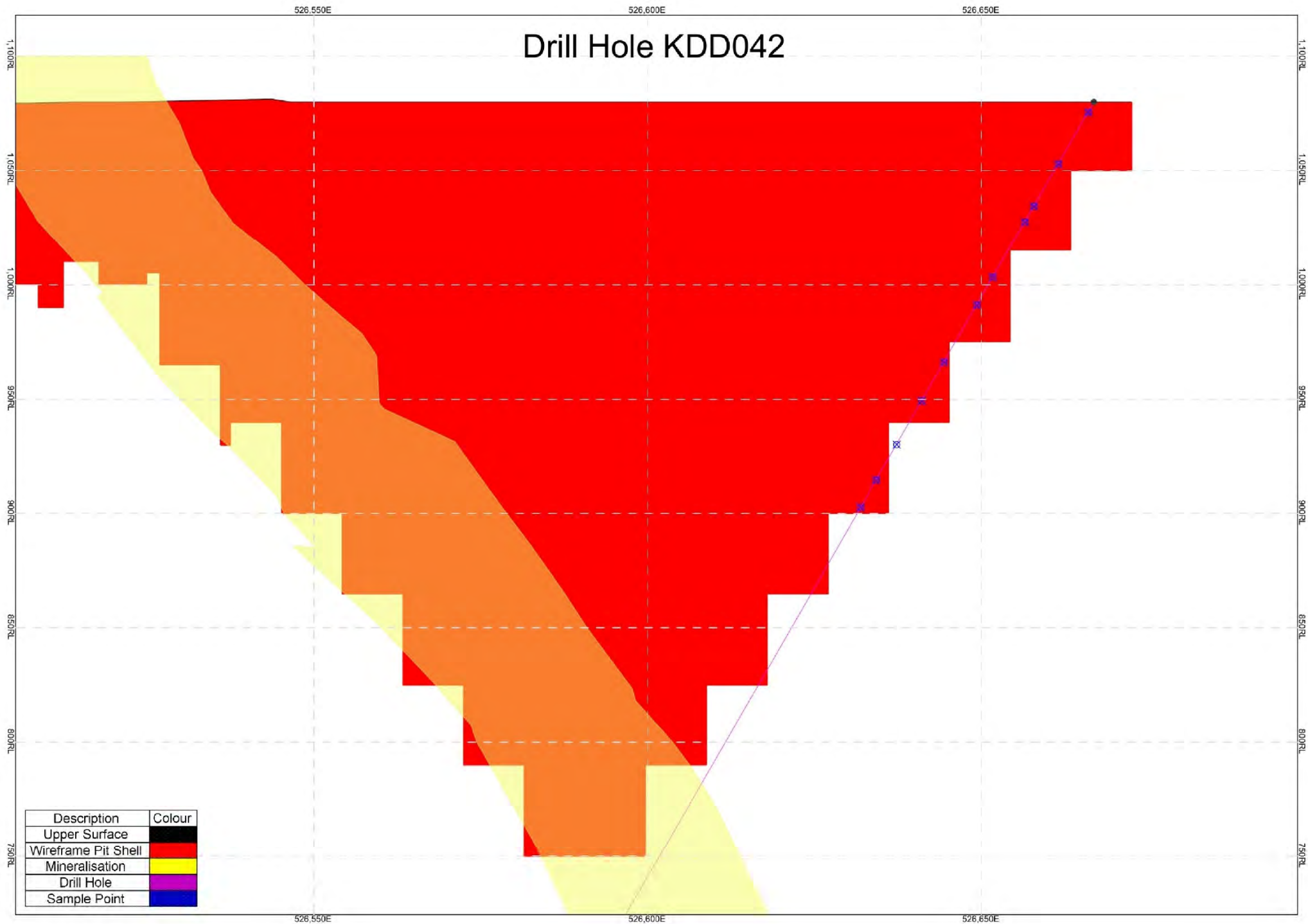
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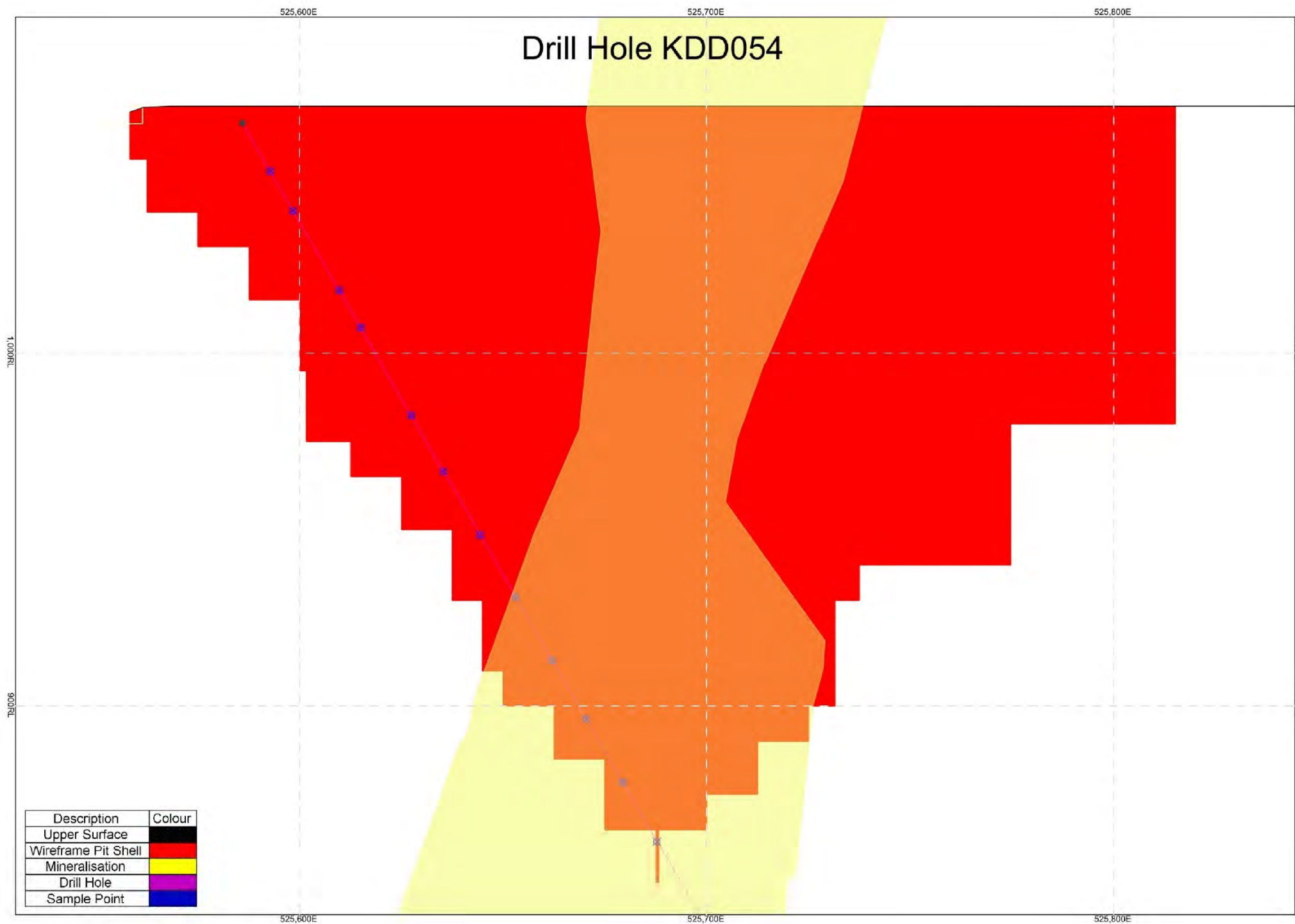
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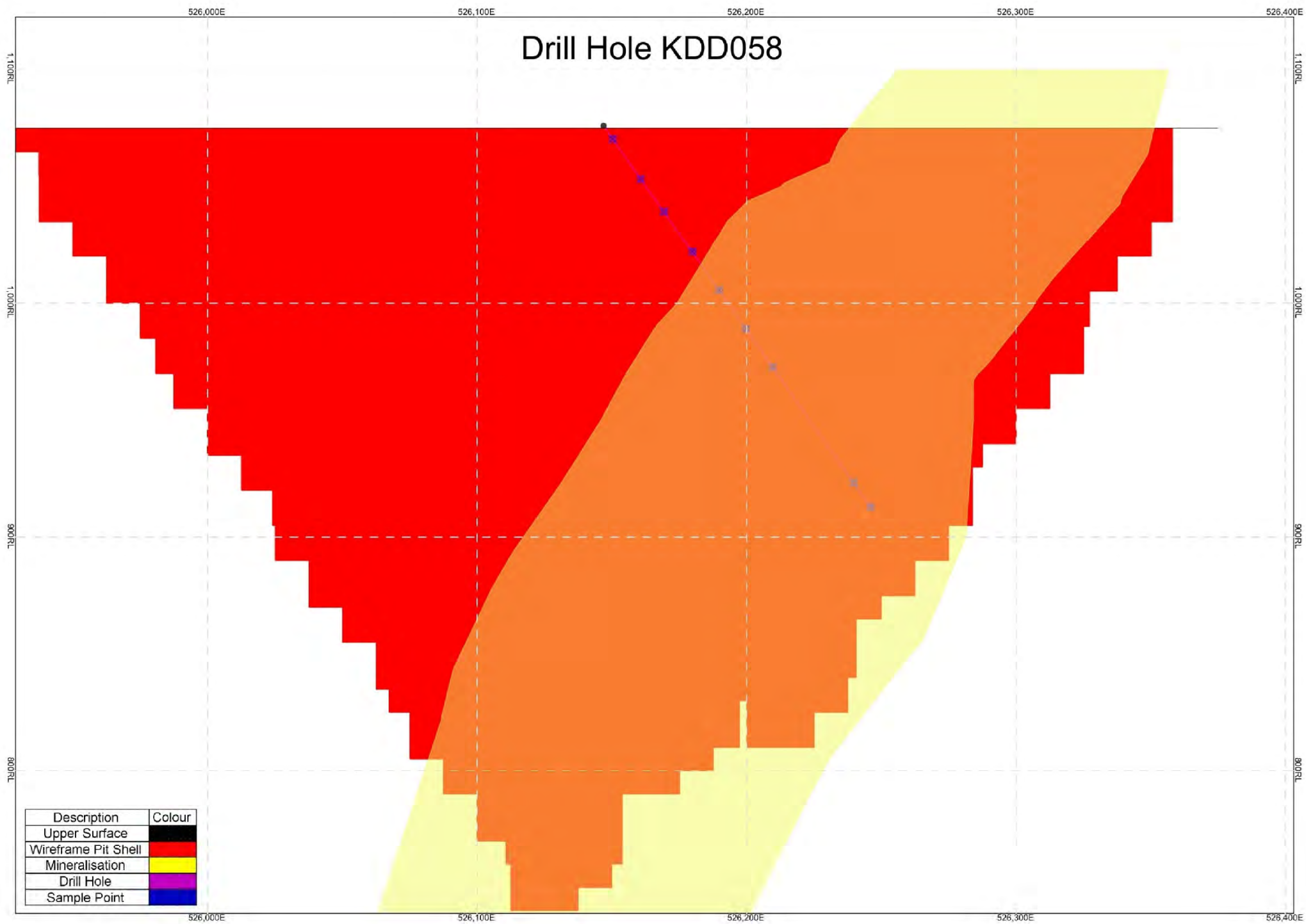
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Datum: WGS 84 / UTM zone 33S

Attachment B: Acid and Metalliferous Drainage

The use of consistent terminology is required so the potential for misunderstanding is reduced throughout the project. Mined materials may include the following.

- Mine waste – mine waste includes overburden, tailings, rejects, low grade ore, process residue.
- Rehabilitation materials – material to be utilised for cover systems and water management drains that could include oxide (e.g. soil or fully weathered non-consolidated units such as clay that can be free dug without blasting), transition (include oxide and fresh material) or fresh (competent un-weathered rock) geological units.
- Cover materials – material selectively placed within the upper profile of the rehabilitated landform in a cover system. Cover systems are constructed from rehabilitation materials. Cover systems should be designed and constructed to meet specific objectives and design criteria. Chemical and physical characterisation of rehabilitation materials is required to ensure that the cover system will meet the objectives and design criteria.

The term Acid and Metalliferous Drainage (AMD) used in this report is defined as incorporating acidic metalliferous drainage, neutral metalliferous drainage, and saline drainage (COA, 2016).

Standard industry terms used to classify the net acid producing potential (NAPP) of mined materials include the following:

- AF (Acid Forming) – highly reactive material that can produce acid rapidly (days to weeks).
- PAF (Potentially Acid Forming) - has the potential to produce acid;
- PAF-LC (Potentially Acid Forming - Low Capacity) - has the potential to produce minor amounts of acid;
- NAF (Non-Acid Forming) - will not produce acid but may leach salts and some metals due to the presence of low sulfide bearing material;
- NAF-B (Non-Acid Forming - Barren) - will not produce acid or leach salts due to the absence of sulfide minerals (typically less than 0.2% total sulfur); and
- AC (Acid Consuming) – has some acid neutralising capacity (ANC) that will contribute to ongoing acid neutralisation e.g. calcite in basalt.

General industry terms that can be used to describe water quality at mines include the following:

- Acid Mine Drainage;
- Acid Rock Drainage;
- Acid and Metalliferous Drainage;
- Neutral Mine Drainage;
- Saline Drainage; and
- Mine Impacted Water.

Water on mines includes surface water and groundwater. Groundwater can be considered as water that is present in non-mined ground that has the potential to enter pits (operational pits, backfilled pits or decommissioned pits). After groundwater enters a pit, it will become mine impacted water. Mine impacted water could leave a pit and enter the groundwater system in the receiving environment or become surface water that may then be pumped from the pit. Surface water is present in dams, creeks, and process plants. Seepage from landforms can drain to groundwater or it may appear as resurgent seepage to surface water.

