



Goldfields.com

**Technical Report Summary of
Mineral reserves and Mineral resources 31 December 2023
For
Gold Fields Limited – Cerro Corona Copper and Gold Mine – Peru**

The report is dated 28 March 2024

1	Executive Summary	8
1.1	Property description and ownership	8
1.2	Geology and mineralisation	9
1.3	Exploration, development and operations	9
1.4	Mineral resource estimates.....	9
1.5	Mineral reserve estimates.....	10
1.6	Capital and operating cost estimates	10
1.7	Permitting.....	11
1.8	Conclusions and recommendations.....	12
2	Introduction.....	13
2.1	Registrant for whom the Technical Report Summary was prepared.....	13
2.2	Terms of reference and purpose of the Technical Report Summary	13
2.3	Sources of Information.....	13
2.4	Qualified persons and details of inspection.....	13
2.5	Report version update	14
3	Property description.....	15
3.1	Property location.....	15
3.2	Ownership.....	15
3.3	Property area.....	15
3.4	Property mineral titles, claims, mineral rights, leases and options.....	15
3.5	Mineral rights description	21
3.6	Encumbrances.....	21
3.7	Other significant factors and risks.....	21
3.8	Royalties or similar interest.....	21
4	Accessibility, climate, local resources, infrastructure and physiography.....	22
4.1	Topography, elevation and vegetation	22
4.2	Access	22
4.3	Climate.....	22
4.4	Infrastructure.....	22
4.5	Book Value	24
5	History.....	25
6	Geological setting, mineralisation and deposit.....	26
6.1	Geological setting	26
6.2	Local Geology.....	27

6.2	Local Geology.....	27
6.3	Mineralisation.....	29
7	Exploration.....	32
7.1	Exploration at Cerro Corona.....	32
7.2	Drilling.....	32
7.2.1	Type and extent.....	32
7.2.2	Procedures.....	34
7.2.3	Results.....	35
7.3	Hydrogeology.....	35
7.4	Geotechnical.....	38
7.5	Density.....	38
8	Sample preparation, analyses and security.....	40
8.1	Sample preparation.....	40
8.2	Sample analysis.....	42



8.3	Quality control and quality assurance (QA/QC).....	43
9	Data verification.....	45
9.1	Drilling and sampling.....	45
9.2	Data management.....	45
10	Mineral processing and metallurgical testing.....	47
10.1	Testing and procedures.....	47
10.1.1	Background.....	47
10.1.2	Original feasibility studies.....	47
10.1.3	Production control sampling.....	47

10.2	Plant sampling and reconciliation	48
10.3	Relevant results	48
10.3.1	Sample head analyses and mineralogy	48
10.3.2	Metallurgical recoveries	49
10.3.3	Ore hardness / mill throughput	52
10.4	Plant Results	53
10.5	Deleterious elements	54
10.6	Metallurgical risks	54
11	Mineral resource estimates	55
11.1	Mineral resource estimation criteria. Mineral resources are in-situ diluted	55
11.1.1	Geological database	55
11.1.2	Core recovery	55
11.1.3	Domain classification	55
11.1.4	Geological modelling	55
11.1.5	Assay compositing	55
11.1.6	Evaluation of outliers	56
11.1.7	Variography	56
11.1.8	Selective mining units	56
11.1.9	Grade estimation	56
11.1.10	Model validation	57
11.1.11	Cutoff grades	58
11.1.12	Reasonable prospects of economic extraction	58
11.1.13	Classification criteria	59
11.2	Mineral resources as of 31 December 2023	60
11.3	Basis for establishing the prospects of economic extraction for Mineral resources	60
11.4	Audits and reviews	60
11.5	Comparison with 31 December 2022 to 31 December 2023 Mineral resource	60
	Attributable Mineral Resource exclusive of Mineral Reserves year on year change	61
12	Mineral reserve estimates	62
12.1	Level of assessment	62
12.2	Mineral reserve estimation criteria	63
12.2.1	Recent mine performance	63
12.2.2	Key assumptions and parameters	64
12.2.3	Cutoff grades	65
12.2.4	Mine design	65
12.2.5	Mining schedule	65

12.2.6	Classification criteria	66
12.2.7	Economic assessment.....	66
12.3	Mineral reserves as of 31 December 2023	67
12.4	Audits and reviews.....	68
12.5	Comparison 31 December 2022 with 31 December 2023 Mineral reserve.....	68
13	Mining Methods.....	70



13.1	Methods	70
13.2	Mine design and planning factors	70
13.3	Site layout.....	70
13.4	Equipment and labour requirements.....	71
13.5	Final mine layout	72
14	Processing and recovery methods.....	73
14.1	Flow sheet and design	73
14.1.1	Flow sheet description.....	73
14.1.2	Plant upgrades and development.....	74
14.2	Process plant requirements.....	74
14.3	Processing risks.....	75
14.3.1	Major equipment failure.....	75
14.3.2	Plant operational management	75
14.3.3	Operating costs, plant consumables and reagents.....	76
14.3.4	Processing long term stockpiles	76
15	Infrastructure.....	77
15.1	Tailings storage facility (TSF).....	77

15.1	Tailings storage facility (TSF).....	77
15.1.1	Background.....	77
15.2	Waste rock storage facility (WSF).....	80
15.3	Water.....	80
15.4	Power LOM.....	81
15.5	Accommodation.....	81
15.6	Other infrastructure.....	81
16	Market studies.....	82
16.1	Preliminary market study.....	82
16.2	Metal price history.....	83
16.3	Market strategy.....	83
16.4	Pricing.....	84
16.4.1	Prices.....	84
16.4.2	Payables.....	84
16.4.3	Deductions.....	84
16.5	Product specifications.....	84
16.6	Distribution, storage and shipping.....	85
17	Environmental studies, permitting and plans, negotiations, or agreements with local individuals or groups	86
17.1	Permitting.....	86
17.2	Environmental studies.....	88
17.3	Waste disposal, monitoring and water management.....	89
17.3.1	Tailings storage facilities (TSF).....	89
17.3.2	Waste rock dumps.....	92
17.3.3	Water management.....	92
17.4	Social and community.....	93
17.5	Mine closure.....	93
18	Capital and operating costs	95
18.1	Capital costs.....	95
18.2	Operating costs.....	95
18.3	Closure cost.....	96
19	Economic analysis.....	98
19.1	Key inputs and assumptions.....	98
19.2	Economic analysis.....	100
19.3	Sensitivity analysis.....	100

20	Adjacent properties	102
21	Other relevant data and information	103
22	Interpretation and conclusions	105
22.1	Conclusions	105
22.2	Risks	105
23	Recommendations	107
24	References	108
25	Reliance on information provided by the Registrant	109
26	Definitions	110
26.1	Adequate geological evidence	110
26.2	Conclusive geological evidence	110
26.3	Cutoff grade	110
26.4	Development stage issuer	110
26.5	Development stage property	110
26.6	Economically viable	110
26.7	Exploration results	110
26.8	Exploration stage issuer	110
26.9	Exploration stage property	110
26.10	Exploration target	110
26.11	Feasibility study	111
26.12	Final market study	111
26.13	Indicated Mineral resource	111
26.14	Inferred Mineral resource	111
26.15	Initial assessment	111
26.16	Investment and market assumptions	112
26.17	Limited geological evidence	112
26.18	Material	112
26.19	Material of economic interest	112

26.20	Measured Mineral resource.....	112
26.21	Mineral reserve	112
26.22	Mineral resource	112
26.23	Modifying factors.....	113
26.24	Preliminary feasibility study (or pre-feasibility study).....	113
26.25	Preliminary market study	113
26.26	Probable Mineral reserve	113
26.27	Production stage issuer.....	113
26.28	Production stage property	113
26.29	Proven Mineral reserve	113
26.30	Qualified person.....	114
26.31	Relevant experience	114
27	Signature Page	116



List of Tables

Table 1.5.1: Cerro Corona – summary of attributable gold and copper Mineral reserves at the end of the fiscal year ended 31 December 2023.....	10
Table 1.6.1: Capital costs forecast	11
Table 1.6.2: Operating costs forecast.....	11
Table 2.4.1: List of Qualified persons.....	14
Table 3.4.1: List of Cerro Corona mineral rights	16
Table 3.4.2: List of Cerro Corona surface rights.....	20
Table 7.2.1: Historical drilling by type and company	32
Table 7.5.1: Density sample history (wax).....	39
Table 8.2.1: Cerro Corona exploration sample analysis.....	42
Table 8.2.2: Cerro Corona grade control sample analysis.....	42
Table 8.3.1: QA/QC insertion rate for 2021-2022-2023 infill drilling	43
Table 8.3.2: QA/QC failure description for infill drilling 2023	43
Table 10.3.1: Key minerals and principal sulphide assemblages in the different alteration types.....	48
Table 10.3.2: Mine planning recovery estimation models	49
Table 10.3.3: Comparison of the original DFS and current plant configuration	49
Table 10.3.4: Stockpiled materials plant data analysis summary	52
Table 10.3.5: Ore hardness geometallurgical model domains.....	52
Table 10.4.1: Cerro Corona process plant – recent performance	54
Table 11.1.1: Database used for Mineral resource estimate.....	55
Table 11.5.1: Net difference in Attributable Mineral resources (EMR) between 31 December 2022 and 31 December 2023 Gold.....	61
Table 11.5.2: Net difference in Attributable Mineral resource (EMR) between 31 December 2022 and 31 December 2023 Copper.....	61
Table 12.2.1: Cerro Corona – recent production performance	63
Table 12.2.2: Recent production performance of Cerro Corona	63
Table 12.2.3: Key technical modifying factors for mine planning.....	64
Table 12.3.1: Cerro Corona-- summary of attributable gold and copper Mineral reserves at the end of the fiscal year ended 31 December 2023 based on a gold price of \$1,400/oz and copper price of \$3.40/lb.....	67
Table 12.5.1: Net difference in attributable Mineral reserves between 31 December 2022 and 31 December 2023 Gold	68
Table 12.5.2: Net difference in attributable Mineral reserves between 31 December 2022 and 31 December 2023 Copper.....	69
Table 14.2.1: Process plant – key requirements summary	74
Table 15.1.1: LOM TSF assessment.....	80

Table 16.1.1: Reserve and Resource metal prices.....	82
Table 16.5.1: Current contract concentrate specifications.....	84
Table 16.5.2: Average Cerro Corona concentrate arsenic grades.....	85
Table 16.5.3: Gold concentrate grades.....	85
Table 17.1.1: List of Cerro Corona permits	87
Table 18.1.1: Capital costs forecast	95
Table 18.2.1: Operating costs forecast.....	96
Table 18.3.1: Post LOM costs 100 % basis.....	96
Table 19.1.1: LOM physical, operating cost and capital cost inputs and revenue assumptions	99
Table 19.1.2: Gold Fields 99.53 % Attributable Gold, FCF and NPV	99
Table 19.1.3: Breakdown of ESG expenditure included in Table 18.1.1, Table 18.2.1 and Table 19.1.1.....	100
Table 19.3.1: NPV sensitivity to changes in gold price 99.53 % attributable	100
Table 19.3.2: NPV sensitivity to changes in gold grade 99.53 % attributable	101



Table 19.3.3: NPV sensitivity to changes in copper price 99.53 % attributable.....	101
Table 19.3.4: NPV sensitivity to changes in copper grade 99.53 % attributable.....	101
Table 19.3.5: NPV sensitivity to changes in capital costs 99.53 % attributable.....	101
Table 19.3.6: NPV sensitivity to changes in operating costs 99.53 % attributable	101
Table 19.3.7: NPV sensitivity to changes in discount rate 99.53 % attributable.....	101
Table 22.2.1: Cerro Corona risk register – top operational risks.....	106

List of Figures

Figure 1.1.1: Location of Cerro Corona	8
Figure 3.4.1: Cerro Corona mineral titles.....	15
Figure 4.4.1: Cerro Corona operating sites and infrastructure	23
Figure 6.1.1: Cerro Corona regional geology.....	26
Figure 6.2.1: Cerro Corona local geology.....	27
Figure 6.2.2: Schematic stratigraphic column of Cajamarca district.....	28
Figure 6.2.3 : Geological section through the Cerro Corona pit looking north-west.....	29
Figure 6.3.1: Sequence of intrusions by mineralised halo interpretation.....	31
Figure 7.2.1: Cerro Corona drillhole collars	34
Figure 8.1.1: DD and RC sample preparation flow chart.....	40
Figure 8.1.2: BH sample preparation flow chart	41
Figure 10.3.1: Annual trends of mine planning recovery estimation models compared with plant recoveries	50
Figure 10.3.2: Environmental aging barrel tests	51
Figure 10.3.3: Spatial distribution of ore hardness geometallurgical domains.....	53
Figure 13.3.1: Mine site layout	70
Figure 13.5.1: Final mine outline life-of-mine reserve.....	72
Figure 14.1.1: Schematic flow diagram of Cerro Corona process plant.....	73
Figure 14.1.2: Crushing chamber of new primary crusher (MMD Sizer) installed at Cerro Corona in 2022.....	74
Figure 15.1.1: TSF layout	77
Figure 15.1.2: TSF overview looking west.....	78
Figure 15.1.3 Typical TSF embankment cross-section	79



1 Executive Summary

This Technical Report Summary (TRS) was prepared for Gold Fields Limited (Gold Fields or the Company or the Registrant), a production stage issuer. The purpose of this TRS is to support the disclosure of, Mineral resources and Mineral reserves for the Cerro Corona Copper and Gold Mine (Cerro Corona), a production stage property located in Peru, in accordance with the disclosure requirements for mining registrants as specified in Subpart 1300 of Regulation S-K under the Securities Act of 1933 (SK 1300).

The effective date of this TRS is 31 December 2023.

Unless otherwise specified, all units of currency are in United States Dollars (\$). All measurements are metric with the exception of troy ounces (oz) and pounds (lb).

1.1 Property description and ownership

Cerro Corona is approximately 600 km north-northwest of Lima and approximately 80 km north by road from the departmental capital of Cajamarca (Figure 1.1.1).

Figure 1.1.1: Location of Cerro Corona



Source: Cerro Corona CPR, 2023

Cerro Corona comprises mining concessions covering a total area of 4,805 ha and surface rights covering 1,403.02 ha held by Gold Fields La Cima S.A. (GFLC), a Peruvian-registered company. Gold Fields Corona (BVI) Limited holds a 99.53 % interest in GFLC. The additional 0.47% is held by private owners and are minor shareholders.

The major components of the Cerro Corona mining and processing operation are:



- Waste storage facility (WSF).
- 6.5 Mt/a flotation process plant.
- Tailings storage facility (TSF).
- Centralised administrative office and engineering workshops.
- Permanent camp.
- Power substation.

1.2 Geology and mineralisation

The Cerro Corona copper-gold deposit is associated with a Mid-Miocene diorite to quartz-diorite intrusive, primarily emplaced along sub-vertical faults within Mid-Cretaceous limestone units. The deposit is typical of porphyry-style mineralisation, comprising an upper gold-only leached cap, underlain by mixed and supergene enriched copper zones, which overlay the variably altered hypogene portion of the deposit. The hypogene zone mineralisation is characterised by sulphide mineralisation as disseminated nodes, small patches, infill in fractures and within stockwork quartz veins. The mineralisation within the stockwork is mainly pyrite-marcasite-chalcopyrite + bornite + covellite + hematite + magnetite.

1.3 Exploration, development and operations

Contract mining is employed in the open pit applying conventional drill, blast, load and haul methods. Accelerated mining based on nine separate pit stages exceeds the processing rate allowing tailings generated in the future to be placed back in the pit. Ore is stockpiled during the accelerated mining phase.

Further exploration at Cerro Corona will focus on geological and geotechnical characterization, lithological continuity and structural complexity of the East Wall and the final benches in the bottom part of the pit.

1.4 Mineral resource estimates

The Cerro Corona Mineral resources exclusive of Mineral reserves (EMR) as of 31 December 2023 are described in

section 11. The Mineral resources are 99.53 % attributable to Gold Fields and are net of production depletion up to 31 December 2023. All grades and tonnages reported are in-situ diluted.

The Cerro Corona mine has spatial limitations to the placement of tailings. The current tailings storage facility will reach capacity by 2026 and there are no other suitable sites for surface tailings storage available at this time; alternatives continue to be investigated but none currently align with Gold Fields strategic planning objectives. Once the current TSF capacity is reached, mining in the Cerro Corona pit will cease and the mine will transition to processing stockpiles. Tailings from the stockpile treatment will be stored in an in-pit facility that is limited in volume as placement is not planned to occur above the water table. Consequently, low grade ores and Mineral resources within the reserve pit (disclosed in 2022) will be placed as waste and no longer have a reasonable prospect of economic extraction. Similarly, Mineral resources adjacent to the reserve pit (disclosed in 2022) are also no longer considered to have reasonable prospects of economic extraction in line with Gold Fields' strategic objectives and have been removed from Gold Fields 2023 Mineral resource disclosure. Gold Fields continues to review options to realise value from the mineralisation previously considered as Mineral resources but will not disclose Mineral resources exclusive of Mineral reserves until such time as strategically viable options are approved.

EMR within the pit shell as disclosed in 2022 would have been scheduled to be extracted after the commencement of in-pit tailings and thus are no longer considered to have reasonable prospects for economic extraction (RPEE). The extraction of EMR outside of the current pit shell would have been required to commence in 2023 to allow for RPEE, which has not occurred.

There is no EMR declaration for Cerro Corona in 2023 due to limitations of in-pit tailings placement.



1.5 Mineral reserve estimates

The Cerro Corona Mineral reserves as of 31 December 2023 are summarised in Table 1.5.1. The Mineral reserves are 99.53 % attributable to Gold Fields and are net of production depletion up to 31 December 2023. The Mineral reserves are reported in terms of run-of-mine (RoM) grades and tonnages delivered to the processing facility and are therefore fully diluted.

Table 1.5.1: Cerro Corona – summary of attributable gold and copper Mineral reserves at the end of the fiscal year ended 31 December 2023.

	Amount/	Grade	Amount	Grade	Amount	Cutoff grades/	Metallurgical recovery	
	(Kt)	Au/ (g/t)	Au/ (koz)	Cu/ (%)	Cu/ (Mlb)	(\$/t NSR)	Au/ (%)	Cu/ (%)
Open Pit Mineral reserves								
OP proven Mineral reserves	23,801	0.53	406	0.36	189	17.64	75.8	88.7
OP probable Mineral reserves	2,058	0.52	34	0.35	16	17.64	75.9	88.6
OP total Mineral reserves	25,859	0.53	441	0.36	205	17.64	75.8-75.9	88.6-88.7
Stockpile Mineral reserves								
SP proven Mineral reserves	19,584	0.49	308	0.30	130	16.63	76.2	88.5
SP probable Mineral reserves								
SP total Mineral reserves	19,584	0.49	308	0.30	130	16.63	76.2	88.5
Total Mineral reserves								
Total proven Mineral reserves	43,386	0.51	715	0.33	320			
Total probable Mineral reserves	2,058	0.52	34	0.35	16			
Total Cerro Corona Mineral reserves 2023	45,444	0.51	749	0.34	336			

Notes:

- Rounding of figures may result in minor computational discrepancies.
- Refer to Table 12.5.1 for year-on-year Mineral reserve comparison.
- Mineral reserve disclosed as mill delivered metric tonnes and ROM grades, inclusive of all mining dilutions and gold losses except mill recovery. Metallurgical recovery factors have not been applied to the Mineral reserve figures. The metallurgical recovery is the ratio, expressed as a percentage, of the mass of the specific mineral product recovered from ore treated at the process plant to its total specific mineral content before treatment. The recoveries for Cerro Corona vary according to the mix of the source material (e.g., oxide, transitional fresh and ore type blend) and method of treatment.
- The metal prices used for the 2023 life-of-mine (LOM) Mineral reserves are based on a gold price of \$1,400/ounce and copper price of \$3.40/lb. Open pit Mineral reserves at Cerro Corona are based on optimised pits and appropriate mine design and extraction schedules. The gold price and copper price used for Mineral reserves is detailed in Chapter 16 Marketing.
- Dilution relates to planned and unplanned waste and/or low-grade material being mined and delivered to the process plant. Ranges are given for those operations

- that have multiple orebody styles and mining methodologies. The mine dilution factors are 0 %.
- f) The mining recovery factor relates to the proportion or percentage of ore mined from the defined orebody at the gold price used for the declaration of Mineral reserves. This percentage will vary from mining area to mining area and reflects planned and scheduled reserves against actual tonnes, grade and metal mined, with all modifying factors and mining constraints applied. The mining recovery factors are 98 %.
 - g) The cutoff grade may vary per mine, depending on the respective costs, depletion schedule, ore type, expected mining dilution and expected mining recovery. The average NSR cutoff value applied in the planning ranges from \$16.63/t to \$17.64/t processed.
 - h) No mine call factor is applied to Cerro Corona Mineral reserves.
 - i) Cerro Corona is 99.53 % attributable to Gold Fields.

Source: Cerro Corona CPR, 2023

1.6 Capital and operating cost estimates

Major capital expenses at Cerro Corona were related to the ongoing raising of the TSF, construction of containment blankets and the waste storage facility (WSF) which was completed in November 2023; and the in-pit tailings facility. The total capital expenditure requirement over the life-of-mine (LOM) is estimated at \$73 million. 89% of this amount will be spent in 2024 and 2025. From 2026 onwards, only \$7.7 millions are planned. The capital forecast over the LOM is summarised in Table 1.6.1.



Table 1.6.1: Capital costs forecast

Cost item	Units	2024	2025	2026	2027	2028	2029	2030
Capital projects	\$ million	24.6	28.7					
Sustaining	\$ million	6.9	4.8	3.2	1.5	1.9	0.9	0.2

Note:

- a) The detailed capital cost schedule is presented in Table 18.1.1.
- b) This capital summary estimate is for the Mineral reserve LOM schedule and is on a 100 % basis.
- c) Closure costs are included in operating costs.

Operating costs are prepared based on the approved mining plan schedule, which considers mining the pit until 2025 and processing ore at the plant until 2030. From 2026 onwards low-grade stocks will be treated. In general, figures have been prepared based on the 2023 actual costs and the approved budget for 2024, with escalations applied and including pit closure. Mining cost estimates have been built from approved contractor rates as well as actual costs from 2023. LOM operating costs are summarised in Table 1.6.2.

Table 1.6.2: Operating costs forecast

Description	Units	2024	2025	2026	2027	2028	2029	2030
Operating cost	\$ million	223.3	199.2	132.5	126.4	124.6	126.5	133.6

Note:

- a) The detailed operating cost schedule is presented in Table 18.2.1.
- b) This operating cost summary estimate is for the Mineral reserve LOM schedule and is on a 100 % basis.

Source: Cerro Corona CPR, 2023

The closure cost as of December 2023 is estimated at \$168.9 million, and has been prepared in coordination with a specialist, Ausenco.

1.7 Permitting

Cerro Corona's Environmental Impact Assessment (EIA) was approved in December 2005 allowing development activities until the approval of the operation permit ("*Concesión de beneficio*") by the General Mining Bureau (GMB). The construction permit was approved in February 2006 and the Certificate of Mining issued in December 2007. The process plant and ancillary facilities were constructed, inspected and approved by GMB.

Several components of the Cerro Corona construction and operations plans were modified from the plans submitted to the EIA and GMB. Eight modifications to the original EIA and thirteen Supporting Technical Reports (STR) applicable for new components or modifications that do not involve significant environmental impacts were submitted to and approved by the regulators.

The eighth modification to the EIA (MEIA 8) was approved by the authorities during Q4 2019, allowing an increase in the footprint of the open pit, expansion of the TSF to 3,803 masl and expansion of WSF at Arpon and Ana. An in-pit TSF will be included in the ninth modification of the EIA (MEIA 9) for approval before construction commences. Compliance with MEIA 9 and other permits derived from it is required before March 2026 when the first tailings material is expected to be deposited into the open pit and is supported by a comprehensive permit application process to the regulator.

The EIA modification process (MEIA 9) has already commenced, including the implementation of public participation mechanisms in the area of influence before and during EIA preparation (2021 – 2022). In addition, throughout 2021-2022, Gold Fields carried out field work around Cerro Corona to gather environmental and social data for the EIA preparation. Gold Fields was also required to submit an additional public participation plan because of new regulations published in 2022, and the plan was approved in January 2023. However, in June 2023, a new regulation was published with the benefit that Gold Fields was no longer required to hold workshops and public hearings as part of the public participation process during the evaluation of the EIA modification.



MEIA 9 was submitted to the regulator in August 2023. The regulator assesses compliance with the Peruvian Terms of Reference for EIA. In November 2023, after responding to the observations made by the regulator, MEIA 9 successfully passed the admissibility phase and it is now in the detailed evaluation phase. As part of this process, the regulator also approved the public participation plan to be implemented during the evaluation of MEIA 9 and the executive summary. After the conclusion of the admissibility phase, Gold Fields began the implementation of public participation mechanisms in the area of influence, which will continue to be implemented in or around Q1 2024.

1.8 Conclusions and recommendations

The Mineral reserve currently supports a 7-year LOM plan and values the Cerro Corona operation at \$96 million attributable NPV, at a gold price of \$1,400/oz and copper price of \$3.40/lb and a discount rate of 7.7 %.

In comparison to the previous year's valuation (\$192 million), there has been a significant reduction in NPV, mainly due to mining depletion of reserves and higher costs due to a global inflationary context. These effects were partially offset by higher gold and copper price planning assumptions. In addition, as of December 2023, there was a write-off of 100% of the EMR resources for Cerro Corona. Consequently, there has been an impairment of \$156 million of the Cerro Corona CGU, which amounts to \$110 million after tax. The impairment calculation is based on the FVLCOD calculated using an income approach using level 3 of the fair value hierarchy, in comparison to the carrying value.

calculated using an income approach using level 3 of the fair value hierarchy, in comparison to the carrying value.

Gold Fields' commitment to materiality, transparency and competency in its Mineral resources and Mineral reserves disclosure to regulators and in the public domain is of paramount importance to the Qualified person and the Registrants Executive Committee and Board of Directors continue to endorse the company's internal and external review and audit assurance protocols. The Qualified person is of the opinion that this report meets these requirements and there are no further recommendations regarding this disclosure. This TRS should be read in totality to gain a full understanding of Cerro Corona's Mineral resource and Mineral reserve estimation and reporting process, including data integrity, estimation methodologies, modifying factors, mining and processing capacity and capability, confidence in the estimates, economic analysis, risk and uncertainty and overall projected property value.

The Mineral resources exclusive of Mineral reserves are sterilised when tailings are placed in the open pit. The qualified person is of the opinion that any Mineral resources that are not extracted by 2026 will then not have a reasonable prospect of extraction.



2 Introduction

2.1 Registrant for whom the Technical Report Summary was prepared.

This TRS was prepared by Gold Fields La Cima S.A. representatives for Gold Fields.

2.2 Terms of reference and purpose of the Technical Report Summary

The purpose of this TRS is to support the disclosure of Mineral resources and Mineral reserves for Cerro Corona, a production stage property located in Peru, in accordance with the disclosure requirements for mining registrants as specified in SK 1300.

The Cerro Corona TRS was first disclosed in 2021 with an effective date of 31 December 2021. This is the third TRS and is effective of 31 December 2023 and is being updated primarily due to changes in the valuation of the project which have necessitated an impairment.

The qualified person is of the opinion that Cerro Corona is no longer material to Gold Fields.

The Mineral resources and Mineral reserves disclosed in this TRS are reported in accordance with the South African Code for the Reporting of Exploration Results, Mineral Resources and Mineral Reserves (SAMREC Code 2016). SAMREC is based on the Committee for Mineral Reserves International Reporting Standards (CRIRSCO) Reporting Template November 2019. Mineral resources and Mineral reserves as reported in this TRS are also in accordance with SK 1300 and 601(b) of Regulation S-K.

2.3 Sources of Information

This TRS is principally based on information disclosed in the “SAMREC Competent Person’s Report on the Material Assets of Cerro Corona Copper and Gold Mine as of 31 December 2023” prepared by Cerro Corona management on behalf of the Company. The Competent Person’s Report (CPR) was supplemented by technical reports and studies prepared by the Company and third-party specialists engaged by the Company as cited throughout this TRS and listed in Section 24.

All units of measurement are in United States Dollars (\$). All measurements are metric, except for tonnage (mt) for

All units of currency are in United States Dollars (\$). All measurements are metric except for troy ounces (oz) for gold/silver and pounds (lb) for copper.

2.4 Qualified persons and details of inspection

The Qualified persons responsible for the preparation of this TRS are listed in Table 2.5.1. All the Qualified persons are eligible members in good standing of a recognised professional organisation (RPO) within the mining industry and have at least five years of relevant experience in the type of mineralisation and type of deposit under consideration and in the specific type of activity that the Qualified person is undertaking on behalf of the Company at the time this TRS was prepared.

The recognised professional organisation affiliation in good standing has been reviewed by Gold Fields. The Qualified persons have been appointed by Gold Fields.



Incumbent	Employer	Position	Affiliation in good standing	Relevant experience (years)	Date of inspection of Cerro Corona Copper and Gold Mine property	The details of the personal inspection during 2023 on the property by each qualified person or, if applicable, the reason why a personal inspection has not been completed	Responsibility for which chapters
Dr Julian Verbeek	Gold Fields	VP Geology and Mineral resources. Group QP	FAusIMM – 207994	36	Has attended site in May 2023	Mine geology and Mineral Resource model review.	This document has been prepared under the supervision of and reviewed by Julian Verbeek. Chapters 1-26
Jason Sander	Gold Fields	VP Mining	FAusIMM – 111818	28	Has not attended site	Unable to travel during 2023.	Overview and review of document. Chapters 1-5, 12-13 & 15-26
Dr Winfred Assibey-Bonsu	Gold Fields	Group Geostatistician and Evaluator	FSAIMM – 400112/00	37	Has not attended site	Attended site the previous year. Resource Estimate reviews completed online.	Review of Resources and Reserves. Chapters 1 – 9 & 11 & 20-26 (excluding 1.6 and 1.7)
Andrew Engelbrecht	Gold Fields	Group Geologist	MAusIMM – 224997	24	Has attended site in May 2023	Mine geology and Mineral Resource model review.	Geology and Resources. Chapters 1 – 9 & 11 & 20-26
Peter Andrews	Gold Fields	VP: Geotechnical	MAusIMM CP – 302255	27	Has attended site in March and October 2023	Geotechnical review in March and external audit in October	Geotechnical review. Chapters 7.4, 15.2, 17.3.2
Daniel Hillier	Gold Fields	VP: Metallurgy	FAusIMM CP – 227106	33	Has attended site in December 2023	Review of processing facilities.	Chapters 10 & 14
Johan Boshoff	Gold Fields	Group Head of Tailings	FAusIMM – 1007564	28	Has attended site in July 2023	Review of processing and tailings storage.	Tailings Review. Chapters 15.1 & 17.3.1
Andre Badenhorst	Gold Fields	Group Technical and Reporting Governance Manager	MAusIMM – 309882	43	Has not attended site	Unable to travel to site – altitude, Resource and Reserve Estimate virtual reviews completed online	Chapters 1-26
Paul Gomez	Gold Fields	VP: Technical Services	MAusIMM – 330373	23	Has attended site throughout 2023, is a Gold Fields regional Lead QP –	Attended site and assisted with the estimation, QAQC along with all aspects of th disclosure requirements.	Overall conduct and standard of technical work for the purposes of estimating and reporting resources and reserves for the Americas region. Chapters 1-26
Julio Torres	Gold Fields	Technical Services Manager	MAusIMM – 3053967	22	Has attended site throughout 2023, is a Gold Fields employee and site Lead QP	Attended site and assisted with the estimation, QAQC along with all aspects of th disclosure requirements.	Overall conduct and standard of technical work for the purposes of estimating and reporting resources and reserves for the Cerro Corona mine. Chapters 1-26
Jony Yupa	Gold Fields	Mine Planning Superintendent	MAusIMM – 3055128	17	Has attended site throughout 2023, is a Gold Fields	Attended site and assisted with the estimation, QAQC along with all aspects of th disclosure requirements.	Responsible for Pit optimization declaration to resources, reserves, scheduling mine plan. Chapters 1-26

					employee and site QP		
Joel Mejia	Gold Fields	Resources Geologist Supervisor	AusIMM – 317107	17	Has attended site Has attended site throughout 2023, is a Gold Fields employee and site QP	Attended site and assisted with the estimation, QAQC along with all aspects of th disclosure requirements.	Responsible for the compilation of this declaration as well as resource evaluation and modelling. Chapters 6-9 & 11

Notes:

- a) The Qualified persons were not all able to attend site in 2023 for Mineral reserve and Mineral resource reviews, however, the Mineral reserve and Mineral resource were reviewed according to the Chapter 21 description (virtual reviews). Some Qualified persons have attended historically.

Source: Cerro Corona CPR, 2023

2.5 Report version update

This TRS updates the TRS on Cerro Corona filed by Gold Fields on 31 March 2023 named Exhibit 96.8 **Gold Fields Limited – Cerro Corona Copper and Gold Mine – Peru** dated 31 December 2022. The effective date of this TRS report is 31 December 2023.



3 Property description

3.1 Property location

Cerro Corona is situated within the Hualgayoc Mining District of northern Peru, 1.5 km west-northwest of the village of Hualgayoc at longitude 78°37' 17" W and latitude 6°45' 47" S. Cerro Corona is located approximately 80 kilometres by road north of Cajamarca. Access from Cajamarca is by largely sealed roads with a short distance of unsealed road. Cajamarca has a regional airport with regular scheduled flights. There is no direct rail link to the site. Power is supplied via the regional power grid and is 100% renewable (hydro electric). The operation has an on-site camp for personnel.

3.2 Ownership

The Cerro Corona property is held by Gold Fields La Cima S.A. (GFLC), a Peruvian-registered company. Gold Fields Corona (BVI) Limited, holds a 99.53 % interest in GFLC. The additional 0.47% is held by private owners and are minor shareholders.

3.3 Property area

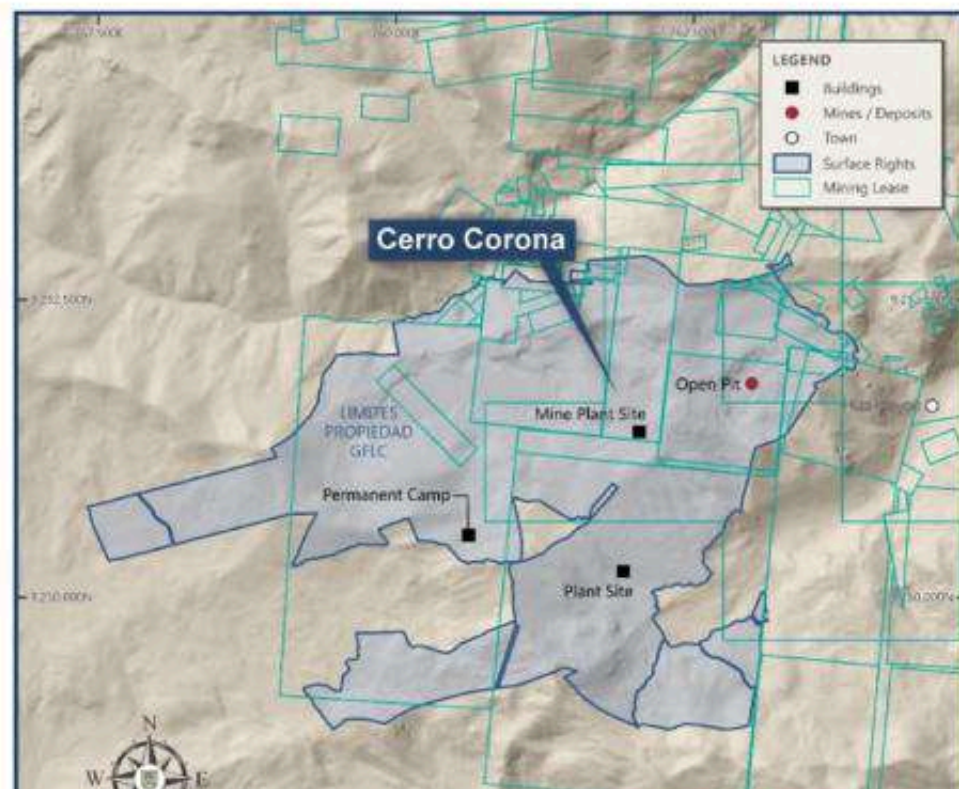
GFLC controls mining concessions covering an area of 4,805 ha and surface rights over 1,403.02 ha. The active mining area is currently less than 70 ha. The total property area owned by Cerro Corona covers 6,208.02 hectares, comprising 4,805 hectares mining concessions, with the total surface rights covering 1,403.02 hectares.

3.4 Property mineral titles, claims, mineral rights, leases and options

GFLC holds 102 mineral rights at Cerro Corona as shown in Figure 3.4.1 and listed in Table 3.4.1.

The mining rights cover all of the declared Mineral reserves. GFLC has legal entitlement to the minerals being reported upon with no known impediments.

