NISTRY OF MINES AND MINERAL RESOURCES

NATIONAL MINERALS AGENCY (NMA)

MINES AND MINERALS DEVELOPMENT ACT, 2023 Transforming the Minerals Sector for a Better Sierra Leone

MINERALOGICAL LAB - PRECIOUS MINERALS TRADING DEPARTMENT (PMT/D)

Date: Tuesday 3rd December 2024

SAMPLE DESCRIPTION:

ALLUVIAL GOLD DORE BARS

SUBMITTED BY: LICENSE CODE:

MICHAEL WILLIAM – EARTH ELEMENTS

GEL 9/2024

ANALYSIS REQUIRED:

ASSAY & PURITY TEST

METHOD OF EVALUATION:

Inductively Coupled Plasma-Optical Emission Spectrometry

(Reference: EPA METHOD 6010C)

AVERAGE PURITY TEST RESULT:

Valuation Category	Parcels	Specific Gravity	Grade (%)	Pure Weight (Grams)	Price Weight (Troy Ounce)	Karat	
Bar's Sample (AU-5532/PMT)	150.00	18.75	96.89000	150,391.04	5,305	23:291	
Bar's Sample (AU-5532/PMT)	150.00	18.88	97.09211	150,244.69	5,300	23:403	
Dust Sample (N/A)	N/A	-	-	-	-	8- -	

TOTAL RESULT:

Weight: 300.635 Kilograms Grams: 300,635.73 grams Ounce: 10,605 oz S.G: 18:815

Grade: (A) **Karat: 23:347** Purity: 96.991055% **Description:** Unrefined

Note: The information in the above table is based on the analysis of the average purity test. The calculations are made according to the Government Gold and Diamond valuer preference system.

Summary (X-Ray Fluorescence Machine) - XFR:

Bar's No	Weight (kg)	Weight (g)	Ounce (oz)	Specify Gravity (s.g)	Grade	Karat- age	Gold – AU (%)	Silver - AG (%)	Tin - SN (%)	Copper - CU (%)	Description
150	300	300,635	10,605	18:81	(A)	23:27	96.62	1.055	2.641	0.316	Unrefined



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Quick Summary:

The test was conducted using an X-RAY Fluorescence (XRF) machine, and the results show that both gold bars have high purity, with Gold (Au) content exceeding 96%.

The presence of Silver (Ag), Tin (Sn), and Copper (Cu) in the gold bars is minimal, indicating the high – quality and purity of the gold.

These gold bars are of excellent quality and meet with the standard provided by Mineralogical Lab requirements for high-grade gold.

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