The term mine impacted water is used as a general term to describe water which contacts disturbed ground and that may include water in:

- Seepage from waste rock dumps or low-grade ore stockpiles (in-pit or ex-pit);
- Operating pits;
- Decommissioned pits; and
- Back-filled pits.

Mine impacted water can be classified as having:

- Acid, neutral or alkaline pH;
- Variable concentrations of major ions (salts e.g. calcium, magnesium, potassium, sodium, chloride, sulfate, boron or fluoride); and
- Variable concentrations of metals (e.g. Al, Fe, Mn and Zn) or metalloids (e.g. Mo, Se and V) with the concentrations often linked to pH.

Potential sources of acid in mine impacted water at mine sites can include the following;

- Oxidation of sulfide minerals such as pyrite that produce sulfuric acid (INAP, 2025);
- Rainfall and leaching of cations such as calcium (Ca^{2+}), magnesium (Mg^{2+}), potassium (K^+) and sodium (Na^+) that reduce soil pH by atmospheric carbonic, nitric or sulfuric acid; and
- Organic matter decay.

Potential sources of salts in mine impacted water at mine sites that can include the following.

- Oxidation of sulfide minerals, the production of sulfuric acid and subsequent neutralisation reactions that mobilise major ions such as sulfate (SO_4^{2-}) and calcium;
- Chemical weathering of adjacent soil and rock by sulfuric acid that releases major ions such as sodium, potassium, magnesium and chloride; and
- The mobilisation of sodium chloride (NaCl) or sodium bi-carbonate (NaHCO_3) that are present within geological units and groundwater and then released in fluxes as mined materials are extracted (blasted), processed (crushed) and placed into mine landforms.

Potential sources of metals (e.g. Al, Fe, Mn, and Zn) and metalloids (oxyanions such as Mo, Se and V) in water at mine sites can include elements present:

- As ancillary minerals within primary sulfide minerals like pyrite or marcasite;
- In the solid phase of geological units in a range of minerals; and
- In pore water.

Pathways by which AMD is mobilised

AMD is mobilised by water and is transported from the source materials along aqueous physical pathways into the receiving environment. The salts, metals and metalloids in aqueous phases can be taken up by aqueous flora and fauna via aqueous biophysical pathways.

Salts, metals, and metalloids present as exchangeable or less soluble fractions (e.g., carbonate or oxide fractions) can also be relocated via physical pathways in the aqueous environment as suspended sediment or bedload sediment. Wind borne erosion is another pathway whereby salts, metals and metalloids can be moved from the source to the receiving environment. Salts, metals, and metalloids present in soluble or exchangeable fractions within mined material or process waste can also be taken up by plants via terrestrial biophysical pathways.

Attachment C: Static Multi-element and Kinetic Analysis Composites

Table C-1: Static multi-element sample compositions

Composite	Drill Hole ID	Sample ID	Sample Lithology	Sample Material	Mineralisation	Weathering
1	KDD021	KDD021-76.95	Biotite Granite	Waste	Pyrite	Fresh
	KDD021	KDD021-45	Biotite Granite	Waste		Moderately
	KDD021	KDD021-5.6	Biotite Granite	Waste		Completely
2	KDD021	KDD021-127.8	Biotite Schist	Waste	Pyrite	Slightly
	KDD021	KDD021-260.2	Biotite Schist	Waste	Pyrite	Slightly
3	KDD021	KDD021-108.7	Quartz/Biotite Schist	Waste	Pyrite	Moderately
	KDD021	KDD021-274.2	Quartz/Biotite Schist	Waste	Pyrite	Fresh
	KDD023	KDD023-42	Quartz/Biotite Schist	Waste	Pyrrhotite	Slightly
	KDD023	KDD023-220	Quartz/Biotite schist	Waste	Pyrrhotite	Fresh
	KDD023	KDD023-5	Quartz/Biotite Schist	Waste		Highly
	KDD023	KDD023-121.9	Quartz/Biotite Schist	Waste		Slightly
	KDD023	KDD023-301.6	Quartz/Biotite schist	Waste		Fresh
4	KDD023	KDD023-261	Quartz/Biotite schist	Waste	Arsenopyrite	Slightly
	KDD039	KDD039-67	Quartz/Biotite schist	Waste	Pyrrhotite	Slightly
	KDD039	KDD039-168.4	Quartz/Biotite schist	Waste	Pyrite	Fresh
	KDD039	KDD039-107	Quartz/Biotite schist	Waste	Pyrite	Slightly
	KDD039	KDD039-27	Quartz/Biotite schist	Waste		Highly
5	KDD040	KDD040-280.1	Biotite Granite	Waste		Fresh
	KDD040	KDD040-217.5	Biotite Granite	Waste		Fresh
6	KDD040	KDD040-100.7	Quartz/Biotite schist	Waste	Pyrite	Fresh
	KDD040	KDD040-290.2	Quartz/Biotite schist	Waste		Fresh
	KDD040	KDD040-140.1	Quartz/Biotite schist	Waste	Pyrite	Fresh
	KDD040	KDD040-20.4	Quartz/Biotite schist	Waste		Slightly
	KDD040	KDD040-60.4	Quartz/Biotite schist	Waste		Highly

Composite	Drill Hole ID	Sample ID	Sample Lithology	Sample Material	Mineralisation	Weathering
7	KDD042	KDD042-52.55	Biotite Granite	Waste	Pyrite	Fresh
	KDD042	KDD042-131.4	Biotite Granite	Waste	Pyrite	Slightly
	KDD042	KDD042-88.7	Biotite Granite	Waste	Pyrite	Slightly
	KDD042	KDD042-31	Biotite Granite	Waste	Pyrite	Fresh
	KDD042	KDD042-60.5	Biotite Granite	Waste	Pyrite	Slightly
	KDD042	KDD042-4	Biotite Granite	Waste	Pyrite	Fresh
8	KDD042	KDD042-150.9	Quartz/Biotite schist	Waste	Pyrite	Fresh
	KDD042	KDD042-204	Quartz/Biotite schist	Waste		Fresh
	KDD042	KDD042-172.9	Quartz/Biotite schist	Waste	Pyrrhotite	Fresh
	KDD042	KDD042-191.8	Quartz/Biotite schist	Waste	Pyrite	Fresh
9	KDD054	KDD054-67.2	Quartz/Biotite schist	Waste	Pyrrhotite	Fresh
	KDD054	KDD054-28.5	Quartz/Biotite schist	Waste	Pyrite	Slightly
	KDD054	KDD054-195	Quartz/Biotite schist	Waste	Pyrite	Fresh
	KDD054	KDD054-215.4	Quartz/Biotite schist	Waste	Pyrite	Fresh
	KDD054	KDD054-235	Quartz/Biotite schist	Waste		Fresh
	KDD054	KDD054-54.9	Quartz/Biotite schist	Waste		Slightly
	KDD054	KDD054-175.7	Quartz/Biotite schist	Waste		Slightly
	KDD054	KDD054-134.7	Quartz/Biotite schist	Waste	Pyrite	Fresh
	KDD054	KDD054-15.5	Quartz/Biotite schist	Waste		Slightly
	KDD054	KDD054-155	Quartz/Biotite schist	Waste	Graphite	Fresh
10	KDD058	KDD058-27	Biotite Granite	Waste		Fresh
	KDD058	KDD058-44.8	Biotite Granite	Waste		Fresh
	KDD058	KDD058-126	Biotite Granite	Waste	Pyrite	Fresh

Composite	Drill Hole ID	Sample ID	Sample Lithology	Sample Material	Mineralisation	Weathering
11	KDD058	KDD058-186.5	Quartz/Biotite schist	Waste	Pyrite	Fresh
	KDD058	KDD058-106	Quartz/Biotite schist	Waste	Pyrite	Fresh
	KDD058	KDD058-199.2	Quartz/Biotite schist	Waste		Fresh
	KDD058	KDD058-66	Quartz/Biotite schist	Waste	Pyrite	Fresh
	KDD058	KDD058-86	Quartz/Biotite schist	Waste		Fresh
12	KDD074	KDD074-202	Quartz/Biotite schist	Waste	Arsenopyrite	Highly
13	KDD021	KDD021-181.25	Granite	Potentially Mineralised Waste	Arsenopyrite	Moderately
14	KDD021	KDD021-146	Quartz/Biotite Schist	Potentially Mineralised Waste	Pyrite	Slightly
	KDD021	KDD021-239	Quartz/Biotite Schist	Potentially Mineralised Waste		Moderately
	KDD040	KDD040-190.6	Biotite Granite	Potentially Mineralised Waste		Fresh
	KDD040	KDD040-320	Quartz/Biotite schist	Potentially Mineralised Waste	Pyrrhotite	Fresh
	KDD040	KDD040-247.6	Quartz/Biotite schist	Potentially Mineralised Waste	Pyrrhotite	Fresh
	KDD040	KDD040-183.3	Quartz/Biotite schist	Potentially Mineralised Waste	Pyrrhotite	Fresh
	KDD040	KDD040-233	Quartz/Biotite schist	Potentially Mineralised Waste	Pyrite	Fresh
15	KDD021	KDD021-198	Granite	Ore	Arsenopyrite	Slightly
	KDD040	KDD040-343.1	Quartz/Biotite schist	Ore	Pyrrhotite	Slightly
	KDD040	KDD040-309	Quartz/Biotite schist	Ore	Pyrrhotite	Slightly
	KDD074	KDD074-188	Quartz/Biotite schist	Ore	Pyrite	Fresh

Table C-2: Recommended kinetic analysis sample compositions

KLC Composite	Drill Hole ID	Sample ID	Sample Lithology	Sample Material	Mineralisation	Weathering
1	KDD021	KDD021-108.7	Quartz/Biotite Schist	Waste	Pyrite	Moderately
	KDD021	KDD021-274.2	Quartz/Biotite Schist	Waste	Pyrite	Fresh
	KDD023	KDD023-42	Quartz/Biotite Schist	Waste	Pyrrhotite	Slightly
	KDD023	KDD023-220	Quartz/Biotite schist	Waste	Pyrrhotite	Fresh
	KDD023	KDD023-5	Quartz/Biotite Schist	Waste		Highly
	KDD023	KDD023-121.9	Quartz/Biotite Schist	Waste		Slightly
	KDD023	KDD023-301.6	Quartz/Biotite schist	Waste		Fresh
2	KDD042	KDD042-52.55	Biotite Granite	Waste	Pyrite	Fresh
	KDD042	KDD042-131.4	Biotite Granite	Waste	Pyrite	Slightly
	KDD042	KDD042-88.7	Biotite Granite	Waste	Pyrite	Slightly
	KDD042	KDD042-31	Biotite Granite	Waste	Pyrite	Fresh
	KDD042	KDD042-60.5	Biotite Granite	Waste	Pyrite	Slightly
	KDD042	KDD042-4	Biotite Granite	Waste	Pyrite	Fresh
3	KDD021	KDD021-181.25	Granite	Potentially Mineralised Waste	Arsenopyrite	Moderately
	KDD021	KDD021-146	Quartz/Biotite Schist	Potentially Mineralised Waste	Pyrite	Slightly
	KDD021	KDD021-239	Quartz/Biotite Schist	Potentially Mineralised Waste		Moderately
	KDD040	KDD040-190.6	Biotite Granite	Potentially Mineralised Waste		Fresh
	KDD040	KDD040-320	Quartz/Biotite schist	Potentially Mineralised Waste	Pyrrhotite	Fresh
	KDD040	KDD040-247.6	Quartz/Biotite schist	Potentially Mineralised Waste	Pyrrhotite	Fresh
	KDD040	KDD040-183.3	Quartz/Biotite schist	Potentially Mineralised Waste	Pyrrhotite	Fresh
	KDD040	KDD040-233	Quartz/Biotite schist	Potentially Mineralised Waste	Pyrite	Fresh
4	KDD021	KDD021-198	Granite	Ore	Arsenopyrite	Slightly
	KDD040	KDD040-343.1	Quartz/Biotite schist	Ore	Pyrrhotite	Slightly
	KDD040	KDD040-309	Quartz/Biotite schist	Ore	Pyrrhotite	Slightly
	KDD074	KDD074-188	Quartz/Biotite schist	Ore	Pyrite	Fresh

Attachment D: Static Testing Results Tables

Table D1: Acid Base Account Results for Mine Materials from the Kokaseb Wia Gold Project