Figure 3.4.1: Cerro Corona mineral titles





Source: Cerro Corona CPR, 2023



Table 3.4.1: List of Cerro Corona mineral rights

No.	Code	Name	Title Year	Available ha.	License fee	Minimum production	Penalty	Minimum investment
					(USD)	(USD)	(USD)	(USD)
1	03000223X01	22 DE ENERO	1966	2	6	2,459.40	49.19	491.88
2	010001701L	ACUMULACION CHELITA	2002	210.38	631.15	258,759.22	5,175.18	51,751.84
3	03003400X01	ALEJANDRITO MP	1991	7.74	23.23	9,524.21	190.48	1,904.84
4	03000715Y01	ALFA 23-I (accumulate)	1985	107.06	321.19	0	0	0
5	03000716Y01	ALFA 23-II (accumulate)	1985	24.77	74.3	0	0	0

6	03000721Y01	ALFA 23-III (accumulate)	1986	46.98	140.93	57,780.55	1,155.61	11,556.11
7	03003205X01	ALFA 23-IV (accumulate)	1986	4.97	14.91	6,113.82	122.28	1,222.76
8	03002892X01	ALFA -G	200	0.13	0.39	158.54	3.17	31.71
9	03001066X01	ALFA VEINTITRES	1983	79.98	239.93	0	0	0
10	03002889X01	ALFA-C	1991	1.64	4.93	0	0	0
11	03002896X01	ALFA-D	1991	0.19	0.58	0	0	0
12	03002890X01	ALFA-E	2000	0.14	0.43	0	0	0
13	03002891X01	ALFA-F	1991	0.71	2.14	878.18	17.56	175.64
14	03002897X01	ALFA-H	1991	0.78	2.35	0	0	0
15	03002893X01	ALFA-J	1991	1.54	4.61	1,889.44	37.79	377.89
16	03002900X01	ALFA-M	2000	0.08	0.23	96.06	1.92	19.21
17	10231904	AMANECER MINERO GF	2004	0.57	1.71	699.72	13.99	139.94
18	03002283X01	ANCLA	2000	1.56	4.69	1,921.91	38.44	384.38
19	0302283AX01	ANCLA A-4 (fraccionado)	2000	3.89	11.68	4,790.40	95.81	958.08
20	0302283BX01	ANCLA A-5 (fraccionado)	2000	12.86	38.59	15,821.79	316.44	3,164.36
21	03003206X01	ARPON 19-1 (accumulate)	1988	55.56	166.69	0	0	0
22	03002887X01	ARPON -A	1995	4.61	13.84	0	0	0
23	03003101X01	ARPON C	1998	0.84	2.52	0	0	0
24	03001067X01	ARPON DIECINUEVE	1981	89.97	269.91	0	0	0
25	03000376X01	BELLA UNION	1966	49.99	149.97	61,484.41	1,229.69	12,296.88
26	03001366X01	CALIZA	1998	32.83	98.48	40,374.84	807.50	8,074.97
27	03001629X01	CAÑON	1975	89.98	269.95	0	0	0
28	03001700X01	CAPRICORNIO	2000	2.64	7.93	3,250.38	65.01	650.07
29	10265003	CAROLINA UNO 2003	2004	7.24	21.72	0	0	0
30	03000907X01	CASUALIDAD	1969	284.98	854.95	350,512.62	7,010.25	70,102.52
31	03002064X01	CERRO	1995	166.63	499.88	0	0	0

32	03002438X01	CERRO-A	1994	129.97	389.9	159,851.23	3,197.02	31,970.25
33	03001014X02	CHELA VEINTIDOS	1968	10	29.99			
34	03002144X01	CORDILLERA	2000	442.4	1,327.19	544,124.16	10,882.48	108,824.83
35	03002153X01	CORDILLERA – B	1999	375.89	1,127.68	462,329.52	9,246.59	92,465.90
36	10050310	CORONA NW	2011	1.19	3.58	1,467.08	29.34	293.42
37	03002331X01	DEMASIA PAMPA DE NAVAS	2000	0.01	0.03	0	0	0
38	03001043X01	DON PACO	1968	38.99	116.98	47,957.83	959.16	9,591.57
39	03002145X01	DOS AMIGOS	1999	14.99	44.98	18,442.80	368.86	3,688.56
40	03002146X01	EL MANJAR N° 2	1978	0.9813	2.94	1,206.95	24.14	241.39
41	0302146AX01	EL MANJAR N°2-A3 (fraccionado)	2000	1.6	4.79	1,963.73	39.28	392.75
42	0302146BX01	EL MANJAR N°2-A4 (fraccionado)	2000	44.16	132.49	54,318.01	1,086.36	10,863.60
43	0302146CX01	EL MANJAR N°2-A6 (fraccionado)	2000	6.87	20.6	8,446.04	168.92	1,689.21
44	0302146DX01	EL MANJAR N°2-A7 (fraccionado)	2000	3.96	11.89	4,873.42	97.47	974.68
45	0302146EX01	EL MANJAR N°2-A8 (fraccionado)	2000	217.25	651.74	267,200.59	5,344.01	53,440.12
46	03001926X01	EL MESIAS	1978	167.96	503.89	206,586.25	4,131.72	41,317.25
47	0302960BX01	ENSENADA-MC	2001	0.36	1.07	438.72	8.78	87.74
48	0302964BX01	FORTUNA I-M.C.	2000	7.8	23.4	9,594.32	191.89	1,918.86

49	03001916X01	FUMISA N°1	2000	74.7	224.11	91,880.70	1,837.61	18,376.14
50	03001917X01	FUMISA N°2	2000	62.64	187.91	77,041.14	1,540.82	15,408.23
51	03001918X01	FUMISA N°3	2000	19.99	59.98	0	0	0
52	03002736X01	FUMISA N°3-A	2000	4.51	13.53	0	0	0
53	03002737X01	FUMISA N°3-B	1998	2	5.99	0	0	0
54	03002746X01	FUMISA N°3-H	2000	0.58	1.73	0	0	0
55	0302746AX01	FUMISA N°3-H-A2 (fraccionado)	2000	1.77	5.3	0	0	0
56	03003451X01	GEMELA DERECHA M.R.	2000	0.11	0.33	135.91	2.72	27.18
57	0303451AX01	GEMELA DERECHA M.R. - A4 (fraccionado)	2000	1.08	3.25	1,333.75	26.67	266.75
58	03001228X01	JAPON TRECE	1999	6	18	7,378.20	147.56	1,475.64
59	03003661X01	JUAN XXIII	2001	0.19	0.58			
60	03002199X01	LA INCREIBLE	2000	1.94	5.82	2,386.71	47.74	477.34
61	0302212DX01	LAGO AL-4 (fraccionado)	2000	6.38	19.15	7,850.63	157.01	1,570.13
62	03000950X01	LUCIA N°1	1983	12	35.99	14,755.79	295.11	2,951.16

63	03000023X01	MARUJA 1A	1967	1.66	4.99	2,043.93	40.88	408.79
----	-------------	-----------	------	------	------	----------	-------	--------

64	0303613AX01	MILAGRITOS G.A.-A1 (fraccionado)	2000	1.52	4.55	1,866.94	37.34	373.39
65	03003613X01	MILAGRITOS- G.A.	2000	0.27	0.81	333.32	6.67	66.66
66	03000479X01	NANCY	1967	12	35.99	0	0	0
67	03000078X01	NILDA	1968	10	29.99	0	0	0
68	03003324X01	OLVIDADA	2000	0.39	1.16	475.01	9.50	95.00
69	03000267X01	ORLANDITO	1964	17.99	53.98	22,131.90	442.64	4,426.38
70	03000144X01	ORLANDO	1964	23.99	71.98	29,509.61	590.19	5,901.92
71	03000151X01	ORLANDO I	1961	43.99	131.96	54,099.44	1,081.99	10,819.89
72	03000152X01	ORLANDO II	1961	17.99	53.98	22,131.17	442.62	4,426.23
73	03000156X01	ORLANDO III	1961	6	17.99	7,377.47	147.55	1,475.49
74	0303236CX01	PATY M.C. (fraccionado)	2000	49.68	149.04	61,102.14	1,222.04	12,220.43
75	0303236AX01	PATY-M.C.	2000	0.06	0.18	74.66	1.49	14.93
76	03000943X01	PORCIA N°1	1967	3	9	0	0	0
77	03002213X01	PORCIA N°2	2000	0.33	1	410.80	8.22	82.16
78	0302213AX01	PORCIA N°2-A1 (fraccionado)	2000	3.47	10.42	4,272.96	85.46	854.59
79	03002211X01	PORCIA N°3	2000	3.65	10.94	4,485.61	89.71	897.12
80	03001206X01	PREDILECTA	1956	6	18	0	0	0
81	10070004	PROYECTO 2004	2004	16.59	49.77	0	0	0
82	03000403X01	PUNTO VICTORIA SEIS	1968	29.99	89.98	36,889.79	737.80	7,377.96
83	03001032X01	QUIJOTE	2000	0.28	0.85	348.57	6.97	69.71
84	03001824X01	QUIJOTE N°2	2000	9	27	11,069.15	221.38	2,213.83
85	0301032AX01	QUIJOTE-A1	2000	47.2	141.61	58,059.13	1,161.18	11,611.83
86	03002204X01	REDENCION	1998	2.92	8.76	0	0	0
87	03000158X01	RULITO	1965	39.99	119.96	49,182.12	983.64	9,836.42
88	10236794	SAN JOSE N° 1	2003	102.32	306.95	125,845.67	2,516.91	25,169.13

89	10778195	SAN JOSE N°1-A	2002	153.85	461.55	189,228.50	3,784.57	37,845.70
90	03000176X01	SAN RAMON	1985	5.63	16.9	0	0	0
91	03001022X01	SANTA BARBARA	1936	4	12	4,919.79	98.40	983.96
92	10164412	SENECA	2013	2.69	8.06	3,304.50	66.09	660.90
93	03000135X01	SYLVITA	1961	19.99	59.98	0	0	0
94	03002284X01	TARA	2000	0.37	1.11	0	0	0
95	0302284AX01	TARA A-1 (fraccionado)	2000	7.24	21.73	8,906.90	178.14	1,781.38
96	0302284BX01	TARA A-2 (fraccionado)	2000	25.34	76.01	31,162.54	623.25	6,232.51
97	0302284CX01	TARA-A-3 (fraccionado)	2000	9.22	27.66	11,339.61	226.79	2,267.92
98	0302284DX01	TARA-A-4 (fraccionado)	2000	1.22	3.65	1,496.35	29.93	299.27
99	03002219X01	TRINITARIA V	2000	0.35	1.05	429.62	8.59	85.93



100	03002471X01	VALE	2000	533.73	1,601.19	0	0	0
101	03002085X01	VALLE	1994	615.83	1,847.50	0	0	0
102	03002350X01	VALLE -A	1997	23.79	71.38	0	0	0
Total (ha)	4,805.07							

Notes:

- a) The Qualified person's opinion is that licenses and tenements are in good standing to enable execution of the life-of-mine plan and can be renewed or extended as required.



The surface rights at Cerro Corona are listed in Table 3.4.2.

Table 3.4.2: List of Cerro Corona surface rights

No.	Property name	Purchased/leased to	Area (Ha)	Certificate / P.E	Public Register	Registration date
1	Las Siete Curvas- La Jalca and Cochinero	Sociedad Minera Corona S.A.	34.00	11008477	Chota	Nov 29, 2005
2	Las Siete Curvas	Sociedad Minera Corona S.A.	0.04875	11008175	Chota	Nov 29, 2005
3	Hualgayoc (El Tingo Community)	Sociedad Minera Corona S.A.	571.7553	11031687	Chota	Nov 29, 2005
4	Ojo de la Hierba Buena	Sociedad Minera Corona S.A./Arquimides Chuquilin	49.129	11031530	Chota	Dec 15, 2005
5	U.C. N° 09044 Las Aguilas – La Jalca	Sociedad Minera Corona S.A.	33.90	2257517	Chota	July 11, 2006
6	U.C. N° 09050 Las Aguilas – La Jalca	Sociedad Minera Corona S.A.	18.00	2257518	Chota	July 11, 2006
7	U.C.N° 09045 Coymolache – La Jalca	Sociedad Minera Corona S.A.	11.00	2257519	Chota	July 11, 2006
8	U.C.N° 09046 Coymolache – La Jalca	Sociedad Minera Corona S.A.	3.70	2257520	Chota	July 11, 2006
9	U.C.N° 09047 Coymolache – La Jalca	Sociedad Minera Corona S.A.	15.00	2257521	Chota	July 11, 2006
10	U.C. N° 09048 Arpon – La Jalca	Sociedad Minera Corona S.A.	25.00	2257522	Chota	July 11, 2006

11	U. C.N° 09049 Arpon – La Jalca	Sociedad Minera Corona S.A	4.00	2257523	Chota	July 11, 2006
12	U.C. N° 120172- Cuadratura	Julio Quispe Pérez	4.8377	11039906	Chota	May 21, 2008
13	U.C. N° 120168-Cuadratura	Julio Quispe Pérez	0.5072	11039905	Chota	May 21, 2008
14	U.C. N° 120167 Cuadratura	Julio Quispe Pérez	87.9596	11039904	Chota	May 21, 2008
15	U.C. N° 120170-Cuadratura	Julio Quispe Pérez	1.0151	11041514	Chota	May 21, 2008
16	U.C. N° 120171-Cuadratura	Julio Quispe Pérez	20.5089	11041861	Chota	May 21, 2008
17	UC N° 890028	El Tingo Community	109.03	11076376	Chota	Oct 19, 2009
18	U.C. N° 005141	Alberto Vásquez Becerra	81.8315	11099716	Cajamarca	April 13, 2010
19	U.C. N° 005143	Alberto Vásquez Becerra	11.2442	11099717	Cajamarca	April 13, 2010
20	Las Lagunas	Abraham Vásquez Becerra	42.9362	11108843	Cajamarca	May 12, 2010
21	UC N°120173	Hipólito Gallardo Pérez	35.5937	No Registered	N.A.	Dec 10, 2010
22	U C N°120174	Hipólito Gallardo Pérez	21.6912	No Registered	N.A.	Dec 10, 2010
23	UC N° 120181	José Soto Becerra / Teodora Vásquez Saavedra	32.8994	11041434	Chota	Jan 20, 2011
24	UC N° 120180	José Soto Becerra/ Teodora Vásquez Saavedra	16.8871	11041433	Chota	Jan 20, 2011
25	UC N° 005396	Delia Vásquez Becerra	16.0607	11123751	Cajamarca	Jan 14,2011
26	UC 120212	José Soto Becerra y Teodora Vásquez Saavedra	1.8513	11045322	Chota	Feb 11,2011
27	Las Lagunas 2	Abraham Vásquez Becerra	12	11131253	Cajamarca	Dec 28,2011
28	Las Lagunas (U.C. 005182)	Hernán Vásquez Saavedra	25.6268	11108844	Cajamarca	Jun 06, 2014
29	Coimolache	Demetrio Chuquilín Regalado	0.558	No Registered	N.A.	Nov 02, 2007
30	Coimolache	Orfelinda Chuquilín Regalado	0.837	No Registered	N.A.	Nov 07, 2007
31	Coimolache	Demetrio Chuquilín Regalado	0.279	No Registered	N.A.	Nov 12, 2007
32	Ojo de la Hierba - Buena	Compañía Transmisora Norperuana S.R.L.	0.671	11045862	Chota	Sep. 23, 2019
33	Hueco Chico Area 1	Jacoba Regalado Díaz	3.5842	No Registered	N.A.	Dec. 10, 2021
34	Hueco Chico Area 2	Jacoba Regalado Díaz	3.00			
35	El Mirador Area 1	Victor Regalado Díaz	2.50			
36	Amalia	Hernan Vasquez Saavedra	33.7906			
37	Predio 1	Comunidad Campesina El Tingo	20.8399			
38	Predio 2	Comunidad Campesina El Tingo	0.6942			
39	Predio 3	Comunidad Campesina El Tingo	1.3016			
40	Predio 4	Comunidad Campesina El Tingo	0.8923			

41	Predio 5	Comunidad Campesina El Tingo	37.7405			
42	Predio 6	Comunidad Campesina El Tingo	3.4385			
43	Predio 7	Comunidad Campesina El Tingo	2.265			
44	Predio 8	Comunidad Campesina El Tingo	0.1130			
45	Predio 9	Comunidad Campesina El Tingo	0.0985			
46	Predio 10	Comunidad Campesina El Tingo	0.4308			
47	Predio 11	Comunidad Campesina El Tingo	0.4133			
48	Predio 12	Comunidad Campesina El Tingo	1.556			
Total (ha)			1,403.02			

Notes:

- a) The Qualified person's opinion is that licenses and tenements are in good standing to enable execution of the life-of-mine plan and can be renewed or extended as required.

Source: Cerro Corona CPR, 2023: & GFLC

3.5 Mineral rights description

In Peru, Mineral resources are owned by the State and governed by Supreme Decree No. 014-92-EM. Authorisation to explore and exploit Mineral resources is conferred upon the applicant for a mining concession following due administrative procedure. Changes to the mining regulations approved during 2017 by Legislative Decree No. 1320 mean that mining concessions will be considered to have expired after a period of 30 years if there has been no exploitation by the titleholder. The titleholder is required to comply with specific obligations, such as the payment of annual mining good standing fees, satisfying minimum investment requirements or the payment of a penalty, and the payment of monthly royalty payments based on the value of production, as applicable.

In June 2004, the Mining Royalty Law established payment of a mining royalty by owners of mining concessions for the exploitation of metallic and non-metallic resources. This mining royalty was originally calculated based on revenues obtained from the sales of minerals. An amendment to the Mining Royalty Law was approved establishing that as of October 2011, the mining royalty would be determined by applying a sliding scale rate ranging from 1 % to 12 % based on the quarterly operating profits (previously 1 % to 3 % of sales). Mining royalties are deductible for

income tax purposes.

Mineral rights and/or mining rights are subject to the necessary approvals and permits discussed in Section 17.

3.6 Encumbrances

No other regulatory requirements for the Property have been identified.

Section 17 discloses the remediation and reclamation guarantees that are pertinent to Cerro Corona.

3.7 Other significant factors and risks

The Qualified persons are not aware of any other current or pending legal matters that may have an influence on the rights to explore or mine for minerals at Cerro Corona. A review of recent Company public disclosure documents including the annual report (Gold Fields Form 20-F for the 12 months Ended 31 December 2023) do not contain any statements by the directors on any legal proceedings or other material conditions that may impact on the Company's ability to continue mining or exploration activities at Cerro Corona.

3.8 Royalties or similar interest

Gold Fields Corona (BVI) Limited holds a 99.53% economic interest in GFLC. The additional 0.47% is held by private owners and are minor shareholders.



4.1 Topography, elevation and vegetation

The terrain around Cerro Corona is mountainous with elevations ranging from 3,600 m – 4,000 m above sea level.

4.2 Access

Cerro Corona mine is 1.5 km west-northwest of the City of Hualgayoc (population of 2,420), approximately 600 km north-northwest of the capital city Lima and approximately 80 km north of the departmental capital of Cajamarca. Access is via predominantly paved road from Cajamarca.

4.3 Climate

Average annual rainfall is approximately 1,200 mm with the rainy season extending from October to March and to a lesser extent from April to September. Temperatures vary from 13 °C to -26 °C, with colder months in May to October.

No extreme climate conditions have historically been experienced that materially affect operations.

4.4 Infrastructure

Cerro Corona is an open pit copper and gold mining operation with associated infrastructure and facilities that operate year-round. Major infrastructure owned and operated by GFLC includes a 6.5 to 6.7 Mt/a flotation process plant, WSF's, a TSF, with 3 dams, two quarries, haul roads, administration centres and a permanent camp (Figure 4.4.1).

The process plant is located west of the open pit and consists of two crushing lines, a SAG and ball mill and a flotation circuit. The RoM pad carries 4 to 6 days of feed.

Cerro Corona has a purpose-built engineered TSF to the west of the process plant constructed across both the Las Gordas and Las Aguilas valleys, immediately upstream of the Tingo River.

The waste storage facility (WSF) is situated immediately upstream of the TSF and is planned to be partially inundated by the TSF up to the 3,800 m level. The main source of water supply for Cerro Corona is runoff water from the mine and other flows stored at the TSF. Process water is sourced from the TSF and returned together with the tailings for further reuse and recycling. The water supply for the Cerro Corona camp is pit dewatering and the upstream containment blanket (UCB) drainage system.

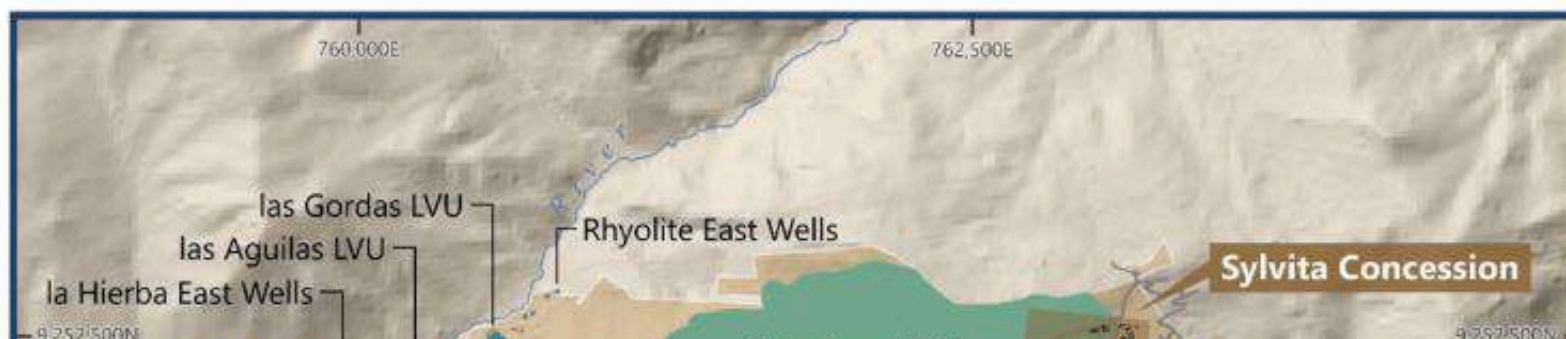
The power supply at Cerro Corona is part of SEIN (the National Interconnected Electrical System of Peru). Cerro Corona is connected to the Cajamarca North Substation (a 220 kV substation) through the SE Cajamarca North - SE Cerro Corona Transmission Line (33.59 km long with 120 MW of transmission capacity).

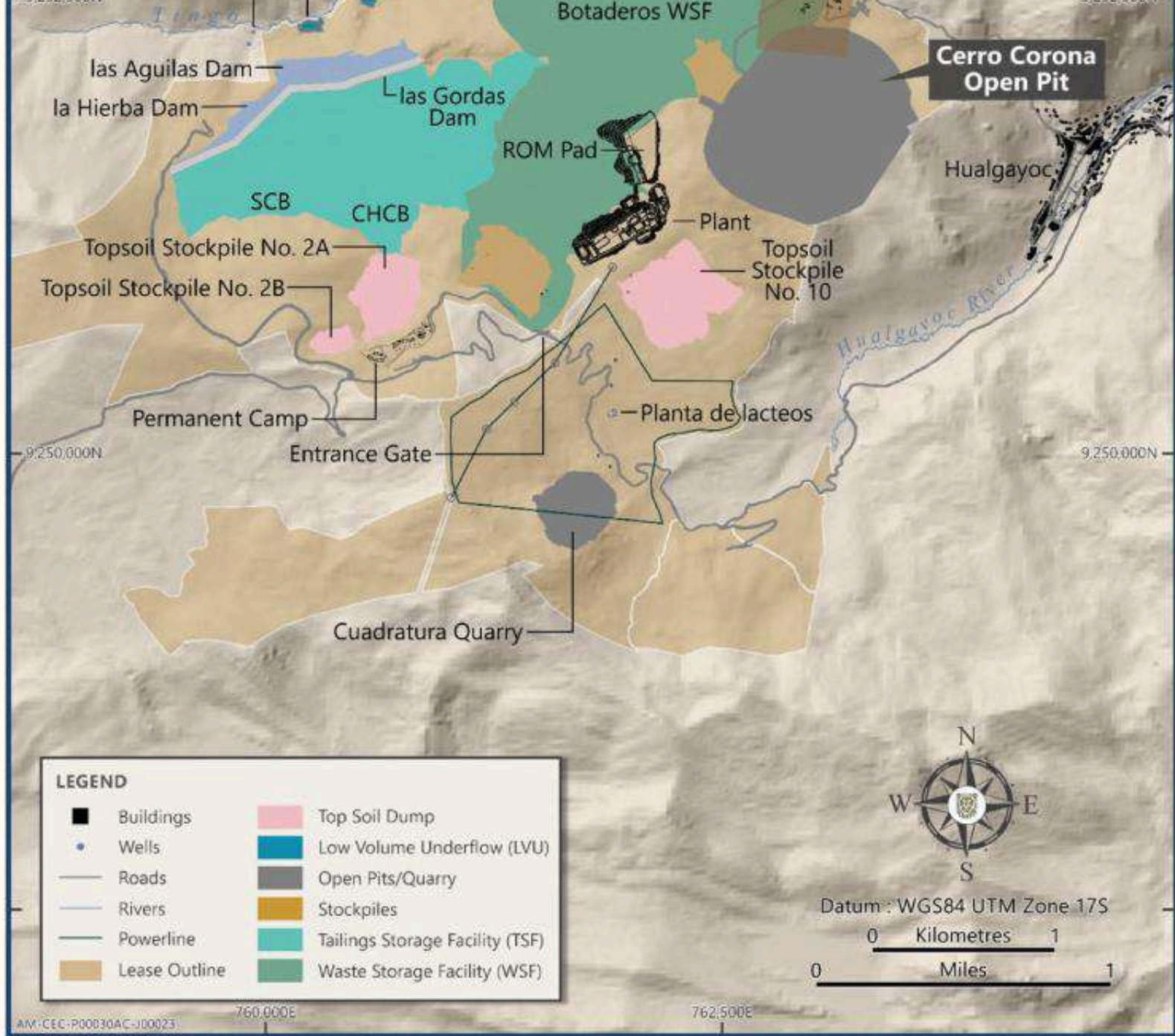
Most supplies are transported by truck to the Property. Concentrate is transported in seven-vehicle convoys for 380 km to Salaverry port, 14 km southeast of Trujillo city (Figure 1.1.1).

Cajamarca is the nearest city to Cerro Corona, approximately 80 km south by road. Cajamarca is the capital and largest city of the Cajamarca region and has a population of approximately 200,000. It is an important cultural and commercial centre in the northern Andes region.



Figure 4.4.1: Cerro Corona operating sites and infrastructure





Source: Cerro Corona CPR, 2023

Further details regarding the infrastructure are provided in Section 15.

Excluding the mining contractor, all personnel working on the mine are mine employees and contractors are called in as and when the need arises. Personnel operating at senior and middle management levels are recruited and appointed in line with Company policy and consideration is given to applicants from host communities, where training programs are provided when required. Cerro Corona operates safe, functional work rosters to ensure continuous mining operations.



4.5 Book Value

The economic analysis disclosed in Chapter 19 is in relation to the attributable Mineral reserves only and excludes Mineral resources and lower grade material. The assumptions, parameters and cashflows are only intended to support the Mineral reserve declaration for the operation. Certain assumptions and estimates might differ from the long-term outlook or actual results of the operation, including the commodity prices used, which are materially different from current spot prices. Changes in these assumptions may result in significant changes to mine plans, cost models and the NPV of the operation. The Mineral reserves and exclusive Mineral Resources will therefore by nature, not necessarily represent the total future economic benefit that can be derived from the Property.

Net Book value of property plant and equipment consists mainly of land holdings, equipment at the process plant, mine infrastructure, mine development and mineral and surface rights. Cerro Corona book value at December 2022 was \$390 million, and as of December 2023 is \$197 million. There has been a significant reduction during 2023 due to depreciation and amortization which includes mainly TSF amortization, and the Impairment adjustment of \$156 million (net of taxes \$110 million). More details about the Impairment will be discussed in Chapter 19.2.

5 History

Exploration by Bureau de recherches géologiques et minières (BRGM in 1979) or French geological survey identified porphyry style mineralisation in the Cerro Corona area. Sampling by the Gubbins Group during 1992 and 1993 identified gold mineralisation in the leached cap of the Cerro Corona deposit. Copper-gold porphyry mineralisation was discovered through the drilling of nine diamond core (DD) holes and completion of an exploration campaign add it into the mineralised zone.

From 1994 to 1996, Barrick Gold drilled 140 reverse circulation (RC) drillholes (for 9,476 m) and 118 DD holes (for 35,254 m) and completed a draft feasibility study. From 1997 to 1998, RGC Limited drilled six DD holes (for 2,760 m) and completed a preliminary feasibility study.

In 2001, Minproc completed a further feasibility study, from which a Mineral reserve of ~95 Mt was reported. In 2003, Gold Fields signed a definitive agreement with Sociedad Minera Corona S.A. for the purchase of an 80 % interest in the Cerro Corona deposit and adjoining mining concessions.

The Environmental Impact Assessment (EIA) was approved in December 2005 and the purchase transaction for the Property was completed in January 2006. Mine construction commenced in May 2006 and building of the Las Gordas tailings dam and quarrying for the relevant construction material commenced in 2007. The mine has been in production since August 2008 and utilises open pit mining and sulphide flotation to produce an auriferous copper concentrate.

Gold Fields increased its economic interest in Cerro Corona to 98.6 % in 2012 and to 99.53 % in 2013.

A feasibility study for the LOM extension to 2030 was completed in 2019.

The recent production performance of Cerro Corona is summarised in Table 12.2.2.

A total of 676 holes for 126,204.68 m have been drilled at Cerro Corona from 1993 to 2023. Further details on the recent exploration activities at Cerro Corona are provided in Section 7.

6.1 Geological setting

The Cerro Corona copper-gold porphyry is one of 14 known porphyry copper-gold-molybdenum deposits and 19 epithermal gold-silver deposits located in the Cajamarca Metallogenic Province (CMP) of northern Peru. There are two well-mineralised districts within the CMP:

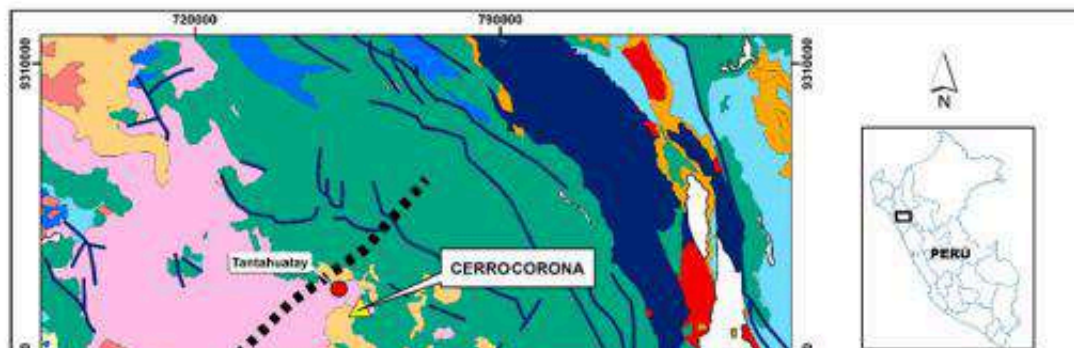
- The Yanacocha district in the south of the province, which is host to what once was the largest producing gold mine in South America.
- The Hualgayoc mining district in the north, which is one of the oldest mining districts in Peru and is best known for its historic silver production and more recent base metal production.

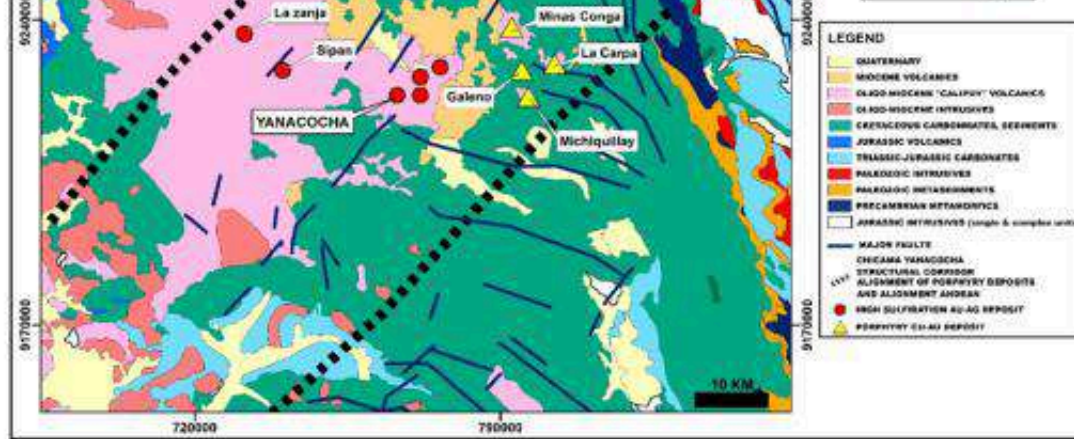
The Hualgayoc district has been an important silver producing area since Inca times, with more than 50 Moz of silver and significant amounts of lead, zinc and copper produced from vein and manto type deposits since the Spanish conquest in the 16th century. The Hualgayoc mining town was established in 1771.

The porphyry and epithermal deposits in the CMP are part of the extensive Miocene metallogenic belt of central and northern Peru. This belt is rapidly becoming recognised for its prolific gold metallogeny and is host to some of the largest gold mines recently discovered and exploited in South America. These mines include Yanacocha (>40 Moz Au), Pierina (9 Moz Au), Lagunas Norte (previously known as Alta Chicama, >12 Moz Au) and now Cerro Corona (>6 Moz Au.).

The oldest rocks are Paleozoic to Mesozoic platform sedimentary rocks, and include Lower to Upper Cretaceous strata, beginning with sandstone of the Gollarisquizga Formation, overlain by increasingly calcareous strata of the Inca, Chulec, Pariatambo, Yumagual and Mujarrun Formations and ending with the Cajamarca Formation. These are unconformably overlain by a thick and extensive sequence of volcanic rocks of Eocene to Miocene age known colloquially as the Calipuy Volcanics (Figure 6.1.1). The trend of the Andean fold belt is cut by a series of northeast-trending trans-Andean faults, some with a sinistral sense of movement. These northeast-trending structures have been identified as a 30–40 km wide belt called the Chicama-Yanacocha Corridor.

Figure 6.1.1: Cerro Corona regional geology





Source: Cerro Corona CPR, 2023



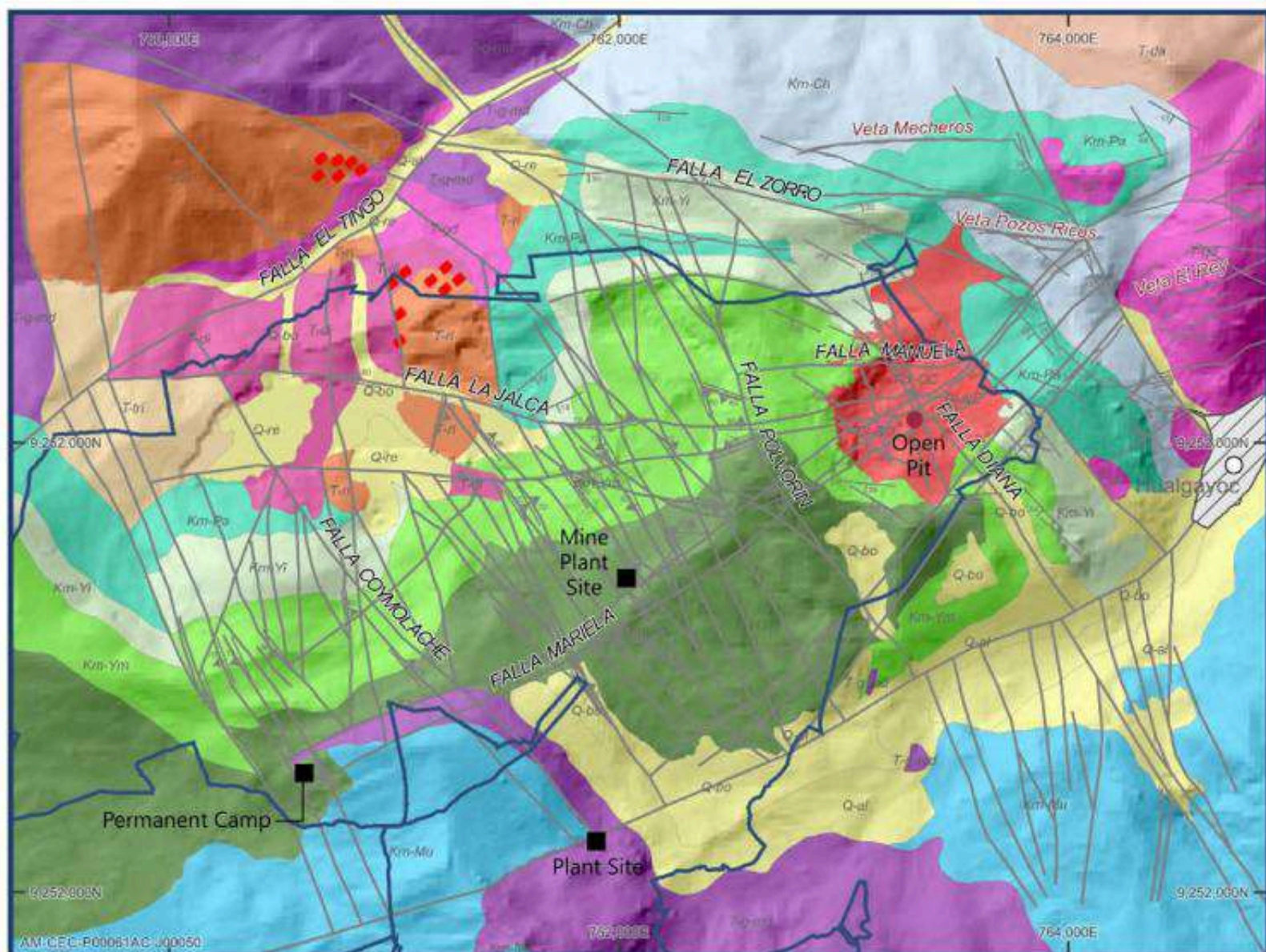
6.2 Local Geology

Cerro Corona consists of an intrusive diorite to quartz diorite of Mid-Miocene age (14.4 ± 0.1 Ma), which intrudes the Pariatambo and Yumagual–Pulluicana limestones of Mid-Cretaceous age (Figure 6.2.1 and Figure 6.2.3). The intrusive is primarily emplaced along sub-vertical faults. Alteration of the limestone varies from siliceous south of the deposit to marbling in the west.

