AURUMINTEGRITY CORE

Institutional Precious Metals & ESG Diligence Methodology Memorandum

REF: UKN-AUM-CORE-2026-V1 · NORCROSS, GA 30092

EXECUTIVE SUMMARY & OPERATIONAL MANDATE

AurumIntegrity Core operates as an independent technical evaluation, geological auditing, and cryptographic registry recording facility for precious metals (Gold, Silver, Platinum Group) and critical transition minerals. UnyKorn LLC never buys, sells, brokers, trades, or prices physical metals, and maintains strict structural independence from sell-side mining promoters and commercial traders to eliminate underwriting conflicts of interest.

THE 5 INSTITUTIONAL DILIGENCE PILLARS

01 Geological & NI 43-101 / SEC S-K 1300 Evaluation
Independent QP credential audit, fire assay vs ICP-MS validation, QA/QC CRM insertion rates (>=5%), drill-hole spacing verification, and multi-year resource cree

02 SEC Disclosures & PPM Normalization
Standardization of All-In Sustaining Costs (AISC), CAPEX/OPEX capital allocation, greenwashing detection, and forward-looking statement compliance under SEC

03 IoT Production Telemetry & Dynamic Borrowing Base
Real-time mine-gate smart scales, processing plant slurry flow meters, RFID bullion tracking, and automated borrowing-base advance rate adjustment.

04 ESG, Indigenous Rights & FPIC Verification
GIS native title overlay, Free Prior and Informed Consent (FPIC) documentation audit, Global Industry Standard on Tailings Management (GISTM) dam safety, and

05 Lloyd's Specie All-Risk & Tri-Party Vault Custody
LBMA/LPPM accredited vaults (Brink's, Loomis, Malca-Amit), UCC Article 9 perfection, Tri-Party DACA depository control, and Lloyd's syndicate specie & busines

WORKED INSTITUTIONAL CASE BENCHMARK: PRODUCING GOLD MINE

Monthly Mine Production	10,000 oz doré (~85% Au purity = 8,500 fine oz Au)
Observable Spot Benchmark	$2,700.00 / oz (Secondary spot clearing)
Gross Monthly In-Situ Value	$22,950,000.00 USD
Smelter TC/RC & Refining Deduction	3.50% ($803,250.00 USD) deducted first
Net Eligible Vaulted Collateral	$22,146,750.00 USD (LBMA Good Delivery Bar check-in)
Max Institutional Advance Rate	75.0% (Vaulted doré / bars under Tri-Party DACA)
Maximum Borrowing Base Facility	$16,610,062.50 USD
Secured Creditor Standing	Senior Secured First-Priority Lien · UCC-1 Filed · Sole Loss Payee

AURUMINTEGRITY CORE · GEOLOGICAL & JURISDICTIONAL MATRIX

1. JURISDICTIONAL REPORTING STANDARDS COMPARISON

Standard	Jurisdiction	Economic Filter on Inferred Resources	QP Liability Requirements
SEC S-K 1300	United States	STRICTLY PROHIBITED. Cannot be used in economic cash flow models.	US Federal Securities liability; requires certified Technical Report Summary.
NI 43-101	Canada	Permitted ONLY in Preliminary Economic Assessments (PEA) with strict caveats.	Registered Geo or P.Eng; mandatory independent QP certificate & consent.
JORC Code	Australia	Cannot be converted to Mineral Reserves; PEA disclosures restricted.	Competent Person with >=5 yrs relevant deposit experience in AusIMM or AIG.
CRIRSCO	Global	Universal baseline template defining boundary between resources and reserves.	Recognized Professional Organization (RPO) reciprocity required.

2. TECHNICAL ASSAY & QA/QC VERIFICATION PROTOCOL

- Fire Assay with Gravimetric Finish: Industry benchmark for gold >= 1.0 g/t. Rejects unverified portable XRF readings for reserve classification.
- Certified Reference Materials (CRMs): Standard samples inserted blindly into sample stream to monitor analytical accuracy.
- Insertion Rate Threshold: Minimum 5% certified standards, 5% blank samples, and 5% field duplicates across every drill core sample batch.
- Umpire Lab Testing: Minimum 10% pulp duplicates routed to a secondary ISO 17025 accredited laboratory (ALS Global, Bureau Veritas, SGS).

3. ESG, INDIGENOUS FPIC & GISTM TAILINGS COMPLIANCE GATES

- Free, Prior, and Informed Consent (FPIC): Required under ILO Convention 169. Documented consultation protocol with traditional landowners.
- Global Industry Standard on Tailings Management (GISTM): Mandatory independent tailings review board (ITRB) for Extreme & Very High TSFs.
- Conflict Minerals Protocol: Ingot supply chain traced to OECD Step 5 compliant refiners (EICC-GeSI Conflict-Free Smelter Program).
- Water Stress Index: Zero unpermitted tailings seepage; baseline monitoring of acid rock drainage (ARD) potential.