Sample No.	Date	Laboratory ID	Drill Hole ID	Client Sample ID	Sample Lithology	Sample Material	Mineralisation	Alteration	Weathering	From	To	pH ₍₁₋₅₎	EC _(1:5)	Total S*	S _{CR} ^{1*}	ANC ^{1*}	MPA ¹	NAPP ¹	ANC: MPA Ratio	Sample Classification ³	Composite
										(m)	(μS/cm)		(%)	(%)	(kg H ₂ SO ₄ /t)						
1	6/06/2025	266891	KDD021	KDD021-5.6	Biotite Granite	Waste Rock			Completely	5.6	6.1	8.8	159	<0.01	<0.01	146.0	0.2	-145.8	953.5	Non-Acid Forming (Barren)	1
2	6/06/2025	266890	KDD021	KDD021-45	Biotite Granite	Waste Rock		Hematite	Moderately	45.0	45.5	9.6	128	0.016	<0.01	118.0	0.2	-117.8	770.6	Non-Acid Forming (Barren)	1
3	6/06/2025	266892	KDD021	KDD021-76.95	Biotite Granite	Waste Rock	Pyrite		Fresh	77.0	77.5	9.9	154	0.024	<0.01	63.2	0.2	-63.0	412.7	Non-Acid Forming (Barren)	1
4	6/06/2025	266888	KDD021	KDD021-108.7	Quartz/Biotite Schist	Waste Rock	Pyrite	Hematite	Moderately	108.7	109.7	9.2	146	0.103	0.035	60.4	1.1	-59.3	56.3	Non-Acid Forming (Barren)	3
5	6/06/2025	266889	KDD021	KDD021-127.8	Biotite Schist	Waste Rock	Pyrite	Chlorite	Slightly	127.8	128.7	8.4	424	0.230	0.164	54.4	5.0	-49.4	10.8	Non-Acid Forming	2
6	6/06/2025	266894	KDD021	KDD021-157	Mafic (undif)	Waste Rock		Chlorite	Fresh	157.0	158.0	10.1	200	0.051	<0.01	238.0	0.2	-237.8	1554.3	Non-Acid Forming (Barren)	
7	6/06/2025	266898	KDD021	KDD021-260.2	Biotite Schist	Waste Rock	Pyrite	Sericite	Slightly	260.2	261.2	10.0	182	0.127	0.045	144.0	1.4	-142.6	104.5	Non-Acid Forming (Barren)	2
8	6/06/2025	266899	KDD021	KDD021-274.2	Quartz/Biotite Schist	Waste Rock	Pyrite	Chlorite	Fresh	274.2	275.2	10.0	154	<0.01	<0.01	140.0	0.2	-139.8	914.3	Non-Acid Forming (Barren)	3
9	6/06/2025	266902	KDD023	KDD023-5	Quartz/Biotite Schist	Waste Rock		Hematite	Highly	5.0	6.0	9.0	212	0.081	<0.01	48.8	0.2	-48.6	318.7	Non-Acid Forming (Barren)	3
10	6/06/2025	266901	KDD023	KDD023-42	Quartz/Biotite Schist	Waste Rock	Pyrrhotite	Chlorite	Slightly	42.0	43.0	9.1	207	0.166	0.140	43.3	4.3	-39.0	10.1	Non-Acid Forming	3
11	6/06/2025	266903	KDD023	KDD023-82	Calcsilicate	Waste Rock		Sericite	Slightly	82.0	82.9	9.8	109	0.010	<0.01	108.0	0.2	-107.8	705.3	Non-Acid Forming (Barren)	
12	6/06/2025	266900	KDD023	KDD023-121.9	Quartz/Biotite Schist	Waste Rock		Hematite	Slightly	121.9	122.9	9.9	104	0.014	<0.01	41.4	0.2	-41.2	270.4	Non-Acid Forming (Barren)	3
13	18/06/2025	269645	KDD023	KDD023-180	Quartzite	Waste Rock	Pyrite	Garnet	Fresh	180.0	181.0	9.9	111	0.086	<0.01	100.0	0.2	-99.8	653.1	Non-Acid Forming (Barren)	
14	18/06/2025	269646	KDD023	KDD023-220	Quartz/Biotite schist	Waste Rock	Pyrrhotite	Chlorite	Fresh	220.0	221.0	9.9	139	0.088	0.056	88.9	1.7	-87.2	51.8	Non-Acid Forming (Barren)	3
15	18/06/2025	269647	KDD023	KDD023-261	Quartz/Biotite schist	Waste Rock	Arsenopyrite	Chlorite	Slightly	261.0	262.0	10.1	169	1.080	1.010	93.5	30.9	-62.6	3.0	Non-Acid Forming	4
16	18/06/2025	269648	KDD023	KDD023-301.6	Quartz/Biotite schist	Waste Rock		Sericite	Fresh	301.6	302.6	10.1	182	0.012	<0.01	74.0	0.2	-73.8	483.3	Non-Acid Forming (Barren)	3
17	18/06/2025	269654	KDD039	KDD039-7	Quartzite	Waste Rock		Hematite	Completely	7.0	8.0	9.3	238	0.010	<0.01	116.0	0.2	-115.8	757.6	Non-Acid Forming (Barren)	
18	18/06/2025	269652	KDD039	KDD039-27	Quartz/Biotite schist	Waste Rock		Limonite	Highly	27.0	28.0	8.5	249	0.011	<0.01	106.0	0.2	-105.8	692.2	Non-Acid Forming (Barren)	4
19	18/06/2025	269653	KDD039	KDD039-67	Quartz/Biotite schist	Waste Rock	Pyrrhotite	Chlorite	Slightly	67.0	68.0	9.8	111	0.140	0.110	81.8	3.4	-78.4	24.3	Non-Acid Forming	4
20	18/06/2025	269649	KDD039	KDD039-107	Quartz/Biotite schist	Waste Rock	Pyrite	Garnet	Slightly	107.0	108.0	9.3	184	0.122	0.063	85.5	1.9	-83.6	44.3	Non-Acid Forming (Barren)	4
21	18/06/2025	269650	KDD039	KDD039-143.1	Pegmatite	Waste Rock			Fresh	143.1	143.6	9.8	117	<0.01	<0.01	86.1	0.2	-85.9	562.3	Non-Acid Forming (Barren)	
22	18/06/2025	269651	KDD039	KDD039-168.4	Quartz/Biotite schist	Waste Rock	Pyrite	Garnet	Fresh	168.4	169.4	9.6	156	0.127	0.050	112.0	1.5	-110.5	73.1	Non-Acid Forming (Barren)	4
23	18/06/2025	269658	KDD040	KDD040-5	Biotite schist	Waste Rock		Garnet	Highly	5.0	6.0	9.0	603	0.027	<0.01	188.0	0.2	-187.8	1227.8	Non-Acid Forming (Barren)	
24	18/06/2025	269657	KDD040	KDD040-20.4	Quartz/Biotite schist	Waste Rock		Hematite	Slightly	20.4	21.4	9.5	140	0.015	<0.01	137.0	0.2	-136.8	894.7	Non-Acid Forming (Barren)	6
25	18/06/2025	269659	KDD040	KDD040-60.4	Quartz/Biotite schist	Waste Rock		Sericite	Highly	60.4	61.4	9.4	156	0.014	<0.01	183.0	0.2	-182.8	1195.1	Non-Acid Forming (Barren)	6
26	18/06/2025	269655	KDD040	KDD040-100.7	Quartz/Biotite schist	Waste Rock	Pyrite	Chlorite	Fresh	100.7	101.7	9.8	179	0.569	0.516	92.2	15.8	-76.4	5.8	Non-Acid Forming	6
27	18/06/2025	269656	KDD040	KDD040-140.1	Quartz/Biotite schist	Waste Rock	Pyrite	Sericite	Fresh	140.1	141.1	9.9	171	0.030	<0.01	114.0	0.2	-113.8	744.5	Non-Acid Forming (Barren)	6
28	20/06/2025	271684	KDD040	KDD040-217.5	Biotite Granite	Waste Rock			Fresh	217.5	218.0	9.6	96	<0.01	<0.01	43.5	0.2	-43.3	284.1	Non-Acid Forming (Barren)	5
29	20/06/2025	271730	KDD040	KDD040-280.1	Biotite Granite	Waste Rock			Fresh	280.1	281.1	9.7	110	0.076	0.011	43.0	0.3	-42.7	127.6	Non-Acid Forming (Barren)	5
30	20/06/2025	271731	KDD040	KDD040-290.2	Quartz/Biotite schist	Waste Rock			Fresh	290.2	291.2	10.0	162	0.039	<0.01	115.0	0.2	-114.8	751.0	Non-Acid Forming (Barren)	6
31	20/06/2025	271736	KDD042	KDD042-4	Biotite Granite	Waste Rock	Pyrite	Limonite	Fresh	4.0	5.0	9.8	158	0.037	<0.01	46.7	0.2	-46.5	305.0	Non-Acid Forming (Barren)	7
32	20/06/2025	271735	KDD042	KDD042-31	Biotite Granite	Waste Rock	Pyrite		Fresh	31.0	32.0	9.7	154	0.049	0.019	59.4	0.6	-58.8	102.1	Non-Acid Forming (Barren)	7
33	20/06/2025	271737	KDD042	KDD042-52.55	Biotite Granite	Waste Rock	Pyrite		Fresh	52.6	53.4	8.3	431	1.540	1.430	73.1	43.8	-29.3	1.7	Non-Acid Forming	7
34	20/06/2025	271738	KDD042	KDD042-60.5	Biotite Granite	Waste Rock	Pyrite	Hematite	Slightly	60.5	61.5	9.6	139	0.046	<0.01	122.0	0.2	-121.8	796.7	Non-Acid Forming (Barren)	7
35	20/06/2025	271739	KDD042	KDD042-88.7	Biotite Granite	Waste Rock	Pyrite	Chlorite	Slightly	88.7	89.7	9.5	137	0.056	<0.01	102.0	0.2	-101.8	666.1	Non-Acid Forming (Barren)	7
36	23/06/2025	271741	KDD042	KDD042-102.6	Fault	Waste Rock		Hematite	Highly	102.6	103.7	9.1	117	<0.01	<0.01	105.0	0.2	-104.8	685.7	Non-Acid Forming (Barren)	
37	23/06/2025	271742	KDD042	KDD042-131.4	Biotite Granite	Waste Rock	Pyrite	Chlorite	Slightly	131.4	132.4	9.2	157	0.231	0.151	59.4	4.6	-54.8	12.8	Non-Acid Forming	7
38	23/06/2025	271743	KDD042	KDD042-150.9	Quartz/Biotite schist	Waste Rock	Pyrite		Fresh	150.9	151.9	9.4	169	0.877	0.862	54.7	26.4	-28.3	2.1	Non-Acid Forming	8
39	23/06/2025	271744	KDD042	KDD042-172.9	Quartz/Biotite schist	Waste Rock	Pyrrhotite	Chlorite	Fresh	172.9	173.9	9.6	140	0.075	0.030	63.8	0.9	-62.9	69.4	Non-Acid Forming (Barren)	8
40	23/06/2025	271745	KDD042	KDD042-191.8	Quartz/Biotite schist	Waste Rock	Pyrite	Chlorite	Fresh	191.8	192.8	9.5	133	0.027	<0.01	74.8	0.2	-74.6	488.5	Non-Acid Forming (Barren)	8
41	23/06/2025	271746	KDD042	KDD042-204	Quartz/Biotite schist	Waste Rock		Chlorite	Fresh	204.0	205.0	9.5	122	0.125	0.054	59.7	1.7	-58.0	36.1	Non-Acid Forming (Barren)	8
42	23/06/2025	271748	KDD054	KDD054-15.5	Quartz/Biotite schist	Waste Rock		Limonite													



Table D1: Acid Base Account Results for Mine Materials from the Kokaseb Wia Gold Project

Sample No.	Date	Laboratory ID	Drill Hole ID	Client Sample ID	Sample Lithology	Sample Material	Mineralisation	Alteration	Weathering	From	To	pH ^(1:5)	EC ^(1:5)	Total S*	S _{CR} ^{1*}	ANC ^{1*}	MPA ¹	NAPP ¹	ANC: MPA Ratio	Sample Classification ³	Composite
										(m)			(µS/cm)	(%)	(%)	(kg H ₂ SO ₄ /t)					
54	30/06/2025	275476	KDD058	KDD058-6.8	Biotite schist	Waste Rock		Limonite	Moderately	6.8	7.3	9.4	250	<0.01	<0.01	53.8	0.2	-53.6	351.3	Non-Acid Forming (Barren)	
55	30/06/2025	275474	KDD058	KDD058-27	Biotite Granite	Waste Rock		Hematite	Fresh	27.0	27.5	9.8	118	<0.01	<0.01	44.7	0.2	-44.5	291.9	Non-Acid Forming (Barren)	10
56	30/06/2025	275475	KDD058	KDD058-44.8	Biotite Granite	Waste Rock			Fresh	44.8	45.3	9.8	133	<0.01	<0.01	105.0	0.2	-104.8	685.7	Non-Acid Forming (Barren)	10
57	30/06/2025	275477	KDD058	KDD058-66	Quartz/Biotite schist	Waste Rock	Pyrite	Chlorite	Fresh	66.0	67.0	10.0	139	0.018	<0.01	117.0	0.2	-116.8	764.1	Non-Acid Forming (Barren)	11
58	30/06/2025	275478	KDD058	KDD058-86	Quartz/Biotite schist	Waste Rock		Chlorite	Fresh	86.0	87.0	10.2	166	<0.01	<0.01	57.4	0.2	-57.2	374.9	Non-Acid Forming (Barren)	11
59	30/06/2025	275479	KDD058	KDD058-106	Quartz/Biotite schist	Waste Rock	Pyrite	Chlorite	Fresh	106.0	107.0	9.9	150	0.051	<0.01	115.0	0.2	-114.8	751.0	Non-Acid Forming (Barren)	11
60	30/06/2025	275480	KDD058	KDD058-126	Biotite Granite	Waste Rock	Pyrite	Chlorite	Fresh	126.0	126.6	9.8	129	<0.01	<0.01	101.0	0.2	-100.8	659.6	Non-Acid Forming (Barren)	10
61	30/06/2025	275481	KDD058	KDD058-186.5	Quartz/Biotite schist	Waste Rock	Pyrite	Chlorite	Fresh	186.5	187.5	9.9	187	0.149	0.033	112.0	1.0	-111.0	110.8	Non-Acid Forming (Barren)	11
62	30/06/2025	275482	KDD058	KDD058-199.2	Quartz/Biotite schist	Waste Rock		Chlorite	Fresh	199.2	200.2	10.0	171	0.033	<0.01	41.8	0.2	-41.6	273.0	Non-Acid Forming (Barren)	11
63	30/06/2025	275484	KDD074	KDD074-202	Quartz/Biotite schist	Waste Rock	Arsenopyrite	Hematite	Highly	202.0	203.0	9.3	147	0.012	<0.01	133.0	0.2	-132.8	868.6	Non-Acid Forming (Barren)	12
64	6/06/2025	266893	KDD021	KDD021-146	Quartz/Biotite Schist	Mineralised Waste	Pyrite	Chlorite	Slightly	146.0	147.0	9.2	197	0.192	0.133	58.7	4.1	-54.6	14.4	Non-Acid Forming	14
65	6/06/2025	266895	KDD021	KDD021-181.25	Granite	Mineralised Waste	Arsenopyrite	Hematite	Moderately	181.3	182.3	9.4	178	0.089	0.061	64.0	1.9	-62.1	34.3	Non-Acid Forming (Barren)	13
66	6/06/2025	266897	KDD021	KDD021-239	Quartz/Biotite Schist	Mineralised Waste		Hematite	Moderately	239.0	240.0	9.7	200	0.035	<0.01	60.8	0.2	-60.6	397.1	Non-Acid Forming (Barren)	14
67	20/06/2025	271682	KDD040	KDD040-183.3	Quartz/Biotite schist	Mineralised Waste	Pyrrhotite	Chlorite	Fresh	183.3	184.3	9.8	144	0.038	0.010	70.4	0.3	-70.1	229.9	Non-Acid Forming (Barren)	14
68	20/06/2025	271683	KDD040	KDD040-190.6	Biotite Granite	Mineralised Waste			Fresh	190.6	191.6	9.8	121	<0.01	<0.01	50.9	0.2	-50.7	332.4	Non-Acid Forming (Barren)	14
69	20/06/2025	271685	KDD040	KDD040-233	Quartz/Biotite schist	Mineralised Waste	Pyrite	Garnet	Fresh	233.0	234.0	10.1	165	0.010	<0.01	52.0	0.2	-51.8	339.6	Non-Acid Forming (Barren)	14
70	20/06/2025	271686	KDD040	KDD040-247.6	Quartz/Biotite schist	Mineralised Waste	Pyrrhotite	Chlorite	Fresh	247.6	248.6	9.9	188	0.090	0.014	55.3	0.4	-54.9	129.0	Non-Acid Forming (Barren)	14
71	20/06/2025	271733	KDD040	KDD040-320	Quartz/Biotite schist	Mineralised Waste	Pyrrhotite	Chlorite	Fresh	320.0	321.0	9.8	149	0.313	0.061	78.0	1.9	-76.1	41.8	Non-Acid Forming (Barren)	14
72	6/06/2025	266896	KDD021	KDD021-198	Granite	Ore	Arsenopyrite		Slightly	198.0	199.0	9.8	132	0.240	0.214	59.3	6.6	-52.7	9.0	Non-Acid Forming	15
73	20/06/2025	271732	KDD040	KDD040-309	Quartz/Biotite schist	Ore	Pyrrhotite	Chlorite	Slightly	309.0	310.0	9.8	182	0.339	0.169	116.0	5.2	-110.8	22.4	Non-Acid Forming	15
74	20/06/2025	271734	KDD040	KDD040-343.1	Quartz/Biotite schist	Ore	Pyrrhotite	Chlorite	Slightly	343.1	344.1	9.6	158	1.290	0.812	122.0	24.9	-97.1	4.9	Non-Acid Forming	15
75	30/06/2025	275483	KDD074	KDD074-188	Quartz/Biotite schist	Ore	Pyrite	Chlorite	Fresh	188.0	189.0	9.8	181	0.720	0.526	51.9	16.1	-35.8	3.2	Non-Acid Forming	15