The Cerro Corona porphyry has been intensely faulted and fractured. Three dominant fault orientations have been identified, two correspond to Andean-parallel and Andean-normal trends. The third direction, east–west, is interpreted as a local dilational trend. The porphyritic diorite intrusive is emplaced at the intersection of the Andean-parallel and

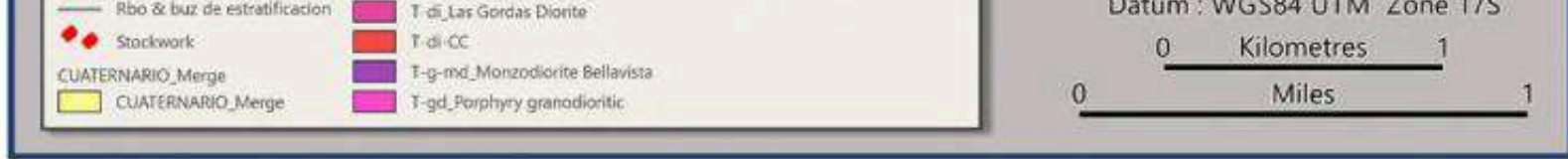
as a local extensional trend. The porphyric diorite intrusive is emplaced at the intersection of the Andean-parallel and Andean-normal (trans-Andean) structures.

Figure 6.2.1: Cerro Corona local geology



LEGEND		
■ Buildings	VOLCANIC ROCKS	SEDIMENTARY ROCKS
● Mines / Deposits	■ T-ri_Volcanic Rhyolitic	■ Km-Ch_Chulec Formation
○ Town	■ T-ri_Rhyolitic Tuff	■ Km-Mu_Mujarrun Formation
— Lease Boundary Outline	INTRUSIVE ROCKS	■ Km-Pa_Pariatambo Formation
— Faults	■ DI-NE	■ Km-Yl_Yumagual inf
— Rbo & buz de fallas	■ DI-SO	■ Km-Ym_Yumagual Med
	■ T-da	■ Km-Ys_Yumagual Sup

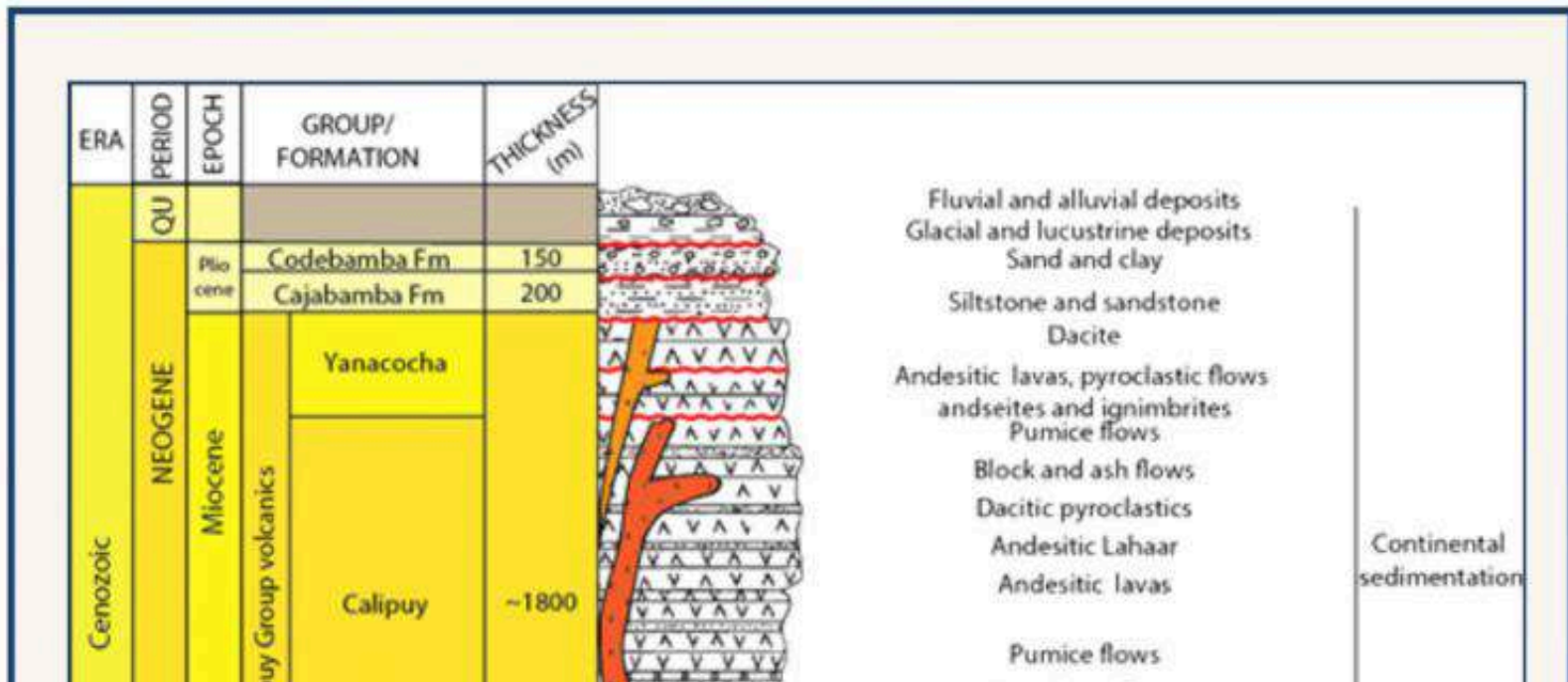


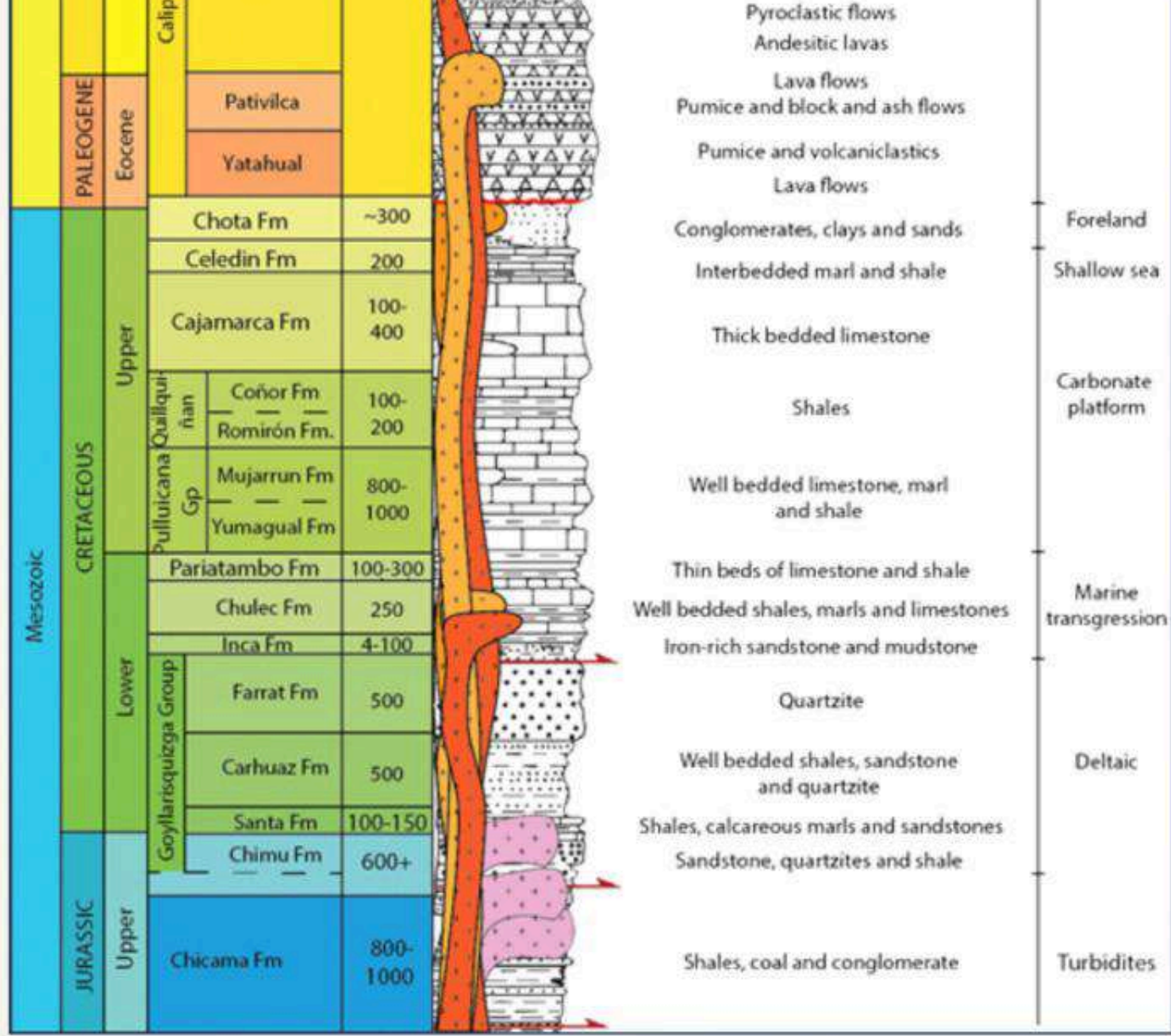


Source: Cerro Corona CPR, 2023



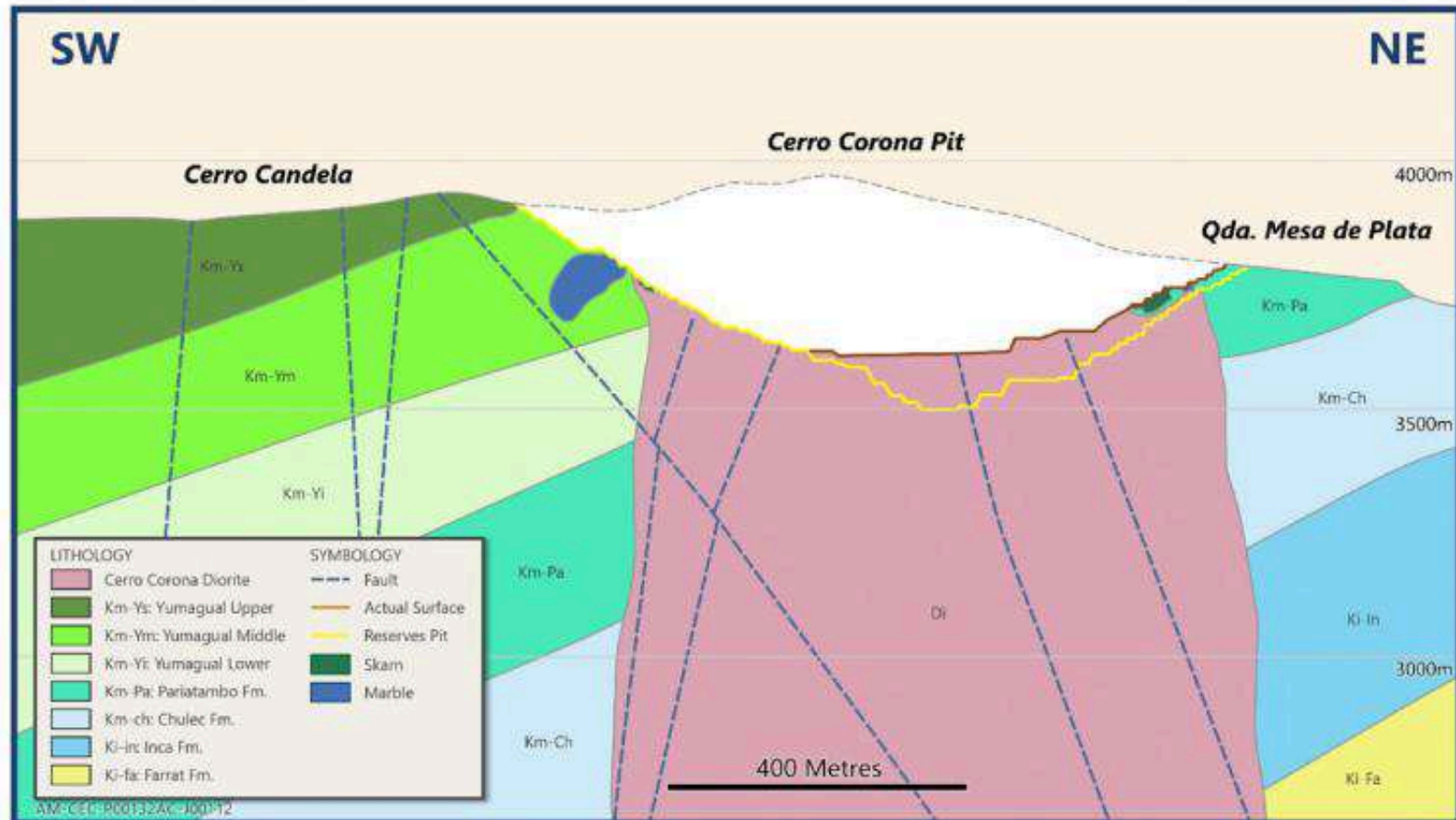
Figure 6.2.2: Schematic stratigraphic column of Cajamarca district





AM-CEC-P00060AB-J00049

Figure 6.2.3 : Geological section through the Cerro Corona pit looking north-west



Source: Cerro Corona CPR, 2023

The trans-Andean fault trend has an orientation similar to the northeast–southwest-trending Chicama-Yanacocha Corridor. At Cerro Corona, this direction is referred to as the Mariela Fault trend. The Mariela Fault was identified as a northeast–southwest-oriented fault cutting the peak of Cerro Corona Mountain, and this fault along with sub-parallel fault structures are important to understanding the distribution of fracturing, stockwork veining and mineralisation at Cerro Corona. A distinctive feature of the Mariela Fault trend is that it corresponds to a prevalent direction of sulphur flooding which extends from the intrusive diorite into the limestone at the south, resulting in a zone of intense sulphide

concentration in limestone.

The Andean-parallel fault direction at Cerro Corona is referred to as the Diana Fault trend. It has a northwest–southeast orientation and dips steeply to the northeast.

6.3 Mineralisation

Cerro Corona is a copper-gold porphyry type deposit, with some epithermal facies at the top of its volcanic column, hosted by a sub-vertical, cylindrical-shape diorite porphyry (600-700 m in diameter). The intrusion has undergone significant meteoric (supergene) processes at the top of the column, generating an upper level known as the leached cap, underlain by mixed and copper enriched zones which overlie the main hypogene portion of the deposit. The gold-only leached cap is free of copper, which is concentrated in the supergene enriched horizons.

Around 80 % of the orebody is hypogene and the remaining 20 % is oxide or supergene, notwithstanding that most of the supergene and oxide ore has already been mined and the remnant ore is primary sulphide in nature.

The Cerro Corona porphyry system is strongly altered, ranging from propylitic in the distal zones to predominantly argillic in the central zone. Varying proportions of clay-sericite are encountered and potassic alteration intensity increases with depth.

the porphyry, with a low-grade or barren zone in the central part.

The upper oxidised zone of the porphyry system is up to 40 m thick and is characterised by the presence of iron oxides (goethite > jarosite > hematite + tenorite). The supergene zone contains chalcocite-covellite occurring as disseminated nodes and infill within fractures and quartz veins. Bornite occurs less frequently and on a local scale, copper sulphate is impregnated into the host rock.

At depth, the hypogene zone is characterised by sulphide mineralisation as disseminated nodes, small patches, infill in fractures and within stockwork quartz veins. The mineralisation within the stockwork is mainly pyrite-marcasite-chalcopyrite + bornite + covellite + hematite + magnetite. The veins and veinlets have been classified into the following types:

- Type A: Early veinlets, millimetre to centimetre-wide, containing magnetite-specular hematite-chalcopyrite-bornite-pyrite.
- Type B: Intermediate-age, millimetre to centimetre wide, containing quartz-magnetite-specular hematite-chalcopyrite.
- Type D: Late veinlets, centimetre to tens of centimetre-wide, containing quartz-pyrite-chalcopyrite.
- Type M: Late magnetite-rich veins and veinlets clearly identified by their cross-cutting relationships with younger veining.

Two low-grade or barren zones are present within the deposit. The “NE Barren Core” is located in the north-eastern quarter of the deposit and is irregular in shape, encompassing approximately 50,000 m² (5ha) at the surface. The NE Barren Core is characterised by plagioclase-biotite ± quartz porphyry with large euhedral biotite and plagioclase phenocrysts in an aphanitic matrix. The porphyry has been subjected to argillic alteration of the plagioclase phenocrysts. Rare quartz veinlets contain minor pyrite and traces of chalcopyrite.

Deeper drillhole intercepts around the NE Barren Core show weak secondary biotite alteration and incipient to moderate K-feldspar flooding, and discontinuous quartz veinlets containing weak pyrite-chalcopyrite ± specularite mineralisation. The contact relationship with the surrounding stockwork-veined and mineralised porphyry has not been demonstrated.

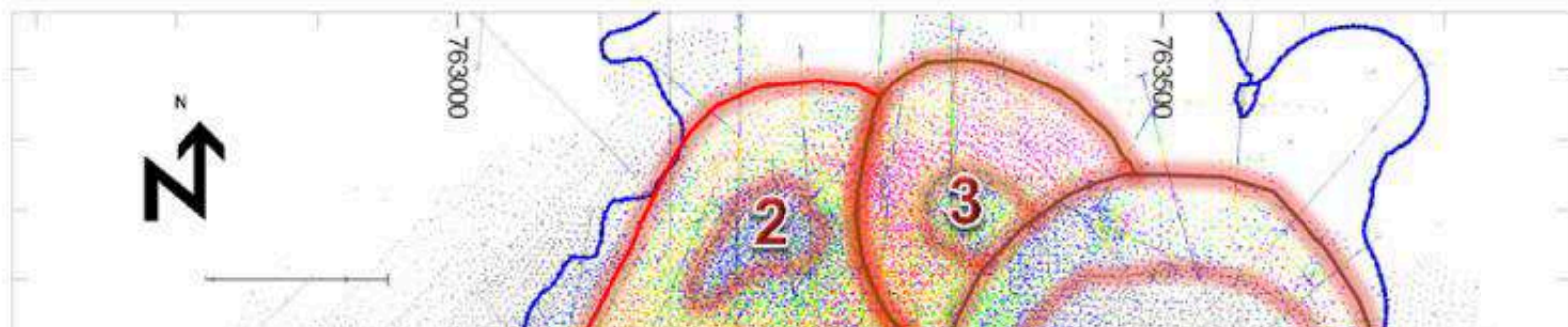
The “SW Barren Core” is in the southwestern portion of the deposit. It is entirely enclosed by the mineralised annulus and encompasses an area approximately 200 m long in a north-south direction and 50-100 m wide in an east-west direction. The SW Barren Core is characterised in part by strongly altered intrusive diorite with strong quartz-pyrite veining and in part by the presence of plagioclase-biotite ± quartz porphyry similar in appearance to the weakly altered porphyry present in the NE Barren Core. No copper or gold mineralisation is present within the SW Barren Core except for a small high-grade zone at approximately 225 m depth in the central part of the barren zone. Hydrothermal breccias

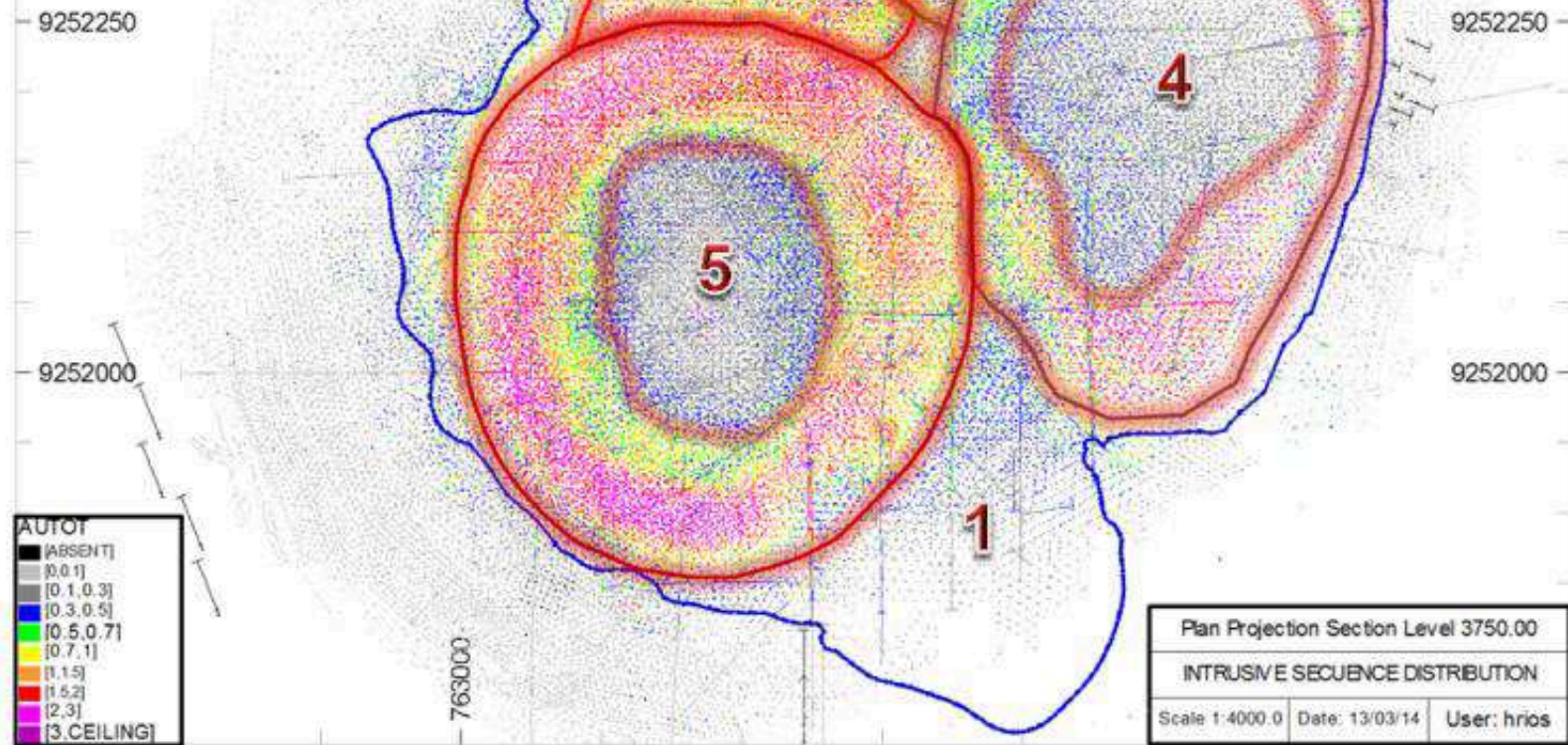
with quartz-pyrite dominant matrices have been identified in drill core near the inferred limits of the SW Barren Core but the precise contact relationship has not been established.

The interpreted sequence of intrusions based on field mapping and extensive blast hole logging and sampling is shown in Figure 6.3.1. The Cerro Corona intrusive complex is defined by at least four mineralised intrusive pulses preceded by a former dry intrusion (intrusion 1 in Figure 6.3.1: Sequence of intrusions by mineralised halo interpretation). The first (barren) intrusion acted as a sealing layer for the surrounding sedimentary rocks, yielding only marbleisation and at the same time preventing later mineralising fluids from penetrating the limestones to generate skarn. The pulses have very diffuse contacts between them with subsequent alteration making it difficult to differentiate boundaries in the mapping process. Nevertheless, a previously executed petrographic study on 30 samples well distributed in the mine did not find significant differences between them. This supports the idea that all intrusions came from a single magma chamber with slight differences due to magmatic differentiation.



Figure 6.3.1: Sequence of intrusions by mineralised halo interpretation





Source: Cerro Corona CPR, 2023

The footprint of metal distribution is in the outer portion of each intrusion and the most recent and best preserved is pulse 5 in the southwest of the deposit. Pulse 5 cross-cuts all the former ones (Figure 6.3.1). All pulses are intensively mineralised on their external crust preserving a barren or lower grade core in the central portion. The annular shape of the mineralisation distributed in the outer part of the intrusive bodies results from violent quenching of the external halo during rapid magma ascent to the surface. This causes intense fracturing and dilational intrusions at the contact zone, creating permeability and then allowing the flow of hydrothermal fluids responsible for the alteration and hypogene mineralisation throughout the shattered portion of the rock (outer halos). Cores remained barren or at most poorly mineralised except for rare structures which allowed the flow of alteration and mineralising fluids to the inner part of the pulses without significant extension and economic potential.

Although structural activity has played a key role by preparing the geological setting prior to ore emplacement allowing porphyritic intrusions and subsequent hydrothermal flow, surface mapping shows that there is no significant movement or disruption of the orebodies caused by fault displacement. Figure 6.3.1 shows that the orebodies are not disrupted by faulting but are truncated by each other.



7 Exploration

7.1 Exploration at Cerro Corona

Exploration at Cerro Corona in 2021 was focused on investigation low resistivity geophysical anomalies located on the southwest wall of the pit at the contact between the porphyry and the host calcareous sequences of the lower Yumagual-Pariatambo. In 2022, 16 Diamond drillholes were drilled to test geological continuity and increase knowledge on structural complexity on West and North pit areas. In 2023, 23 diamond drill holes were drilled with a total of 2,894.60 meters, based on the information collected from historical drilling, there was a need to develop a geological and geotechnical drilling campaign to evaluate the stability of the pit footprint on the east wall and geologically drill the eastern area of the pit where there is a high grade, which can provide an opportunity to increase the scope of the mineral envelopes

7.2 Drilling

7.2.1 Type and extent

Most of the resource definition drilling was carried out by Barrick Gold (1994) and GFLC from 2010 (Table 7.2.1). The majority of deep drilling into the hypogene mineralisation utilised diamond core (DD).

In 2012, GFLC drilled 6,713 m to define mineralisation below the final pit design as it was defined at the time. A further 1,524 m was drilled for hydrogeological investigations. In 2013, GFLC drilled an additional 1,456 m for hydrogeological and construction investigations and a further 2,572 m in 2014 for geological and geotechnical purposes. A total of 2,858 m of drilling was completed in late 2015 and 2016 to improve confidence in the modelled metal distribution definition of mineralised bodies. The 2017 drilling program totalling 2,042 m was focused mainly on geotechnical and hydrological investigations. The 2018 campaign included 4,246 m and in 2019 a total of 10,595 m of drilling was completed in two phases. The 2020 drilling campaign was curtailed due to COVID-19 pandemic restrictions.

During 2021 GFLC drilled 8,005 m in two phases to cover three objectives: the first to confirm the projection of arsenic-rich structures at depth in the western sector of the porphyry, the second to obtain additional geotechnical information and the third primarily for exploration, testing resistivity anomalies at depth and confirming skarn mineralization at the contact between porphyry and limestone sequences in southwest. In 2022 a total of 3,750 m was drilled to obtain additional geological and geotechnical information within the pit. In 2023 a total of 2,895m was drilled in focus to evaluate the stability of the pit footprint on the east wall.

Table 7.2.1: Historical drilling by type and company

Year	Company	Hole type	Angle	# holes	Length (m)
1993	SMC	DDH	VERT	9	2,227.50
1994	Barrick	DDH	ANG	59	17,488.01
	Barrick	DDH	VERT	59	17,765.97
	Barrick	RCD	ANG	13	870.21
	Barrick	RCD	VERT	127	8,606.07
	Barrick	RCD	VERT	4	141.35
1997	RGC	DDH	ANG	6	2,760.30
2000	Minproc	DDH	ANG	1	115.00
	Minproc	DDH	VERT	8	709.80
	SMC	RCD	VERT	6	1,184.00
2003	Gold Fields	DDH	ANG	1	120.25

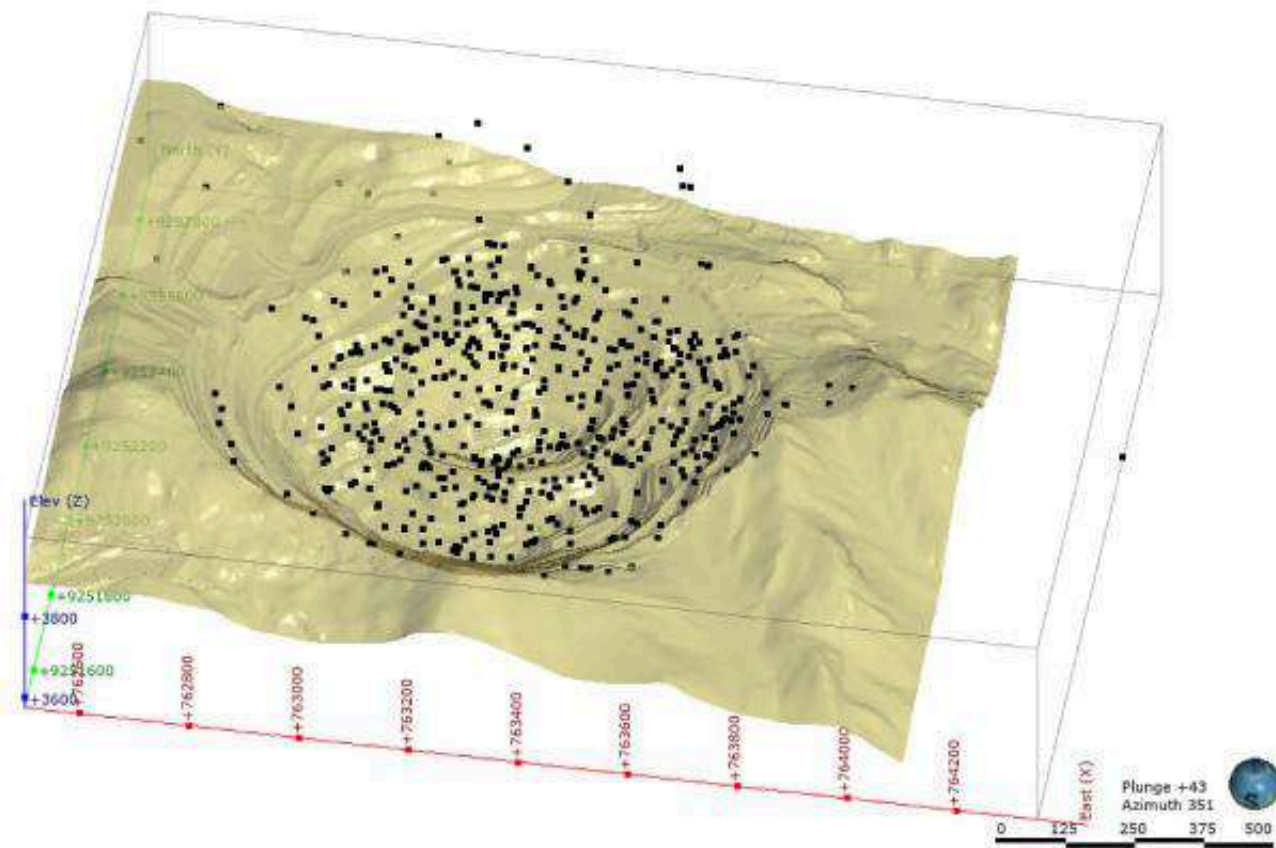
	Gold Fields	DDH	VERT	3	380.00
2005	Gold Fields	DDH	VERT	5	1,128.00
	Gold Fields	RCD	VERT	17	3,420.00
2006	Gold Fields	DDH	VERT	3	638.00
2007	Gold Fields	DDH	ANG	8	834.23
	Gold Fields	RCD	VERT	4	842.00
2009	Gold Fields	RCD	ANG	2	60.00
	Gold Fields	RCD	VERT	53	1,589.00
2010	Gold Fields	DDH	ANG	39	5,917.55
	Gold Fields	RCD	VERT	2	406.00
2011	Gold Fields	DDH	ANG	12	2,626.40
	Gold Fields	DDH	ANG	8	1,498.95
	Gold Fields	DDH	VERT	3	520.00
	Gold Fields	DDH	VERT	31	7,950.34
2012	Gold Fields	DDH	ANG	6	6,712.75
	Gold Fields	RCD	VERT	7	1,524.00
2013	Gold Fields	DDH	ANG	2	400.30
	Gold Fields	RCD	VERT	5	814.00
	Gold Fields	RCD	ANG	7	242.00
2014	Gold Fields	DDH	ANG	17	2,182.00
	Gold Fields	DDH	VERT	6	390.00
2015	Gold Fields	DDH	ANG	2	250.00

	Gold Fields	DDH	VERT	2	250.00
	Gold Fields	RCD	VERT	3	811.00
2016	Gold Fields	DDH	ANG	10	1,547.40
2017	Gold Fields	DDH	ANG	11	2,042.30
2018	Gold Fields	DDH	ANG	17	4,245.50
2019	Gold Fields	DDH	ANG	23	10,595.30
2021-1	Gold Fields	DDH	ANG	16	3,797
2021-2	Gold Fields	DDH	ANG	18	4,207.60
2022	Gold Fields	DDH	ANG	17	3,750.00
2023	Gold Fields	DDH	ANG	25	2,894.6
					126,204.68

Source: Cerro Corona CPR, 2023



Figure 7.2.1: Cerro Corona drillhole collars



Source: Cerro Corona CPR, 2023

DD and reverse circulation (RC) drilling were used for exploration and infill drilling. Conventional blast hole (BH) drilling has been used for production blast holes and to generate information for short term dynamic models. Blast hole drilling has not been used for resource grade estimation.

Vertical and angled DD drilling was used in the exploratory stages to obtain accurate geological information and in infill drilling campaigns for geotechnical or structural information, including the orientation of structures.

PQ diameter core was obtained at the start of drillholes or where a larger sample was needed (e.g., for geometallurgical testwork). HQ was the most common hole diameter with NQ mainly restricted to deep holes.

RC drilling was typically used where the geology had already been assessed by previous DD drilling to increase data density for grade and metallurgical parameters. RC holes were drilled vertically at a 4.5 inch diameter.

Exploration and resource drilling is not carried out on a regular grid but can be regarded as being nominally on a 35 m to 45 m spacing. Collar locations are shown in Figure 7.2.1. The BH drilling is on a 6 m by 5 m pattern.

In the opinion of the Qualified person:

- a) All procedures and parameters applied to the surveys and investigations are appropriate for the style of mineralisation being prospected.
- b) The exploration programs have confirmed continuity of geology and controls on gold mineralisation in key areas.
- c) Based on the results of the 2023 exploration campaign a 2024 exploration budget has been approved.
- d) Individual drill results are not presented in this document but are included in the models supporting the Mineral resources and reserves.

7.2.2 Procedures

For all drilling conducted by GFLC, DD core and RC chips are logged for lithology, alteration, mineralisation and geotechnical parameters at the drill rig. After field logging the drill core is transported to the core shed where a team of geologists complete detailed logging using the Cerro Corona digital logging system (Geospark®). Dedicated geotechnical staff complete detailed geotechnical logging.



DD core recovery is usually around 99 %, except where there are open fractures, cavities or clayey horizons. RC sample recovery is assessed as high.

For DD holes, the core is split with one half of the core collected for assaying and the other half stored as an archive sample. Splitting is carried out using a diamond saw with the cut made perpendicular to the orientation of main structures. Sampling is commonly at 2 m lengths but may vary between a minimum of 1 m and maximum of 3 m to honour geological variability.

For RC holes, the drill rig uses a cyclone and splitter for sampling. Samples are taken at 2 m intervals with the drill cuttings (chips) split at the cyclone to obtain a 5-8 kg samples that are sent to the analytical laboratory.

All BHs are logged and sampled in a single composite sample from the cone around the collar of the hole. The sample is collected by channelling perpendicular to the cone using hand shovels from opposite sides. Where required, a duplicate sample is taken from channels along the opposing direction. In both cases, samples must have a minimum weight of 5 kg representing about 0.6 % of the primary sample.

DD half core and RC pulps and rejects are stored in the Cerro Corona core shed located at Cajamarca, where the sawing, sampling and logging is also conducted. In the case of the BHs, rejects are retained for around three months in a temporary warehouse on-site.

Prior to drilling the DD and RC drill rigs are aligned to the planned azimuth and inclination of the hole. After a hole is completed, a downhole gyroscopic survey is carried out to measure deflection. Drillhole deviations are targeted to be below 0.12 °/m in azimuth and below 0.06 °/m in dip.

Drillholes for hydrogeological investigation are not surveyed as they are all vertical. Downhole surveys are also not performed on production blast holes as the holes are vertical and typically drilled to 10 m to 20 m depth.

7.2.3 Results

In the opinion of the Qualified person:

- a) The drillhole surveys are adequate by type and length for the intended purpose.
- b) Utilising orientated core significantly enhances recorded information to assist with 3D modelling.
- c) The drillhole database and subsequent modelling aligns to core recovery losses and should not cause material errors.
- d) Post QA/QC screening and validation, exploration results are incorporated into the estimation of Mineral resources; the categorisation of Mineral resources is described in Chapter 11.
- e) Validated exploration results are used in the Mineral resource estimation.
- f) Individual exploration drillhole information is not viewed as significant or material to the Mineral resource and Mineral reserve reporting at Cerro Corona and consequently exploration data is not presented in its entirety.
- g) All exploration activities, including drilling, database management, validation and QA/QC, prior to incorporating relevant data into the resource modelling and estimation process, is viewed as sufficient, appropriate, technically assured and suitable to support Mineral resource estimates.
- h) All drilling and exploration field activities are supervised to ensure health and safety and maintain appropriate

technical standards.

- i) Gold Fields do not report individual drilling results, however, the drilling will be used for mineral resource modeling

7.3 Hydrogeology

Base-line hydrogeological studies have been carried out before and during the Cerro Corona operation to support mine drainage models and to maintain adequate operational conditions and the control of the phreatic surface. Simulation



models allow prediction of drainage volumes and pore pressures on the slopes and analyse the influence of mining drainage to establish the water impact and the area of influence.

At Cerro Corona hydrological studies have been carried out by:

- Knight Piésold developed the EIA in 2005, which presents compiled data on hydraulic conductivity and storage coefficients obtained from cased and uncased boreholes and wells.
- WMC completed 3 reports in 2006 characterising the hydrological, hydrogeological and hydrochemical baseline for mining planning. These included drilling piezometers and production wells as well as analysis of pumping tests to characterise supply to the camp and to design the pit drainage system.

During the operational stage since 2008, ongoing hydrogeological investigations have been carried out to gather additional data on the subsoil to reduce the uncertainty in the conceptual hydrogeological model, supporting environmental instruments and operational projects as well as to predict the response of the system to the operation and the future needs of the main facilities.

Additionally, between 2017 and 2019, further studies were carried out to evaluate the hydrogeological containment level for the in-pit TSF Project. These include the drilling and installation of additional piezometers, geophysical

surveys, identification and mapping of karst forms, tracer tests and groundwater quality sampling.

Current hydrogeological studies at Cerro Corona have allowed an update of the conceptual model and numerical modelling of flow and transport during operations supporting the expansion of operations to 2030, with the collection of low-grade material until 2025 and the use of the pit for the storage of tailings from 2026. This describes the functioning of the system both under natural conditions and during operation. The model also evaluates the influence of mining on the hydrogeological system, including the main components of the pit, WSF and TSF. This is supported by the hydrogeological data accumulated over time and the combined interpretation of geology data, spring inventory, inventory of karst forms, piezometry data, groundwater hydrochemistry supporting a robust model.

An update of the hydrogeological conceptual model and hydraulic containment level of the in-pit TSF commenced in 2022 considering the updates of the pit design and new geological models. Engineering of the in-pit TSF is also being reviewed in light of these changes. These studies were concluded in 2023.

A drilling campaign was carried out in the pit during 2023 to enhance pit dewatering and pit slope stability. This drilling campaign comprised 4 pumping wells of 250-300 meters; 3 monitoring piezometers of 250 -300 meters and 10 horizontal drains of 100 - 250 meters. All pumping wells reached around 15 - 19 l/s and they are currently reporting 11 l/s. The 2022 horizontal drains reached 30 l/s and they are currently reporting around 8 l/s; in 2023, horizontal drains reached 18 l/s, currently they report around 5 l/s as independent hydrogeological compartments are depressurised.

The Cerro Corona Hydrogeological System (CCHS) comprises five hydrogeological units characterised by lithology, ability to allow storage and flow of groundwater, hydraulic parameters from tests in the saturated zone and degree of karstification and/or cracking.

The flow in the deep hydrogeological system corresponds to a local and three-dimensional flow in a carbonate and intrusive-volcanic fractured massif, with low permeability and productivity. The flow is controlled by faults. The underground flow in the carbonate massif occurs both towards the Tingo and towards the Hualgayoc rivers, from the hydrogeological divide corresponding to the topographic divide in the Las Gordas, Candela, Coimolache and La Peña de Las Águilas hills.

The main hydraulic characteristics were obtained in the saturated zone based on airlift, lugeon, lefranc, pumping tests and recovery. The resulting hydraulic conductivity values are generally low, reflecting variability associated with the fracturing of the units and their hydraulic opening, partial or total closure or filling with clays.

The hydrogeological units defined at Cerro Corona are provided below.

H.U. 1: Limestone massif - permeable due to cracking and / or karstification

This unit comprises the upper, medium limestone and medium marly-limestone members of the Yumagual Formation. This massif is strongly fissured on the surface with abundant karst forms, particularly in the upper Yumagual, many of which developed along geological structures. This permeable surface unit comprises an epikarst that locally reaches 80 m in depth.

The average Yumagual unit exhibits representative hydraulic conductivity values in the range from $6.93e^{-07}$ to $6.93e^{-04}$ cm/s, while the upper Yumagual unit presents hydraulic conductivity values in the range from $8.26e^{-06}$ to $4.54e^{-04}$ cm/s.

The main aquifer around the Cerro Corona pit is developed in this unit, comprising limestone strata with alternations of marly limestone or marl limestone which results in a multilayered aquifer up to 450 m thick. The development of cracking and karstification results in secondary permeability with anisotropic behaviour and vertical flow conditioning.

H.U. 2: Low productivity cracking permeable limestone massif

This unit comprises the limestones and bituminous shales of the Pariatambo Formation of Lower Cretaceous age which is characterised by low secondary permeability with representative hydraulic conductivity values in the range of $6.78e^{-06}$ and $2.87e^{-04}$ cm/s. The unit comprises a permeable surface strip with some exokarst forms being observed, indicating a weak karstification process.

The low permeability of the unit limits its storage capacity and some springs have a low flow of less than 1 L/s. In addition, the alternation of levels with relative greater or lesser permeability, generate the pressurisation of the water at certain levels providing a three-dimensional behaviour of the flow.

H.U. 3: Low permeability fissured igneous solid

This unit comprises the various intrusive and volcanic bodies of Miocene age and includes the mineralised porphyry of Cerro Corona. The unit is characterised by low secondary permeability with representative hydraulic conductivity values in the range of $2.56e^{-07}$ to $4.81e^{-04}$ cm/s and minimum values of $1.00e^{-08}$ cm/s.

Within the Cerro Corona intrusive, the main structures have low permeability due to clay fillings and/or fine matrix breccia and a reduced storage capacity. The drainage wells in the pit show low productivity with average flows usually below 1.5 L/s.

The Cerro Corona intrusive also exhibits an irregular halo of contact metamorphism with rocks such as marble, skarns and calc-silicate rocks that also exhibit low secondary permeability.

H.U. 4: Low permeability carbonate solid

This group includes formations that have a greater proportion of marl or marly-limestone strata within the limestone stratigraphy, such as the middle marly and lower members of the Yumagual Formation and the Chulec Formation. They are characterised by low secondary permeability, with representative hydraulic conductivity values in the range of $1.53e^{-05}$ to $8.59e^{-04}$ cm/s, and minimum values of $2.63e^{-07}$ cm/s.

The intercalation of marl strata with less permeability acts as an aquitard within the limestone massif and restricts the vertical flow and the recharge. Larger structures can however provide vertical connection between permeable levels. The springs associated with these units comprise flows of less than 0.1 L/s.

The base of the deep hydrogeological system developed in the limestones corresponds to the Chulec Formation, due to the alternation of loamy limestone and shale which acts as aquitard.

This unit comprises the Quaternary alluvial, fluvio-alluvial and colluvial deposits which are developed in the bottom of the valleys of the Hualgayoc and Tingo Rivers. Their primary permeability depends on the content of fine particles such as silt and clay and are generally moderate to low with low productivity. Representative hydraulic conductivity values are in the range of $5.07e^{-04}$ to $4.58e^{-02}$ cm/s.

In the opinion of the Qualified person:

- a) Cerro Corona has appropriate hydrological and hydrogeological studies conducted at all relevant sites.
- b) Hydrology and hydrogeology is not viewed as presenting a material risk to Cerro Corona or the Mineral resource and Mineral reserve estimates.
- c) Placement and storage of in-pit tailings is considered hydrologically and hydrogeologically viable.

7.4 Geotechnical

A comprehensive geotechnical study of the Cerro Corona pit has been developed, with the purpose of characterizing and determining the geomechanical properties of the rock mass. This includes geotechnical logging of diamond drill cores and mapping of exposed surfaces (bench mapping). Geotechnical wells are planned mainly in the transition zones; contact zones between the intrusive and the host rock, with the purpose of intercepting main structures and contact zones (hard rock and weak rock) that could have detrimental effects on the stability of the slope.

Sampling campaigns have also been developed for various geotechnical tests, mainly uniaxial compression strength (UCS), triaxial compression strength and elastic properties, carried out in accordance with the mine's sampling protocols in the slope management plan. The results are used to assess the geomechanical properties of the rock mass.

The key assumptions for the rock mass properties are stated below:

1. The uniaxial compressive strength values are the 25th percentile values.
2. The adopted m_i values are the 25th percentile values.
3. Rock mass properties were estimated using the Hoek Brown failure criteria.
4. To determine cohesion and frictional angles for two intervals of confining stress, a bilinear Mohr-Coulomb envelop was fitted on a nonlinear Hoek-Brown curve.

In the opinion of the Qualified person

- a) Cerro Corona has completed all appropriate testing supporting the current life-of-mine reserve and continues to test all new significant discoveries.

- b) Geotechnical domains and lithologies are based on core logging and modelled by the Geology department.
- c) Sample testing is adequate for the purposes of this report.
- d) The quality of the sampling and laboratory testing is adequate to support the Mineral resource and Mineral reserve estimates.

7.5 Density

Density data was initially collected by Barrick Gold and continued by GFLC. In 2008, GFLC developed a density sampling program from the available historical drill core. These samples were tested by the wax method at the Cerro Corona geotechnical laboratory. From 2013, the samples were tested by SGS (formerly Société Générale de Surveillance (French for General Society of Surveillance) (SGS) by the wax method.



Table 7.5.1: Density sample history (wax)

Company	Year	No. samples
Barrick	1996-1997	245
GFLC	2008	2,475
GFLC	2013 -2014	1,912
GFLC	2015	777
GFLC	2016	556

GFLC	2017	776
GFLC	2018	48
GFLC	2019	234
GFLC	2021	674
GFLC	2022	285
GFLC	2023	174
Total		8,156

Source: Cerro Corona CPR, 2023

The Qualified person considers that the quantity of samples is representative of the proposed open pit shell.

Currently, half HQ drill core is sampled every 10 m (pit bench height) for testing using the paraffin wax coat method. Approximately 10 cm to 15 cm length pieces are weighed and dried, with the dried weight used to calculate the natural moisture content of each sample. The half core is then coated with paraffin wax and weighed again to determine the weight of the paraffin wax (the density of the wax is known). The sample is weighed again while suspended in water.

The paraffin wax coat method is a widely used method for density measurement in resource and reserve assessments; however, joints and other open spaces in the rock mass are not fully represented in the core samples.

In the opinion of the Qualified person, the bulk density testing is adequate for the intended purpose and the tonnage estimation based on the bulk densities appear to have little bias.



8 Sample preparation, analyses and security

The primary laboratory used for both DD and RC sample analysis is SGS Lima, which maintains a NTP-ISO/IEC 17025:2017 certification.

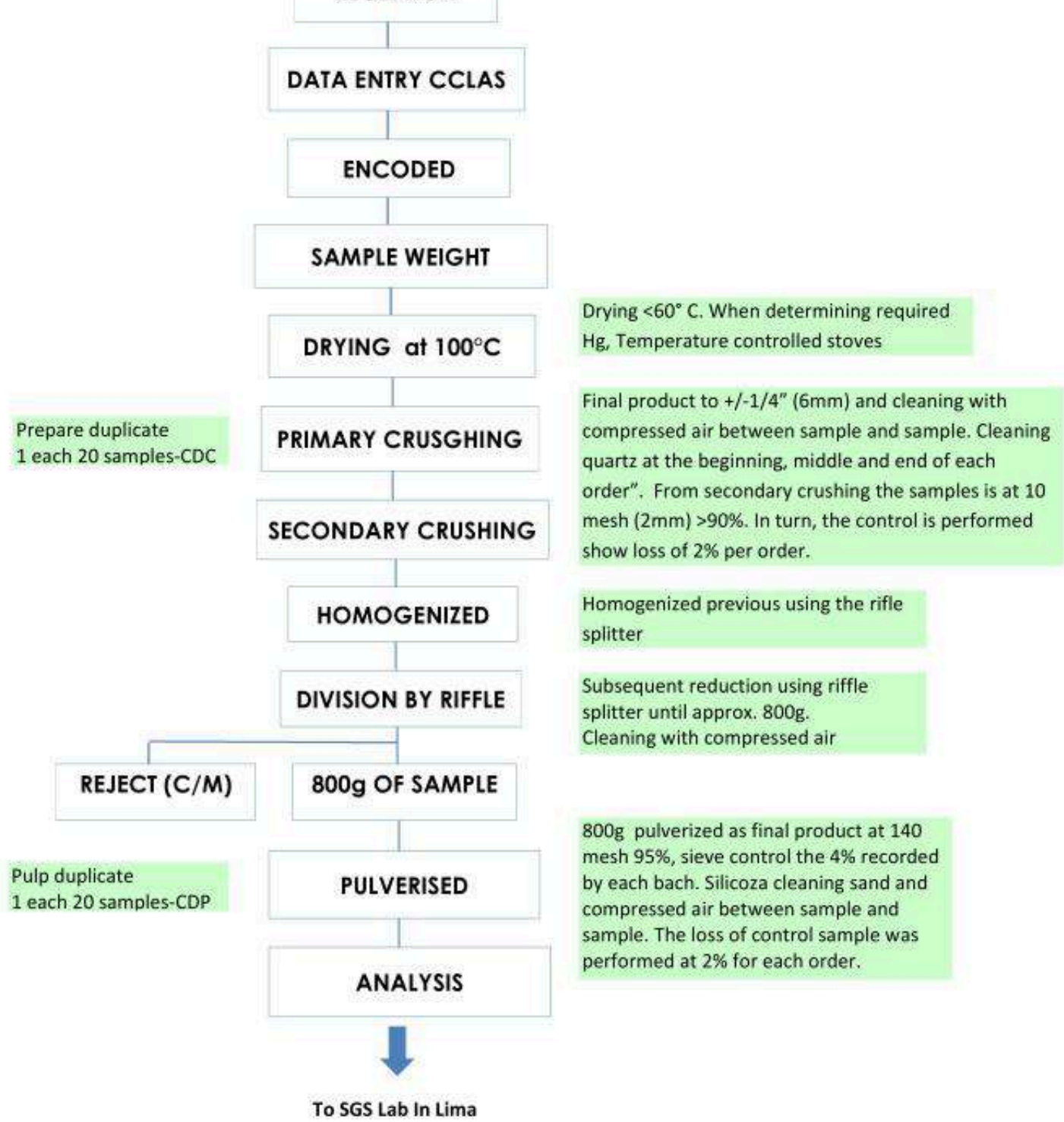
8.1 Sample preparation

Once bagged on-site, each sample is tagged with a unique code which is used to identify the sample in the database and through the samples preparation and analytical process. Samples are packed into batches and registered in the database, following which the database administrator generates an order to send with the batch to the laboratory with a list of samples included and the assay methods to be applied for each sample. Each batch is sent with a chain of custody by the logistics department, which ensures the batches arrive at the laboratory.

The sample preparation procedure for DD and RC samples follows the flow chart presented in Figure 8.1.1.

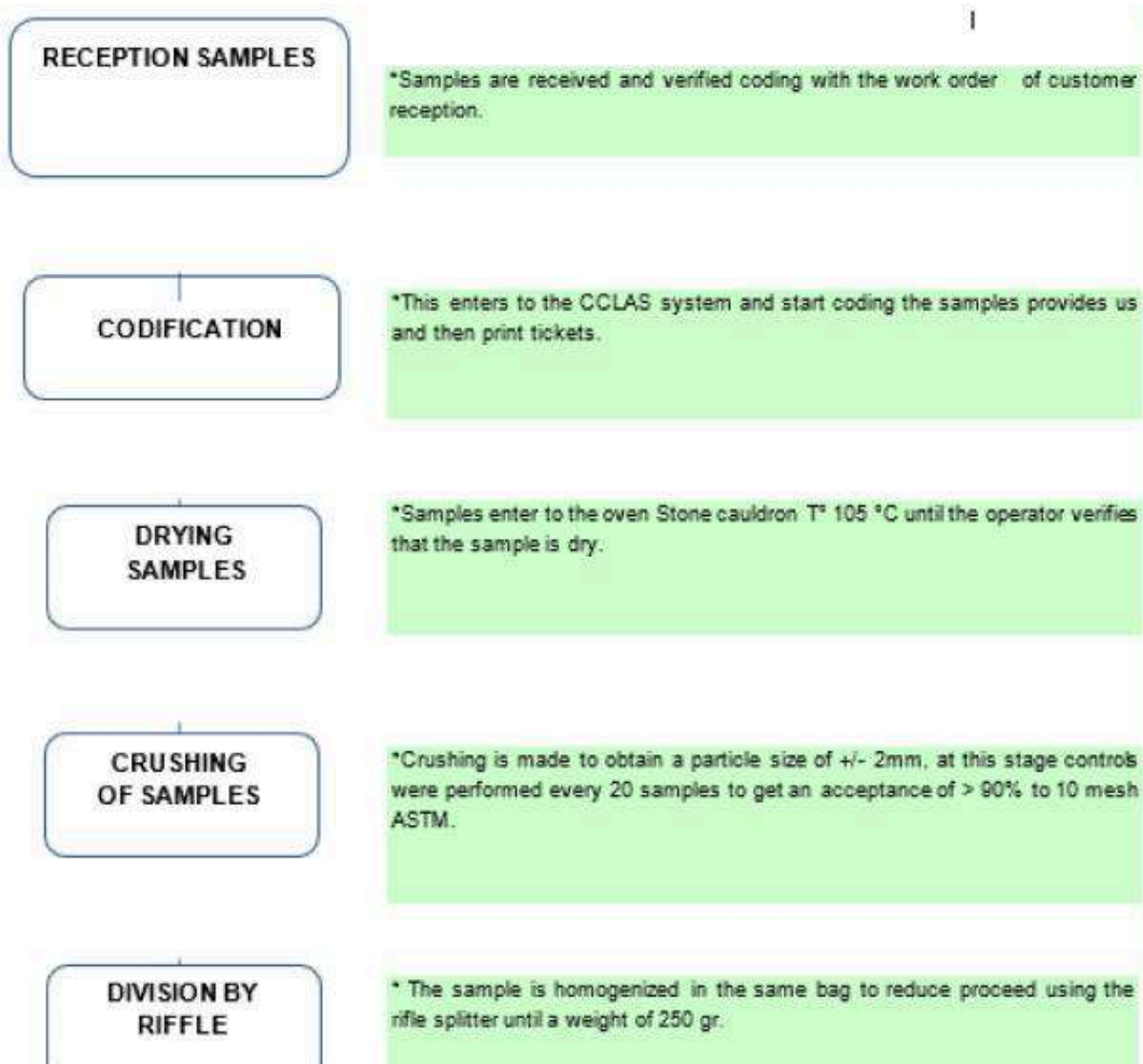
Figure 8.1.1: DD and RC sample preparation flow chart

RECEPTION



The BH sample preparation procedure is summarised in Figure 8.1.2.

Figure 8.1.2: BH sample preparation flow chart



**PULVERIZED OF
SAMPLES**

*The pulverized is made to obtain a fine sample, at this stage controls were performed every 20 samples to get an acceptance of > 95% to 140 mesh ASTM

**SENDING OF
SAMPLES TO
ANALYSIS**

*Coded samples in boxes analysts to proceed to the analyst are finale delivered.

Source: Cerro Corona CPR, 2023

A portion of each RC and DD pulp sample as required by each process is analysed by the methods detailed in Table 8.2.1.

Table 8.2.1: Cerro Corona exploration sample analysis

Variable	Scheme	Unit	Detection limit
Au*	FAA515	ppm	0.005
Cu	AAS41B	%	0.001
CU_SS	AAS73B	%	0.001
Cu_CN	AAS73B	%	0.001
CU_R	AAS73B	%	0.001
As	ICP40B	ppm	3
Cu	ICP40B	ppm	0.5
Fe	ICP40B	%	0.01
S	ICP40B	%	0.01
S_Total	CSA24V	%	0.01
Sample Weight	PMI_CH	g	0.01
P_MEN10	PMI_M10	%	90
P_MEN140	PMI_M140	%	95

Note: * Assays with >5 ppm Au have a gravimetric finish.

Source: Cerro Corona CPR, 2023

The primary laboratory used for BH sample analysis is the Cerro Corona facility managed on behalf of GFLC by SGS. All grade control BHs are analysed for gold, copper, total sulphur, arsenic, iron and oxide copper by the methods summarised in Table 8.2.2.

Table 8.2.2: Cerro Corona grade control sample analysis

Type	Method	Unit	Detection limit
Sample Weight	PMI_CH	g	5
P_MEN10	PMI_M10	%	90
P_MEN140	PMI_M140	%	95
Au*	FAA515	g/t	0.02

Au	AAS41B	g/t	0.02
Cu	AAS41B	%	0.003
Fe	AAS41B	%	0.3
S_Total	CSA24V	%	0.06
As	AAS12CP	ppm	25
CuOx	CAA00C	%	0.005
Cu	ICP21D	%	0.0003
Fe	ICP21D	%	0.0016
S_Total	ICP21D	%	0.06
As	ICP21D	ppm	3.536
Ag	ICP21D	ppm	0.223
Moisture	MN_HUM	%	0.3



Note: * Assays with >5 ppm Au have a gravimetric finish.

Source: Cerro Corona CPR, 2023

The Qualified person has reviewed the certificates and is of the opinion that the analytical laboratories are certificated and have effective process and protocol in place to ensure quality control and assurance and minimise any material errors.

8.3 Quality control and quality assurance (QA/QC)

All sample batches sent to the laboratory include a percentage of QA/QC control samples (approximately 5 %)

comprising duplicate samples, standards, blanks, and cross check samples. Exploration and grade control data and the associated QA/QC data are managed through the DataShed® software system.

Table 8.3.1 details the number of samples submitted to the laboratory from the 2023 infill drilling campaign and the percentage of QA/QC samples.

Table 8.3.1: QA/QC insertion rate for 2021-2022-2023 infill drilling

Sample type	Samples	Controls
	(count)	(%)
Total original samples	1,380	
Standards	53	3%
Coarse blanks	54	3%
Field duplicates	36	2%
External Pulps	76	5%
Total sent to laboratory	1,599	14%

Source: Cerro Corona CPR, 2023

In the event of an assay QA/QC failure, the entire sample batch or seven samples each side of the failure are re-submitted for analysis. Failed data is stored in the database with minor priority until the data complies with the QA/QC protocols. Table 8.3.2 lists the percentage of failures by control type.

Table 8.3.2: QA/QC failure description for infill drilling 2023

Sample type	Reference	# Controls	Au failures	Au failure %	Cu failures	Cu failure %
Coarse blank	BLANK_QZ	54	1	2.0 %	0	0.0 %
STD hypogene	HYL-2020	47	6	13 %	0	0.0 %
	HYM-2017	4	0	0.0 %	0	0.0 %
	GFASL-02	2	0	0.0 %	0	0.0 %
Field duplicates	DUP	36	1	3.0 %	1	1.69 %
Ext. pulp duplicates	DUP	76	0	0.0 %	0	0.0 %

Source: Cerro Corona CPR, 2023

There was only one duplicate failure from the 2023 infill drilling campaign. Actions taken included providing feedback to the sampling technicians and laboratory personnel regarding the preparation and analysis of samples.

GFLC periodically executes audits of both on-site and external laboratories that are used either as primary or secondary labs. Resource models, including the database, QA/QC data and drilling results are reviewed by the Gold Fields Corporate Technical Services (CTS) group on an annual basis. External audits of the resource modelling and data generation process have also been performed by recognised independent specialists including Amec Foster Wheeler, Tenzing, SRK Consulting and Snowden Optiro in 2022.



Smee Consulting audited the internal and external laboratories in 2013. An audit of the site laboratory was performed in December 2015 by SRK Consulting Peru. SRK Consulting found no critical issues or fatal flaws during its audit. The last internal audit was in May 2017 and included the database, QA/QC protocols and resource modelling. The SGS Lima and on-site laboratories were audited in December 2018 by Wood and no issues were reported. Additionally, a resource audit was carried out in February of 2020 including QA/QC protocols and the SGS on-site laboratory, with no fatal flaws identified.

The Qualified person considers the sample preparation, sample analysis and quality control procedures and quality assurance actions to be adequate, conventional in methodology and representative of industry leading practice. All the procedures are appropriate to ensure the validity and integrity of the analytical results. The sample preparation and security procedures have been reviewed. The sample preparation is found to be adequate with effective supervision and in line with industry leading standards. No material bias is indicated that could potentially impact the sampling preparation and analysis.

9 Data verification

The execution of mine and regional exploration programs is completed to industry best practice and is aligned with numerous standards and procedures developed by Cerro Corona and Gold Fields over several years. The process consists of procedures, audits and sign-off documents for all key elements that input into the generation of a Mineral resource model to ensure full compliance. The key components of the geological data acquisition framework include:

- Validity – Controls to ensure the validity of key activities.
- Accuracy – Controls to establish the accuracy of data inputs and outputs.
- Completeness – Controls to ensure the completeness of the process followed.
- Timing – Preventative and detective controls to identify potential risk and deviation of quality.
- Segregation of Duties/Sign-off – Key members of the senior team are responsible for different aspects of the process.

The Qualified person is of the opinion that the data verification process and protocols are adequate to minimise any material errors, are in line with industry leading standards and underpin the technical assurance and validity of the sampling results.

9.1 Drilling and sampling

Cerro Corona has a set of procedures in place that describe and explain the standards to be maintained for the collection of sampling data. These standards include protocols for chip sampling, surface drilling and grade control sampling, which are consistent and in accordance with industry best practice, providing good control on the quality and consistency of the sampling.

Sample governance includes the following steps:

- Samples are tagged with a unique and consecutive numbers (Sample ID) which identifies the samples during the entire process.
- Samples are grouped in batches according to the furnace capacity declared by the laboratory.

- Batches are automatically registered by the Database Administrator, including QA/QC control samples, and a list is generated including the types of assays to be carried out on each batch.
- The physical document is signed by the Project Geologist responsible for each batch.
- On arrival at the laboratory, the Laboratory Supervisor receives the batches and verifies that all the samples are in optimal condition and are tagged as described in the documentation, which is then signed as a proof of acceptance.
- After testing, the assay results are sent to the Project Geologist electronically and the results are downloaded from the QLab Database system administered by SGS. Production sample assay results are sent physically.

9.2 Data management

Exploration and grade control data and associated QA/QC information are managed through DataShed[®] software, which is a front end to the SQL Database. The DataShed[®] interface includes features to assure data integrity including access permission, data quarantining and library lookup tables.

A dedicated Database Administrator assures the integrity and management of the database. This administrator is assisted by the Senior Resource Geologist and the QA/QC Geologist in the database management (data entry, validation, development and quality control for the database).

All exploration and resource development data, including grade control data, is stored in a centralised Microsoft SQL Server database.

verified in the database by GFLC using the following approaches:

- Collar surveys: planned versus executed coordinates were compared to ensure accuracy of the hole location.
- Downhole surveys: deviation was checked in terms of degrees per metre. Unacceptable measurements were given lower priority.
- Assay data: 5 % of the data was cross-checked by comparing physical laboratory certificates with database contents to ensure its integrity.
- Geological logging: historical drillholes inside the pit shell were relogged by GFLC. This relogging is yet to be completed for the holes below the pit shell.

The Qualified person's opinion of the data management is:

- a) The data management process and protocols are adequate to minimise any material errors.
- b) Regular validation of the database and data management process is aligned with standard industry practices and is monitored through the SOX risk assessment control matrix criteria.

9.3 Geological modelling

The geological modelling is based on the exploration DD and grade control RC data. Pit mapping data, most commonly in the form of survey pick-ups of geological structures and reef boundary contacts, is incorporated into the structural interpretation. The orebodies at Cerro Corona are cut by numerous faults, which generally run perpendicular to the strike and are predominantly reverse faults. Initially, zoning and structural interpretation using borehole sections extracted from the drillhole database is carried out prior to modelling of the individual reef horizons at Cerro Corona. 3D wireframe planes of the structural discontinuities (faults) are constructed during the structural interpretation and all new drillholes are zoned.

In the opinion of the Qualified person:

- a) The geological modelling protocols are adequate to minimise material errors.
- b) The controls have been reviewed and the adequacy is reasonable and material bias or errors are not expected.
- c) The systems to reduce human and procedural errors, checks and balances are adequate and minimise the potential for any material errors.
- d) The protocols are adequate as reviewed and the Mineral resource models are based on sound, verified data and the resource block models generated and provided to the planning engineers are deemed industry leading practice and appropriate for mine planning and scheduling.



10 Mineral processing and metallurgical testing

10.1 Testing and procedures

10.1.1 Background

The Cerro Corona processing facilities have been operating since 2008 following the completion of a Definitive Feasibility Study (DFS) by Minproc in 2004 and subsequent environmental regulatory permitting processes. The mining operations consists of the single Cerro Corona open pit.

Mineralisation at Cerro Corona occurs as a disseminated deposit forming some millimetric veinlets between the silica veins and veinlets that make up the stockwork in argillic alteration zones 1, 2 and 3. In the potassic alteration zones, mineralisation occurs disseminated, both in the silica veinlets and in the quartz-feldspar matrix. In the silicification or silica alteration zones, the existing mineralisation appears disseminated in millimetric veinlets and as patches.

The southwestern region of the Cerro Corona open pit contains elevated levels of arsenic mineralisation mainly in the intermediate benches of this sector and in a sector of the northern region, this arsenic mineralisation is closely associated with the copper and gold mineralisation. While this elevated arsenic material comprises a relatively limited area, its impact on flotation was unrecognised during the original feasibility studies.

In the central part of the orebody mineralisation mainly consists of chalcopyrite, bornite in silica gangue and pyrite, which comprises the hypogene or primary ore zone.

Almost all the entire remaining Mineral reserve is hypogene mineralisation. Historically mined supergene and gold-oxide stockpiles have since been processed and produced. The remaining Mineral reserve is in the form of ex-pit hypogene ores, and existing low-grade hypogene stockpiles.

The volume of remaining Cerro Corona Mineral reserves is constrained to the available remaining tailings capacity associated with:

- The existing TSF as currently designed.
- The capacity of the future in-pit TSF, that will become available once mining of the Cerro Corona pit is completed to contain tailings from processing stockpiled lower grade ores, with the containment volume limited due to existing open pit and local groundwater's hydrogeological considerations.

10.1.2 Original feasibility studies

During the original feasibility studies prior to the acquisition of Cerro Corona by Gold Fields, significant testwork was undertaken, which formed the basis of the original design of the as-built mine and process plant facility. Actual experience with the geology of the excavated mine and operation of the as-built plant has led to several key changes since the DFS, including:

- The identification of an elevated arsenic mineralisation zone.
- Some changes to the as-built plant design to reduce construction costs.
- A change to the rougher circuit flotation regime, with an increase in pH to depress pyrite, prior to concentrate regrind and cleaner flotation to reduce load on the cleaning circuit.

The copper and gold recovery estimation models used for cutoff grade Net Smelter Return (NSR) determination are

still based on those developed during the original feasibility study however, they have been factored (down) based on actual plant experience subsequently obtained. Additional recovery models have been developed in 2022 specifically for longer-term stockpiled material, based on actual plant operating experience whilst recently processing the stockpiled material.

10.1.3 Production control sampling

In advance of ore excavation, the site's geometallurgical department undertakes testwork on blast hole samples, including mineralogical analysis using an on-site QEMSCAN analyser and rougher flotation.



The result from this routine testing is used to guide short-term mine planning and mill feed blend optimisation.

10.2 Plant sampling and reconciliation

Metallurgical samples are collected by Cerro Corona personnel and since 2007 have been assayed at the on-site laboratory managed by SGS, which maintains a NTP-ISO/IEC 17025:2017 certification. SGS is completely independent of Gold Fields.

Metallurgical samples used for daily metal accounting are 12-hour shift composites. All of these are automatically sampled by Courier 6SL equipment. At the end of every shift, these samples are delivered to the on-site SGS laboratory by Cerro Corona metallurgical operators for copper, gold and iron analysis.

Other data to prepare metallurgical balance reports including processed tonnage, moisture, filtered and shipped concentrate etc. is collected from the plant's historical database (PI System) or is measured by the laboratory.

A locked and password-protected Excel spreadsheet is currently used as the official theoretical daily metal accounting report. Adjustments to the gold and iron balances are made based on the copper balance, considering the same concentration ratio for the three elements. Production accounting software from Datamine® is being tested at Cerro

Corona. All data is fed into this platform and balance reports are generated daily. Adjustments in the grades values are validated with the JKSimMet methodology to verify the results of the adjustments.

The reconciliation between these theoretical daily reports and physical production is prepared weekly. This reconciliation considers the shipped concentrate grades as the starting point and recalculates the head grades. Differences are lower than 5 % in recalculated grades. The same method is applied for the official monthly production report.

All daily reports are saved in the Metallurgy network, to which only authorised personnel have access. IT oversees periodical backups to avoid data loss.

In accordance with Gold Fields Plant Metal Accounting Standard, a gold and copper in circuit inventory is undertaken monthly to reconcile (by mass balance) the back-calculated gold and copper grades of the mill feed with the mill feed grade estimates obtained using daily plant samples and assays. The monthly variance between the assayed grade and the back-calculated grade is monitored, and an investigation is initiated if this variance exceeds the minimum allowable levels outlined in the Gold Fields Plant Metal Accounting Standard. The monthly metal reconciliation variances historically at Cerro Corona have been well within the prescribed limits for both copper and gold.

The reconciliations are based upon assuming that final flotation concentrate generated is the final metal production output.

10.3 Relevant results

10.3.1 Sample head analyses and mineralogy

Significant mineralogical and geometallurgical characterisation studies have been undertaken on Cerro Corona over the past ~15 years. A summary of the key geometallurgical domains defined and used by the mine is shown in Table 10.3.1. The qualified person is of the opinion that the test samples are representative of the various types and styles of mineralization and the mineral deposit as a whole.

Table 10.3.1: Key minerals and principal sulphide assemblages in the different alteration types

Alteration type	Key minerals	Principal sulphide assemblages	Occurrence
Silicification (SIL)	Quartz, Iron (Fe) oxides-hydroxides	Fe sulphides-chalcopyrite	As intense stockwork around barren cores
Argillic 1 (ARG1)	Quartz, kaolinite, muscovite (illite), smectite	Fe sulphides-chalcopyrite (±chalcocite+covellite)	Upper parts of the deposit
Argillic 2 (ARG2)	Quartz, feldspars, montmorillonite, kaolinite, illite, carbonates	Chalcopyrite-(Fe sulphides)	Replacing locally K alteration
Argillic 3 (ARG3)	Quartz, montmorillonite muscovite (illite), chlorite	Chalcopyrite-(Fe sulphides)	
Potassic (K)	Quartz, K-feldspar, biotite, Fe Oxides (magnetite)	Chalcopyrite-(Fe sulphides)	Abundant in deep parts, and core of the quartz-diorite stocks

Supergene enrichment (SSH, weathering facies rather than alteration)	Quartz, feldspars, kaolinite, montmorillonite	Chalcopyrite-chalcocite-covellite, (Fe sulphides)	Supergene weathering, upper part of the deposit
--	---	---	---

Source: Cerro Corona CPR, 2023

10.3.2 Metallurgical recoveries

Rougher flotation recovery testing is carried out routinely on blast hole samples, used to provide guidance for short-term ore control. The extent of metallurgical recovery testwork results available is significant, and beyond the scope of this TRS to reproduce.

For definition and assessment of the Cerro Corona Mineral reserves, there are three different sets of recovery estimation models being used:

- Pit shell and mine planning (cutoff grade and NSR determinations) recovery estimation models.
- Plant feed forecasting and financial evaluations using the blended plant recovery estimation models.
- Low-grade stockpiling recovery estimation models.

Mine planning recovery estimation models

The recovery estimation models used for the Mineral reserve pit design and mine planning (Table 10.3.2) are based on the original DFS with a factor applied to align with actual plant performance results. Relationships were developed for mixed, supergene and hypogene mineralisation but for the remaining life of the Cerro Corona operation, only the hypogene relationship is relevant.

Table 10.3.2: Mine planning recovery estimation models

Ore type	Copper DFS recovery (%)	Gold DFS recovery (%)	Adjustment factor for copper recovery	Adjustment factor for gold recovery
Mixed	$86.553 - (5.696 / (\text{Cu}^{1.5}))$	55	0.9796	0.9323
Supergene	$\text{Cu} / ((0.00993 * \text{Cu}) + 0.001785)$	$78.041 - (6.1656 * \text{Cu})$	0.9796	0.9323
Hypogene	$\text{Cu} / ((0.01082 * \text{Cu}) + 0.0001632)$	$78.041 - (6.1656 * \text{Cu})$	0.9796	0.9323

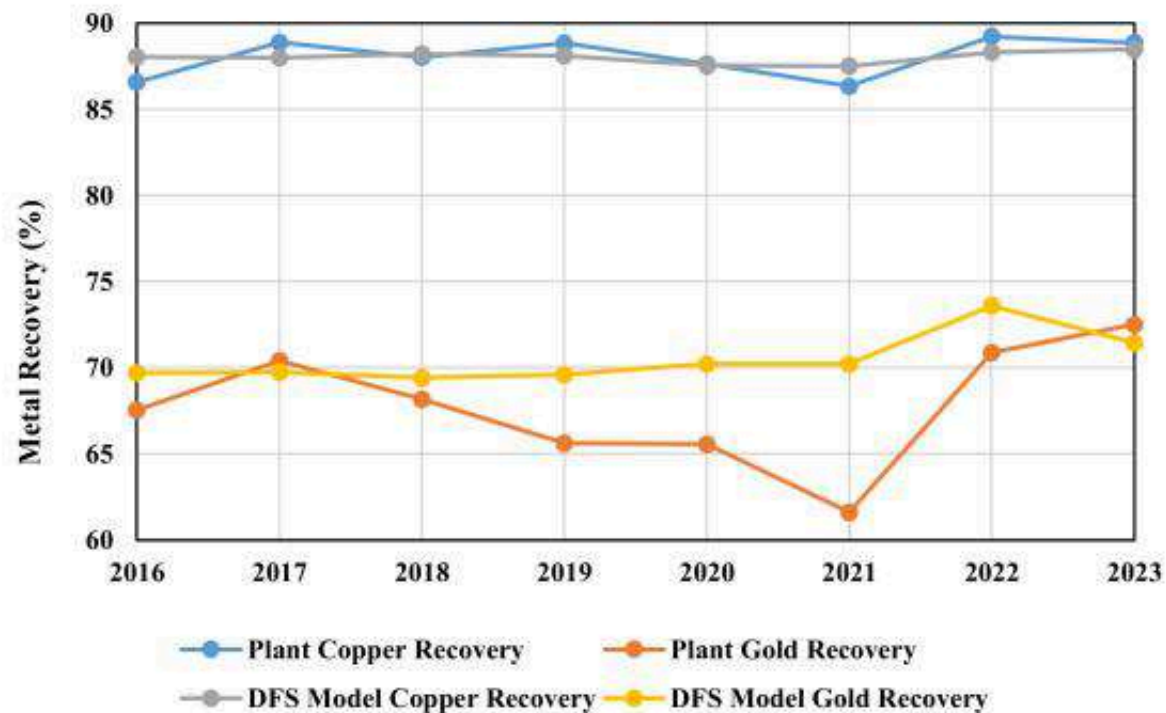
The basis for the plant design at the time the equation was developed differs significantly from the current configuration of the concentrator as summarised in Table 10.3.3, which is the key reason behind the need to apply an adjustment factor to better align the estimation model results with the plant.