Notes:

1. S_{CR} = Chromium Reducible Sulfur; MPA = Maximum Potential Acidity; ANC = Acid Neutralising Capacity; NAPP = Net Acid Producing Potential.

2. Sample classification criteria detail provided in report text.

* Where total sulfur or S_{CR} results are less than the laboratory limit of reporting (LoR) a value of half of the LoR is used .

Table D2: Multi-Element and Exchangeable Cation Results for Mine Materials from the Kokoseb Wia Gold Project

RGS Sample Number →		2024040_001	2024040_002	2024040_003	2024040_004	2024040_005	2024040_006	2024040_007	2024040_008
Sampling Date →		11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Laboratory ID →		Com 1	Com 2	Com 3	Com 4	Com 5	Com 6	Com 7	Com 8
Parameters	Limit of Reporting	Biotite Granite	Biotite Schist	Quartz/Biotite Schist	Quartz/Biotite schist	Biotite Granite	Quartz/Biotite schist	Biotite Granite	Quartz/Biotite schist
Major Ions	mg/kg	All units mg/kg							
Calcium (Ca)	247	13,838	6,750	5,051	5,248	1,465	19,307	7,879	2,145
Magnesium (Mg)	24	7,020	14,700	11,364	13,713	1,030	16,881	8,535	13,500
Potassium (K)	66	7,222	13,150	11,465	12,277	1,460	11,931	9,596	12,900
Sodium (Na)	37	803	1,915	990	1,426	788	950	803	1,150
Aluminium (Al)	4	17525	27,150	26,667	33,168	4,449	27,723	21,364	32,350
Iron (Fe)	5	27,879	29,500	29,192	36,287	5,758	34,208	28,889	36,750
Fluoride (F)	N/A	3074	1851	1022	1466	433	2316	1782	1199
Minor and Trace Elements	mg/kg	All units mg/kg							
Antimony (Sb)	0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85
Arsenic (As)	0.5	37.4	27.3	13.5	21.9	3.1	52.0	6.9	28.2
Barium (Ba)	1	121	194	138	131	4	199	130	126
Beryllium (Be)	0.8	<0.8	0.9	<0.8	1.3	2.0	<0.8	<0.8	<0.8
Boron (B)	1.0	<0.95	2.0	2.8	2.4	94.4	<0.95	<0.95	<0.95
Cadmium (Cd)	4.1	4.8	5.3	5.1	6.3	<4.1	6.1	5.2	6.4
Chromium (Cr)	5	104	129	158	158	140	106	125	144
Cobalt (Co)	4.5	5.7	15.2	12.4	14.9	<4.5	13.5	11.5	17.1
Copper (Cu)	3.55	<3.55	<3.55	<3.55	<3.55	<3.55	<3.55	<3.55	<3.55
Lead (Pb)	4.3	9.5	8.9	<4.3	8.2	<4.3	9.0	5.1	5.2
Manganese (Mn)	5	616	585	467	723	112	832	489	655
Mercury (Hg)	0.5	N/A	N/A	N/A	N/A	<0.5	<0.5	<0.5	<0.5
Molybdenum (Mo)	1.4	3.9	3.7	1.9	1.9	3.1	1.7	4.6	<1.4
Nickel (Ni)	5.4	<5.4	20.3	10.7	18.3	<5.4	19.1	6.8	25.6
Selenium (Se)	0.500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silver (Ag)	250	<250	<250	<250	<250	<251	<250	<250	<250
Thorium (Th)	N/A	101	9	17	10	51	21	18	4
Uranium (U)	0.30	<0.3	5.15	<0.3	4.95	4.39	<0.3	<0.3	<0.3
Vanadium (V)	0.5	46.5	71.0	86.4	83.2	1.7	83.7	60.1	109.0
Zinc (Zn)	6.65	85.4	115	74.2	96	16.4	107	84.3	93

Notes: < indicates less than the laboratory limit of reporting.

N/A indicates no result was returned from analysis.

Table D2: Multi-Element and Exchangeable Cation Results for Mine Materials from the Kokoseb Wia Gold Project

RGS Sample Number →		2024040_009	2024040_010	2024040_011	2024040_012	2024040_013	2024040_014	2024040_015
Sampling Date →		11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
Laboratory ID →		Com 9	Com 10	Com 11	Com 12	Com 13	Com 14	Com 15
Parameters	Limit of Reporting	Quartz/Biotite schist	Biotite Granite	Quartz/Biotite schist	Quartz/Biotite schist	Potential Tailings (Arsenopyrite Mineralisation)	Potential Tailings (Pyrite/Pyrrhotite Mineralisation)	Ore
Major Ions	mg/kg	All units mg/kg						
Calcium (Ca)	247	14,851	3,187	13,300	25,096	3,475	4,951	6,970
Magnesium (Mg)	24	14,802	1,227	12,400	12,644	3,728	14,020	10,758
Potassium (K)	66	12,525	1,571	11,100	3,899	3,797	13,627	9,040
Sodium (Na)	37	955	773	1,055	736	792	1,412	965
Aluminium (Al)	4	27,723	4,071	28,850	21,394	8,267	27,157	16,919
Iron (Fe)	5	34,505	7,121	24,400	30,096	13,812	30,637	30,455
Fluoride (F)	N/A	2483	269	1380	1083	454	1333	1285
Minor and Trace Elements	mg/kg	All units mg/kg						
Antimony (Sb)	0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85
Arsenic (As)	0.5	N/A	11.1	33.9	93.8	213.0	80.4	924.0
Barium (Ba)	1	179	6	165	77	39	195	117
Beryllium (Be)	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Boron (B)	1.0	<0.95	<0.95	1.0	<0.95	<0.95	1.5	<0.95
Cadmium (Cd)	4.1	6.1	<4.1	4.4	5.7	<4.1	5.3	5.6
Chromium (Cr)	5	130	131	147	189	182	123	149
Cobalt (Co)	4.5	12.5	<4.5	10.2	12.6	<4.5	12.2	13.2
Copper (Cu)	3.55	<3.55	<3.55	<3.55	<3.55	<3.55	<3.55	<3.55
Lead (Pb)	4.3	9.6	8.8	13.2	18.3	9.6	<4.3	14.5
Manganese (Mn)	5	658	136	423	1,063	246	460	401
Mercury (Hg)	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Molybdenum (Mo)	1.4	<1.4	2.4	3.5	2.7	3.7	<1.4	2.9
Nickel (Ni)	5.4	17.1	<5.4	7.7	14.4	<5.4	16.8	20.6
Selenium (Se)	0.500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.606
Silver (Ag)	250	<250	<250	<250	<250	<250	<250	<250
Thorium (Th)	N/A	22	152	50	20	20	14	23
Uranium (U)	0.30	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Vanadium (V)	0.5	84.7	3.7	74.0	56.7	27.0	88.2	79.3
Zinc (Zn)	6.65	140	11.8	78.5	112	26.1	90.2	84.8

Notes: < indicates less than the laboratory limit of reporting.

N/A indicates no result was returned from analysis.

Table D3: Geochemical Abundance Index (GAI) Results for Mine Materials from the Kokoseb Wia Gold Project

	RGS Sample Number →		2024040_001	2024040_002	2024040_003	2024040_004	2024040_005	2024040_006	2024040_007	2024040_008
	Sampling Date →		11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
	Laboratory ID →		Com 1	Com 2	Com 3	Com 4	Com 5	Com 6	Com 7	Com 8
Parameters	Limit of Reporting	Median Crustal Abundance ^{1,2,3}	Biotite Granite	Biotite Schist	Quartz/Biotite Schist	Quartz/Biotite schist	Biotite Granite	Quartz/Biotite schist	Biotite Granite	Quartz/Biotite schist
Major Ions	(All units in mg/kg)		Geochemical Abundance Index							
Calcium (Ca)	246.5	15,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Magnesium (Mg)	24.25	5,000	0.0	1.0	0.6	0.9	0.0	1.2	0.2	0.8
Potassium (K)	65.75	14,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sodium (Na)	36.6	5,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aluminium (Al)	3.9	71,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Iron (Fe)	5.4	40,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minor and Trace Elements	(All units in mg/kg)		Geochemical Abundance Index							
Antimony (Sb)	0.85	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Arsenic (As)	0.5	6	2.1	1.6	0.6	1.3	0.0	2.5	0.0	1.6
Barium (Ba)	0.85	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beryllium (Be)	0.8	0.3	0.0	1.0	0.0	1.6	2.1	0.0	0.0	0.0
Boron (B)	0.95	20	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0
Cadmium (Cd)	4.1	0.35	3.2	3.3	3.3	3.6	2.0	3.5	3.3	3.6
Chromium (Cr)	4.85	70	0.0	0.3	0.6	0.6	0.4	0.0	0.3	0.5
Cobalt (Co)	4.5	8	0.0	0.3	0.0	0.3	0.0	0.2	0.0	0.5
Copper (Cu)	3.55	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Manganese (Mn)	4.5	1000	0.0	0.0	0.0	0.0	----	0.0	0.0	0.0
Mercury (Hg)	0.5	0.06	----	----	----	----	1.5	1.5	1.5	1.5
Molybdenum (Mo)	1.4	1.2	1.1	1.0	0.1	0.1	0.8	0.0	1.3	0.0
Nickel (Ni)	5.4	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Selenium (Se)	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Silver (Ag)	250	0.05	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Thorium (Th)	N/A	9	2.9	0.0	0.3	0.0	1.9	0.6	0.4	0.0
Uranium (U)	0.3	2	0.0	0.8	0.0	0.7	0.5	0.0	0.0	0.0
Vanadium (V)	0.45	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Zinc (Zn)	6.65	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes: GAI's greater than or equal to 3 are highlighted. Apparent silver enrichment is an artifact of the laboratory Limit of Reporting (LoR)

1. Median Crustal Abundance values sourced from the "GARD Guide", Chapter 5 (INAP, 2009).

2. When no GARD Guide value is available for particular element, then values are taken from Bowen (1979) Environmental Chemistry of the Elements, p 60-61.

3. If no guide value from GARD or Bowen H.J.M. (1979) exists, up to date, curated data is provided by CRC Handbook of Chemistry and Physics (2000).