Table 10.3.3: Comparison of the original DFS and current plant configuration

Parameter	DFS process design criteria	Plant average 2017/2018
Rougher flotation pH	8.5	10.8
Rougher flotation mass pull %	Up to 15 %	5.0
Rougher concentrate regrinds P ₈₀ µm	20-30	61.6

1. Source: Cerro Corona CPR, 2023

A recent comparison of the annualised mine planning recovery estimations with the plant (Figure 10.3.1) shows that model performance is reasonable for copper however, the actual plant gold recoveries were significantly lower than the model between 2019 and 2021. This reduction in plant gold recovery is due to increased blends of the high arsenic domain in the southwestern section of the open pit, which carries higher content of microcrystalline pyrite with relatively high gold association. To maintain the generation of saleable copper concentrate (i.e., minimum of approximately 20 % copper) from the plant, it is required to limit the recovery of pyrite to the final copper concentrate, hence the lower flotation gold recoveries.



Source: Cerro Corona CPR, 2023

While the factored DFS gold recovery estimation model has overestimated gold recovery compared to the plant for some periods, it is considered that the model remains applicable for mine planning purposes to all other mineralised sections of the Cerro Corona open pit where arsenic grade is, more typically, not elevated.

Notably, the factored DFS gold recovery estimation model is not used for plant forecasting and financial evaluation purposes associated with Mineral reserves determination.

Plant scheduling and financials recovery estimation models

During 2018 to 2021, the areas of mining coincided with elevated arsenic grade, and it was observed that particularly gold (and to a lesser extent copper) recoveries were adversely affected whilst processing this material. This observation led to a review of the suitability of the recovery estimation models. For this purpose, the process plant data for 520 shifts between 2016 and 2018 was reviewed by independent specialist, Brittan Process Consulting LLC and the assessment and findings described in “Modelling of 2016-18 Cerro Corona Plant Operating Data – January 9th, 2019” (Brittan, 2019).

Brittan applied multiple regression analysis techniques to the production data to develop relationships between the copper and gold recoveries, the concentrate specifications and the plant head grades for copper, gold and arsenic.

Geological models for the grade distribution within the orebody are available for these selected three species.

The database of shift data was filtered to remove shifts where less than 8,000 t were processed caused by significant plant outages. In addition, shifts with arsenic head grades measured at over 200 ppm were eliminated as they appeared to either be anomalous measurements or a separate population. The high arsenic shifts represented less than 3 % of the population.

Based on the multiple regression analyses by Brittan, the following recovery estimation relationships were developed (where Cu = copper head grade and As = arsenic head grade):

- **Cu Recovery, % = $83.6 - 0.443 \cdot [\text{As}]^{0.5} + 10.05 \cdot [\text{Cu}]^{0.5}$**
- **Au Recovery, % = $-2.59 + 0.351 \cdot [\text{Cu Recovery, \%}]^{1.2} - 0.609 \cdot [\text{As}]^{0.5}$**

These relationships are applied to the blended plant feed for the associated scheduling period.

Long-term Stockpiled low-grade recovery estimation models



The accelerated mining and stockpiling of low-grade ores is a key feature of the Mineral reserve LOM plan. These low-grade ores contain sulphide mineralisation with the potential to weather on exposure to air and moisture in the stockpiles. Some of this material could be stockpiled for over a decade. The potential impacts of weathering to the low-grade stockpiles were therefore investigated by the Cerro Corona geometallurgical team.

Weathering “barrel tests” were set up (Figure 10.3.2) to field test the potential effect of the weathering, with the leachate solution from the barrels analysed for a period of several years. The data available from these tests to develop the understanding of the rate and effect of oxidation consists of:

- Data from barrel tests established for environmental evaluations and analysed and reported in an internal memo

- Data from barrel tests established for environmental evaluations and analysed and reported in an internal memo “Weathering of mix and Hypogene material – insights from the waste rock characterisation barrel farm”, Regina Baumgartner, Gustavo Escobar, Julio Castro, 16 December 2015.
- Data from 17 samples from the low-grade stockpile taken in June 2018 and reported in an internal memo “Mineral weathering in low grade stockpile”, Cerro Corona Geometallurgy Team, 26 December 2018.
- Following analysis of the barrel results it was recommended that a 4 % reduction in the contained copper for all material reclaimed from stockpiles should be applied. For the life-of-mine physicals schedule, this reduction factor was applied to all material to be reclaimed from stockpiles and processed by the plant.

Figure 10.3.2: Environmental aging barrel tests



Source: Cerro Corona CPR, 2023

Due to mining production interruptions caused by the COVID-19 pandemic, the operation was required to process low-grade stockpiled materials during 2020 and 2021. This operating period provided an opportunity to generate actual processing information for which to use to check and improve recovery estimates for the long-term stockpiled material.

Britten Process Consulting LLC was engaged in 2022 to undertake this analysis, which consisted of multilinear

British Process Consulting LLC was engaged in 2022 to undertake this analysis, which consisted of multivariate regression modelling of Cerro Corona plant operating data covering the period January 2020 – December 2021. The data included multiple plant operating variables averaged on a daily basis. The objectives were to update copper and gold recovery models, and to assess the effects on copper and gold recoveries of processing low-grade ore stockpiles with some arsenic. These stockpiles were blended intermittently with plant feed over the period February 2020 through May 2021.

Restricting the significant variables to those logged for the Resource Model, the models developed were:



$$\text{Cu Recovery, \%} = 79.9 + 17.5*[\text{Cu}]^{0.5} - 60.0*[\text{CuOX}]/[\text{Cu}] - 0.239*[\text{As}]^{0.5} + 0.44*[\text{SMEC}] - 0.42*[\text{KAOL}] - 1.68*[\text{ILLITA}] \quad \text{R}^2 \text{ adj} = 40.9 \%$$

$$\text{Au Recovery, \%} = 41.7 + 0.00641*[\text{Cu Recovery, \%}]^2 - 1.93*[\text{As}]^{0.5} + 157*[\text{CuOX}] - 17.2*[\text{Cu}]/[\text{Au}] - 1.42*[\text{Fe}] + 0.045*[\text{As}] \quad \text{R}^2 \text{ adj} = 59.8 \%$$

The effects of processing the low-grade stockpile ore on copper and gold recoveries is summarized in the Table 10.3.4.

Copper and gold recoveries for the marginal ore stockpile with some arsenic are estimated to be nearly 4 % and 11 % lower respectively than those for regular plant feed ore. The recovery losses are considered to be due to a combination of the effect on copper flotation of the lower copper grade and the more oxidized state of the stockpile ore.

Table 10.3.4: Stockpiled materials plant data analysis summary

Period Feb 20 – May 21	Days with No Stockpile in Plant Feed*	All Days Tons > 16 k All Data	Days with Stockpile in Plant Feed	Estimate for Stockpile Ore Only**

Ave Cu	%	0.443	0.413	0.385	0.316
Ave As	ppm	47.5	81.3	88.4	104.3
CuSS/Cu		0.0367	0.0382	0.0399	0.0475
CuSS	%	0.0163	0.0158	0.0154	0.0150
Cu Recovery	%	87.4	86.1	85.7	83.6
Au Recovery	%	66.3	61.8	59.9	55.3

Notes: * Excludes stockpile day reported and following two days

** Estimated from All Days Model. Cu and As grades are inferred grades

Source: Cerro Corona CPR, 2023

These new stockpile copper and gold recovery models were subsequently applied to the operation's production plan for the period whilst low-grade stockpiled materials are planned to be processed.

During 2022 to 2023 four aging columns containing ore samples representing each of the main ore types were established, for the purpose to simulate the aging processes occurring naturally in the low grade stockpiles. Flotation tests carried out on the contents of the columns after various aging periods, confirmed a reduction in flotation kinetics and lower overall recoveries, as seen in the plant results when processing the stockpiled material in 2020 and 2021.

Testwork and studies remain ongoing with the aim to reverse the lower recoveries and improve flotation kinetics of the aged ores, ahead of the planned processing of the low grade stockpiles once mining of the open pit ores is concluded.

10.3.3 Ore hardness / mill throughput

The ore hardness and throughput geometallurgical model for Cerro Corona has evolved over the years since commissioning of the process plant in 2008.

The current, and most advanced, geometallurgical model consists of one that considers geochemistry (arsenic concentration), alteration and structural information, comprising seven domains as summarised in Table 10.3.5.

Table 10.3.5: Ore hardness geometallurgical model domains

Geomet domain number	Geomet domain name	Geometallurgical domain description	Assigned throughput (t/hr)
1	As_High_Con	High arsenic (concentrate >2000 ppm)	827
2	As_Low_Con	Low arsenic (concentrate <2000 ppm)	810
3	ARG	Argillic alteration with low arsenic	827

5	AKG	Algalic alteration with low arsenic	627
---	-----	-------------------------------------	-----

4	LIQV	Silicified alteration with low quartz veining intensity	799
5	K-LH	Potassic alteration with low strength (Praillet hardness model)	799
6	HIQV	Silicified alteration with high quartz veining intensity	830
7	K-HH	Potassic alteration with high strength (Praillet hardness model)	753

Source: Cerro Corona CPR, 2023

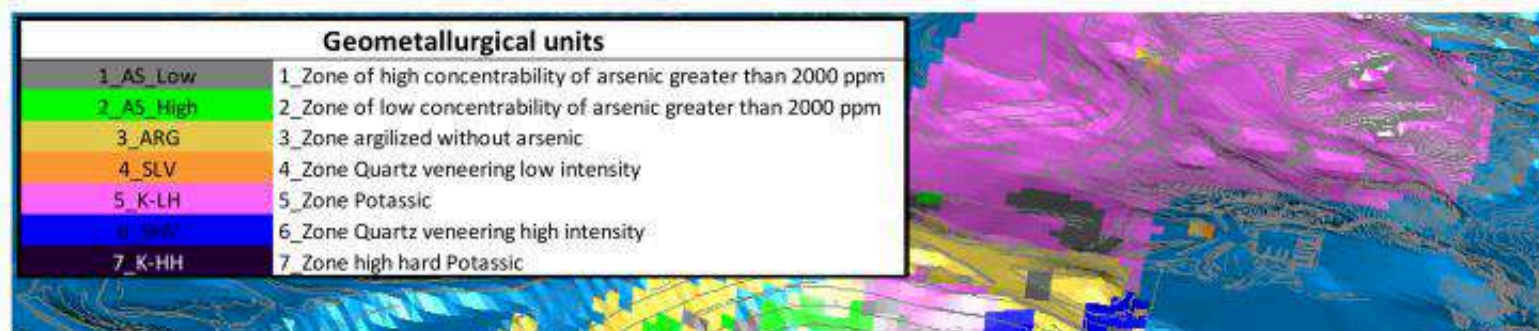
This current model was developed with the guidance of hardness test information from 80 SPI (SAG power index) tests and 524 Wi (work index) tests carried out on geological samples taken from the respective geometallurgical domains.

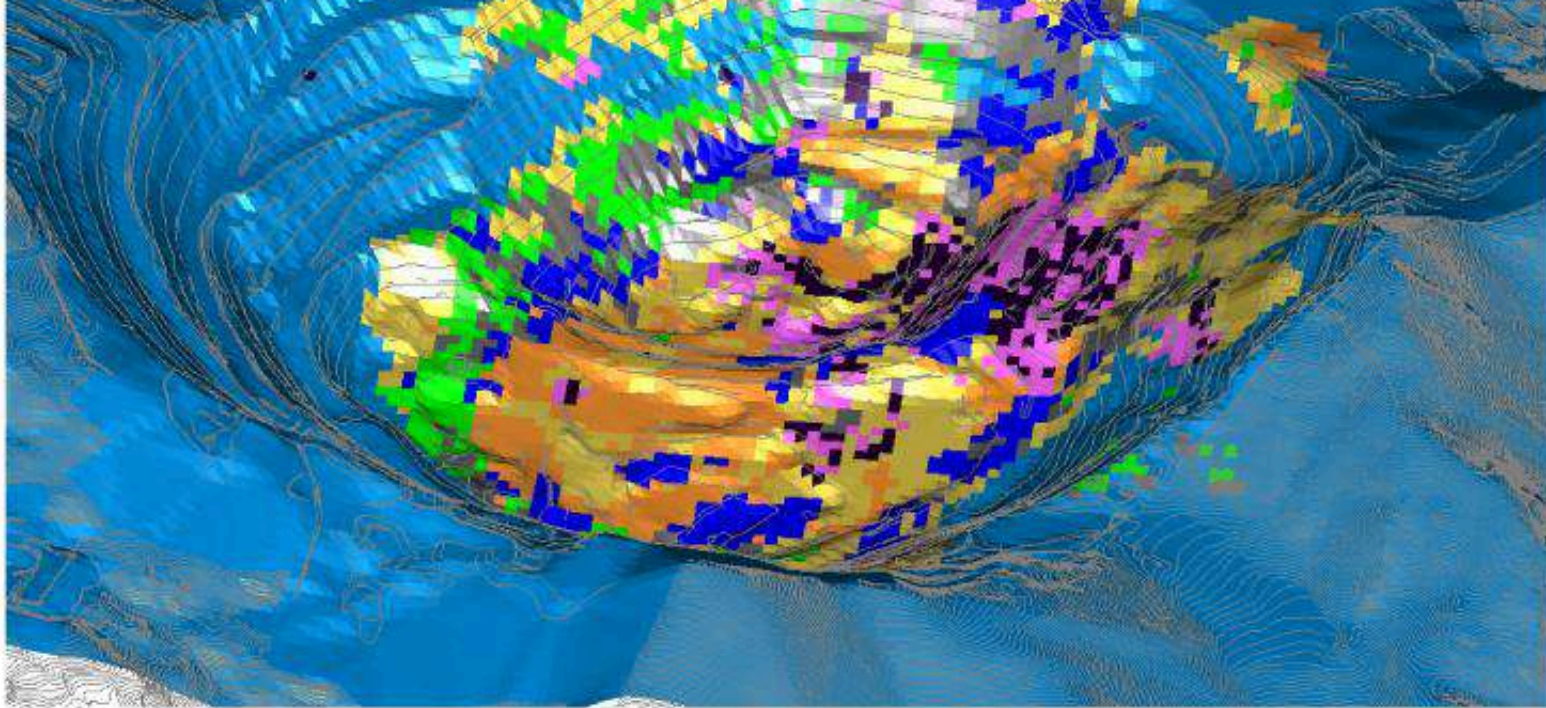
This current throughput model was checked against the plant using historical plant data from 2015 to 2019. The actual throughput for this period was 816 t/hr, which compares well to that predicted by the model at 817 t/hr.

It should be noted that while this geometallurgical hardness/throughput model is available to estimate mill feed rates for the LOM plan, the plan has assumed a fixed throughput rate of 775 t/hr. The predictive model is therefore used instead to provide guidance concerning the viability of this assumption and potential timing for any milling circuit upgrades required. Studies are ongoing with the aim to optimise and improve the mill throughput for processing the harder blends of the remaining ex-pit mined ores.

A spatial distribution of the different hardness geometallurgical domains is shown in Figure 10.3.3.

Figure 10.3.3: Spatial distribution of ore hardness geometallurgical domains





Source: Cerro Corona CPR, 2023

10.4 Plant Results

Table 10.4.1 summarises the recent performance of the Cerro Corona process plant.

	Units	2023	2022	2021	2020	2019	2018	2017	2016
Ore milled	kt	6485	6,721	6,817	6,796	6,718	6,644	6,796	6,977
Au head grade	g/t	0.84	0.9	0.8	0.9	1.2	1.1	1.1	1.0
Cu head grade	%	0.48	0.5	0.5	0.4	0.6	0.6	0.5	0.5
Au recovery	%	72.50	70.9	64.7	65.3	65.6	68.1	70.4	67.5
Cu recovery	%	88.86	89.2	87.1	87.6	88.8	88.0	88.9	86.6
Concentrate	kt	138.5	138	134	124	152	159	153	156
Gold produced	koz	127.0	129	113	119	156	150	159	150
Copper produced	kt	27.8	27	26	25	31	32	30	31

Source: Cerro Corona CPR, 2023 – Note that the process Schedule may include some inferred ore processed.

10.5 Deleterious elements

The most important deleterious element at Cerro Corona is arsenic, which occurs in discreet zones within the orebody. A geological model of the distribution of arsenic in the deposit is used for mill scheduling.

The arsenic content has two implications at Cerro Corona:

- Concentrate arsenic grade – high concentrations of arsenic in the plant feed results in higher concentrations of arsenic in the copper concentrate. Cerro Corona sells concentrate to multiple smelters, some of which are unable to accept concentrate with more than 2,000 ppm arsenic.
- Flotation recoveries – high arsenic grade is a proxy for the presence of high concentrations of microcrystalline pyrite that contains relatively high concentrations of gold, typically resulting in lower gold flotation recoveries.

Concentrate with high arsenic content is managed through concentrate blending at the shipping port and through the establishment of offtake agreements with some smelters that can accept concentrates with relatively higher arsenic grades.

The availability of a geological model for arsenic distribution allows the mine to predict and plan for the effects of the high arsenic zones on processing performance, both in terms of flotation recoveries and concentrate sales.

10.6 Metallurgical risks

In the opinion of the Qualified person, the combination of an established processing plant with operating experience of treating the Cerro Corona ores, the availability of key species geological grade distribution models, together with the ongoing and active geochemical programs in progress, provide a reasonable platform for estimating the

the ongoing and active geometallurgical programs in progress, provide a reasonable platform for estimating the associated metallurgical and processing modifying factors underpinning the Mineral reserves.

However, some uncertainties remain including:

- Mill throughput – i.e., when processing future harder ex-pit ore blends and future low grade stockpiles.
- Mill feed variability while processing low grade stockpiles.
- Recovery while processing future low grade stockpiles.
- Arsenic geological model.



11 Mineral resource estimates

11.1 Mineral resource estimation criteria. Mineral resources are in-situ diluted.

11.1.1 Geological database

The Cerro Corona database used for the Mineral resource estimate contained 672 drillholes totalling 127,086 m of drilling and 60,677 analytical results for gold and 60,937 analytical results for copper (Table 11.1.1).

Table 11.1.1: Database used for Mineral resource estimate

Drilling campaign	Drillhole count	Drillhole length (m)	Au samples	Cu samples
Historical	656	123,586	58,909	59,169
2022 campaign	16	3,500	1,768	1,768
Total	672	127,086	60,677	60,937

Source: Cerro Corona CPR, 2023

The database also contained drillhole information, collar survey, lithological records, core recovery and sample intervals. As data were loaded into the database, a series of validation routines were completed to ensure that geological, survey and assay data was correctly input into the database. Drilling undertaken in 2023 was not used in the estimate as results were finalised after the estimate was completed. This drilling will inform the 2024 estimate.

11.1.2 Core recovery

For the selection of the sampling intervals, a cutoff was not considered to determine if the interval is used in the estimation; however, it could be considered as a cutoff 95 % of recovery which is the value that is considered at the moment of accepting the drillhole as valid.

11.1.3 Domain classification

The geological interpretation considered the various lithologies and grade shells for gold and copper in the Cerro Corona deposit for the construction of the geological model. The grade shells for gold and copper were geological domains to characterise economic material defined by composites >0.3 g/t Au and >0.2 % Cu. These grade shells were limited to the dioritic domain.

11.1.4 Geological modelling

Geological modelling was completed using the implicit modelling methodology in Leapfrog Geo software V2023.1.1. This software uses the contacts and intercepts in the geological database and creates solids for each geological domain. These solids are then used for coding in the block model.

The topography used in the model was unmined topography acquired at the beginning of the project but the correct depletions were incorporated.

11.1.5 Assay compositing

Validated samples from long-term drilling programs were composited using the compositing procedures in the Datamine Studio RM Pro[®] software. Table 11.1.1 shows the number of samples used in the model.

The raw data is composited along the drillhole with a constant length of 5 m and a tolerance of 25 %. The composites are then selected by gold and copper domains without tolerance (hard data for validation purposes) and with tolerance in distance according to the contact analysis performed by domain (soft data). Finally, it is the soft data that is used in the estimation of grades.



11.1.6 Evaluation of outliers

Outliers were determined for each gold and copper domain and by element estimated using histograms, identifying population breaks in the cumulative probability graphs and calibrating with mine reconciliation results for grades and fine content. The analysis was focused on the last decile and between the 97th and 99th percentiles.

During the grade interpolation process, samples identified as outliers were capped at the cutoff value for the parameter. Generally, due to the continuity of the Cerro Corona mineralization outliers do not have material impact on the Mineral resource estimates.

11.1.7 Variography

Variogram modelling was completed using Isatis.neo Mining V2023.08 software. The experimental variograms were calculated by gold and copper domain and considered the declustering weights.

The variograms were calculated in different directions of the horizontal plane and in the vertical direction. The anisotropic directions were defined by GFLC's geology team based on their knowledge of the Cerro Corona deposit and information gained from a large blast hole dataset. When the directional variograms do not show any clear anisotropy, the anisotropy defined by GFLC's geology team was assumed based on their expertise in Cerro Corona

anisotropy, the anisotropy defined by GFLC's geology team was assumed based on their expertise in Cerro Corona mineralisation. When the experimental variogram is not well structured in the main direction suggested by GFLC's geology team, an analysis on the directions in the surrounding area was done to verify if it shows a maximum continuity and for a domain 1013, 1023 and 2013 the main direction was assumed to be N100 instead of N120 once the variograms at N100 are more continuous and better structured.

For the experimental variograms, the advanced parameters of the slicing width and slicing height were used for some domains, especially for the main direction. This is because of the soft boundary samples, that are mostly in the border of the domains or in depth, and when a pair between a sample from a low and a high grade domain is calculated, the experimental variograms could be badly structured. These parameters were used trying to consider preferably pairs from the hard data, that is from the same domain, and not between soft and hard data (high- and low-grade domain).

The Cerro Corona mineralisation is continuous and major direction ranges of 150m to 170m are common for copper and gold semi variograms.

The Qualified person's opinion is that the semi variograms are a practical reflection of the spatial continuity of the respective mineralization grades and their application to the geostatistical analysis is adequate to minimize uncertainty and to derive appropriate resource block models for use by the planning engineers to complete mine design and production scheduling.

11.1.8 Selective mining units

The selective mining unit (SMU) sizes (i.e., the smallest volume of material on which ore / waste classification is determined) are 10 mE x 10 mN x 10 mRL for the long and medium-term models, and 5 mE x 5 mN x 10 mRL for the short-term (grade control) model.

11.1.9 Grade estimation

The resource model is a combination of long-term and medium-term modelling strategies, approached to satisfy both scales of mine planning and the data densities for different areas of the resource.

The long-term estimation is based on the Localised Uniform Conditioning (LUC) technique for accurate assessment of copper and gold metal localisation in the open pit. This estimate uses exploration and resource drilling data. The medium-term models are updated every three months and use a combination of exploration and resource drilling data with in-pit mapping and BHs, which cover the three benches below the end-of-quarter surface evaluated to update the long-term model with the latest information from BHs and mapping.

The resource modelling work is carried out as a collaboration between Geovariances and the GFLC team with close support from Gold Fields' corporate resource estimation team.

The long-term recoverable resource estimation applies to a panel size of 40 mE x 40 mN x 10 mRL. The tonnage and metal for each panel is estimated using LUC and assigned to 10 mE x 10 mN x 10 mRL SMUs according to the ranking of their estimated value for the main copper variable (CUTOT - Total Copper). The general workflow for copper and gold estimation is:

- Determination of declustering weights for calculating the composites distributions.
- Calculation of the normal score transforms of both variables AUTOT (Total gold) and CUTOT.
- Variography analysis of the pair of Gaussian variables.
- Transformation of the semi variograms of the Gaussian variables to the raw AUTOT-CUTOT variables by means of the anamorphosis function.
- Ordinary kriging and simple kriging estimates of CUTOT and AUTOT over the 40 mE x 40 mN x 10 mRL panels and storage of the kriging weights.
- Gaussian anamorphosis of CUTOT and AUTOT using declustering weights as the kriging weights obtained in the previous step.
- Variographic analysis of the pair of variables CUTOT-AUTOT.
- Kriging of the panels using either Ordinary Kriging (OK) and potentially replacing it by Simple Kriging (SK) for panels with a low quality of estimation.
- Then, for each domain:
 - Perform UC for the panel partially or entirely in the domain.
 - Multiply UC Tonnes and Q (metal) by the proportion of the domain in the panel. When a panel is not entirely mineralised, the tonnage versus cutoff $T(z_c)$ is modified by completing the mineralised tonnage with a waste tonnage of zero grade.
 - Perform kriging of SMUs for each domain. If the panel is only partially mineralised, the non-mineralised SMUs are not kriged (N/A values).

- Run LUC to assign CUTOT and AUTOT grades to the SMUs of the domain. The non-mineralised SMUs are put to non-applicable (N/A).

11.1.10 Model validation

The OK panel estimates are validated in two ways:

- The volume-weighted statistics of the panel estimates are compared with the declustered sample mean values for each of the estimation zones.
- Swath plots comparing the declustered sample data and the volume-weighted estimates are analysed for the major domains. Swath plots for the minor South and North zones are not prepared.

Comparison of the declustered average grades for AUTOT and CUTOT within each zone with the volume-weighted kriged estimates showed good agreement. The swath plots comparing the declustered sample data and the kriged estimates on a spatial basis for the annulus estimates demonstrated that the kriged estimates as a general rule followed the grade variations within the sample data. There was an expected level of smoothing present within the kriged panel estimates (which is data dependent), though the kriged panel estimates are post-processed (using LUC) to obtain recoverable Resource for mine planning.

Additionally, two tests were performed to check the robustness of the LUC results:

- A different co-kriging neighbourhood search ellipse with 30 samples per octant.
- The use of a different isotropic variogram to show the results are robust on the main mineralised units. For other units, the results show variations that were within the expected ranges.



0.2 % difference in gold grade and +1.8% difference in copper grade in the 2023 year to date (YTD) reconciliation. The monthly variability tends to be higher. The Qualified person is of the opinion that the reconciliations are reasonable and that the differences are not expected to be material.

The grade control model had a YTD difference with the process plant of -3.1 % in tonnage, -1.3 % in gold and -0.5 % in copper, with often higher variability in the month-by-month data. This indicates that the grade control model is sufficiently reliable as a reference for the Mineral resource model.

11.1.11 Cutoff grades

Cutoff grades are influenced by the operating strategy, design and scheduling, and are therefore calculated annually. As Cerro Corona is a polymetallic deposit, a net smelter return (NSR) (\$/t Processed) cutoff is used rather than a grade cutoff.

The NSR (\$/t processed) is the revenue expected from the mill feed, taking into consideration mill recoveries, metal prices, gross royalties, transport costs of the concentrate to the smelter, treatment and refining charges and other deductions at the smelter. The NSR cutoff refers to the revenue that a block of ground (\$/t processed) must be able to generate to cover these costs and qualify as ore.

The NSR cutoff is calculated for the material within the pit shell using the following formula:

$$\text{NSR (g1, g2)} = [g1 * P1 * SR1 * (V1 - \text{TCRC1})] + [g2 * P2 * SR2 * (V2 - \text{TCRC2})]$$

Where:

- g is metal grade (0.36% Cu and 0.53 g/t Au)
- P is the metal plant recovery (%)
- SR is the metal smelter recovery (%)
- V is the metal price per unit produced (\$/lb or \$/oz)
- TCRC is the applicable smelting, refining, royalty and transport charges (\$/lb or \$/oz)

Gold Fields conducts an annual review of metal prices for Mineral resource and Mineral reserve reporting to monitor any significant changes that would warrant re-calibrating the price deck for strategic and business planning purposes. This review takes into account prevailing economic, commodity price and exchange rate trends, together with market consensus forecasts and Gold Fields' strategy and expectations for the mine operations.

The recommended resource gold price of \$1,600/oz and copper price of \$3.60/lb is based on consideration of the following elements and rationale:

- Ensuring Mineral resources are not too volatile year-on-year with protection against possible downside scenarios if the gold price falls up to ~25 % in a specific year.
- Ensuring sufficient margin at prices incrementally lower than current spot price ranges and mitigating the risk of inflation.
- The resource gold price premium to the reserve price is circa 13 % and the differential is in general alignment to Gold Fields' peer group and industry standard practice.
- The Mineral resource price premium provides information on each operation's potential at higher gold prices and indicates possible future site infrastructure and mining footprint requirements.
- The NSR cutoff value used for the open pit Mineral resource estimate is \$18.244/t processed.

11.1.12 Reasonable prospects of economic extraction

Placement of tailings at Cerro Corona mine is constrained by capacity on the TSF and by planned in-pit tailings storage. This impacts on RPEE criteria; the Qualified person has concluded that notwithstanding positive outcomes of studies



to delay tailings placement in the pit, these options do not align with Gold Fields strategic planning objectives. Consequently, previously declared EMR Mineral resources (2022) within the reserve pit will likely be treated as waste and EMR Mineral resources (2022) adjacent to the reserve pit will not be mined by Gold Fields. Therefore, no EMR is disclosed for Cerro Corona in 2023. Gold Fields continues to investigate ways to derive value from the mineralised material that was disclosed as EMR in 2022.

The Cerro Corona mine has spatial limitations to the placement of tailings. The current tailings storage facility will reach capacity by 2026 and there are no other suitable sites for surface tailings storage available at this time; alternatives continue to be investigated but none currently align with Gold Fields strategic planning objectives. Once the current

TSF capacity is reached, mining in the Cerro Corona pit will cease and the mine will transition to processing stockpiles. Tailings from the stockpile treatment will be stored in an in-pit facility that is limited in volume as placement is not planned to occur above the water table. Consequently, low grade ores and Mineral resources within the reserve pit (disclosed in 2022) will be placed as waste and no longer have a reasonable prospect of economic extraction. Similarly, Mineral resources adjacent to the reserve pit (disclosed in 2022) are also no longer considered to have reasonable prospects of economic extraction in line with Gold Fields' strategic objectives and have been removed from Gold Fields 2023 Mineral resource disclosure. Gold Fields continues to review options to realise value from the mineralisation previously considered as Mineral resources but will not disclose Mineral resources exclusive of Mineral reserves until such time as strategically viable options are approved.

EMR within the pit shell as disclosed in 2022 would have been scheduled to be extracted after the commencement of in-pit tailings and thus are no longer considered to have RPEE. The extraction of EMR outside of the current pit shell would have been required to commence in 2023 to allow for RPEE.

There is no EMR declaration for Cerro Corona in 2023 due to limitations of in-pit tailings placement.

11.1.13 Classification criteria

At Cerro Corona, the in-situ diluted Mineral resources underpinning the Mineral reserves are classified as either measured, indicated or inferred in accordance with the definitions in SK 1300. Notwithstanding that Gold Fields is not reporting Mineral resources EMR in 2023, the proved and probable Mineral reserves are still derived from underlying inclusive Mineral resources classified in this way.

Increasing levels of geoscientific knowledge and confidence are generally based on geological understanding, grade continuity, drillhole/sample spacing, sample data quality, estimation quality, physical characteristics, mining development (i.e., amount of exposed and mapped mineralisation) and mining history.

Surface sources are comprised of stockpiles. Cerro Corona calculates and reports that stockpiles are managed and monitored when mining occurs and are supported by adequate sampling, survey and end of month reconciliation and are thus classified as measured Mineral resources.

The Qualified person is of the opinion that:

- a) Inferred Mineral resource has an even chance of converting to indicated Mineral resource with continued exploration, additional empirical data and evolving geoscientific modelling. Inferred resource has drill spacing wider than 60 m.
- b) Indicated Mineral resource has a drill grid ranging from 40 m to 60 m.
- c) Measured Mineral resource has drill spacing approximating 25 m x 25 m to 40 m. The blast hole rock chips are

- c) Measured mineral resource has drill spacing approximating 25 m x 25 m to 40 m. The blast hole rock chips are used as grade control samples and are drilled on an average 5.5 m by 4.8 m grid.
- d) The Mineral resource demonstrates reasonable prospects for economic extraction over the indicated study time frame.
- e) Routine mine reconciliation monitoring and reporting, on at least a quarterly basis utilising the Group's Mine Reconciliation Reporting standard, provides empirical data to endorse the classification criteria applied.
- f) The Mineral resource gold price is \$1,600 per ounce and copper at \$3.60/lb.



- g) The Qualified person's opinion is that, whilst effort and care are taken with the resource estimation and classification processes, some inherent residual uncertainty remains.

11.2 Mineral resources as of 31 December 2023

The Mineral resource estimate for Cerro Corona was prepared in accordance with definitions as set forth in the S-K 1300 Definition standards.

The Cerro Corona mine has spatial limitations to the placement of tailings. The current tailings storage facility will reach capacity by 2026 and there are no other suitable sites for surface tailings storage available at this time; alternatives continue to be investigated but none currently align with Gold Fields strategic planning objectives. Once the current TSF capacity is reached, mining in the Cerro Corona pit will cease and the mine will transition to processing stockpiles. Tailings from the stockpile treatment will be stored in an in-pit facility that is limited in volume as placement is not planned to occur above the water table. Consequently, low grade ores and Mineral resources within the reserve pit (disclosed in 2022) will be placed as waste and no longer have a reasonable prospect of economic extraction. Similarly, Mineral resources adjacent to the reserve pit (disclosed in 2022) are also no longer considered to have reasonable prospects of economic extraction in line with Gold Fields' strategic objectives and have been removed from Gold Fields 2023 Mineral resource disclosure. Gold Fields continues to review options to realise value from the

mineralisation previously considered as Mineral resources but will not disclose Mineral resources exclusive of Mineral reserves until such time as strategically viable options are approved.

EMR within the pit shell as disclosed in 2022 would have been scheduled to be extracted after the commencement of in-pit tailings and thus are no longer considered to have RPEE. The extraction of EMR outside of the current pit shell would have been required to commence in 2023 to allow for RPEE.

There is no EMR declaration for Cerro Corona in 2023 due to limitations of in-pit tailings placement.

The EMR of Cerro Corona are considered depleted because the case studies carried out to demonstrate that they have a reasonable probability of economic extraction have been negative or do not align with Gold Fields strategic objectives.

11.3 Basis for establishing the prospects of economic extraction for Mineral resources

The Qualified person has concluded notwithstanding some positive outcomes of studies to delay tailings placement in the pit, these options do not align with Gold Fields strategic planning objectives. Consequently, Mineral resources within the reserve pit will likely be treated as waste, Mineral resources adjacent to the reserve pit will not be mined and reasonable prospects for economic extraction have not been demonstrated.

11.4 Audits and reviews

The Mineral resource estimate was completed by site personnel and reviewed by a Gold Fields regional reviewer prior to release for mining and Mineral reserve assessment. Mineral resources were audited as part of Gold Fields external audit program in 2022 and no material issues were identified. Cerro Corona's next external audit is scheduled for 2025.

The Mineral resource is underpinned by appropriate Mineral resource management processes and protocols to ensure requisite corporate governance in respect of the intent of the Sarbanes-Oxley Act of 2002 (SOX). Technical and operating procedures developed on-site are designed to be compliant with the SOX framework as adopted by the Gold Fields' Mineral resource Management for Resource and Reserve estimation, reporting and auditing.

Gold Fields uses K2Fly rCubed proprietary software in combination with SharePoint, both of which are designed to ensure accuracy, governance and auditability in the reporting of Mineral resources and Mineral reserves.

11.5 Comparison with 31 December 2022 to 31 December 2023 Mineral resource

The net difference in measured and indicated Mineral resources between 31 December 2022 and 31 December 2023 is -100 % for gold and -100 % for copper. See Table 11.5.1.

The EMR of Cerro Corona are considered depleted for the reasons set out in section 11.3.

Attributable Mineral Resource exclusive of Mineral Reserves year on year change

The following tables set out attributable Mineral Resources exclusive of Mineral Reserves of Cerro Corona as at 31 December 2023 compared to 31 December 2022. There is no available EMR after reserves due to the in-pit tailings placement commencing in 2026.

Attributable Gold Resources exclusive of Gold Reserves year on year change

Table 11.5.1: Net difference in Attributable Mineral resources (EMR) between 31 December 2022 and 31 December 2023 Gold

	Measured and Indicated Mineral Resources		Inferred Mineral Resources		
	Unit	% Change	Gold	% Change	Gold
As at 31 December 2022	koz		660		2
Production depletion (2023).....	koz	-1	-9	-0	-0
Gold price.....	koz	0	0	0	0
Operating cost.....	koz	-4	-29	-3	-0
Discovery	koz	0	0	0	0
Resource model update.....	koz	2	10	3	0
Inclusion / exclusion.....	koz	-96	-632	-100	-2
Indesign material.....	koz	0	0	0	0
As at 31 December 2023	koz		0		0

For the year ended 31 December 2023, changes in gold resources at Cerro Corona were primarily driven by exclusion. There is no available EMR after reserves due to the in-pit tailings placement commencing in 2026.

Table 11.5.2: Net difference in Attributable Mineral resource (EMR) between 31 December 2022 and 31 December 2023
Copper

	Measured and Indicated Mineral Resources		Inferred Mineral Resources		
	Unit	% Change	Copper	% Change	Copper
As at 31 December 2022	koz		300		1
Production depletion (2023).....	koz	-2	-6	-0	-0
Copper price	koz	0	0	0	0
Operating cost.....	koz	-5	-16	-7	-0
Discovery	koz	0	0	0	0
Resource model update.....	koz	2	5	-25	-0
Inclusion / exclusion.....	koz	-94	-283	-69	-1
Indesign material.....	koz	0	0	0	0
As at 31 December 2023	koz		0		0

For the year ended 31 December 2023, changes in copper resources at Cerro Corona were primarily driven by exclusion. There is no available EMR after reserves due to the in-pit tailings placement commencing in 2026.

12.1 Level of assessment

Cerro Corona's Mineral reserves are that portion of the measured and indicated Mineral resources which, as technical and economic studies have demonstrated, can justify economic extraction.

The Mineral reserve is based on appropriately detailed and engineered LOM plans and are supported by relevant studies completed to a minimum pre-feasibility study level. The LOM plans schedule the Mineral resources with appropriate modifying factors applied to estimate Mineral reserves.

Mine planning is based on 3D block models of in-situ mineralisation, with allowances made for minimum mining widths, dilution and ore loss appropriate to the mining method being considered. Historical performance measures are considered in determination of the modifying factors. Infrastructure, waste disposal and ore stockpile management requirements are incorporated into the planning process.

The point of reference for the Mineral reserves is ore delivered to the processing facility, also known as run-of-mine or RoM ore.

Provision is also made for sufficient waste rock and tailings storage with plans in place to meet the life-of-mine requirements. The Company's mine closure plans comply with in-country legal requirements and are approved by the regulator. Integrated mine closure plans provide appropriate cost parameters for operational and life-of-mine planning as well as end of life mine closure commitments.

The Qualified person's opinion of the Mineral reserve estimates is:

- a) The modifying factors are based on recent mining and processing extraction history and performance and are reasonable and appropriate to derive the reserves from the resources and minimise any estimation errors. The modifying factors are aligned with leading industry technical practice, for example, blended process recovery is used in the reserve estimate.
- b) Cerro Corona has decreased its Mineral reserves over the past three reporting cycles net of depletion, however Mineral reserves have decreased this year primarily due to depletion and mining cost inflation. Cerro Corona's proactive study pipeline retains a focus on progressing all key work integral to supporting ongoing life-of-mine extensions so as to avoid any potential production delays.
- c) The indicated and measured Mineral resource is sufficient in geoscientific confidence to complete final life-of-mine designs. However, it is usual to complete a final phase of infill drilling to determine a high confidence 'mine defined' resource with detailed geoscientific information prior to final stope design, pillar layouts and detailed production scheduling.

- d) The reported reserve is a 'point in time' or snapshot of the life-of-mine plan. It is supported by a technically valid and economically viable mine design and schedule combining open pits. The techno-economic work does not exceed the estimated uncertainty of $\pm 25\%$ and or require more than 15% contingency for both operating and capital costs.
- e) Environmental compliance and permitting requirements have been assessed in detail with supporting baseline studies and relevant preliminary internal impact assessments completed. Detailed tailings disposal, waste disposal, reclamation and mine closure plans are incorporated into the life-of-mine plan.
- f) The life-of-mine plan, *in toto*, is completed to a minimum pre-feasibility level of study, although certain components of the plan have been completed to a feasibility level of study.
- g) The Mineral reserve is based on a series of assumptions (modifying factors) which while reasonable at this time may change in the future and require the reserve to be restated. Sensitivities on the modifying factors are provided in Chapter 19.3



12.2 Mineral reserve estimation criteria

12.2.1 Recent mine performance

The recent performance of Cerro Corona is summarised in Table 12.2.1.

Table 12.2.1: Cerro Corona – recent production performance

	Units	2023	2022	2021	2020
Total open pit mined	Mt	24.9	29.4	28.3	17.6

Ore mined	Mt	12.8	13.8	9	7.3
Au grade mined	g/t	0.63	0.67	0.76	0.85
Cu grade mined	%	0.40	0.38	0.42	0.42
Waste mined	Mt	12.1	15.6	19.3	10.3
Strip ratio	w:o	0.9	1.1	2.2	1.5

Source: Cerro Corona CPR, 2023

The recent production performance of Cerro Corona is summarised in Table 12.2.2.

Table 12.2.2: Recent production performance of Cerro Corona

		Units	2023	2022	2021	2020
Total mined		kt	24,903	29,357	28,301	18,225
– Waste mined		kt	12,127	15,556	19,342	10,921
– Ore mined		kt	12,777	13,801	8,959	7,303
Mined grade	Au	g/t	0.63	0.67	0.76	0.85
	Cu	%	0.40	0.38	0.42	0.42
Strip ratio (tonnes)		waste:ore	0.95	1.13	2.16	1.5
Tonnes treated		kt	6,485	6,721	6,817	6,796
Head grade	Au	g/t	0.84	0.88	0.83	0.87
	Cu	%	0.48	0.47	0.46	0.44
Plant recovery factor	Au	%	72.50%	70.9	65	65
	Cu	%	88.86%	89.2	87	88
Total gold production	Au	koz	127	129	113	119
	Cu	Kt	28	27	26	25
Operating cost		\$/oz	949		707	745
Capital expenditure		\$ M	44	45	56	50
All-in Costs (AIC)		\$/oz	536	438	230	715
All in sustaining cost (AISC)		\$/oz	397	310	-34	484

Notes:

- a) The 2023 fiscal modifying factors are valid as of 31 December 2023.
- b) The cutoff grades are the lowest grade of mineralised rock which determines as to whether it is economic to recover its gold content by further concentration, calculated as per the Gold Fields cutoff grade guidance on methodology and protocol; see Section 11.1.10 for more information on cutoff grade calculation methodology.
- c) The metal prices for Mineral reserves are \$1,400/oz and \$3.40/lb.
- d) Relevant modifying factors are reported in ranges and vary based on the open pit being considered and estimated unit costs for depth mined and distance hauled.
- e) Geotechnical and hydrogeological factors are discussed in Chapter 7.
- f) Details of the forecast operating and capital expenditures are provided in Chapter 18.

Source: Cerro Corona CPR, 2023



12.2.2 Key assumptions and parameters

The assumptions and parameters considered in the Mineral reserve estimate are summarised in Table 12.2.3 and are derived from historical performance.

Table 12.2.3: Key technical modifying factors for mine planning

	Units	Dec-23	Dec-22	Dec-21	Dec-20
Gold price	\$/oz	1400	1,400	1,300	1,300
Copper price	\$/lb	3.4	3.4	2.8	2.8
Gold royalty	%	0.02	0.02	0.02	0.02
Copper royalty	%	12.41	12.41	12.41	12.41
Dilution	%	0	0	0	0
Mining recovery	%	98	98	98	98

Mine call factor	%	100	100	100	100
Plant recovery (Au)	%	68	68	68	68
Plant recovery (Cu)	%	86	87	87	86
NSR (Au)	\$/t Processed	17.64	16.38	14.99	14.97
NSR (Cu)	\$/t Processed	17.64	16.38	14.99	14.97
Processing throughput	Mt/a	6.5	6.7	6.7	6.7
Mining cost	\$/t rock	3.19	3.14	3.12	3.53
Processing cost	\$/t ore	10.12	8.97	7.57	7.64
Stockpiles reclaim cost	\$/t ore	0.32	0.3	0.29	0.29
Sustaining capital cost	\$/t ore	1.74	2	1.99	2
G&A cost	\$/t ore	6.07	5.68	5.71	5.82
Pit wall angles	degrees	49	49	49	51
Bench height	m	10	10	10	10

Source: Cerro Corona CPR, 2023

Geotechnical and hydrogeological factors are discussed in Section 7.

Mining costs include all costs of ore and overburden mining and is divided into drill and blast (\$0.66/t), loading (\$0.23/t for ore and \$0.23/t for waste), haulage (\$0.712/bcm-km for ore <1 km, \$0.405/bcm-km for ore >1 km, \$0.705/bcm-km for waste <1 km and \$0.401/bcm-km for waste >1 km), mining supervision (\$0.47/t) and other mining-related costs such as road maintenance (\$0.35/t) and general earthworks (\$0.20/t).

The Cerro Corona mine life is currently limited by the TSF storage capacity, however there is sufficient TSF capacity to support the current LOM plan.

As disclosed in Section 11.1.11, Gold Fields conducts an annual review of metal prices for Mineral resource and Mineral reserve reporting to monitor any significant changes that would warrant re-calibrating the price deck for strategic and business planning purposes. This review considers prevailing economic, commodity price and exchange rate trends, together with market consensus forecasts and Gold Fields' strategy and expectations for the mine operations. The recommended reserve gold price for 2023 is \$1,400/oz and copper price is \$3.40/lb. Refer to Chapter 16 for more pricing detail. These are unchanged from 2022.

12.2.3 Cutoff grades

As with the Mineral resource cutoff grade, the Mineral reserve cutoff is determined on a NSR basis. The cutoff value is influenced by the operating strategy, design and scheduling, and are therefore calculated annually. The cutoff value used for the open pit Mineral reserve estimate are calculated using the same methodology described in Section 11.1.11.

The NSR cutoff value used for the open pit Mineral reserve estimate is \$17.64/t processed.

Notes:

- a) The cutoffs are estimated based on the reserve price and reserve modifying factors and are not expected to change materially over the life-of-mine reserve.
- b) The cutoff grades, price and modifying factors are incorporated in the estimation of the reserve shell.
- c) The Qualified person is of the opinion that the design of the selected reserve shells used in the reserve estimation minimises estimation errors.

12.2.4 Mine design

Open pit mining is by conventional drill and blast, with truck and excavator operations. Further details on the mining methods are provided in Section 13.

Open pit planning involves the input of economic parameters and physical constraints into optimisation software (Geovia Whittle) to generate a series of nested pits from which a pit is selected for design. The optimal shell selected is limited to a maximum of 53.9 Mt of ore to align with the forecast LOM tailings storage capacity.

Detailed design is then undertaken to confirm the mineability of the optimised shell. The process is iterated until an acceptable level of correlation is achieved between the optimised pit shell and detailed design.

Due to the requirement that engineered and designed pit shells are practical and consider geotechnical stability, access ramps, sumps and other design criteria, some mineralised material of sufficient confidence to be considered Mineral reserve may be included in the Mineral reserve even though it does not reflect in the Mineral resource which is based only on optimised shells. Similarly, some Mineral resources above the Reserve cutoff grade may be excluded from the

only on optimised slices. Similarly, some mineral resources above the Reserve cutoff grade may be excluded from the Mineral reserve.

12.2.5 Mining schedule

A time-based economic evaluation is undertaken of the completed mining and processing schedule to ensure economic viability over the reserve life with the requisite rehabilitation and end of life mine closure costs also incorporated into the financial assessment. Refer to Chapter 19.1 for details on the life-of-mine cost schedule.

The Qualified person is of the opinion that the mine plan and schedule incorporate appropriate assessment of all relevant technical, environmental, social and financial aspects to ensure the Mineral reserve complies with the SK rule instructions and requirements. After reasonable assessment there is no unresolved material matter that could have a significant impact on the mine's ability to execute the life-of-mine plan. The mine plan and schedule incorporate consideration of the following key criteria:

- Production depletion up to 31 December 2023.
- Application of cutoff grades to determine mineable ore.
- Application of appropriate modifying factors to convert resource to reserve.
- Allocation of suitable mining equipment and costs.
- Incorporation of realistic mining rates and efficiencies.
- Practical and realistic mine design and mining methods.
- Integrated production scheduling taking account of capacities, constraints and bottlenecks.

- Integrated project management and execution.

- Security of water and energy for the life-of-mine.
- Provision for mine rehabilitation and mine closure costs.
- Consideration of all environmental, social and legal aspects to enable life-of-mine plan execution.
- Appropriate life-of-mine tail end management.
- Security of current and future land tenure and agreements, permits and licenses.
- Life of mine cashflow model and economic viability.

12.2.6 Classification criteria

Cerro Corona's Mineral reserves are classified as either proven or probable in accordance with the definitions in SK 1300. Mineral reserve statements include only measured and indicated Mineral resources modified to produce Mineral reserves contained in the LOM plan.

In general, a proven Mineral reserve is derived from a measured Mineral resource and existing stockpiles. The probable Mineral reserve is derived from indicated Mineral resource material.

12.2.7 Economic assessment

The basis for establishing economic viability is discussed in Section 19.



12.3 Mineral reserves as of 31 December 2023

The Cerro Corona Mineral reserves as of 31 December 2023 are summarised in Table 12.3.1. The Mineral reserves are 99.53 % attributable to Gold Fields and are net of production depletion up to 31 December 2023. The Mineral reserves are reported in terms of RoM grades and tonnages delivered to the processing facility and are therefore fully diluted.

Table 12.3.1: Cerro Corona – summary of attributable gold and copper Mineral reserves at the end of the fiscal year ended 31 December 2023 based on a gold price of \$1,400/oz and copper price of \$3.40/lb

	Amount/	Grade	Amount	Grade	Amount	Cutoff	Metallurgical recovery
--	---------	-------	--------	-------	--------	--------	------------------------

	Amount/	Grade	Amount	Grade	Amount	grades/	Metallurgical recovery	
	(Kt)	Au/ (g/t)	Au/ (koz)	Cu/ (%)	Cu/ (Mlb)	(\$/t NSR)	Au/ (%)	Cu/ (%)
Open Pit Mineral reserves								
OP proven Mineral reserves	23,801	0.53	406	0.36	189	17.64	75.8	88.7
OP probable Mineral reserves	2,058	0.52	34	0.35	16	17.64	75.9	88.6
OP total Mineral reserves	25,859	0.53	441	0.36	205	17.64	75.8-75.9	88.6-88.7
Stockpile Mineral reserves								
SP proven Mineral reserves	19,584	0.49	308	0.30	130	16.63	76.2	88.5
SP probable Mineral reserves								
SP total Mineral reserves	19,584	0.49	308	0.30	130	16.63	76.2	88.5
Total Mineral reserves								
Total proven Mineral reserves	43,386	0.51	715	0.33	320	16.63-17.64	75.8-76.2	88.5-88.7
Total probable Mineral reserves	2,058	0.52	34	0.35	16	17.64	75.9	88.6
Total Cerro Corona Mineral reserves 2023	45,444	0.51	749	0.34	336	16.63-17.64	75.8-76.2	88.5-88.7

Notes:

- a) Rounding of figures may result in minor computational discrepancies.
- b) Refer to Table 12.5.1 for year-on-year Mineral reserve comparison.
- c) Mineral reserve disclosed as mill delivered metric tonnes and ROM grades, inclusive of all mining dilutions and gold losses except mill recovery. Metallurgical recovery factors have not been applied to the Mineral reserve figures. The metallurgical recovery is the ratio, expressed as a percentage, of the mass of the specific mineral product recovered from ore treated at the process plant to its total specific mineral content before treatment. The recoveries for Cerro Corona vary according to the mix of the source material (e.g., oxide, transitional fresh and ore type blend) and method of treatment.
- d) The metal prices used for the 2023 life-of-mine (LOM) Mineral reserves are based on a gold price of \$1,400/ounce and copper price of \$3.40/lb. Open pit Mineral reserves at Cerro Corona are based on optimised pits and appropriate mine design and extraction schedules. The gold price and copper price used for Mineral reserves is detailed in Chapter 16 Marketing.
- e) Dilution relates to planned and unplanned waste and/or low-grade material being mined and delivered to the process plant. Ranges are given for those operations that have multiple orebody styles and mining methodologies. The mine dilution factors are 0 %.
- f) The mining recovery factor relates to the proportion or percentage of ore mined from the defined orebody at the gold price used for the declaration of Mineral reserves. This percentage will vary from mining area to mining area and reflects planned and scheduled reserves against actual tonnes, grade and metal mined, with all modifying factors and mining constraints applied. The mining recovery factors are 98 %.
- g) The cutoff grade may vary per mine, depending on the respective costs, depletion schedule, ore type, expected mining dilution and expected mining recovery. The average NSR cutoff value applied in the planning ranges from \$16.63/t to \$17.64/t processed.
- h) An ounces-based Mine Call Factor (metal called for over metal accounted for) determined primarily on historic performance but also on realistic planned improvements where appropriate, is applied to the Mineral reserves. A Mine Call Factor of 100 % has been applied at Cerro Corona.

The Cerro Corona Mineral reserves are the economically mineable part of the measured and indicated Mineral resources based on pre-feasibility studies completed at the reserve gold price of \$1,400/oz and copper price of \$3.40/lb to justify their economic viability (refer to Section 19 for details on the supporting economic analysis).



12.4 Audits and reviews

A series of overlapping internal processes exist at Gold Fields to review and validate the modifying factors, input assumptions, cutoff grades, designs, schedules, economic evaluation and other technical assessments. These reviews include site, regional and group technical assessments, internal audits and trained Qualified person authorisations.

These processes are designed to reduce the likelihood of a significant or material error in the reserves estimation process and associated reserves declaration, although potential for error exists. The Qualified person for Reserves is not aware of any material error or omission that at the time of writing would be deemed likely to have a significant impact on the operation's ability to deliver the reserve mine plan.

The Mineral reserve estimate was subject to internal review and scrutiny by the relevant Qualified persons and regional technical and financial disciplines, and peer reviewed for technical assurance and compliance in reporting by Gold Fields' Corporate Technical Services (CTS), Sustainable Development and Head Office Finance teams in December 2023 and January 2024.

The Mineral reserve is underpinned by appropriate Mineral resource management processes and protocols to ensure requisite corporate governance in respect of the intent of the Sarbanes-Oxley Act of 2002 (SOX). Technical and

operating procedures developed on-site are designed to be compliant with the SOX framework as adopted by Gold Fields' Mineral Resource Management for Resource and Reserve estimation, reporting and auditing.

Snowden-Optiro completed an independent Mineral reserve audit of Cerro Corona in February 2023. No significant adverse findings or any material non-compliances were recorded from any of the audits. Ongoing compliance with minor improvement, adjustments and best practice continue to be implemented. Records of audits are filed electronically on-site in relevant departments and folders with major audit sign offs reported in the Gold Fields annual report.

12.5 Comparison 31 December 2022 with 31 December 2023 Mineral reserve

The net difference in attributable Mineral reserves between 31 December 2022 and 31 December 2023 for gold is -124 koz Au or -14 % (Table 12.5.1).

The net difference in attributable Mineral reserves between 31 December 2022 and 31 December 2023 for copper is -63 Mlb Cu or -16 % (Table 12.5.2). This decrease is due to the net effect of mining depletion, increased mining costs and refinements to the final pit design.

Table 12.5.1: Net difference in attributable Mineral reserves between 31 December 2022 and 31 December 2023 Gold

	Unit	% Change	Gold on RoM
As at 31 December 2022	koz		872
Production depletion 2023	koz	-20%	-178
Gold price	koz	0%	0
Operating cost	koz	-1%	-5
Discovery – Exploration	koz	0%	0
Conversion – Resource Modeling	koz	1%	9
Inclusion / exclusion	koz	6%	51
As at 31 December 2023	koz		749

Notes:

a) Data from Reserve 2022 and Reserve 2023.

Source: Cerro Corona CPR, 2023

Table 12.5.2: Net difference in attributable Mineral reserves between 31 December 2022 and 31 December 2023 Copper

	Unit	% Change	Copper on RoM
As at 31 December 2022	Mlb		398
Production depletion 2023	Mlb	-20%	-80
Gold price	Mlb	0%	0
Production cost	Mlb	-1%	-2
Discovery – Exploration	Mlb	0%	0
Resource Modelling	Mlb	0%	1
Inclusion / exclusion	Mlb	5%	19
As at 31 December 2023	Mlb		336

a) Data from Reserve 2022 and Reserve 2023.

Source: Cerro Corona CPR, 2023



13.1 Methods

The Cerro Corona open pit is mined by conventional drill and blast methods with truck and excavator fleets. Mining benches are generally 10 m high in limestone, silica and potassic units. Haul roads have 10 % of maximum gradient configuration. All material requires drill and blast with varying powder factors according to rock hardness using 200 mm diameter production blast drill holes.

The operations quarry is being mined to provide limestone for the tailing's facility construction. A proportion of the clay waste removed from the pit is also used for this purpose.

All operation and maintenance of mining equipment is completed by the mining contractor.

The new mining contractor has flexibility relating to its mining fleet and is committed to mobilising a fleet of 55 t trucks as the material movement rate increases. Since the start of GFLC's involvement in 2008, planned annual total tonnes have been achieved.

The Qualified person's opinion is that the Mineral reserve modifying factors including strip ratios and the open pit cutoff grades are realistic and appropriate for life-of-mine planning. Further, the mining fleet configuration, equipment specifications, practical mining rates, selective mining unit dimensions, mining dilution and mining recovery assumptions and inputs to the mine design and schedule are suitable in support of the Mineral reserve estimates and present no material risk.

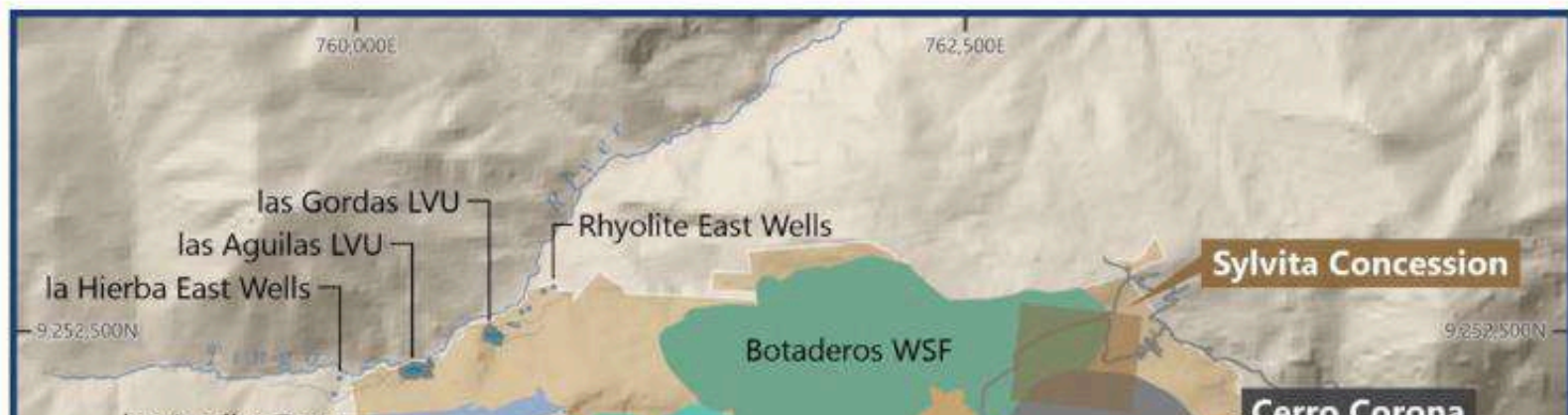
13.2 Mine design and planning factors

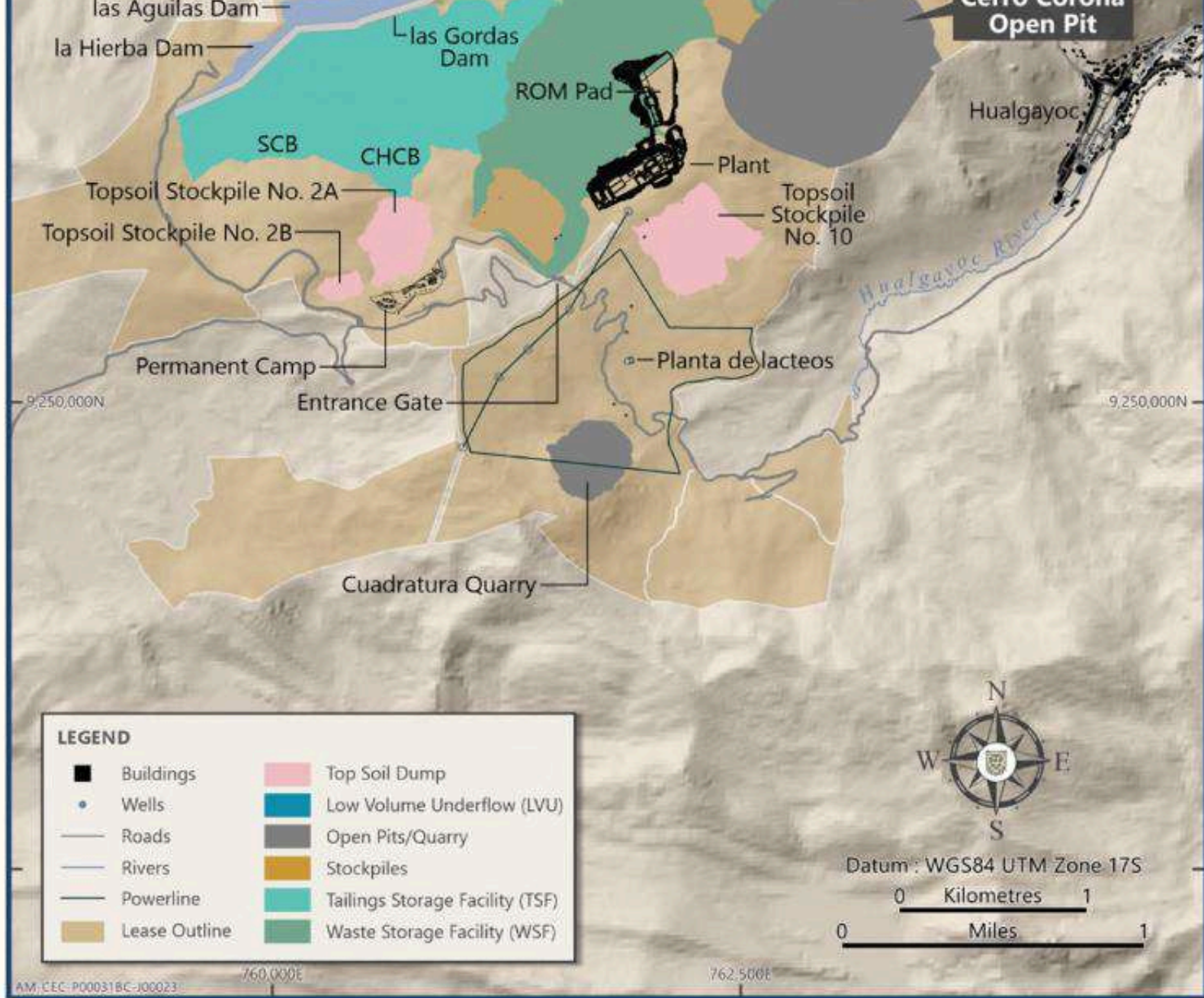
Technical and economic factors associated with the mine design and plan is provided in Section 12.2.2.

Accelerated mining based on nine separate pit stages will exceed processing rates and allow for tailings generated in the future to be placed in the pit.

13.3 Site layout

Figure 13.3.1: Mine site layout





Source: Cerro Corona CPR, 2023

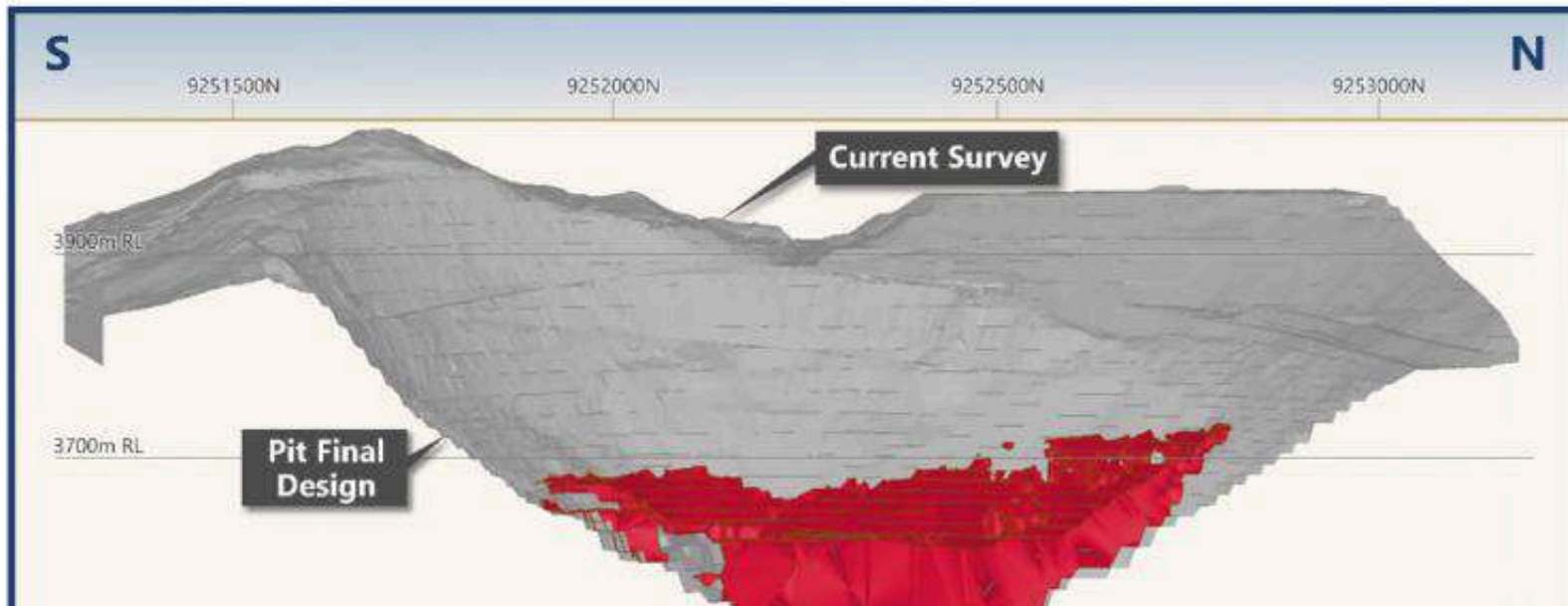
13.4 Equipment and labour requirements

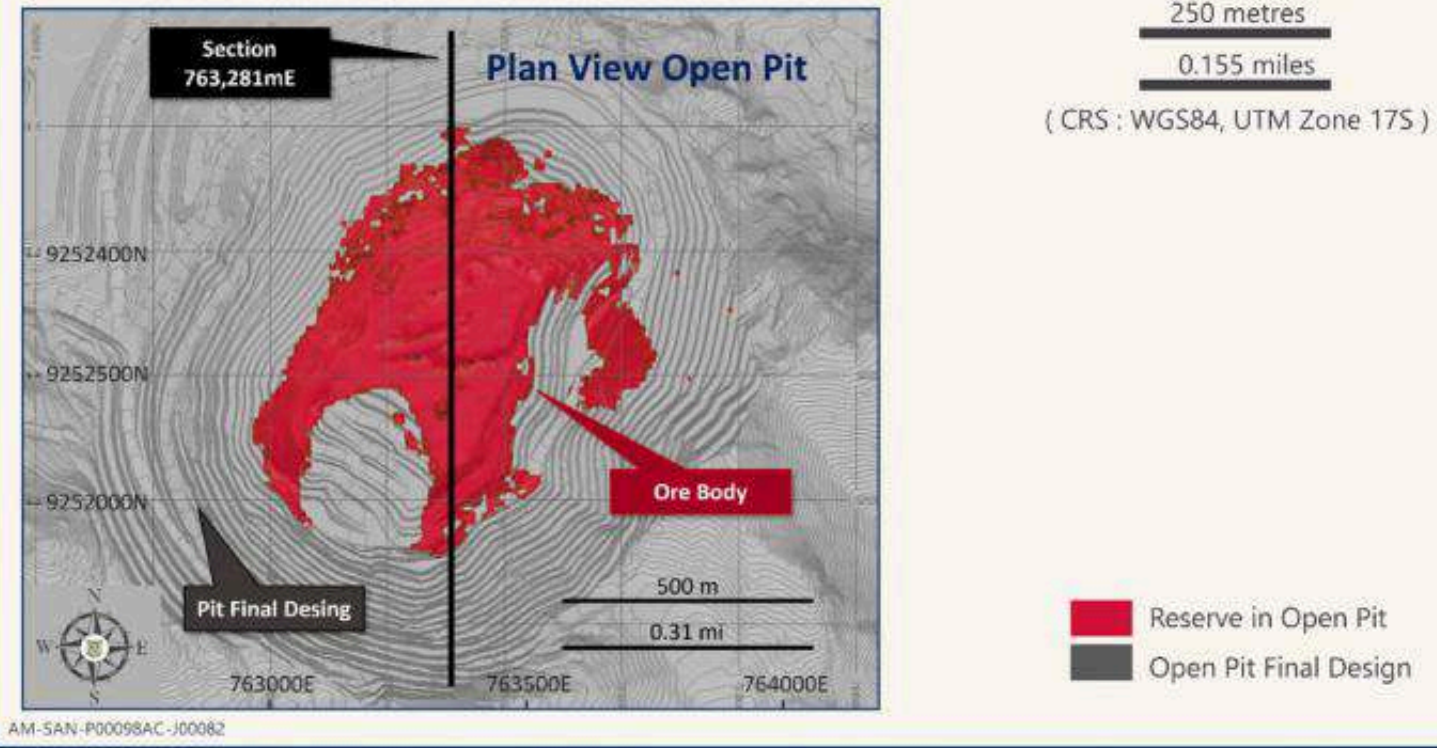
Load and haul activities are carried out by 11 x 40 t trucks, 13 x 45 t trucks, 23 x 55 t trucks and 5 excavators with a bucket capacity varying between 4.8 and 6 m³. As at 31 December 2023, 2,052 employees were employed at Cerro Corona, including 1,678 contractors.



13.5 Final mine layout

Figure 13.5.1: Final mine outline life-of-mine reserve





Source: Cerro Corona CPR, 2023

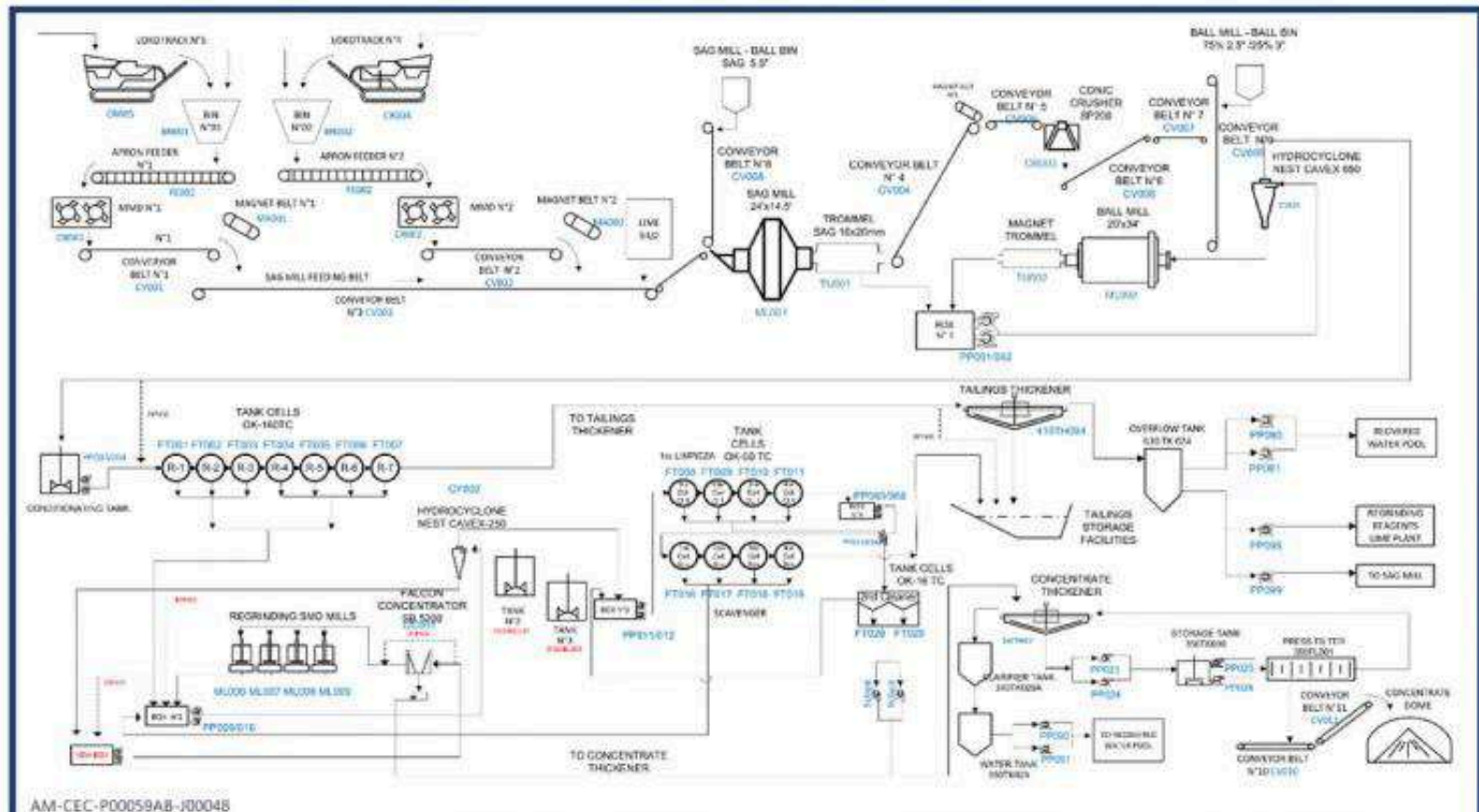
14 Processing and recovery methods

14.1 Flow sheet and design

14.1.1 Flow sheet description

The Cerro Corona process plant is a conventional crushing, grinding and flotation circuit producing a copper and gold concentrate. A schematic flow sheet for the process plant is presented in Figure 14.1.1. The LOM plan is built on a throughput assumption of 774 t/hr or 6.5 Mt/a with an availability of 91.32 %.

Figure 14.1.1: Schematic flow diagram of Cerro Corona process plant



The crushing circuit includes two independent lines (one on duty and one spare) to supply an overland conveyor feeding the SAG mill. Each line has a Lokotrack LT-140E as a primary crusher and MMD Sizer as a primary/secondary crusher that receives coarse material with a top size of 1 m. Fine ore from the mine (-0.23 m) is fed to the hoppers through a belt conveyor (each line includes a 300 t hopper). From the hopper, a 1.07 m apron feeder sends the ore to a MMD Sizer crusher that reduces the ore size from 0.15 m to 0.10 m. The crushed ore is then conveyed by a 1.4m belt feeder to the 1.07 m overland conveyor.