Table D3: Geochemical Abundance Index (GAI) Results for Mine Materials from the Kokoseb Wia Gold Project

	RGS Sample Number →		2024040_009	2024040_010	2024040_011	2024040_012	2024040_013	2024040_014	2024040_015
	Sampling Date →		11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
	Laboratory ID →		Com 9	Com 10	Com 11	Com 12	Com 13	Com 14	Com 15
Parameters	Limit of Reporting	Median Crustal Abundance ^{1,2,3}	Quartz/Biotite schist	Biotite Granite	Quartz/Biotite schist	Quartz/Biotite schist	Potential Tailings (Arsenopyrite Mineralisation)	Potential Tailings (Pyrite/Pyrrhotite Mineralisation)	Ore
Major Ions	(All units in mg/kg)		Geochemical Abundance Index						
Calcium (Ca)	246.5	15,000	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Magnesium (Mg)	24.25	5,000	1.0	0.0	0.7	0.8	0.0	0.9	0.5
Potassium (K)	65.75	14,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sodium (Na)	36.6	5,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aluminium (Al)	3.9	71,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Iron (Fe)	5.4	40,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minor and Trace Elements	(All units in mg/kg)		Geochemical Abundance Index						
Antimony (Sb)	0.85	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Arsenic (As)	0.5	6	----	0.3	1.9	3.4	4.6	3.2	6.0
Barium (Ba)	0.85	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beryllium (Be)	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Boron (B)	0.95	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cadmium (Cd)	4.1	0.35	3.5	2.0	3.1	3.4	2.0	3.3	3.4
Chromium (Cr)	4.85	70	0.3	0.3	0.5	0.8	0.8	0.2	0.5
Cobalt (Co)	4.5	8	0.1	0.0	0.0	0.1	0.0	0.0	0.1
Copper (Cu)	3.55	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Manganese (Mn)	4.5	1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mercury (Hg)	0.5	0.06	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Molybdenum (Mo)	1.4	1.2	0.0	0.4	1.0	0.6	1.0	0.0	0.7
Nickel (Ni)	5.4	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Selenium (Se)	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Silver (Ag)	250	0.05	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Thorium (Th)	N/A	9	0.7	3.5	1.9	0.6	0.6	0.1	0.8
Uranium (U)	0.3	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vanadium (V)	0.45	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Zinc (Zn)	6.65	90	0.1	0.0	0.0	0.0	0.0	0.0	0.0

Notes: GAI's greater than or equal to 3 are highlighted. Apparent silver enrichment is an artifact of the laboratory Limit of Reporting (LoR)

1. Median Crustal Abundance values sourced from the "GARD Guide", Chapter 5 (INAP, 2009).

2. When no GARD Guide value is available for particular element, then values are taken from Bowen (1979) Environmental Chemistry of the Elements, p 60-61.

3. If no guide value from GARD or Bowen H.J.M. (1979) exists, up to date, curated data is provided by CRC Handbook of Chemistry and Physics (2000).

Table D4: Multi-Element Test Results for Water Extracts from Mine Material from the Kokoseb Wia Gold Project

		RGS Sample Number →		2024040_001	2024040_002	2024040_003	2024040_004	2024040_005	2024040_006	2024040_007	2024040_008
		Sample Date →		11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
		Laboratory ID →		Comp 1	Comp 2	Comp 3	Comp 4	Comp 5	Comp 6	Comp 7	Comp 8
Parameters	Limit of Reporting	Aquatic Ecosystems (freshwater) ¹	Livestock Drinking Water ²	Biotite Granite	Biotite Schist	Quartz/Biotite Schist	Quartz/Biotite schist	Biotite Granite	Quartz/Biotite schist	Biotite Granite	Quartz/Biotite schist
pH	0.01 pH unit	6 to 9	-	8.94	8.74	8.22	8.79	9.63	9.26	9.26	9.43
Electrical Conductivity	36.7 µS/cm	<1,000 [#]		158	352	363	216	117	174	181	153
Carbonate Alkalinity (mg CaCO ₃ /L)	3.62 mg/L	-	-	5	2	2	5	12	8	8	13
Bicarbonate Alkalinity (mg CaCO ₃ /L)	3.62 mg/L	-	-	66	68	67	79	29	48	45	51
Total Alkalinity (mg CaCO ₃ /L)	3.62 mg/L	-	-	72	72	68	84	43	57	53	65
Acidity (mg CaCO ₃ /L)	3.62 mg/L	-	-	2	2	2	2	2	2	2	2
Net Alkalinity (mg CaCO ₃ /L)	3.62 mg/L	-	-	70	70	66	82	41	55	52	63
Major Ions		All units mg/L		All units mg/L							
Calcium (Ca)	0.545	-	1,000	10	12	3	6	1	3	5	<0.545
Magnesium (Mg)	0.441	-	-	3	7	1	3	<0.441	2	2	1
Potassium (K)	0.459	-	-	11	29	16	10	13	14	24	11
Sodium (Na)	0.469	-	-	11	21	12	19	14	11	13	19
Chloride (Cl)	3.88	-	-	5	9	5	4	4	5	6	<3.88
Fluoride (F)	0.034	-	2	3.2	2.0	3.0	4.4	0.8	2.4	2.0	1.2
Sulfate (SO ₄)	0.141	-	-	4.9	88.4	10.9	12.1	<0.141	7.0	16.9	2.1
Orthophospate as P (PO ₄)	0.26	-	-	0.1	0.1	0.1	<0.26	0.1	0.1	0.1	0.1
Phosphorus (P)	0.001	-	-	0.1	0.0	0.0	0.0	0.4	0.2	0.1	0.1
Trace Metals/Metalloids		All units mg/L		All units mg/L							
Aluminium (Al)	0.164	0.055	5	<0.164	<0.164	0.442	0.196	1.290	0.219	0.735	1.690
Antimony (Sb)	0.052	-	-	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052
Arsenic (As)	0.006	0.024*	0.5	0.062	0.074	0.049	0.041	0.020	0.063	<0.015	0.017
Barium (Ba)	0.016	-	-	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
Beryllium (Be)	0.014	-	-	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Boron (B)	0.015	0.37	5	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Cadmium (Cd)	0.08	0.0002	0.01	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099
Chromium (Cr)	0.079	0.001**	1***	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
Cobalt (Co)	0.099	-	1	<0.142	<0.142	<0.142	<0.142	<0.142	<0.142	<0.142	<0.142
Copper (Cu)	0.142	0.0014	1	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107
Iron (Fe)	0.107	-	-	<0.006	<0.006	0.067	0.038	0.059	0.032	0.098	0.206
Lead (Pb)	0.091	0.0034	0.1	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091
Manganese (Mn)	0.091	1.9	-	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029
Mercury (Hg)	0.006	0.0006	0.002	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104
Molybdenum (Mo)	0.029	-	0.15	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091
Nickel (Ni)	0.104	0.011	1	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052
Selenium (Se)	0.01	0.011	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver (Ag)	5	0.00005	-	<5	<5	<5	<5	<5	<5	<5	<5
Thorium (Th)	N/A	-	-	0.002	0.001	0.001	0.001	0.001	0.001	0.001	N/A
Uranium (U)	0.01	-	0.1	0.005	0.015	0.005	0.005	0.014	0.005	0.005	0.005
Vanadium (V)	0.01	-	-	0.029	<0.01	0.080	0.011	<0.01	0.023	0.010	0.013
Zinc (Zn)	0.126	0.008	20	<0.126	<0.126	<0.126	<0.126	<0.126	<0.126	<0.126	<0.126

Notes: < indicates concentration less than the detection limit. Shaded cells exceed applied guideline values.
* 0.013 mg/L for pentavalent Arsenic (V). 0.024 mg/L for trivalent Arsenic (III). ** Cr (VI) = hexavalent. *** Total Cr
for still water bodies only, moving rivers at low flow rates should not exceed 2,200 µS/cm.
1. ANZG (2018). Trigger values for freshwater aquatic ecosystems (95 % species protection level)
2. ANZG (2018). Recommended guideline limits for Livestock Drinking Water.

Table D4: Multi-Element Test Results for Water Extracts from Mine Material from the Kokoseb Wia Gold Project

		RGS Sample Number →		2024040_009	2024040_010	2024040_011	2024040_012	2024040_013	2024040_014	2024040_015
		Sample Date →		11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025	11/08/2025
		Laboratory ID →		Comp 9	Comp 10	Comp 11	Comp 12	Comp 13	Comp 14	Comp 15
Parameters	Limit of Reporting	Aquatic Ecosystems (freshwater) ¹	Livestock Drinking Water ²	Quartz/Biotite schist	Biotite Granite	Quartz/Biotite schist	Quartz/Biotite schist	Potential Tailings (Arsenopyrite Mineralisation)	Potential Tailings (Pyrite/Pyrrhotite Mineralisation)	Ore
pH	0.01 pH unit	6 to 9	-	9.47	9.69	9.91	9.20	9.03	9.67	9.59
Electrical Conductivity	36.7 µS/cm	<1,000 [#]		196	134	156	167	216	179	187
Carbonate Alkalinity (mg CaCO ₃ /L)	3.62 mg/L	-	-	14	15	27	10	4	21	27
Bicarbonate Alkalinity (mg CaCO ₃ /L)	3.62 mg/L	-	-	52	31	35	65	36	47	75
Total Alkalinity (mg CaCO ₃ /L)	3.62 mg/L	-	-	68	48	66	75	41	70	104
Acidity (mg CaCO ₃ /L)	3.62 mg/L	-	-	2	2	2	2	2	2	2
Net Alkalinity (mg CaCO ₃ /L)	3.62 mg/L	-	-	66	46	64	73	39	68	102
Major Ions		All units mg/L		All units mg/L						
Calcium (Ca)	0.545	-	1,000	3	3	1	6	10	1	4
Magnesium (Mg)	0.441	-	-	2	0	0	3	3	1	2
Potassium (K)	0.459	-	-	25	16	29	13	15	22	28
Sodium (Na)	0.469	-	-	12	12	11	5	6	20	17
Chloride (Cl)	3.88	-	-	7	8	4	8	7	<3.88	11
Fluoride (F)	0.034	-	2	2.1	0.8	0.8	1.1	0.8	1.7	2.1
Sulfate (SO ₄)	0.141	-	-	7.5	0.5	0.3	5.9	48.3	2.3	2.4
Orthophospate as P (PO ₄)	0.26	-	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Phosphorus (P)	0.001	-	-	0.1	0.7	0.0	0.0	0.2	0.2	0.1
Trace Metals/Metalloids		All units mg/L		All units mg/L						
Aluminium (Al)	0.164	0.055	5	2.380	0.462	1.100	0.208	0.189	1.160	5.720
Antimony (Sb)	0.052	-	-	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052
Arsenic (As)	0.006	0.024*	0.5	0.112	0.038	0.123	0.083	0.090	0.283	1.090
Barium (Ba)	0.016	-	-	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	0.036
Beryllium (Be)	0.014	-	-	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Boron (B)	0.015	0.37	5	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Cadmium (Cd)	0.08	0.0002	0.01	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099
Chromium (Cr)	0.079	0.001**	1***	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079
Cobalt (Co)	0.099	-	1	<0.142	<0.142	<0.142	<0.142	<0.142	<0.142	<0.142
Copper (Cu)	0.142	0.0014	1	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107
Iron (Fe)	0.107	-	-	0.915	0.003	0.135	<0.006	<0.006	0.150	3.100
Lead (Pb)	0.091	0.0034	0.1	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091
Manganese (Mn)	0.091	1.9	-	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	0.042
Mercury (Hg)	0.006	0.0006	0.002	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104
Molybdenum (Mo)	0.029	-	0.15	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091	<0.091
Nickel (Ni)	0.104	0.011	1	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052
Selenium (Se)	0.01	0.011	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver (Ag)	5	0.00005	-	<5	<5	<5	<5	<5	<5	<5
Thorium (Th)	N/A	-	-	0.001	0.001	0.001	N/A	N/A	0.001	0.001
Uranium (U)	0.01	-	0.1	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Vanadium (V)	0.01	-	-	0.025	<0.01	0.043	<0.01	<0.01	0.031	0.048
Zinc (Zn)	0.126	0.008	20	<0.126	<0.126	<0.126	<0.126	<0.126	<0.126	<0.126

Notes: < indicates concentration less than the detection limit. Shaded cells exceed applied guideline values.

* 0.013 mg/L for pentavalent Arsenic (V). 0.024 mg/L for trivalent Arsenic (III). ** Cr (VI) = hexavalent. *** Total Cr

for still water bodies only, moving rivers at low flow rates should not exceed 2,200 µS/cm.