The grinding area includes a 24' x 14.5' SAG mill that reduces the ore size to 1" particle and 20' x 34' ball mill working in a closed circuit with a 26" hydrocyclone nest that reduces the ore particle size to 80 % passing the 140-160 µm mesh range. The pulp is discharged into a conditioning tank which is fed to the flotation plant. A cone crusher was implemented in this area to process pebbles from the SAG mill with the product fed back to the ball mill.

The flotation plant includes a rougher stage of seven flotation cells with 160 m³ from Outokumpu to produce a concentrate recovering 85 %-90 % of the copper and 65 %-70 % of the gold. The rougher flotation tails are thickened in a 36.6 m diameter thickener to a density of 45 %-52 % solids and then piped to the TSF.

The concentrate is processed through two stages of cleaning cells of different size to deliver a concentrate of 20 % copper and 30 g/t gold. The cleaning circuit also includes four regrind mills and five 50 m³ Outokumpu cleaner-scavenger flotation cells. The cleaner tails from this circuit are sent to the TSF.

sent to the final concentrate thickener. The tailing from the gravimetric continues the normal process to the cleaning flotation circuit.

The final concentrate is thickened in a 16 m diameter thickener to 63 % solids and then pumped to a fully automatic Metso filter. Concentrate with 7 %-9 % moisture is stored in a dome with a 5,000 t capacity before loading into 30 t trucks that transport the concentrate over 380 km to Salaverry port. The concentrate is loaded in ships for export to copper smelter around the world.

14.1.2 Plant upgrades and development

Figure 14.1.2: Crushing chamber of new primary crusher (MMD Sizer) installed at Cerro Corona in 2022



Source: Cerro Corona CPR, 2023

14.2 Process plant requirements

Several plant improvement or optimisation projects were recently completed or remain in progress. The key process plant requirements for the next seven years of the Mineral reserve LOM plan are summarised in Table 14.2.1.

Table 14.2.1: Process plant – key requirements summary

Item		2024	2025	2026	2027	2028	2029	2030
Ore processed	(kt)	6,457	6,125	6,216	6,652	6,749	6,730	6,730
Plant power draw	(MWhr)	149,325	141,652	143,768	153,831	156,080	155,636	155,653
Grinding media	(t) – SAG	2,238	2,123	2,155	2,306	2,340	2,333	2,333
Grinding media	(t) – BM	4,407	4,181	4,243	4,540	4,607	4,594	4,594
Lime	(t)	15,006	14,235	14,448	15,459	15,685	15,640	15,642
Frother	(t)	60.7	62.7	65.0	65.2	66.7	65.7	65.1
Collectors	(t)	172	163	165	177	180	179	179
Flocculants	(t)	109	103	105	112	114	114	114
New raw water *	(Kt)	4,200	4,200	4,200	4,200	4,200	4,200	4,200
Plant employees	(No.)	130	130	130	130	130	130	130
Plant Contractors		328	328	328	328	328	328	328

a) Notes: for * Projected Fresh Water Withdrawal

b) This summary is on a 100 % basis.

Source: Cerro Corona CPR, 2023.



Gravity circuit reconfiguration

The existing Falcon gravity concentrator was recently reconfigured for incorporation into the concentrate regrind circuit, recirculating load instead of being fed rougher concentrate. This provides an opportunity for multiple passes of coarse gold to be presented to the concentrator due to recirculation of gold through the regrind circuit hydrocyclones, with the aim to increase gravity recovery.

Replacement of Abon Sizers with MMD Sizers

Replacement of both Abon Sizers with upgraded MMD Sizers with higher hardness rock crushing capacity was

completed during 2021 and 2022.

SAG mill grates configuration change

During 2019 and 2020, Cerro Corona engaged Fluor to review the set-up and performance of the comminution circuit. One of the recommendations made to increase capacity of the circuit was to increase the aperture and open area of the SAG mill discharge grates.

Following trials undertaken in 2020 and 2021, all the discharge grates were replaced with larger apertures of 45-50 x 34 mm, targeting a throughput increase of approximately 4 t/hr.

14.3 Processing risks

14.3.1 Major equipment failure

Industrial mineral processing plants consist of a series of dedicated unit processes, e.g., crushing, grinding, flotation, thickening and filtration. There is inherent risk associated with catastrophic failure of one (or more) of the key equipment items associated with these unit processes, whereby such failure could lead to a significant period of plant downtime until repairs are completed, resulting in the inability of the processing plan to be achieved and/or higher operational costs incurred than anticipated.

Catastrophic failures could be associated with the structural, mechanical, or electrical components of the key processing equipment items. Key equipment items could include the crushers, grinding mills, or flotation tanks.

Risk minimisation activities to reduce the likelihood of such occurrences adopted by Cerro Corona include:

- Dedicated on-site maintenance department which undertakes condition monitoring activities, preventative maintenance and repairs.
- Critical spares (e.g., spare mill motors, bearings and gearboxes).
- Contingency operational plans (e.g., engage a contract/mobile crushing plant, flotation cell by-passing).
- Fire suppression systems.
- Insurances.

Decisions associated with asset management, critical spares, insurances, etc. are outside the responsibility and accountability of the Qualified person, and some inherent risk and uncertainty associated with catastrophic failure of processing equipment remains.

14.3.2 Plant operational management

The processing facilities are managed and operated by dedicated teams of personnel who are required to make many operational and maintenance decisions every day. These decisions can directly impact the performance of the plant while processing the future ore reserves. For example, a decision to process ores at a higher throughput could result in a coarser grind size from the grinding circuit, resulting in a lowering of the plant recoveries.



It needs to be recognised that plant management and the associated decisions made by plant operating personnel, are outside the responsibility and accountability of the Qualified person, and that such decisions and actions taken by plant management can influence the achieved performance of the plant (e.g., throughput, costs, availability and recoveries).

14.3.3 Operating costs, plant consumables and reagents

Operating cost of the processing plant represents a significant cost element to the overall financial evaluation of the Mineral reserve LOM plan. The processing facilities use relatively large quantities of power, reagents and consumables, including fuels, grinding steel media, lime, caustic, etc.

The estimation of future processing costs is required as input into the cutoff-grade calculations and economic assessments of the Mineral reserves and resources. To estimate the processing costs, assumptions are required concerning consumables consumption rates, unit prices and inflation rates.

Metallurgical testing undertaken on the future reserves, and recent plant performance, provides reasonable guidance of potential reagent consumption rates and mill throughput expectations, and this information is considered and reviewed by the plant metallurgist and the Qualified person.

Cerro Coronado, like many other operating gold processing plants with a reasonable operating history, do not allow for

Cerro Corona, like many other operating gold processing plants with a reasonable operating history, do not allow for a discreet operating cost contingency in future operating cost forecasts. The absence of contingency is considered by the Qualified person as being a common and reasonable approach to operational process plant cost forecasting.

Consumables, commodity pricing and inflation are subject to external influences that are outside the control or predictive capability of the Qualified person.

Further to this, operational decisions made by plant management, or unexpected variances in the nature of the ores being processed could unexpectedly impact reagent and consumables usage rates. Such variances are outside the control or predictive expectations of the Qualified person.

14.3.4 Processing long term stockpiles

A key feature of the reserve LOM plan is the accelerated pit mining schedule, with subsequent long-term storage of lower grade ores in stockpiles, for treatment in the last part of the processing life-of-mine. Whilst in storage, this material may be subject to partial oxidation or weathering, which may impact its processing characteristics and potentially the flotation recoveries and processing costs. Based on the testwork undertaken to date, a 4 % reduction in copper grade of the stockpiled ore has been allowed for.

Due to mining production interruptions in 2020 and 2021 caused by the COVID-19 pandemic, processing of the long-term low-grade stockpiles was carried out. During early 2022 an analysis of the operating plant results was carried out by an external specialist, which provided updated copper and gold recovery models to be developed specifically for this longer-term stockpiled material. Refer to Chapter 10 for further information.

The stockpile testwork and studies are on-going at Cerro Corona to identify and test opportunities to improve flotation recoveries while processing this material.

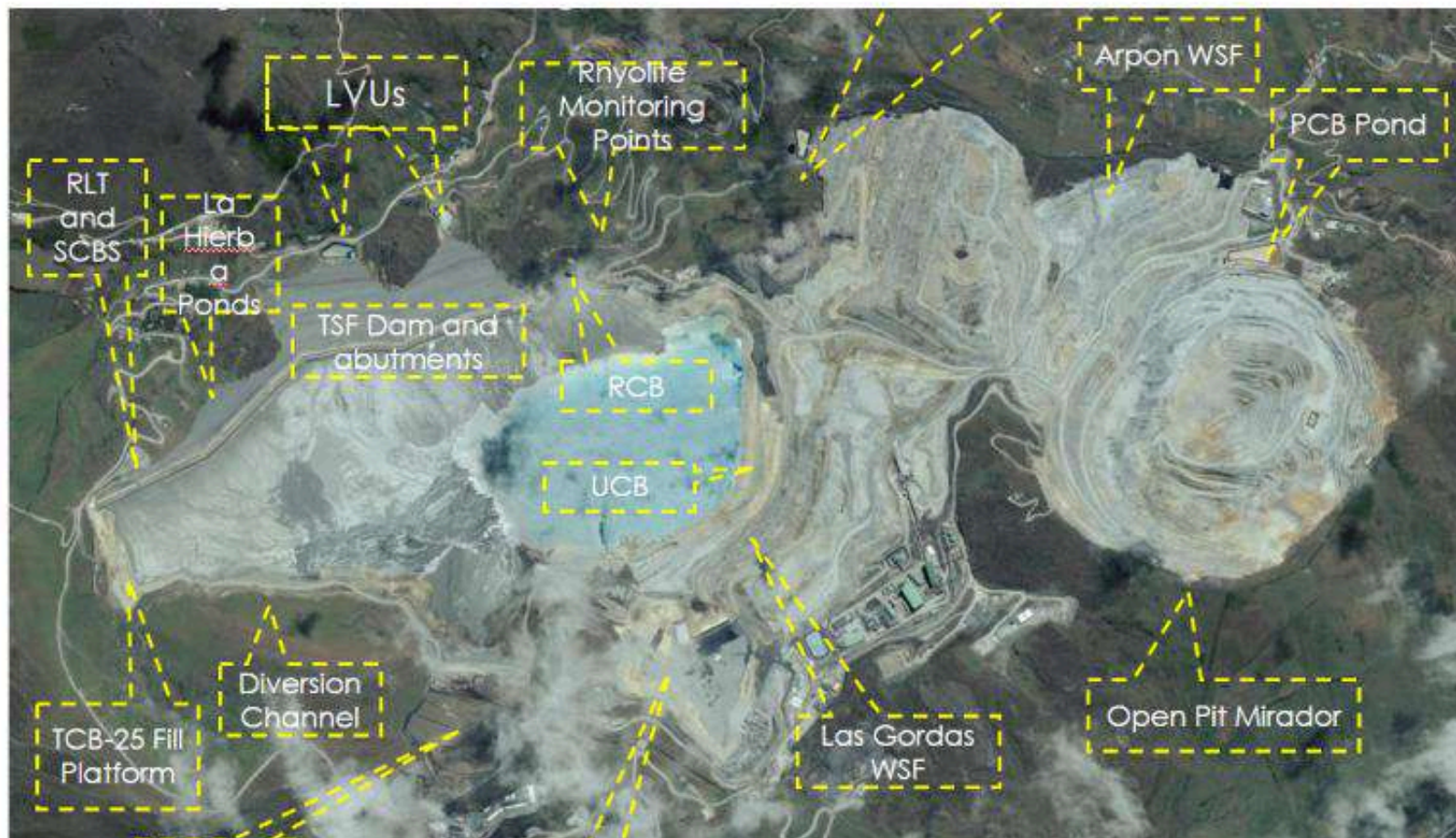
15 Infrastructure

The site infrastructure layout is shown in Figure 15.1.1 details on each major item of non-process infrastructure is discussed in this section. Additional information is provided in Chapters 1, 3 and 4.

15.1 Tailings storage facility (TSF)

15.1.1 Background

Figure 15.1.1: TSF layout





Source: Cerro Corona CPR, 2023

The tailings produced at Cerro Corona come from two process streams called Rougher Scavenger Tailings (RST) at a daily production rate of 17,539 tpd and Cleaner Scavenger Tailings (CST) at a daily production rate of 597 tpd, for a total tailings production rate of 18,136 tpd.

The TSF stores both coarse tailings (RST) and fine tailings (CST). The RST has a lower sulphide content as most of the sulphide mineralisation is floated off in the rougher circuit. At deposition into the TSF, the pH of the tailings streams is elevated due to the addition of lime to the process. There is a potential for acid generation from the CST, while acid generation from the RST is considered negligible.

The RST is thickened to a solids content of approximately 48 – 50 % by weight prior to discharge to the TSF. The CST is not thickened and is discharged at a solids content of approximately 7.36 % (ranging from 2 to 1 %) by weight. The tailings delivery systems comprise the main system typically used during operations, and the other as an auxiliary or emergency system used to bypass the RST or CST transportation systems.

from the deposited tailings and precipitation. The TSF includes a dam that impounds deposited tailing, tailing delivery and water reclaim systems and water diversion and seepage mitigation structures. In addition, diversion structures have been constructed along the southeast side of the TSF to divert surface water flows around the TSF (Figure 15.1.2).

Figure 15.1.2: TSF overview looking west



Source: Cerro Corona CPR, 2023

The TSF was designed by MWH Peru S.A., now part of Stantec International LLC (Stantec). Stantec (Vancouver) is the Engineer of Record (EoR).

The TSF includes a rockfill dam with a low-permeability core and filter and transition zones that extend across the Las Aguilas, Las Gordas and La Hierba valleys to impound the deposited tailing and water within the TSF. The Rhyolite Ridge forms the eastern abutment of the Las Gordas portion of the TSF dam.

The TSF design includes the following seepage containment blankets and Low Volume Underflow (LVU) facilities

designed to mitigate seepage from the facility:

- Upstream Containment Blanket (UCB) – a compacted clay barrier placed along the upstream face of the adjacent.
- Rhyolite Containment Blanket (RCB) – a compacted clay barrier and drainage system placed between the TSF and the Rhyolite Ridge abutment of the TSF to reduce seepage flows through the Rhyolite Ridge.
- LVU facilities – two seepage collection structures located downstream of the TSF near the base of the Las Gordas and Las Aguilas valleys designed to collect seepage flows from the TSF. Each facility includes a grout curtain to prevent subsurface bypass of the facilities, a pond to collect seepage water, and a pumping system to allow for pumpback of captured seepage flows to the TSF.

The optimised TSF dam design was developed to store a minimum of 113 Mt of tailings up to elevation 3,801 m. An ultimate TSF dam crest elevation of 3,803 m is required to store this quantity while complying with the adopted design criteria.

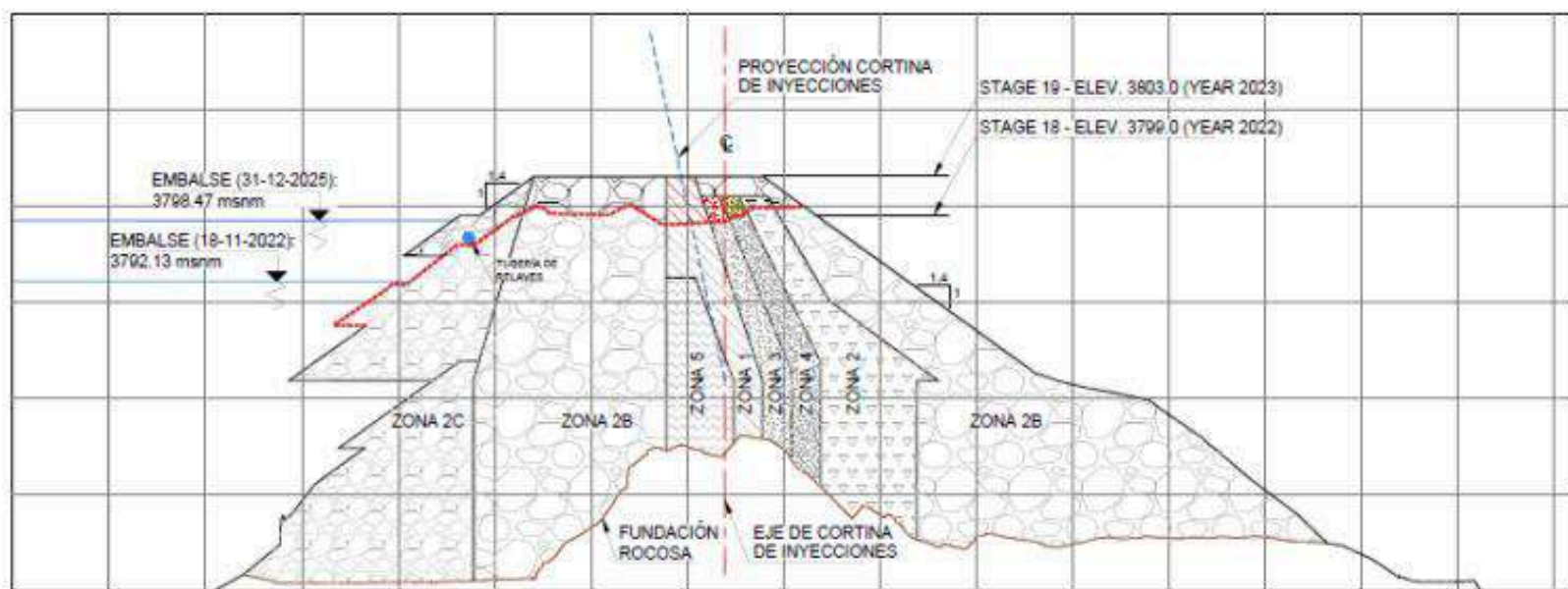
The TSF design followed relevant international and local regulatory requirements, including those of the Peruvian Ministry of Energy and Mines (MEM), the Mining Association of Canada (MAC 2019), the Canadian Dam Association



(CDA 2014) and the International Commission on Large Dams (ICOLD). Since 2018, the TSF has been operated per the ANCOLD Guidelines. As a result, the TSF has an Extreme Consequence Rating per CDA and ANCOLD.

The remaining low permeability (clay) material requirements for the TSF wall construction and RCB to RL 3,803 mRL will continue to be sourced from altered argillic waste rock mined from the open pit. However, clay sources are limited for Zone 1 (clay core, Figure 15.1.3) during the final years of the LOM plan. Therefore, zone 1 material has been sourced from the oxide ore stockpile.

Figure 15.1.3 Typical TSF embankment cross-section



Source: Cerro Corona CPR, 2023

The RCB is located along the north-eastern edge of the TSF, on the upstream face of the rhyolite ridge. A portion of the TSF dam will be built on top of the RCB in some areas to achieve containment within the TSF reservoir up to an elevation of 3,803 m.

The RCB includes a low permeability upstream layer (Zone 7, intermediate permeability material). The perpendicular thickness of the low-permeability blanket decreases from approximately 15 m near the base of the RCB to nearly 7 m at the upper crest of the RCB to keep the seepage gradient below 10. In addition, a compacted rockfill (Zone 2B) lies above a low-permeability blanket to provide continuity between the TSF dam and the RCB. The width of the compacted rockfill decreases from 20 m to 10 m over the length of the RCB.

The Cerro Corona TSF is a priority facility and achieved partial conformance against the GISTM in August 2023.

As of the end of December 2023, approximately 98 Mt of tailings has been deposited, yielding a remaining storage capacity of approximately 15 Mt to meet 100% by August 2025.

The operation of an in-pit TSF following the completion of mining will provide an additional 31.2 Mt of tailings storage up to an elevation of 3,690 masl from 2026 to 2030. The commissioning of the in-pit TSF will be preceded by accelerated mining and stockpiling of ore until 2025. Post-2025, the open pit will be filled with tailings generated through processing the stockpiled ore. The in-pit facility was designed to achieve hydraulic containment during the operational and closure phases. The in-pit TSF tailings surface and reclaim pond elevation will be at 3,690 m. Therefore, the maximum level of hydraulic containment is 3,690 masl.



Table 15.1.1 summarises the LOM deposition projections and available TSF storage for Cerro Corona.

Table 15.1.1: LOM TSF assessment

Parameter	Unit	TSF	In-pit TSF	Total
Final capacity	Mt	113	31.2	144.2
Used capacity	Mt	98	0	98
Remaining capacity	Mt	15	31.2	46.2
Current elevation	RL	3,803	NA	NA
Next raise	No.	Complete	NA	NA

Source: Cerro Corona CPR, 2023

The available TSF capacity exceeds the end of the December 2023 Mineral reserve of 50.1 Mt.

The Qualified person believes that the tailings infrastructure for the Cerro Corona mining operation is fit for the life of mine reserve estimation and that the Mineral reserve quantities are tested against available tailings capacities.

15.2 Waste rock storage facility (WSF)

Mine waste produced by mining activities is stored in multiple waste storage facilities (WSF). These facilities currently have separate names that reflect their location; however, as mining continues, these WSFs will grow larger and eventually form a single connected facility. The Las Gordas WSF is located adjacent to the TSF and is separated from the TSF by the UCB (Figure 15.1.2). The UCB includes an internal drainage and pumping system which allows the water level in the UCB to be maintained at a sufficiently low level to mitigate the risk of offsite seepage. The other WSFs at the site include a composite liner system (low permeability clay and geomembrane) and a seepage collection system to mitigate seepage.

The Las Gordas WSF is situated immediately upstream of the TSF (Figure 15.1.1) and is planned to be partially inundated by the TSF up to 3,800 mRL. The Las Gordas WSF is planned to be constructed to an ultimate elevation of 3,990 mRL in 2025. After this time, the low-grade ore stockpiled on the WSF will be processed and the WSF will be regraded and reclaimed.

The current design provides storage for the required 39.5 Mt of waste based on the December 2023 Mineral reserve.

15.3 Water

The operational requirement for water is approximately 200,000 m³ per month. Volumes of water stored in the TSF per month are defined according to the season to control risk, thus oscillating the volume of clear water in the TSF between 1.2 and 2.8 Mm³ to cover the demand of the operation and ensure the operation of the installed pumping systems.

Rainwater from the mine and other flows are the main sources of water supply for Cerro Corona which is stored in the TSF. Water required for the process plant is sourced from the TSF and returned to the TSF together with the tailings.

Ground and runoff water from the Cerro Corona open pit is pumped to the TSF and is included in the global water balance. When required, a portion of the water stored in the TSF is pumped to a water treatment plant and discharged to the Tingo River in accordance with national discharge regulations and the Water Discharge Licence.

Water supply for the Cerro Corona camp comes from pit dewatering and the UCB drainage system as well as from PPC-1 pumping. A portion of the water pumped from the pit is treated on-site and sent to the camp. Some of this water is also sent to the Hualgayoc basin.



15.4 Power LOM

The power supply at Cerro Corona is part of SEIN (the National Interconnected Electrical System of Peru). Cerro Corona is connected to the Cajamarca North Substation (a 220 kV substation) through the SE Cajamarca North – SE Cerro Corona Transmission Line (33.59 km long with 120 MW of transmission capacity). At the Cerro Corona Substation there are two 25/32MVA ONAN/ONAF, 220/13.8 kV transformers.

At present, the peak maximum demand at Cerro Corona is 19 MW. GFLC has a supply contract with a major Peruvian power generator that allows up to 30 MW. In June 2014, the supply contract was extended to April 2027. In April 2020, GFLC finalised the contract renegotiation to reduce the power supply costs. The average electricity cost in 2023 was \$93/MWh.

The current energy supply is adequate and meets the LOM plan requirements.

15.5 Accommodation

The current capacity of the Cerro Corona camp as of December 2023 is 2,259 beds, with 1,148 beds available for day shift personnel and 911 beds for night shift.

Additional beds are available externally in Lodgings in Hualgayoc, 15 minutes from Cerro Corona. These are used when necessary, according to operational needs.

15.6 Other infrastructure

Other non-process infrastructure includes:

- HME fleet maintenance workshops used by the mining contractor.
- Fuel storage facilities.
- Offices and stores.

Notwithstanding the age, all surface infrastructure and equipment are reasonably maintained and equipped. In conjunction with planned maintenance programs and specific remedial action systems, the general infrastructure is considered adequate to satisfy the requirements of the LOM plan.

The Qualified person is of the opinion that, notwithstanding the age, all surface infrastructure and equipment are adequately maintained and equipped. In conjunction with planned maintenance programs and specific remedial action systems the infrastructure for the Cerro Corona mining operation is considered sufficient to satisfy the requirements of the LOM plan and that the Mineral reserve quantities have been tested and satisfied for dump and disposal capacities.



16.1 Preliminary market study

A review of metal prices for planning purposes is undertaken annually to monitor any significant changes in price trends or exchange rates that would warrant re-calibrating the price deck before the Strategic Planning process transitions into the Business Planning cycle.

This review of the metal price deck has taken account of the prevailing economic, commodity price and exchange rate (Fx) trends, together with market consensus forecasts, in addition to consideration of the Gold Fields' strategy and expectations for the operations.

Our strategy is to (1) mitigate annual volatility by holding planning metal prices as long as warranted to support stability in mine planning, notably regarding the underground MSO and open pit shell selections; (2) maintain appropriate margins on spot and long-term price forecasts to support the Group's BSC metrics; (3) protect against accelerating mining sector inflation and, (4) to confirm a separate gold price to be used specifically for the Operational Plan (budget) revenue streams and cashflows in Q3 each year.

The outcome of the pricing analysis was to use a gold price of \$1,400/oz for Mineral reserves and \$1,600/oz for gold Mineral resources for the disclosure of estimates. These are unchanged from 2022.

Table 16.1.1: Reserve and Resource metal prices

Metal	Unit	December 2023 Metal price Deck	
		Mineral reserve 31 Dec 2023	Mineral resource 31 Dec 2023
Gold	\$/oz	1,400	1,600
Copper	\$/lb	3.40	3.60

Source: Cerro Corona CPR, 2023

The above price deck comparison to market long-term forecasts assessed at the time of analysis is consistent with the Registrants approach to retaining good discipline in support of the Company strategy; this approach ensures Gold Fields' Mineral resources and reserves are not too volatile year-on-year and that the company is protected against possible downside scenarios if the gold price falls up to ~25 % in any specific year. Ensuring sufficient flying height to maintain our margins at prices that could be incrementally lower than the spot price ranges seen in 2022 is also important. Equally, with annual mining sector inflation estimated at \$30-40/oz, we need to ensure we mitigate this escalation risk in the life-of-mine plans and Mineral reserve estimates.

Sensitivity analysis on gold price for project financial evaluation is done to provide flexibility/range analysis for all

regional studies and site growth opportunities and investment purposes.

The Mineral resource gold price premium to the Mineral reserve price is circa 14 % and the differential is in general alignment to our peer group and industry standard practice. The Mineral resource price premium is to provide information on each operation's potential at higher gold prices and to indicate possible future site infrastructure and mining footprint requirements.

Gold Fields may periodically use commodity or derivative instruments to protect against low gold prices with respect to its production. Variations in gold price, currency fluctuations and world economics can potentially impact on the revenue received. No derivative instruments are in place for Cerro Corona at the date of this report.

Most of the gold production is used for jewellery and for investment purposes, in the latter case because the market views it as a store of value against inflation. In addition, certain physical properties of gold, including its malleability, ductility, electric conductivity, resistance to corrosion and reflectivity, make it the metal of choice in several industrial and electronic applications.



Supply of gold consists of new production from mining, the recycling of gold scrap and releases from existing stocks of bullion. Mine production represents the most important source of supply, typically comprising 75 per cent. each year. Annual demand requires more gold than is newly mined and the shortfall is made up from recycling. Management believes that long-term gold supply dynamics and global economy trends will support the gold price at levels above or aligned to \$1,400 per ounce in the long-term.

The market for gold is relatively liquid compared to other commodity markets, with London being the world's largest gold trading market. Gold is also actively traded via futures and forward contracts. The price of gold has historically been significantly affected by macroeconomic factors, such as inflation, exchange rates, reserves policy and by global

political and economic events, rather than simple supply/demand dynamics. Gold is often purchased as a store of value in periods of price inflation and weakening currency. The price of gold has historically been less volatile than that of most other commodities.

Refining services are based on well-established long-term agreements and expediting gold sales over the life of the asset does not represent any significant uncertainty. Service contracts, lease agreements and goods contracts e.g., diesel, cyanide etc. necessary to develop the Property as planned, are in place and have the capability to support the full projected cashflow period.

16.2 Metal price history

Gold prices London Metals Exchange afternoon close

- Gold spot 28 December 2023 - \$2,078.40/oz
- Gold spot 24 month average - \$1,871.88/oz
- Gold spot 36 month average - \$1,847.78/oz
- Gold spot 60 month average - \$1,740.98/oz

Copper prices London Metals Exchange afternoon close

- Copper spot 29 December 2023 - \$8,559.00/t or \$3.88/lb
- Copper spot 24 month average – \$8,671/t or \$3.93/lb
- Copper spot 36 month average – \$8,884/t or \$4.03/lb
- Copper spot 60 month average - \$7,767/t or \$3.52/lb

16.3 Market strategy

Gold Fields La Cima currently has long-term contracts for the sale of approximately 85 % of copper concentrate with gold from its Cerro Corona mine. Under these contracts, concentrate is sold to well-established smelters in Europe and Japan, which have a relationship of more than ten years with the Company; and a leading commodity-trading firm. As the strategy of the Company is to sale and cash all the material produced in the year, the uncommitted production is sold and delivered locally to well-known traders in the spot market.

This strategy allows the strengthening of long-term business relationships with reliable clients, while guarantying a regular destination for the production and providing sustainable future cashflows for the Company. The trader contract adds more flexibility in the overall material delivery. The 15 % of the material sold in the spot market allows additional flexibility for production variances, better inventory management at the end of each quarter, and benefit from possible

and temporary improvements in market conditions.



16.4 Pricing

16.4.1 Prices

Prices for copper under GFLC contracts are based on the daily London Metal Exchange (LME) settlement price for copper. Pricing for gold under each of the contracts is based on the daily average of the London Bullion Market Association morning and afternoon fixing price.

16.4.2 Payables

Based on standards for contracts in the mining industry, the copper payable is 96.5 % with a minimum deduction of 1 unit. For Cerro Corona quality, the deduction of 1 unit always applies. Based on the expected gold content and payable terms in current commercial contracts, the gold payable for the following years is expected to be around 97.4 %.

16.4.3 Deductions

Market conditions for copper concentrates in the long-term are expected to be favourable as there is very little on the horizon in terms of large new mine start-ups to offset the gains of consumption expected due to the green energy

revolution. In the next years, China is expanding its copper smelting capacity, meaning it will start to buy more copper concentrates for processing. Copper treatment and refining charges are influenced by the market conditions, and if a deficit of concentrate is expected, smelters will reduce their charges.

For this study, GFLC expects that the copper deduction will be \$683 per tonne of payable copper and the gold refining charge will be \$5.50 per ounce of payable gold. These assumptions are in line with GFLC's main contracts terms and market conditions in the industry.

16.5 Product specifications

The specifications for the current long-term contracts allow GFLC to sell concentrates within the specifications presented in Table 16.5.1.

Table 16.5.1: Current contract concentrate specifications

Cu	19-22 %	CaO	0.2-0.8 %	Cd	< 0.02	Lead	< 0.1 %
Au	20-45 grams / dmt	MgO	0.08-0.30 %	Cl	< 0.02 %	Sb	< 0.01 %
Ag	20-40 grams / dmt	Mn	0.03-0.1 %	F	< 0.03 %	Se	< 0.05 %
Fe	30-35 %	SiO₂	3-12 %	Hg	< 2 ppm	Tellurium	N/A
S	35-40 %	Al₂O₃	0.5-3.0 %	Ni	< 0.1 %	Zn	< 1.0 %
As	< 0.20 % - <0.5 % (*)	Bi	< 0.05 %	Moisture	7-9 %		

Notes: * As limit varies for each client.

Source: Cerro Corona CPR, 2023

Cerro Corona's usual concentrate quality is considered "clean", as it does not contain any deleterious elements that could be penalised by smelters. Table 16.5.2. From 2024 onwards, the arsenic contents are expected to comply with contractual specifications. Still, arsenic will be monitored along the supply chain. The expected annual average arsenic grades for the Cerro Corona concentrate from 2024 through to the end of the LOM plan in 2030 are shown in Table 16.5.2.

Table 16.5.2: Average Cerro Corona concentrate arsenic grades.

	2024	2025	2026	2027	2028	2029	2030
Arsenic ppm	868	596	540	805	1,612	1,166	1,499

Source: Cerro Corona CPR, 2023

The copper grade in concentrate is predicted to be around 21 % for 2024 onwards. Until 2030, Cerro Corona's copper concentrates will continue to have their quality characterised by a high gold content, above 20 grams (Table 16.5.3).

Table 16.5.3: Gold concentrate grades

	2024	2025	2026	2027	2028	2029	2030
Gold grade (g/t)	26.1	26.33	22.76	20.83	20.91	22.40	36.09

Source: Cerro Corona CPR, 2023

Because of these characteristics, Cerro Corona's concentrates will be in demand by copper smelters that recover gold. The expected quality is in line with current contractual specifications.

16.6 Distribution, storage and shipping

GFLC transports concentrates from Cerro Corona to the warehouse at Salaverry port using Transporte Rodrigo Carranza's (TRC) fleet of 30 wmt trucks organised in groups of 7 trucks per convoy. To dispatch an average of 450 wmt per day, three convoys are deployed six days a week. The inland freight is managed in a long-term contract and is adjusted every six months based on the exchange rate, the inflation rate and the cost of fuel.

Concentrates are stored in the Salaverry warehouse and loaded through Salaverry port. Salaverry Terminal International S.A (STI) offers storage services, use of the port and loading services by retainers at a fee of \$16.458/TM.

The ocean freight for shipments to the Far East and Europe are managed through a contract of affreightment that are negotiated annually. These contracts allow GFLC to comply with its shipping schedule and commitments with clients.



individuals or groups

Climate change is an integral part of the Mineral reserve generation process and incorporating relevant costs associated with climate change, primarily decarbonisation, mitigation and adaptation to the changing climate, is a key theme for the Company. Integration of these key elements into the Mineral reserve process is being carried out progressively and simultaneously across all of Gold Fields' sites.

17.1 Permitting

Cerro Corona's Environmental Impact Assessment (EIA) was approved in December 2005 allowing development activities until the approval of the operation permit ("*Concesión de beneficio*") by the General Mining Bureau (GMB). The construction permit was approved in February 2006 and the Certificate of Mining issued in December 2007. The process plant and ancillary facilities were constructed, inspected and approved by GMB.

Since December 2015, the National Service for Environmental Certification for Sustainable Investment (SENACE) has been authorised to review and approve EIA studies for projects with national or multi-regional influence that may generate significant environmental impacts. SENACE is a public specialised office which falls under the Ministry of the Environment.

Several components of the Cerro Corona construction and operations plans were modified from the plans submitted to the EIA and GMB. In this regard, eight modifications to the original EIA and thirteen Supporting Technical Reports (STR) applicable for new components or modifications that do not involve significant environmental impacts were submitted to and approved by the regulators.

The eighth modification to the EIA (EIA 8) was approved by the authorities during Q4 2019, allowing an increase in the footprint of the open pit, expansion of the TSF to 3,803 masl and expansion of WSF at Arpon and Ana. An in-pit TSF will be included in the ninth modification of the EIA (EIA 9) for approval before construction commences. Compliance with EIA 9 and other permits derived from it is required before March 2026 when the first tailings material will be deposited into the open pit and is supported by a comprehensive permit application process to the regulator with approval expected by Q1 2026.

Gold Fields has obtained the following permits and approvals for its operation in Cerro Corona:

- Cerro Corona EIA (2005).
- Certificate for archaeological clearance (CIRA) for the whole Cerro Corona surface area.
- Approval of modifications to the Cerro Corona EIA, as follows:
 - Quarries (2007).

- Optimisation update (2008).
- Storage, transportation and shipping of concentrate at Salaverry port (2010).
- New Oxides Processing Plant (2011)¹.
- Modification of the route for ore concentrate and materials transportation (2012).
- Optimisation project and update (2013).
- 7th modification that includes optimisation of mining operations (2016).
- 8th modification that includes the WSF expansion (Arpon and Ana).
- Thirteen STR (last approved in 2022).
- Water use and discharge permits.

¹ The implementation of the oxides processing plant was dismissed by Gold Fields after this EIA update approval; however, other components and commitments of this EIA update are still applicable to Cerro Corona.



- Approval of operation permits after EIA and STR approvals.
- Mine closure plan (MCP) and updates:
 - Cerro Corona mine closure plan (2008).
 - Update of Cerro Corona mine closure plan (2010).
 - Update of Cerro Corona mine closure plan (2011).
 - Update of Cerro Corona mine closure plan (2013).
 - Update of Cerro Corona mine closure plan (2014).

- Update of Cerro Corona mine closure plan (2017).
- Update of Cerro Corona mine closure plan (2021).
- Update of Cerro Corona mine closure plan (2022).

A summary of current Cerro Corona permits is provided in Table 17.1.1.