1. ANZG (2018). Trigger values for freshwater aquatic ecosystems (95 % species protection level)

2. ANZG (2018). Recommended guideline limits for Livestock Drinking Water.

Attachment E: Laboratory Certificates of Analysis

Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 1				
Date sampled:	11 August 2025				
Sample dry Mass(g):					0.990
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	0.741	37.4
Boron as B	150	15000	60000	0.015	0.758
Barium as Ba	62.5	6250	25000	2.39	121
Cadmium - Cd	7.5	260	1040	0.095	4.8
Cobalt as Co	50.0	5000	20000	0.113	5.71
Chromium as Cr	46000	800000	-	2.05	104
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	-	0.001
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	12.2	616
Molybdenum as Mo	40.0	1000	4000	0.078	3.94
Nickel as Ni	91.0	10600	42400	ND	ND
Lead as Pb	20.0	1900	7600	0.188	9.49
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	ND	ND
Vanadium as V	150	2680	10720	0.920	46.5
Zinc as Zn	240	160000	640000	1.69	85.4
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

O = Outsourced S = Sub-contracted NR = Not requested RTF = Results to follow NATD = Not able to determine ATR = Alternative test report
 N/A = Not Applicable ND = Not Detected
 Method: Microwave Assisted Digestion
 Values represent actual values imported from the instrument

Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 1				
Date sampled:	11 August 2025				
Sample dry Mass(g):					0.990
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	347	17525
Calcium as Ca	-	-	-	274	13838
Magnesium as Mg	-	-	-	139	7020
Sodium as Na	-	-	-	15.9	803
Potassium	-	-	-	143	7222
Iron as Fe	-	-	-	552	27879
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	ND	ND
Uranium (U)	-	-	-	ND	ND
Thorium (Th)	-	-	-	2	101

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Test Report

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Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 1		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.062	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	0.015	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	ND	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.005	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	ND	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	ND	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.029	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	4.66	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	4.89	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	3.2	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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 N/A = Not Applicable ND = Not Detected
 Method: Australian Standard Leaching Procedure (ASLP)
 Values represent actual values imported from the instrument

Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 1		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	15.8	NR	NR
pH @ 25°C	-	-	-	-	8.94	NR	NR
Total Alkalinity	-	-	-	-	72.3	NR	NR
Aluminium (Al)	-	-	-	-	0.075	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	0.017	NR	NR
Calcium (Ca)	-	-	-	-	9.68	NR	NR
Magnesium (Mg)	-	-	-	-	2.63	NR	NR
Sodium (Na)	-	-	-	-	11.1	NR	NR
DI Potassium (K)	-	-	-	-	10.7	NR	NR
Iron (Fe)	-	-	-	-	ND	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	ND	NR	NR
Bicarbonate alkalinity	-	-	-	-	66.4	NR	NR
Carbonate alkalinity	-	-	-	-	5.44	NR	NR
92 Thorium (Th)	-	-	-	-	0.002	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.083	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 2				
Date sampled:	11 August 2025				
Sample dry Mass(g):					1.00
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	0.546	27.3
Boron as B	150	15000	60000	0.040	2.0
Barium as Ba	62.5	6250	25000	3.87	194
Cadmium - Cd	7.5	260	1040	0.106	5.3
Cobalt as Co	50.0	5000	20000	0.303	15.2
Chromium as Cr	46000	800000	-	2.57	129
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	-	0.001
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	11.7	585
Molybdenum as Mo	40.0	1000	4000	0.074	3.7
Nickel as Ni	91.0	10600	42400	0.405	20.3
Lead as Pb	20.0	1900	7600	0.178	8.9
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	ND	ND
Vanadium as V	150	2680	10720	1.42	71.0
Zinc as Zn	240	160000	640000	2.30	115
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

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Test Report

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Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 2				
Date sampled:	11 August 2025				
Sample dry Mass(g):					1.00
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	543	27150
Calcium as Ca	-	-	-	135	6750
Magnesium as Mg	-	-	-	294	14700
Sodium as Na	-	-	-	38.3	1915
Potassium	-	-	-	263	13150
Iron as Fe	-	-	-	590	29500
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	0.018	0.9
Uranium (U)	-	-	-	0.103	5.15
Thorium (Th)	-	-	-	0.1898	9

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Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 2		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.074	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	0.009	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	ND	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.065	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	ND	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	ND	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.003	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	8.74	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	88.4	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	2.01	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 2		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	35.2	NR	NR
pH @ 25°C	-	-	-	-	8.74	NR	NR
Total Alkalinity	-	-	-	-	71.6	NR	NR
Aluminium (Al)	-	-	-	-	0.09	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	ND	NR	NR
Calcium (Ca)	-	-	-	-	11.9	NR	NR
Magnesium (Mg)	-	-	-	-	7.07	NR	NR
Sodium (Na)	-	-	-	-	20.5	NR	NR
DI Potassium (K)	-	-	-	-	29.0	NR	NR
Iron (Fe)	-	-	-	-	ND	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	0.015	NR	NR
Bicarbonate alkalinity	-	-	-	-	67.8	NR	NR
Carbonate alkalinity	-	-	-	-	3.5	NR	NR
92 Thorium (Th)	-	-	-	-	0.001	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.045	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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 N/A = Not Applicable ND = Not Detected
 Method: Australian Standard Leaching Procedure (ASLP)
 Values represent actual values imported from the instrument

Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:		Comp 3			
Date sampled:		11 August 2025			
Sample dry Mass(g):		0.990			
Sample Volume (mL):		Total Concentrations			50.0
Guideline Limits:		TCT 0	TCT 1	TCT 2	
Units:		mg/Kg	mg/Kg	mg/Kg	mg/L mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	0.267	13.5
Boron as B	150	15000	60000	0.056	2.83
Barium as Ba	62.5	6250	25000	2.73	138
Cadmium - Cd	7.5	260	1040	0.101	5.1
Cobalt as Co	50.0	5000	20000	0.245	12.4
Chromium as Cr	46000	800000	-	3.12	158
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	-	0.001
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	9.25	467
Molybdenum as Mo	40.0	1000	4000	0.038	1.92
Nickel as Ni	91.0	10600	42400	0.212	10.7
Lead as Pb	20.0	1900	7600	0.069	3.48
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	0.003	0.152
Vanadium as V	150	2680	10720	1.71	86.4
Zinc as Zn	240	160000	640000	1.47	74.2
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 3				
Date sampled:	11 August 2025				
Sample dry Mass(g):					0.990
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	528	26667
Calcium as Ca	-	-	-	100	5051
Magnesium as Mg	-	-	-	225	11364
Sodium as Na	-	-	-	19.6	990
Potassium	-	-	-	227	11465
Iron as Fe	-	-	-	578	29192
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	ND	ND
Uranium (U)	-	-	-	ND	ND
Thorium (Th)	-	-	-	0.3434	17

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 3		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.049	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	ND	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	ND	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.002	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	ND	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	ND	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.08	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	5.38	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	10.9	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	2.95	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 3		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	36.3	NR	NR
pH @ 25°C	-	-	-	-	8.22	NR	NR
Total Alkalinity	-	-	-	-	67.9	NR	NR
Aluminium (Al)	-	-	-	-	0.442	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	0.023	NR	NR
Calcium (Ca)	-	-	-	-	3.06	NR	NR
Magnesium (Mg)	-	-	-	-	1.47	NR	NR
Sodium (Na)	-	-	-	-	11.9	NR	NR
DI Potassium (K)	-	-	-	-	16.0	NR	NR
Iron (Fe)	-	-	-	-	0.067	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	ND	NR	NR
Bicarbonate alkalinity	-	-	-	-	66.8	NR	NR
Carbonate alkalinity	-	-	-	-	1.04	NR	NR
92 Thorium (Th)	-	-	-	-	0.001	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.011	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:		Comp 4			
Date sampled:		11 August 2025			
Sample dry Mass(g):		1.01			
Sample Volume (mL):		50.0			
Guideline Limits:					
Units:					
		Total Concentrations			
		TCT 0	TCT 1	TCT 2	
		mg/Kg	mg/Kg	mg/Kg	
					mg/L
					mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	0.443	21.9
Boron as B	150	15000	60000	0.048	2.38
Barium as Ba	62.5	6250	25000	2.64	131
Cadmium - Cd	7.5	260	1040	0.127	6.29
Cobalt as Co	50.0	5000	20000	0.301	14.9
Chromium as Cr	46000	800000	-	3.19	158
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	-	0.001
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	14.6	723
Molybdenum as Mo	40.0	1000	4000	0.038	1.88
Nickel as Ni	91.0	10600	42400	0.369	18.3
Lead as Pb	20.0	1900	7600	0.165	8.17
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	ND	ND
Vanadium as V	150	2680	10720	1.68	83.2
Zinc as Zn	240	160000	640000	1.94	96.0
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

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Test Report

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Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 4				
Date sampled:	11 August 2025				
Sample dry Mass(g):					1.01
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	670	33168
Calcium as Ca	-	-	-	106	5248
Magnesium as Mg	-	-	-	277	13713
Sodium as Na	-	-	-	28.8	1426
Potassium	-	-	-	248	12277
Iron as Fe	-	-	-	733	36287
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	0.027	1.34
Uranium (U)	-	-	-	0.100	4.95
Thorium (Th)	-	-	-	0.2051	10

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Test Report

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Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 4		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.041	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	ND	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	ND	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.016	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	ND	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	ND	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.011	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	4.06	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	12.1	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	4.42	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 4		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	21.6	NR	NR
pH @ 25°C	-	-	-	-	8.79	NR	NR
Total Alkalinity	-	-	-	-	84.2	NR	NR
Aluminium (Al)	-	-	-	-	0.196	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	0.006	NR	NR
Calcium (Ca)	-	-	-	-	5.64	NR	NR
Magnesium (Mg)	-	-	-	-	3.22	NR	NR
Sodium (Na)	-	-	-	-	19.3	NR	NR
DI Potassium (K)	-	-	-	-	9.59	NR	NR
Iron (Fe)	-	-	-	-	0.038	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	ND	NR	NR
Bicarbonate alkalinity	-	-	-	-	79.3	NR	NR
Carbonate alkalinity	-	-	-	-	4.6	NR	NR
92 Thorium (Th)	-	-	-	-	0.001	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.026	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:		Comp 5			
Date sampled:		11 August 2025			
Sample dry Mass(g):		0.990			
Sample Volume (mL):		50.0			
Guideline Limits:		Total Concentrations			
Units:		TCT 0	TCT 1	TCT 2	
		mg/Kg	mg/Kg	mg/Kg	mg/L mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	0.062	3.13
Boron as B	150	15000	60000	1.87	94.4
Barium as Ba	62.5	6250	25000	0.089	4.49
Cadmium - Cd	7.5	260	1040	0.021	1.06
Cobalt as Co	50.0	5000	20000	ND	ND
Chromium as Cr	46000	800000	-	2.78	140
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	ND	ND
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	2.21	112
Molybdenum as Mo	40.0	1000	4000	0.061	3.08
Nickel as Ni	91.0	10600	42400	ND	ND
Lead as Pb	20.0	1900	7600	0.042	2.12
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	ND	ND
Vanadium as V	150	2680	10720	0.034	1.72
Zinc as Zn	240	160000	640000	0.325	16.4
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

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 N/A = Not Applicable ND = Not Detected
Method: Microwave Assisted Digestion
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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 5				
Date sampled:	11 August 2025				
Sample dry Mass(g):					0.990
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	88.1	4449
Calcium as Ca	-	-	-	29.0	1465
Magnesium as Mg	-	-	-	20.4	1030
Sodium as Na	-	-	-	15.6	788
Potassium	-	-	-	28.9	1460
Iron as Fe	-	-	-	114	5758
Silver as Ag	-	-	-	0.005	0.005
Beryllium as Be	-	-	-	0.039	1.97
Uranium (U)	-	-	-	0.087	4.39
Thorium (Th)	-	-	-	1	51

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 N/A = Not Applicable ND = Not Detected
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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:

Comp 5

Date sampled:

11 August 2025

					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.02	NR	NR
Boron as B	0.5	25.0	50.0	200	0.02	NR	NR
Barium as Ba	0.7	35.0	70.0	280	ND	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	ND	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.002	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	ND	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	ND	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.003	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	4.34	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	0.122	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	0.753	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-		NR	
Redox	-	-	-	-		NR	

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 N/A = Not Applicable ND = Not Detected
 Method: Australian Standard Leaching Procedure (ASLP)
 Values represent actual values imported from the instrument

Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 5		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	11.7	NR	NR
pH @ 25°C	-	-	-	-	9.63	NR	NR
Total Alkalinity	-	-	-	-	42.5	NR	NR
Aluminium (Al)	-	-	-	-	1.29	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	0.196	NR	NR
Calcium (Ca)	-	-	-	-	0.761	NR	NR
Magnesium (Mg)	-	-	-	-	0.333	NR	NR
Sodium (Na)	-	-	-	-	14.3	NR	NR
DI Potassium (K)	-	-	-	-	12.5	NR	NR
Iron (Fe)	-	-	-	-	0.059	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	0.014	NR	NR
Bicarbonate alkalinity	-	-	-	-	28.8	NR	NR
Carbonate alkalinity	-	-	-	-	11.6	NR	NR
92 Thorium (Th)	-	-	-	-	0.001	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.384	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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 N/A = Not Applicable ND = Not Detected
 Method: Australian Standard Leaching Procedure (ASLP)
 Values represent actual values imported from the instrument

Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:		Comp 6			
Date sampled:		11 August 2025			
Sample dry Mass(g):		1.01			
Sample Volume (mL):		50.0			
Guideline Limits:					
Units:					
		Total Concentrations			
		TCT 0	TCT 1	TCT 2	
		mg/Kg	mg/Kg	mg/Kg	
					mg/L
					mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	1.05	52.0
Boron as B	150	15000	60000	0.017	0.842
Barium as Ba	62.5	6250	25000	4.01	199
Cadmium - Cd	7.5	260	1040	0.124	6.14
Cobalt as Co	50.0	5000	20000	0.272	13.5
Chromium as Cr	46000	800000	-	2.15	106
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	-	0.001
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	16.8	832
Molybdenum as Mo	40.0	1000	4000	0.035	1.73
Nickel as Ni	91.0	10600	42400	0.385	19.1
Lead as Pb	20.0	1900	7600	0.182	9.01
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	0.002	0.099
Vanadium as V	150	2680	10720	1.69	83.7
Zinc as Zn	240	160000	640000	2.16	107
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

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 Method: Microwave Assisted Digestion
 Values represent actual values imported from the instrument

Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 6				
Date sampled:	11 August 2025				
Sample dry Mass(g):					1.01
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	560	27723
Calcium as Ca	-	-	-	390	19307
Magnesium as Mg	-	-	-	341	16881
Sodium as Na	-	-	-	19.2	950
Potassium	-	-	-	241	11931
Iron as Fe	-	-	-	691	34208
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	0.004	0.198
Uranium (U)	-	-	-	ND	ND
Thorium (Th)	-	-	-	0.4231	21

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 6		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.063	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	ND	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	ND	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.006	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	ND	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	ND	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.023	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	4.85	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	6.97	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	2.44	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 6		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	17.4	NR	NR
pH @ 25°C	-	-	-	-	9.26	NR	NR
Total Alkalinity	-	-	-	-	57.2	NR	NR
Aluminium (Al)	-	-	-	-	0.219	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	ND	NR	NR
Calcium (Ca)	-	-	-	-	3.23	NR	NR
Magnesium (Mg)	-	-	-	-	2.06	NR	NR
Sodium (Na)	-	-	-	-	11.0	NR	NR
DI Potassium (K)	-	-	-	-	13.7	NR	NR
Iron (Fe)	-	-	-	-	0.032	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	ND	NR	NR
Bicarbonate alkalinity	-	-	-	-	48.1	NR	NR
Carbonate alkalinity	-	-	-	-	8.22	NR	NR
92 Thorium (Th)	-	-	-	-	0.001	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.239	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:		Comp 7			
Date sampled:		11 August 2025			
Sample dry Mass(g):		0.990			
Sample Volume (mL):		50.0			
Guideline Limits:					
Units:					
		Total Concentrations			
		TCT 0	TCT 1	TCT 2	
		mg/Kg	mg/Kg	mg/Kg	mg/L mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	0.137	6.92
Boron as B	150	15000	60000	0.003	0.152
Barium as Ba	62.5	6250	25000	2.57	130
Cadmium - Cd	7.5	260	1040	0.102	5.15
Cobalt as Co	50.0	5000	20000	0.228	11.5
Chromium as Cr	46000	800000	-	2.48	125
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	-	0.001
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	9.68	489
Molybdenum as Mo	40.0	1000	4000	0.090	4.55
Nickel as Ni	91.0	10600	42400	0.135	6.82
Lead as Pb	20.0	1900	7600	0.101	5.1
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	ND	ND
Vanadium as V	150	2680	10720	1.19	60.1
Zinc as Zn	240	160000	640000	1.67	84.3
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 7				
Date sampled:	11 August 2025				
Sample dry Mass(g):					0.990
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	423	21364
Calcium as Ca	-	-	-	156	7879
Magnesium as Mg	-	-	-	169	8535
Sodium as Na	-	-	-	15.9	803
Potassium	-	-	-	190	9596
Iron as Fe	-	-	-	572	28889
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	0.009	0.455
Uranium (U)	-	-	-	ND	ND
Thorium (Th)	-	-	-	0.3481	18

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 7		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.006	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	0.007	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	ND	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.002	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	ND	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	ND	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.01	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	6.0	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	16.9	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	2.02	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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 Method: Australian Standard Leaching Procedure (ASLP)
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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 7		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	18.1	NR	NR
pH @ 25°C	-	-	-	-	9.26	NR	NR
Total Alkalinity	-	-	-	-	53.4	NR	NR
Aluminium (Al)	-	-	-	-	0.735	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	0.065	NR	NR
Calcium (Ca)	-	-	-	-	4.65	NR	NR
Magnesium (Mg)	-	-	-	-	1.62	NR	NR
Sodium (Na)	-	-	-	-	12.9	NR	NR
DI Potassium (K)	-	-	-	-	23.8	NR	NR
Iron (Fe)	-	-	-	-	0.098	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	ND	NR	NR
Bicarbonate alkalinity	-	-	-	-	44.8	NR	NR
Carbonate alkalinity	-	-	-	-	7.67	NR	NR
92 Thorium (Th)	-	-	-	-	0.001	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.086	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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 Method: Australian Standard Leaching Procedure (ASLP)
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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:		Comp 8			
Date sampled:		11 August 2025			
Sample dry Mass(g):		1.00			
Sample Volume (mL):		50.0			
Guideline Limits:					
Units:					
		Total Concentrations			
		TCT 0	TCT 1	TCT 2	
		mg/Kg	mg/Kg	mg/Kg	
					mg/L
					mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	0.563	28.2
Boron as B	150	15000	60000	ND	ND
Barium as Ba	62.5	6250	25000	2.51	126
Cadmium - Cd	7.5	260	1040	0.128	6.4
Cobalt as Co	50.0	5000	20000	0.342	17.1
Chromium as Cr	46000	800000	-	2.88	144
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	-	0.001
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	13.1	655
Molybdenum as Mo	40.0	1000	4000	0.017	0.85
Nickel as Ni	91.0	10600	42400	0.511	25.6
Lead as Pb	20.0	1900	7600	0.104	5.2
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	0.002	0.1
Vanadium as V	150	2680	10720	2.18	109
Zinc as Zn	240	160000	640000	1.86	93.0
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

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 Method: Microwave Assisted Digestion
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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 8				
Date sampled:	11 August 2025				
Sample dry Mass(g):					1.00
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	647	32350
Calcium as Ca	-	-	-	42.9	2145
Magnesium as Mg	-	-	-	270	13500
Sodium as Na	-	-	-	23.0	1150
Potassium	-	-	-	258	12900
Iron as Fe	-	-	-	735	36750
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	ND	ND
Uranium (U)	-	-	-	ND	ND
Thorium (Th)	-	-	-	0.0812	4

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 8		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.017	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	0.002	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	ND	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	ND	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	ND	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	ND	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.013	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	2.53	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	2.11	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	1.21	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 8		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	15.3	NR	NR
pH @ 25°C	-	-	-	-	9.43	NR	NR
Total Alkalinity	-	-	-	-	65.2	NR	NR
Aluminium (Al)	-	-	-	-	1.69	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	0.039	NR	NR
Calcium (Ca)	-	-	-	-	ND	NR	NR
Magnesium (Mg)	-	-	-	-	0.729	NR	NR
Sodium (Na)	-	-	-	-	18.5	NR	NR
DI Potassium (K)	-	-	-	-	11.3	NR	NR
Iron (Fe)	-	-	-	-	0.206	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	ND	NR	NR
Bicarbonate alkalinity	-	-	-	-	51.0	NR	NR
Carbonate alkalinity	-	-	-	-	12.9	NR	NR
92 Thorium (Th)	-	-	-	-	ND	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.053	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 9				
Date sampled:	11 August 2025				
Sample dry Mass(g):					1.01
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	NR	NR
Boron as B	150	15000	60000	0.016	0.792
Barium as Ba	62.5	6250	25000	3.62	179
Cadmium - Cd	7.5	260	1040	0.124	6.14
Cobalt as Co	50.0	5000	20000	0.253	12.5
Chromium as Cr	46000	800000	-	2.63	130
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	-	0.001
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	13.3	658
Molybdenum as Mo	40.0	1000	4000	0.028	1.39
Nickel as Ni	91.0	10600	42400	0.346	17.1
Lead as Pb	20.0	1900	7600	0.194	9.6
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	0.003	0.149
Vanadium as V	150	2680	10720	1.71	84.7
Zinc as Zn	240	160000	640000	2.83	140
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-		NR
Solid %	-	-	-		NR

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Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 9				
Date sampled:	11 August 2025				
Sample dry Mass(g):					1.01
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	560	27723
Calcium as Ca	-	-	-	300	14851
Magnesium as Mg	-	-	-	299	14802
Sodium as Na	-	-	-	19.3	955
Potassium	-	-	-	253	12525
Iron as Fe	-	-	-	697	34505
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	ND	ND
Uranium (U)	-	-	-	ND	ND
Thorium (Th)	-	-	-	0.4504	22

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Revision: 0

Locality name:					Comp 9		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.112	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	0.01	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	0.002	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.002	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	ND	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	ND	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.025	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	7.43	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	7.45	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	2.14	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 9		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	19.6	NR	NR
pH @ 25°C	-	-	-	-	9.47	NR	NR
Total Alkalinity	-	-	-	-	67.5	NR	NR
Aluminium (Al)	-	-	-	-	2.38	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	0.007	NR	NR
Calcium (Ca)	-	-	-	-	3.21	NR	NR
Magnesium (Mg)	-	-	-	-	1.61	NR	NR
Sodium (Na)	-	-	-	-	11.6	NR	NR
DI Potassium (K)	-	-	-	-	24.6	NR	NR
Iron (Fe)	-	-	-	-	0.915	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	ND	NR	NR
Bicarbonate alkalinity	-	-	-	-	51.7	NR	NR
Carbonate alkalinity	-	-	-	-	14.3	NR	NR
92 Thorium (Th)	-	-	-	-	0.001	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.058	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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Locality name:		Comp 10			
Date sampled:		11 August 2025			
Sample dry Mass(g):		0.990			
Sample Volume (mL):		50.0			
Guideline Limits:		Total Concentrations			
Units:		TCT 0	TCT 1	TCT 2	
		mg/Kg	mg/Kg	mg/Kg	mg/L mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	0.219	11.1
Boron as B	150	15000	60000	0.002	0.101
Barium as Ba	62.5	6250	25000	0.122	6.16
Cadmium - Cd	7.5	260	1040	0.022	1.11
Cobalt as Co	50.0	5000	20000	ND	ND
Chromium as Cr	46000	800000	-	2.59	131
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	ND	ND
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	2.69	136
Molybdenum as Mo	40.0	1000	4000	0.048	2.42
Nickel as Ni	91.0	10600	42400	ND	ND
Lead as Pb	20.0	1900	7600	0.175	8.84
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	ND	ND
Vanadium as V	150	2680	10720	0.073	3.69
Zinc as Zn	240	160000	640000	0.233	11.8
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

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Locality name:	Comp 10				
Date sampled:	11 August 2025				
Sample dry Mass(g):					0.990
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	80.6	4071
Calcium as Ca	-	-	-	63.1	3187
Magnesium as Mg	-	-	-	24.3	1227
Sodium as Na	-	-	-	15.3	773
Potassium	-	-	-	31.1	1571
Iron as Fe	-	-	-	141	7121
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	0.009	0.455
Uranium (U)	-	-	-	ND	ND
Thorium (Th)	-	-	-	3	152

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Locality name:					Comp 10		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.038	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	ND	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	ND	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.004	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	ND	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	ND	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.009	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	8.41	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	0.498	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	0.762	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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Locality name:					Comp 10		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	13.4	NR	NR
pH @ 25°C	-	-	-	-	9.69	NR	NR
Total Alkalinity	-	-	-	-	48.3	NR	NR
Aluminium (Al)	-	-	-	-	0.462	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	ND	NR	NR
Calcium (Ca)	-	-	-	-	2.51	NR	NR
Magnesium (Mg)	-	-	-	-	0.492	NR	NR
Sodium (Na)	-	-	-	-	12.3	NR	NR
DI Potassium (K)	-	-	-	-	15.9	NR	NR
Iron (Fe)	-	-	-	-	0.003	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	ND	NR	NR
Bicarbonate alkalinity	-	-	-	-	31.4	NR	NR
Carbonate alkalinity	-	-	-	-	14.5	NR	NR
92 Thorium (Th)	-	-	-	-	0.001	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.652	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 11				
Date sampled:	11 August 2025				
Sample dry Mass(g):					1.00
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	0.678	33.9
Boron as B	150	15000	60000	0.020	1.0
Barium as Ba	62.5	6250	25000	3.29	165
Cadmium - Cd	7.5	260	1040	0.087	4.35
Cobalt as Co	50.0	5000	20000	0.204	10.2
Chromium as Cr	46000	800000	-	2.94	147
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	-	0.001
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	8.45	423
Molybdenum as Mo	40.0	1000	4000	0.070	3.5
Nickel as Ni	91.0	10600	42400	0.153	7.65
Lead as Pb	20.0	1900	7600	0.264	13.2
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	ND	ND
Vanadium as V	150	2680	10720	1.48	74.0
Zinc as Zn	240	160000	640000	1.57	78.5
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

O = Outsourced S = Sub-contracted NR = Not requested RTF = Results to follow NATD = Not able to determine ATR = Alternative test report
 N/A = Not Applicable ND = Not Detected
 Method: Microwave Assisted Digestion
 Values represent actual values imported from the instrument

Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 11				
Date sampled:	11 August 2025				
Sample dry Mass(g):					1.00
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	577	28850
Calcium as Ca	-	-	-	266	13300
Magnesium as Mg	-	-	-	248	12400
Sodium as Na	-	-	-	21.1	1055
Potassium	-	-	-	222	11100
Iron as Fe	-	-	-	488	24400
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	ND	ND
Uranium (U)	-	-	-	ND	ND
Thorium (Th)	-	-	-	1	50

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Test Report

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Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 11		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.123	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	0.002	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	ND	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.002	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	ND	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	ND	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.043	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	4.03	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	0.258	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	0.822	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 11		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	15.6	NR	NR
pH @ 25°C	-	-	-	-	9.91	NR	NR
Total Alkalinity	-	-	-	-	65.6	NR	NR
Aluminium (Al)	-	-	-	-	1.1	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	0.055	NR	NR
Calcium (Ca)	-	-	-	-	1.39	NR	NR
Magnesium (Mg)	-	-	-	-	0.499	NR	NR
Sodium (Na)	-	-	-	-	10.5	NR	NR
DI Potassium (K)	-	-	-	-	28.5	NR	NR
Iron (Fe)	-	-	-	-	0.135	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	ND	NR	NR
Bicarbonate alkalinity	-	-	-	-	34.9	NR	NR
Carbonate alkalinity	-	-	-	-	26.7	NR	NR
92 Thorium (Th)	-	-	-	-	0.001	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.033	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:		Comp 12			
Date sampled:		11 August 2025			
Sample dry Mass(g):		1.04			
Sample Volume (mL):		50.0			
Guideline Limits:					
Units:					
		Total Concentrations			
		TCT 0	TCT 1	TCT 2	
		mg/Kg	mg/Kg	mg/Kg	
		Metal Ions			
Arsenic as As	5.8	500	2000	1.95	93.8
Boron as B	150	15000	60000	ND	ND
Barium as Ba	62.5	6250	25000	1.60	76.9
Cadmium - Cd	7.5	260	1040	0.119	5.72
Cobalt as Co	50.0	5000	20000	0.263	12.6
Chromium as Cr	46000	800000	-	3.93	189
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	-	0.001
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	22.1	1063
Molybdenum as Mo	40.0	1000	4000	0.057	2.74
Nickel as Ni	91.0	10600	42400	0.300	14.4
Lead as Pb	20.0	1900	7600	0.380	18.3
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	0.003	0.144
Vanadium as V	150	2680	10720	1.18	56.7
Zinc as Zn	240	160000	640000	2.32	112
		Inorganic Anions			
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
		Percentage Solids			
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 12				
Date sampled:	11 August 2025				
Sample dry Mass(g):					1.04
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	445	21394
Calcium as Ca	-	-	-	522	25096
Magnesium as Mg	-	-	-	263	12644
Sodium as Na	-	-	-	15.3	736
Potassium	-	-	-	81.1	3899
Iron as Fe	-	-	-	626	30096
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	0.015	0.721
Uranium (U)	-	-	-	ND	ND
Thorium (Th)	-	-	-	0.4074	20

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Test Report

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Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 12		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.083	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	ND	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	ND	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.002	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	ND	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	0.002	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.004	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	7.91	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	5.9	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	1.13	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 12		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	16.7	NR	NR
pH @ 25°C	-	-	-	-	9.2	NR	NR
Total Alkalinity	-	-	-	-	74.9	NR	NR
Aluminium (Al)	-	-	-	-	0.208	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	ND	NR	NR
Calcium (Ca)	-	-	-	-	6.05	NR	NR
Magnesium (Mg)	-	-	-	-	3.05	NR	NR
Sodium (Na)	-	-	-	-	5.2	NR	NR
DI Potassium (K)	-	-	-	-	12.5	NR	NR
Iron (Fe)	-	-	-	-	ND	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	ND	NR	NR
Bicarbonate alkalinity	-	-	-	-	64.5	NR	NR
Carbonate alkalinity	-	-	-	-	9.61	NR	NR
92 Thorium (Th)	-	-	-	-	ND	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.037	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:		Comp 13			
Date sampled:		11 August 2025			
Sample dry Mass(g):		1.01			
Sample Volume (mL):		50.0			
Guideline Limits:					
Units:					
		Total Concentrations			
		TCT 0	TCT 1	TCT 2	
		mg/Kg	mg/Kg	mg/Kg	
					mg/L
					mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	4.30	213
Boron as B	150	15000	60000	ND	ND
Barium as Ba	62.5	6250	25000	0.779	38.6
Cadmium - Cd	7.5	260	1040	0.050	2.48
Cobalt as Co	50.0	5000	20000	0.056	2.77
Chromium as Cr	46000	800000	-	3.67	182
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	-	0.001
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	4.96	246
Molybdenum as Mo	40.0	1000	4000	0.074	3.66
Nickel as Ni	91.0	10600	42400	ND	ND
Lead as Pb	20.0	1900	7600	0.194	9.6
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	0.009	0.446
Vanadium as V	150	2680	10720	0.545	27.0
Zinc as Zn	240	160000	640000	0.527	26.1
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

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Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 13				
Date sampled:	11 August 2025				
Sample dry Mass(g):					1.01
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	167	8267
Calcium as Ca	-	-	-	70.2	3475
Magnesium as Mg	-	-	-	75.3	3728
Sodium as Na	-	-	-	16.0	792
Potassium	-	-	-	76.7	3797
Iron as Fe	-	-	-	279	13812
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	ND	ND
Uranium (U)	-	-	-	ND	ND
Thorium (Th)	-	-	-	0.4003	20

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Date of certificate: 28 August 2025
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Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 13		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.09	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	0.003	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	ND	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.003	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	0.003	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	0.006	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.003	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	7.14	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	48.3	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	0.806	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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Project: ECC-143-605 Kokoseb Gold Mine Geochem

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Revision: 0

Locality name:					Comp 13		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	21.6	NR	NR
pH @ 25°C	-	-	-	-	9.03	NR	NR
Total Alkalinity	-	-	-	-	40.6	NR	NR
Aluminium (Al)	-	-	-	-	0.189	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	ND	NR	NR
Calcium (Ca)	-	-	-	-	9.88	NR	NR
Magnesium (Mg)	-	-	-	-	2.79	NR	NR
Sodium (Na)	-	-	-	-	5.9	NR	NR
DI Potassium (K)	-	-	-	-	15.1	NR	NR
Iron (Fe)	-	-	-	-	ND	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	ND	NR	NR
Bicarbonate alkalinity	-	-	-	-	36.4	NR	NR
Carbonate alkalinity	-	-	-	-	3.67	NR	NR
92 Thorium (Th)	-	-	-	-	ND	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.151	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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 N/A = Not Applicable ND = Not Detected
 Method: Australian Standard Leaching Procedure (ASLP)
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Test Report

Client: Environmental Compliance Consultancy (ECC)
Address: 1 Jan Jonker Avenue, Klein Windhoek, Windhoek, Namibia, 9000
Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:		Comp 14			
Date sampled:		11 August 2025			
Sample dry Mass(g):		1.02			
Sample Volume (mL):		50.0			
Guideline Limits:					
Units:					
		Total Concentrations			
		TCT 0	TCT 1	TCT 2	
		mg/Kg	mg/Kg	mg/Kg	
					mg/L
					mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	1.64	80.4
Boron as B	150	15000	60000	0.030	1.47
Barium as Ba	62.5	6250	25000	3.98	195
Cadmium - Cd	7.5	260	1040	0.108	5.29
Cobalt as Co	50.0	5000	20000	0.249	12.2
Chromium as Cr	46000	800000	-	2.50	123
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	-	0.001
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	9.38	460
Molybdenum as Mo	40.0	1000	4000	0.004	0.196
Nickel as Ni	91.0	10600	42400	0.342	16.8
Lead as Pb	20.0	1900	7600	0.043	2.11
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	0.003	0.147
Vanadium as V	150	2680	10720	1.80	88.2
Zinc as Zn	240	160000	640000	1.84	90.2
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

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Project: ECC-143-605 Kokoseb Gold Mine Geochem

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Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:	Comp 14				
Date sampled:	11 August 2025				
Sample dry Mass(g):					1.02
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	554	27157
Calcium as Ca	-	-	-	101	4951
Magnesium as Mg	-	-	-	286	14020
Sodium as Na	-	-	-	28.8	1412
Potassium	-	-	-	278	13627
Iron as Fe	-	-	-	625	30637
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	ND	ND
Uranium (U)	-	-	-	ND	ND
Thorium (Th)	-	-	-	0.2919	14

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Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
Date accepted: 12 August 2025
Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 14		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	0.283	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	0.002	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	ND	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.001	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	ND	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	ND	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.031	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	3.49	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	2.26	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	1.66	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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Report no: 231248
Project: ECC-143-605 Kokoseb Gold Mine Geochem

Date of certificate: 28 August 2025
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Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 14		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	17.9	NR	NR
pH @ 25°C	-	-	-	-	9.67	NR	NR
Total Alkalinity	-	-	-	-	69.7	NR	NR
Aluminium (Al)	-	-	-	-	1.16	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	0.04	NR	NR
Calcium (Ca)	-	-	-	-	0.925	NR	NR
Magnesium (Mg)	-	-	-	-	0.676	NR	NR
Sodium (Na)	-	-	-	-	20.2	NR	NR
DI Potassium (K)	-	-	-	-	22.1	NR	NR
Iron (Fe)	-	-	-	-	0.15	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	ND	NR	NR
Bicarbonate alkalinity	-	-	-	-	46.8	NR	NR
Carbonate alkalinity	-	-	-	-	20.6	NR	NR
92 Thorium (Th)	-	-	-	-	0.001	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.224	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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Date of certificate: 28 August 2025
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Date completed: 27 August 2025
Revision: 0

Locality name:		Comp 15			
Date sampled:		11 August 2025			
Sample dry Mass(g):		0.990			
Sample Volume (mL):		50.0			
Guideline Limits:					
Units:					
		Total Concentrations			
		TCT 0	TCT 1	TCT 2	
		mg/Kg	mg/Kg	mg/Kg	
					mg/L
					mg/Kg
Metal Ions					
Arsenic as As	5.8	500	2000	18.3	924
Boron as B	150	15000	60000	ND	ND
Barium as Ba	62.5	6250	25000	2.32	117
Cadmium - Cd	7.5	260	1040	0.111	5.61
Cobalt as Co	50.0	5000	20000	0.262	13.2
Chromium as Cr	46000	800000	-	2.95	149
Hexavalent Chromium in Solid (Cr6+)	7	500	2000	NR	NR
Copper as Cu	16.0	19500	78000	-	0.001
Mercury as Hg	0.93	160	640	ND	ND
Manganese as Mn	1000	25000	100000	7.94	401
Molybdenum as Mo	40.0	1000	4000	0.058	2.93
Nickel as Ni	91.0	10600	42400	0.407	20.6
Lead as Pb	20.0	1900	7600	0.288	14.5
Antimony as Sb	10.0	75.0	300	ND	ND
Selenium as Se	10.0	50.0	200	0.012	0.606
Vanadium as V	150	2680	10720	1.57	79.3
Zinc as Zn	240	160000	640000	1.68	84.8
Inorganic Anions					
Fluoride as F	100	10000	40000	NR	NR
Total Cyanide as CN	14.0	10500	42000	NR	NR
Percentage Solids					
Moisture %	-	-	-	NR	
Solid %	-	-	-	NR	

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Locality name:	Comp 15				
Date sampled:	11 August 2025				
Sample dry Mass(g):					0.990
Sample Volume (mL):	Total Concentrations				50.0
Guideline Limits:	TCT 0	TCT 1	TCT 2		
Units:	mg/Kg	mg/Kg	mg/Kg	mg/L	mg/Kg
Variables					
Aluminium (Al)	-	-	-	335	16919
Calcium as Ca	-	-	-	138	6970
Magnesium as Mg	-	-	-	213	10758
Sodium as Na	-	-	-	19.1	965
Potassium	-	-	-	179	9040
Iron as Fe	-	-	-	603	30455
Silver as Ag	-	-	-	ND	ND
Beryllium as Be	-	-	-	ND	ND
Uranium (U)	-	-	-	ND	ND
Thorium (Th)	-	-	-	0.4456	23

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Revision: 0

Locality name:					Comp 15		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Metal Ions							
Arsenic as As	0.01	0.5	1.0	4.0	1.09	NR	NR
Boron as B	0.5	25.0	50.0	200	ND	NR	NR
Barium as Ba	0.7	35.0	70.0	280	0.036	NR	NR
Cadmium - Cd	0.003	0.15	0.3	1.2	ND	NR	NR
Cobalt as Co	0.5	25.0	50.0	200	ND	NR	NR
Chromium as Cr	0.1	5.0	10.0	40.0	ND	NR	NR
Hexavalent chromium (Cr ⁶⁺)	0.05	2.5	5.0	20.0	NR	NR	NR
Copper as Cu	2.0	100	200	800	ND	NR	NR
Mercury as Hg	0.006	0.3	0.6	2.4	ND	NR	NR
Manganese as Mn	0.5	25.0	50.0	200	0.042	NR	NR
Molybdenum as Mo	0.07	3.5	7.0	28.0	0.002	NR	NR
Nickel as Ni	0.07	3.5	7.0	28.0	ND	NR	NR
Lead as Pb	0.01	0.5	1.0	4.0	0.003	NR	NR
Antimony as Sb	0.02	1.0	2.0	8.0	ND	NR	NR
Selenium as Se	0.01	0.5	1.0	4.0	0.002	NR	NR
Vanadium as V	0.2	10.0	20.0	80.0	0.048	NR	NR
Zinc as Zn	5.0	250	500	2000	ND	NR	NR
Inorganic Anions							
Total Dissolved solids @ 180°C	1000	12500	25000	100000	NR	NR	NR
Chloride as Cl	300	15000	30000	120000	11.0	NR	NR
Sulphate (SO ₄)	250	12500	25000	100000	2.41	NR	NR
Nitrate (NO ₃) as N	11.0	550	1100	4400	NR	NR	NR
Fluoride as F	1.5	75.0	150	600	2.06	NR	NR
Total Cyanide as CN	0.07	3.5	7.0	28.0	NR	NR	NR
Physical characteristics							
Paste pH (1:2)	-	-	-	-	NR		
Redox	-	-	-	-	NR		

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Date completed: 27 August 2025
Revision: 0

Locality name:					Comp 15		
Date sampled:					11 August 2025		
					Distilled Water	Borax	TCLP
Sample dry Mass(g):	Leachable Concentrations				NR	NR	NR
Sample Volume (mL):	LCT 0	LCT 1	LCT 2	LCT 3	NR	NR	NR
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Variables							
DI EC @ 25°C	-	-	-	-	18.7	NR	NR
pH @ 25°C	-	-	-	-	9.59	NR	NR
Total Alkalinity	-	-	-	-	104	NR	NR
Aluminium (Al)	-	-	-	-	5.72	NR	NR
DI Orthophosphate (PO ₄) as P	-	-	-	-	0.044	NR	NR
Calcium (Ca)	-	-	-	-	3.85	NR	NR
Magnesium (Mg)	-	-	-	-	2.49	NR	NR
Sodium (Na)	-	-	-	-	16.6	NR	NR
DI Potassium (K)	-	-	-	-	28.4	NR	NR
Iron (Fe)	-	-	-	-	3.1	NR	NR
Silver (Ag)	-	-	-	-	ND	NR	NR
Beryllium (Be)	-	-	-	-	ND	NR	NR
Dissolved Uranium (U)	-	-	-	-	ND	NR	NR
Bicarbonate alkalinity	-	-	-	-	74.7	NR	NR
Carbonate alkalinity	-	-	-	-	27.3	NR	NR
92 Thorium (Th)	-	-	-	-	0.001	NR	NR
Acidity pH 8.3	-	-	-	-	ND	NR	NR
Phosphorus (P)	-	-	-	-	0.059	NR	NR
TP-Microwave digestion	-	-	-	-	Yes	NR	NR
Reagent water Leach 1:5	-	-	-	-	Yes	NR	NR

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No unauthorised copies may be made of this report

UIS Analytical Services Analytical Chemistry Laboratories 2, 4 Tel: (012) 665 4294



Certificate of analysis: 3195

[illegible]

		Chemical elements:	F
		Instrument:	Fluoride Ion Selective Electrode
		Method:	UIS-EA-T106 Determination of Fluoride by Hydroxide Peroxide Fusion & Ion- selective-Electrode (001)
Date:	27/8/2025	Date:	27/8/2025
Analysed by:	V Mammburu & KG Motsumi	Authorised :	JJ Oberholzer
			Page 1 of 1

RGs



MINE WASTE AND
WATER MANAGEMENT