Table 17.1.1: List of Cerro Corona permits

Permit	Type	Purpose	Registered holder	Status	Grant date	Expiry date
UEA Carolina N°1 *	Mining concessions	Approval of mining concessions	Gold Fields	Approved	June 2005	Holder must comply with legal requirements to maintain concessions
Modification to the UEA Carolina N°1	Mining concessions	Updates to mining concessions	Gold Fields	Approved	November 2006	
Modification to the UEA Carolina N°1	Mining concessions	Updates to mining concessions	Gold Fields	Approved	April 2008	
Modification to the UEA Carolina N°1	Mining concessions	Updates to mining concessions	Gold Fields	Approved	December 2011	
Cerro Corona EIA	EIA	Environmental certification for Cerro Corona project	Gold Fields	Approved	December 2005	Not applicable
Construction permit (concentrator plant and TSF)	Construction permit	Construction of process plant, TSF and ancillary facilities	Gold Fields	Approved	February 2006	Not applicable
EIA Modification – Quarries	EIA	Implementation of new quarries	Gold Fields	Approved	September 2007	Not applicable
EIA Modification – Optimisation Update	EIA	Relocation of concentrator plant and other modifications	Gold Fields	Approved	June 2008	Not applicable
Approval of concession for ore processing	Operation permit	Operation of concentrator plant and tailings disposal	Gold Fields	Approved	August 2008	Not applicable
EIA modification – Storage, Transportation and Shipping of Concentrate at Salaverry Port	EIA	Storage, Transportation and Shipping of Concentrate at Salaverry Port	Gold Fields	Approved	January 2010	Not applicable
EIA Modification – New Oxides Processing Plant	EIA	Implementation of a new oxides processing plant at Cerro Corona	Gold Fields	Approved	September 2011	Not applicable
EIA Modification – Modification of the Route for Ore Concentrate and Materials Transportation	EIA	New routes for concentrate transport from Cerro Corona to Salaverry port	Gold Fields	Approved	March 2012	Not applicable
EIA Modification – Optimisation project and update	EIA	Pit/WSF expansion and other modifications	Gold Fields	Approved	August 2013	Not applicable
Modification of concession for ore processing	Operation permit	Increase the capacity of concentrator plant from 18,600 tpd to 22,320 tpd	Gold Fields	Approved	January 2015	Not applicable
7 th EIA Modification – Optimisation of mining operations	EIA	Pit/WSF expansion and other modifications	Gold Fields	Approved	March 2016	Not applicable
8 th EIA Modification – Optimisation of mining operations	EIA	Pit/WSF expansion and other modifications	Gold Fields	Approved	June 2018	Not applicable

8 th EIA modification	EIA	Pit, WSP and TSF expansion and other modifications	Gold Fields	Approved	October 2019	Not applicable
Sixth update of Cerro Corona Mine closure Plan	Mine Closure Plan	Update of mine closure plan after 8 th EIA modification approval	Gold Fields	Approved	July 2021	To be updated once a new EIA modification is approved
Seventh update of Cerro Corona Mine closure Plan	Mine Closure Plan	Update of closure schedule and annual guarantee	Gold Fields	Approved	July 2022	To be updated once a new EIA modification is approved
Thirteen STR	EIA	Operational modifications including pit expansion	Gold Fields	Approved	September 2022 (last approved)	Not applicable



Permit	Type	Purpose	Registered holder	Status	Grant date	Expiry date
Plan for adaptation to new Peruvian Water Quality Standards and discharge limits	EIA	Environmental certification for new water treatment plant for TSF discharge required to remove sulphates for compliance of water quality standards in Tingo River	Gold Fields	Approved	September 2021	Not applicable
Water license Las Gordas and Las Aguilas creeks	Water use	Water storage at TSF and supply for operations	Gold Fields	Approved	August 2008	Not applicable
Water license borehole PPC -I	Water use	Water supply for operations	Gold Fields	Approved	September 2008	Not applicable
Water license – pit dewatering	Water use	Pit dewatering and water supply for operations	Gold Fields	Approved	November 2008	Not applicable

Notes: * UEA: Administrative and Economic Unit (group of mining concessions).

- The Qualified person has selected significant permits to demonstrate permitting.
- The Qualified person is of the opinion that the licenses are in good standing and that any current or future licensing can and will be obtained for the Mineral reserve or the Mineral resource.
- The Qualified person is of the opinion that Cerro Corona has a good standing with licensing authorities, community groups and that licensing is not expected to be material to Mineral reserves or Mineral resources.
- Cerro Corona is conducting continuous rehabilitation and has a large closure liability. The Qualified person is of the opinion that the closure estimates and duration are reasonable and practical and that appropriate funding provisions are in place to expedite all obligations.

According to the Peruvian regulations the mine closure plan is guaranteed annually by a bond letter. The total amount of bond guarantees submitted to the MEM by 2023 (issued by Banco de Crédito del Perú and Scotiabank) is \$91,108,886. The total amount of the guarantee is completed progressively (yearly) up to the last year of operations according to the schedule and calculations approved by MEM in the closure plan.

17.2 Environmental studies

Environmental management by Cerro Corona since construction is conducted with a rigorous Environmental Management System (EMS). Cerro Corona first obtained ISO 14001:2004 certification in 2009.

Since 2011, Cerro Corona has been certified in accordance with ISO 14001:2004 and OHSAS 18001:2007 or ISO 45001 standards and has established an integrated Safety, Occupational Health and Environmental Management System, which subscribes to international best practices and Peruvian legal requirements.

In May 2023 and November 2023, Cerro Corona completed the annual external audits of its integrated management system with a recommendation that the mine maintains ISO 50001:2011, ISO 45001:2018 and ISO 14001:2004 certifications.

Several environmental studies have been completed in the area, most of which are compiled and submitted to the authorities as support for the EIA processes. The following lists summarises the studies completed in recent years:

- Hydrogeological characterisation of Cerro Corona and numeric (predictive) models.
- Climate change vulnerability assessment and adaptation plan.
- Environmental monitoring (air, water, soil, noise, vibration, biodiversity, weather).
- Environmental geochemical tests onsite.
- Environmental geochemical models for Cerro Corona.
- Air quality and noise modelling.
- Water balance at catchment level.
- Operational water balance.
- Hydrologic studies.
- Onsite pilot test of covers for mine closure.
- Pre-feasibility level mine closure plan.



17.3 Waste disposal, monitoring and water management

17.3.1 Tailings storage facilities (TSF)

Consequence classification

The Cerro Corona TSF has an Extreme consequence classification in accordance with the GISTM.

Freeboard

During Q4 2023, adequate freeboard was maintained within the required limits around the TSF.

Freeboard measurements completed on 15 December 2023 indicated the pond level to be at 3,792.56 masl with the embankment crest level at 3,801.8 masl (updated December 2023), yielding a freeboard of approximately 9.24 m, which is more than the required freeboard of 3.50 m (considering the IDF of 1.5 Mm³ and the Stage Storage Curve provided by Stantec).

Stability assessments

The stability of the TSF embankments is evaluated annually, incorporating results from field and laboratory testing campaigns. The performance and data trends of instrumentation are also considered in the assessments. According to the EoR, the stability of the embankments is satisfactory, and the key performance indicators align with the facility design criteria and design intent.

Groundwater containment

The UCB is a compacted clay barrier placed upstream of the adjacent Las Gordas WSF to reduce seepage flows from the TSF to the WSF. The UCB is located along the eastern side of the TSF within the upper Las Gordas valley. The UCB design consists of compacted low permeability (Zone 7) material placed at a perpendicular thickness that tapers from approximately 15 m near the base of the UCB to a minimum of 3 m at an elevation of 3,765 m. Above this elevation, the perpendicular thickness of the low permeability material remains at a constant width of 3 m to the ultimately proposed TSF elevation of 3,800 m. The UCB currently has four installed horizontal drains. These horizontal drains, installed at elevations of 3,695 m, 3,723 m, 3,735 m and 3,750 m, consist of Zone 2A, Zone 3, and Zone 4 drainage materials surrounding a 24-inch perforated high density polyethylene (HDPE) pipe.

Zone 4 drainage materials surrounding a 24-inch perforated high-density polyethylene (HDPE) pipe.

In addition, to control water levels within the Las Gordas WSF, a finger drain system designed by Knight Piésold was constructed beneath the facility before waste placement. This finger drain system ties into the lowest longitudinal UCB drain at an elevation of 3,695 m. The horizontal UCB drains are connected to two side slope risers, one located in the northern portion of the UCB and the other in the southern portion. Submersible pumps are installed within these risers to control the water level in the UCB by pumping the flows collected in the horizontal drains.

The RCB is a compacted clay barrier and drainage system placed between the TSF and the Rhyolite Ridge abutment of the TSF to reduce seepage flows from the TSF through the Rhyolite Ridge. The RCB is located along the north-eastern edge of the TSF, on the upstream face of the Rhyolite Ridge.

In some areas, a portion of the TSF dam will be constructed on top of the RCB to achieve containment within the TSF impoundment. The RCB includes an upstream layer of low permeability (Zone 7) material. The thickness of the low permeability blanket tapers from approximately 15 m near the base of the RCB to approximately 7 m at the upper elevations of the RCB to maintain a hydraulic gradient of 10 or less. Compacted rockfill (Zone 2B) overlies the low permeability blanket material to provide continuity between the TSF dam and the RCB and upstream support for the RCB. The width of the compacted rockfill decreases from 20 m to 10 m over the length of the RCB.

In addition, the RCB includes a drainage system to manage seepage flows through the blanket. The drains are beneath the low permeability blanket material adjacent to the rhyolite bedrock. The drains consist of a blanket drain (Zone 3 material), longitudinal drains composed of aggregate (Zone 4 material), and two perforated HDPE drainage pipes installed horizontally at elevations of 3,755 m and 3,761.5 m. These two lines penetrate the core of the TSF dam at the Las Gordas right abutment and convey collected seepage flows to the downstream Las Gordas LVU.



These systems operate well within their operating ranges, and water levels within the TSF are maintained below the

critical water containment elevations.

Water quality

Seepage from the TSF, as monitored in the LVUs on the downstream side of the dam, has shown steady circum-neutral pH but increasing concentrations of parameters such as sulphate and sodium over time, indicative of tailings supernatant water chemistry.

Instrumentation

The monitoring instruments installed at the TSF include satellite monitoring (InSAR), laser scanning, manual inclinometers, Shape Array inclinometers, Casagrande piezometers, vibrating wire piezometers, settlement cells, topographic prisms, accelerographs and triangular weir flowmeters. The instruments were installed in stages as the dam and containment blankets were built. Currently, most of the dam's instruments have a telemetry system, which allows real-time monitoring of them.

Information and data obtained from the instruments are reviewed and compared with the design assumptions. Periodic observations and documentation of developing conditions are also made. This observation method helps to quickly recognize conditions that differ from those assumed for the design. Modifications can be made to construction and operation to address these conditions.

Since 2019, the TSF has been monitored using interferometric synthetic aperture radar (InSAR) by satellite. This monitoring allows obtaining measurements of the deformations of the Cerro Corona site, including the TSF. Additionally, satellite images are used to monitor the length of subaerial tailings beaches and the extent of ponds.

Since 2019, Stantec has implemented the Cerro Corona TSF Trigger Action Response Plan (TARP). It is a risk management plan consisting of planned responses when previously defined trigger levels for specific instrument readings and observations are exceeded as part of TSF surveillance. The TARP applies to specific instrumentation directly related to dam safety and proper operation of the TSF. It consists of activation levels (green, yellow, orange, red or black), each with a different response plan. These activation levels are defined quantitatively. Additionally, a brief description of the basis and/or justification for each trigger level is included for each monitoring parameter. The latest version of the TARP is version 6, dated November 15, 2022.

Construction

Construction of the TSF Stage 19 to the target final elevation of 3,803 masl commenced during Q2 2023 and has now been completed.

Audits and inspections

Routine inspections include:

Routine inspections include:

- Daily visual inspections.
- Weekly visual inspections.
- EoR Quarterly. Weekly data reviews.
- IGTRB external annual reviews.
- Dam safety review as necessary.
- Post inspection to extreme events as necessary.
- Routine instrumentation inspection.

The Tailings Supervisor, Construction Supervisor and QA Supervisor on duty perform daily visual inspections of the facility. These inspections focus on dam construction, pond location and dam performance. The personnel responsible for visual surveillance activities are trained to identify potential or developing problems through visual inspections. A



key aspect of monitoring is the repetitive observation of the same feature to assess changes and their rate of change (e.g., crack extension, increased seepage, etc.).

In July 2023, the GISTM Self Assessment was carried out to review the percentage of conformance with the implementation of the GISTM. It was led by the corporate team and validated by ERM. In the disclosure report released on August 5, a conformance level of 87.5% was achieved for Cerro Corona, leaving action plans to be completed by July 2025.

Engineer of Record (EoR) reviews

The EoR performs quarterly inspections, attends quarterly meetings, and prepares quarterly EoR Reports for the TSF. For example, Stantec performed the 2023 Q4 EoR inspection in December 2023.

In general, conditions appear similar to the 2023 Q3 inspection. Surveillance data indicate the continued performance of the TSF Dam and containment blankets with no signs of slumping, cracking, uncontrolled seepage or piping. In addition, monitoring data generally indicates readings within the “Green” TARP threshold with no significant changes in readings.

No new dam safety deficiencies or non-conformances were identified in 2023 Q4. Currently, there are 5 active dam safety deficiencies and 3 dam safety non-conformances.

IGTRB

IGTRB No. 57 meetings were held during Q3. Subsequently, the board provided a summary of IGTRB observations derived from the site visit and technical briefings in Cajamarca held from August 7 to 11, 2023. IGTRB members Leslie Smith and Richard Davidson attended this meeting and participated in the preparation of the briefing and report.

At the time of the site visit, the final raising of the main dam (level 3803 meters above sea level) was underway, and its completion was scheduled for the end of October. The UCB and RCB seams were at an average elevation of 3800 m; the TCB 25 platform was completed at 3803 m, and the pond level was at 3792.1 m

Based on the information provided and observations from the site visit, the IGTRB concurs with the opinion of the EOR and the DSR design reviewer that the construction of the TSF and WSF has gone well and meets the design specifications.

The IGTRB remains satisfied with the EOR’s knowledge, experience and foresight in addressing potential concerns, with an effective working relationship with GFLC operations and construction teams and contractors.

The IGTRB is of the opinion that GF has a good understanding of the challenges involved in managing process water in the transition period from tailings deposition in the TSF to deposition in the pit.

The IGTRB was very impressed with the publication of the public disclosure document to demonstrate compliance with the GISTM. Gold Fields was one of the first ICMM members to publish this document.

The 2024 IGTRB annual site visit will be scheduled for the week of September 2-6.

Third-Party Reviews

Gold Fields contracted SRK Consulting (Australia) to perform a Dam Safety Review (DSR) of the Cerro Corona TSF. SRK visited and inspected the Cerro Corona Mine site during the week of 12 September 2022 and met with staff from Stantec and Gold Fields. SRK delivered the final report in the second quarter of 2023 (May – June).

The Qualified person has the opinion that the procedures, monitoring and water management practices are adequate in support of the life-of-mine Mineral reserve estimate. The TSFs at Cerro Corona are being well managed from a dam safety and governance perspective.



17.3.2 Waste rock dumps

The Factor of Safety (FoS) criteria, selected for long-term surface and deep stability, were obtained from waste rock deposit guidance documents based on risk-based approaches which classify the waste rock deposit according to the probability and factors related to the consequence. This document was produced by Stantec.

The waste materials destined for disposal contain a high concentration of sulphur, mainly diorites with a rapid oxidative tendency, reaching hyperacid conditions (pH <3.5) in very short periods of time so they will control the chemistry of the resulting contact water. The behaviour over time of the diorites, in their different degrees of alteration, are responsible for the final water quality of the reservoir. The sectorised geochemical modelling determined the areas of the reservoir with the highest degree of acid drainage generation, allowing a sectorised management for its control in operation and closure, with the Gordas / Facilities sector being the major generator of acid drainage.

Cerro Corona has identified incidences of acid mine drainage (AMD) generation, and the risk of potential short-term and long-term AMD issues at Cerro Corona. Cerro Corona commissioned additional technical studies during 2015 to 2022 to identify the steps required to prevent or mitigate the potentially material AMD impacts, but none of these studies have allowed the mine to generate a reliable estimate of the total potential closure cost. Cerro Corona continues to investigate technical solutions to better inform appropriate short- and long-term mitigation strategies for AMD

management and to work towards a reasonable cost estimate of these potential issues.

The Qualified person is of the opinion that the waste rock dumps at Cerro Corona are adequate for this life-of-mine reserve plan. Regular waste rock inspections are performed to assess safety.

17.3.3 Water management

Cerro Corona's strategic objective is to manage water efficiently to ensure compliance with legislation and keep this resource in quality and quantity for the surrounding communities. Cerro Corona has permits for water use from the Las Aguilas and Las Gordas creek basins, groundwater from borehole PPC-1 and water from pit dewatering (surface and groundwater). Other licences related to TSF effluent discharge, treated runoff discharge to Mesa de Plata creek and treated runoff discharge from Cuadratura quarry include:

- Pit dewatering water use licence (60 L/s underground and 50 L/s surface).
- Las Gordas and Las Aguilas creeks water use licence (68 L/s or 2,144,448 m³ per annum).
- PPC-1 well water use licence (6.2 L/s for drinking and industrial use water).
- Water discharge permits:
 - Tailings storage facility discharge to Tingo river.
 - Treated runoff discharge to Mesa de Plata creek.
 - Treated runoff discharge from Cuadratura quarry.

The TSF is a major water source as it also receives runoff water from the mine and other flows. When required, a portion of the water stored in the TSF pond is pumped to a water treatment plant and then discharged into the Tingo River. This is done in accordance with the approved Water Discharge Licence.

There are several environmental management programs in place at Cerro Corona mine to prevent, mitigate and control any potential environmental impacts that may hamper operations at the mine. Some of the programs already in place include: ISO 14001 certification, environmental monitoring, water treatment systems for discharges to the environment, water recycling from the TSF, geochemical tests and submission of monitoring reports to governmental authorities and the local community.

Daily, weekly and monthly water samples are taken and submitted to independent laboratories to ensure that effluent discharges are within parameters stipulated by Peruvian Legislation. Other water controls include lining of WSF foundations to reduce seepage to groundwater, freeboard at the TSF, TSF seepage collection and recirculation, predictive site water balance, diversion of natural runoff to avoid contact with mining facilities, among others.



Water management at Cerro Corona is based on the principles of the Cerro Corona Water Management Policy. This policy defines a three-year water management strategy that contains the actions required to achieve the goals of the water management policy, the progress of these actions is reported quarterly to corporate office.

An important component of water management is water quality monitoring. In this regard, Cerro Corona has an extensive network of water monitoring stations onsite with a comprehensive system for data collection, storage, processing and reporting.

Cerro Corona has a dedicated team for water management, which is multidisciplinary and has the necessary budget and resources to properly do their activities.

Cerro Corona updated its Water Strategy to the year 2030 and developed its 3-year tactical plan (2024-2026) for implementation of the strategy. Also, a third-party verification was done to Cerro Corona against the ICMM Water Stewardship Maturity Framework. The assessment concluded that Cerro Corona has an advanced level of compliance with the ICMM standard. Gold Fields was among the first mining companies that piloted the ICMM framework.

The Qualified person has the opinion that the procedures, monitoring and execution of the water management plan are adequate for supporting the life-of-mine Mineral reserve estimate.

17.4 Social and community

Apart from those considered in the social closure plan approved in the VIII MEIA in force (Modification of the Environmental Impact Study), there are no agreements that oblige Cerro Corona to serve landowners or community entrepreneurs once mining activities are completed.

As part of Gold Fields' strategy, in 2023 Cerro Corona achieved 29.7 % employment of host community labor (742 people) exceeding the target, while 12.7 % of total purchases involved host community companies (\$30.9 million) reaching the internal target. In addition, 150 local companies were given the opportunity to participate in Cerro Corona's various services. In addition, 181 jobs in projects executed outside the mine were completed in 2023.

During 2023, the main objectives of the sustainable development program focused on the development of projects related to infrastructure, agriculture, livestock, genetic improvement and veterinary service as well as water supply for

communities in the direct area of influence, support for educational projects, technical training, university scholarships and professional internship program with the participation of Cerro Corona's main contractors. Likewise, as part of the multi-stakeholder strategy, 15 qochas have been inaugurated with the Ministry of Agriculture through the "Punche Perú" plan and three private initiatives were submitted to the Ministry of Housing, Construction and Sanitation for rural sanitation (under the works for taxes program).

17.5 Mine closure

Cerro Corona submitted its mine closure plan (MCP) in December 2006, obtaining approval from MEM in June 2008. However, due to subsequent modifications of the EIA, several updates to the MCP were completed. The last approved MCP was received in July 2022. The plan has been developed in accordance with legal requirements and Gold Fields Integrated Mine Closure guidance, which aligns with the International Council on Mining and Metals (ICMM) guidance. The Mine Closure Plan determines the mine closure requirements and calculates the financial or closure cost liability associated with closure.

The MCP approved by MEM includes stakeholder engagement, decontamination, dismantling, re-profiling and revegetation of land or landforms, maintenance and monitoring, including post closure water monitoring (after rehabilitation is completed) including the activities for final and progressive closure of all Cerro Corona facilities and its operations at Salaverry port. Specifically these include:

- Waste rock storage facility: Cover of the facility with low permeability materials, drainage layer and topsoil for revegetation. Implementation of channels for surface drainage.
- Open pit: Pit lake formation after conclusion of mining.

- Concentrator plant: Decommissioning, demolition and covering the area with topsoil for revegetation.

- Other facilities: Decommissioning, demolition and covering the area with topsoil for revegetation.
- The mine closure activities are designed to achieve physical and geochemical stability of all the components of the mine. The MCP also includes an environmental monitoring plan at key locations for the post closure stage. In addition, the plan includes a schedule for site inspections during post closure to verify the condition of rehabilitated areas.
- Cerro Corona originally developed their closure cost estimate using the Standardised Reclamation Cost Estimator (SRCE) model. Closure costs are reviewed every year to reflect actual and proposed disturbances and changes in closure requirements. The closure cost estimate, developed for asset retirement obligation purposes, is updated and reviewed, externally, every year by an independent consultant, and reviewed annually as part of the Group financial assurance.
- The total cost approved by MEM for the Cerro Corona MCP is \$179.5 million. According to the Peruvian regulations, this amount is guaranteed yearly. In the case of Cerro Corona, it is guaranteed by a bond letter which is revised progressively up to the last year of operations according to the schedule and calculations approved by MEM in the MCP.
- The Technical Services team at Cerro Corona continues with investigations and the development of engineering to refine the MCP measures for Cerro Corona. These studies include tailings consolidation, cover designs, hydrogeology, among others.
- The Qualified person is of the opinion that the closure estimates and duration are reasonable and practical and appropriate plans, including continuous rehabilitation, and funding provisions are in place, as regulated, to support execution of the life-of-mine plan and to meet the closure liabilities.



18 Capital and operating costs

18.1 Capital costs

The capital expenditures are based on detailed requirements for the next two years based on the 2024 and 2025 approved budgets and have an order of accuracy of $\pm 10\%$. Capital estimates beyond two years are based on pre-feasibility or better estimates for infrastructure and development requirements for individual projects with nominal allowances made for general overheads and processing capital requirements. As it can be seen in the capital forecast, 90 % of the capital will be expended during the next two years.

The major capital items at Cerro Corona are related to the construction of the TSF Water Treatment Plant and the in-pit tailings facility. The LOM capital expenditure forecast was updated and approved in October 2023 as part of the 2024 budget process, totaling \$73 million.

Table 18.1.1 summarises the forecast of sustaining and project capital expenditures for Cerro Corona.

Table 18.1.1: Capital costs forecast

Cost item	Units	2024	2025	2026	2027	2028	2029	2030
Mining MP&Dev	\$ million	-	-	-	-	-	-	-
Mining Capital Works (WSF)	\$ million	-	-	-	-	-	-	-
Sustaining (incl. TSFs)	\$ million	31.5	33.5	3.2	1.5	1.9	0.9	0.2
G&A Capital	\$ million							
Exploration	\$ million	-	-	-	-	-	-	-
Total Capital	\$ million	31.5	33.5	3.2	1.5	1.9	0.9	0.2

Notes:

- a) The operating costs are based on the life-of-mine schedule for proven and probable reserves and are on a 100 % basis.
- b) No inferred Mineral resource is included in the life-of-mine processing schedule or techno-economic evaluation.
- c) Exploration costs required to replace depleted reserves are not included in this techno-economic assessment.
- d) No inferred Mineral resource is included in the life-of-mine processing schedule or techno-economic evaluation.
- e) Costs are first principles based on the Mineral reserve life-of-mine schedule.
- f) This capital cost summary estimate is for the Mineral reserve life-of-mine schedule.

Source: Cerro Corona CPR, 2023

18.2 Operating costs

Operating costs are based on the 2023 actual costs and the 2024 operational budget to 2030, and overheads and mining rates.

Operating costs main assumptions:

- Cerro Corona’s mining operations are based on contractor mining, which means that mining costs are mainly driven by contract rates. These vary depending on the volume of material mined, pit depth and other factors considered during the tender process. In addition, Cerro Corona’s owner mining and technical services costs and dayworks are included in the mining cost.
- Mining costs beyond 2025 considers ore re-handling from low grade stockpiles to the process plant. Additional activities like road maintenance and dayworks are also considered.

- Processing costs, which includes power and tailings costs, are based on 2023 actual costs and 2024 and 2025 approved budgets. For costs beyond 2026, forecasts are based on the 2025 budget and main consumables market prices projections, like energy, diesel and grinding media.
- The G&A cost is made up of onsite and offsite overhead costs. In the case of onsite costs, it includes all service departments on the operation, such as IT & communications, camp, warehouses, community affairs, environment, safety and protection services. On the other side, offsite costs include Lima office overhead costs, including human resources, commercial, legal, finance, corporate affairs and general management. As well as operative costs, these costs have been estimated based on 2023 actual costs, and the approved 2024



and 2025 budgets. For costs beyond 2026, cost forecasts are based on the 2025 budget and taking into consideration a reduction associated with the end of mining and reduction of ounces produced.

The operating costs forecast is summarised in Table 18.2.1.

Table 18.2.1: Operating costs forecast.

Operating Cost	Units	2024	2025	2026	2027	2028	2029	2030
Mining	\$ million	90.9	74.8	17.7	17.3	17.4	17.8	16.0
Processing	\$ million	65.8	65.6	67.7	67.1	67.4	68.2	67.9
G&A Operating	\$ million	43.7	40.8	36.2	32.5	30.2	30.2	39.9
Other operating costs	\$ million	22.9	18.0	10.8	9.5	9.6	10.4	9.8
Operating costs	\$ million	223.3	199.2	132.5	126.4	124.6	126.5	133.6

Notes:

- The operating costs are based on the life-of-mine schedule for proven and probable reserves and are on a 100 % basis.
- No inferred Mineral resource is included in the life-of-mine processing schedule or techno-economic evaluation.
- Exploration costs required to replace depleted reserves are not included in this techno-economic assessment.
- No inferred Mineral resource is included in the life-of-mine processing schedule or techno-economic evaluation.

- d) No inferred mineral resource is included in the life-of-mine processing schedule or techno-economic evaluation.
- e) Costs are first principles based on the Mineral reserve life-of-mine schedule.
- f) This operating cost summary estimate is for the Mineral reserve life-of-mine schedule.

Source: Cerro Corona CPR, 2023

18.3 Closure cost

The Cerro Corona mine closure cost is estimated at \$168.9 million as of 31 December 2023, excluding Peruvian taxes. This amount includes closure costs for facilities such as the Cerro Corona pit, waste dumps, tailings dam, and infrastructure removal, as well as post-closure monitoring, maintenance costs, and indirect costs.

Table 18.3.1: Post LOM costs 100 % basis

Sources	Units	2031	2032	2033	2034	2035	2035 onwards
Post reserve LOM closure	\$ million	9.8	3.5	2.2	1.0	7.3	5.6
Property holding costs	\$ million	150.0					

Notes:

- a) Closure costs are presented from 2031 onwards.

Source: Cerro Corona CPR, 2023

The Qualified person's opinion on capital and operating costs is summarised below:

- a) The financial schedule is wired to the life-of-mine plan to ensure the provision of capital is linked to when the major budgeted items require to be funded. The capital and operating costs applied are appropriate to derive a realistic, and meaningful life-of-mine financial model in support of the Mineral reserve estimate.
- b) The capital, operating and closure cost estimation levels of accuracy meet the minimum pre-feasibility study requirements at an estimated accuracy of $\pm 25\%$ and require no more than 15% contingency. The specific engineering estimation methods have an accuracy equal to or better than this range.
- c) Cerro Corona has improved capital estimation and capital delivery through the application of Group Capital Standards and capital projects reviewed by a select team with improved implementation planning. Gold Fields also perform post investment review across all major capital studies and share key learnings.
- d) Gold Fields' two-year business planning cycle captures operating and capital costs along with key physicals and revenue. The business plans are internally reviewed, presented to the Executive Committee for approval, prior to sanctioning by the Gold Fields board of directors. The business plans are aligned with the Registrant's strategic direction and equate to the first two years of the life-of-mine plan.



- e) Capital expenditure, once sanctioned, must follow the company capital reporting standard. Monthly and quarterly reviews are held to assess capital programs, operating unit costs, mine physicals, plan execution and revenue streams.
- f) Operating unit costs are based on recent valid historical performance and where necessary take account of future changing circumstances that are anticipated to impact future operating costs.



19.1 Key inputs and assumptions

The Cerro Corona economic analysis is based on:

- All assumptions in real terms (without inflation), figures as at the valuation date of 31 December 2023.
- Peruvian government royalties: between 1.5 % and 2 % of revenues but based on operating margin, consistent with the relevant legislation.
- Taxable income is calculated in terms of local relevant legislation, current tax rate at 29.5%.
- A real base case discount rate which is determined by Gold Fields Corporate Finance annually.
- The discounted cashflow (DCF) applied to post-tax, pre-finance cashflows and reported in financial years.

The input parameters for the economic analysis are:

- The Mineral reserves disclosed in Section 12.3. No inferred Mineral resources are included in the economic analysis.
- The processing schedule disclosed in Table 14.2.1.
- Process recoveries disclosed in Section 12.2.
- Capital costs disclosed in Section 18.1.
- Operating costs disclosed in Section 18.2.
- A reserve gold price of \$1,400/oz and copper price of \$3.40/lb as discussed in Section 12.2.
- A real discount rate of 7.7 %.
- A corporate tax rate of 29.5 %.

The LOM physical, operating cost and capital cost inputs including rehabilitation, leasing and closure costs, and revenue assumptions for the economic analysis to 2030 are summarised in Table 19.1.1.

The attributable (99.53 %) gold and copper, free-cashflow (FCF) and Net Present Value (NPV) for the Cerro Corona LOM Mineral reserve is summarised in Table 19.1.2.

Cerro Corona's post-tax NPV of the Mineral reserves based on discounting the cashflow in Table 19.1.1 at a 7.7% discount rate is \$96 million.

Given the mine is currently cashflow positive, the IRR and payback period are not relevant measures for the Cerro



Table 19.1.1: LOM physical, operating cost and capital cost inputs and revenue assumptions

Sources		Units	2024	2025	2026	2027	2028	2029	2030	LOM
Open Pit (Gold)	LOM Processed	Koz	144.2	135.8	-	-	-	-	-	280.0
	Process Recovery	%	70.0	70.3	-	-	-	-	-	70.1
	Commercial Payable	%	97.4	97.4	-	-	-	-	-	97.4
	Produced	Koz	98.3	93.0	-	-	-	-	-	191.3
	LOM Processed	Koz	-	-	91.3	73.4	75.4	92.2	140.3	472.6

Stockpiles (Gold)	Process Recovery	%	-	-	68.3	67.6	66.6	65.7	63.5	66.0
	Commercial Payable	%	-	-	97.4	97.4	97.4	97.4	97.4	97.4
	Produced	Koz	-	-	61.4	49.0	49.7	59.0	86.8	305.9
Open Pit (Copper)	LOM Processed	Mlb	63.2	59.3	-	-	-	-	-	122.5
	Process Recovery	%	87.9	88.1	-	-	-	-	-	88.0
	Commercial Payable	%	95.2	95.2	-	-	-	-	-	95.2
	Produced	Mlb	52.9	49.7	-	-	-	-	-	102.6
Stockpiles (Copper)	LOM Processed	Mlb	-	-	45.0	39.4	40.2	45.0	45.2	214.8
	Process Recovery	%	-	-	87.6	87.0	86.1	86.4	78.6	85.1
	Commercial Payable	%	-	-	95.2	95.2	95.2	95.2	95.2	95.2
	Produced	Mlb	-	-	38.0	33.1	33.4	37.1	33.9	175.5
Total Produced (Gold)		Koz	98.3	93.0	61.4	49.0	49.7	59.0	86.8	497.2
Total Produced (Copper)		Mlb	52.9	49.7	38.0	33.1	33.4	37.1	33.9	278.1
Costs, Revenue and Cashflow	Revenue	\$ million	317.5	299.3	215.2	181.2	183.2	208.6	236.7	1,641.7
	Operating Costs	\$ million	223.3	199.2	132.5	126.4	124.6	126.5	133.6	1,066.1
	Capital Costs	\$ million	31.5	33.5	3.2	1.5	1.9	0.9	0.2	72.7
	Other	\$ million	38.5	73.0	56.0	10.6	33.4	36.1	54.9	302.4
	Royalties (~1 % sales)	\$ million	3.0	2.8	2.0	1.7	1.7	2.0	2.3	15.5
	Interest (if applicable)	\$ million	-	-	-	-	-	-	-	-
	Total Costs (Excl Tax)	\$ million	296.3	308.5	193.7	140.2	161.6	165.6	191.0	1,456.8
	Taxes (Income tax)	\$ million	24.9	14.9	-	-	-	-	-	39.8
	Cashflow	\$ million	-3.7	-24.1	21.5	41.0	21.7	43.1	45.7	145.1
	Discounted cashflow at 7.7 % (NPV)	\$ million	-3.6	-21.6	17.9	31.6	15.5	28.6	28.2	96.7

Notes:

- This table is based on the life-of-mine schedule for proved and probable Mineral reserves only and is on a 100 % basis.
- The Mineral resource and exploration required to replace depletion is not included in this techno-economic assessment.
- No inferred Mineral resources are included in the life-of-mine processing schedule or techno-economic evaluation.
- Gold and copper produced considers 2023 final concentrate stock of 3,166 kt between years 2026 and 2028.

Source: Cerro Corona CPR, 2023

Table 19.1.2: Gold Fields 99.53 % Attributable Gold, FCF and NPV

	2024	2025	2026	2027	2028	2029	2030	2031	LOM
--	------	------	------	------	------	------	------	------	-----

Sources	Units	2024	2025	2026	2027	2028	2029	2030	LOM
99.53 % Attributable Gold produced	koz	97.9	92.6	61.1	48.8	49.4	58.7	86.4	494.8
99.53 % Attributable Copper produced	kt	52.6	49.5	37.8	33.0	33.3	36.9	33.7	276.8
99.53 % Cashflow	\$ million	-3.7	-24.0	21.4	40.8	21.6	42.9	45.5	144.4
Discounted cashflow at 7.7 % (NPV)	\$ million	96.2							

Source: Cerro Corona CPR, 2023



Table 19.1.3: Breakdown of ESG expenditure included in Table 18.1.1, Table 18.2.1 and Table 19.1.1

Sources	Units	2024	2025	2026	2027	2028	2029	2030	2031-Onw
Progressive Closure*	\$ million	0.2	36.4	34.0	19.2	16.4	29.1	14.8	29.5

Notes: * Costs included in capital costs (Table 18.1.1, Table 18.2.1 and Table 19.1.1).

Source: Cerro Corona CPR, 2023

19.2 Economic analysis

As shown in previous chapters and described in the summary, there has been a significant reduction on the Cerro Corona NPV, from \$192 million as of December 2022 to \$96 million as of December 2023. There has been a significant reduction, mainly explained by:

- A reserves depletion during 2023.
- The exclusion of Mineral resources in 2023 due to in-pit tailings.
- Higher costs mainly explained by additional tons mined associated with the change of mining sequence (conventional to open-pit) and additional expenses at the end of the life of mine due to the change of mining sequence from open-pit to conventional.

(geotechnical changes) and additional fix cost at the end of the life of mine due to lower throughput because of ore hardness. In addition, 2023 global inflation boosted the prices of diesel and energy. These effects increase operating cost during all life of mine period.

- Higher capital expenditure and closure cost due to price updates and inflation associated with a higher level of engineering.

An Impairment analysis was performed as of December 2023, and as consequence of the above-mentioned factors in addition to 100% resources write-off, there has been an impairment of \$156 million of the Cerro Corona CGU, which amounts to \$110 million after tax. The impairment calculation is based on the FVLCOD calculated using a combination of the market (resource value) and income approach using level 3 of the fair value hierarchy, in comparison to the carrying value.

A sensitivity analyses has been performed to ascertain the impact on NPV to changes in capital, operating costs, discount rate and gold price as summarised in Table 19.3.1 to Table 19.3.6.

Based on the status of Cerro Corona on the normal life cycle of a mine and considering that the cashflow is always positive, the IRR and payback period are not relevant measures for the Property

19.3 Sensitivity analysis

A sensitivity analysis has been performed to ascertain the impact on NPV to changes in capital, operating costs, discount rate and gold and copper prices as summarised in Table 19.3.1 to Table 19.3.6.

As it can be seen in the following sensitivity tables, NPV seems to be more sensitive to changes on copper (grade or price) and operating cost, approximately \$40 million each 5 % variation and \$45 million each 5 % variation, respectively. Therefore, we need to be very strict on the operating cost control and accomplishment, avoiding any activities not considered in the estimates. On the other hand, NPV seems to be less sensitive to capital expenses variation, as the remaining amount of capex is very low.

Table 19.3.1 illustrates the NPVs at a range of discount rates, operating cost forecasts and gold prices.

Table 19.3.1: NPV sensitivity to changes in gold price 99.53 % attributable

Gold Price-- real	-15 %	-10 %	-5 %	0 %	+5 %	+10 %	+15 %
Gold Price (\$/oz)	1,190	1,260	1,330	1,400	1,470	1,540	1,610
NPV (\$ million)	9	38	67	96	125	155	184

Source: Cerro Corona CPR, 2023

Table 19.3.2: NPV sensitivity to changes in gold grade 99.53 % attributable

Grade	-15 %	-10 %	-5 %	0 %	+5 %	+10 %	+15 %
NPV (\$ million)	9	38	67	96	125	155	184

Source: Cerro Corona CPR, 2023

Table 19.3.3: NPV sensitivity to changes in copper price 99.53 % attributable

Copper Price – real	-15 %	-10 %	-5 %	0 %	+5 %	+10 %	+15 %
Copper Price (\$/lb)	2.9	3.1	3.2	3.4	3.6	3.7	3.9
NPV (\$ million)	-20	26	50	96	143	166	213

Source: Cerro Corona CPR, 2023

Table 19.3.4: NPV sensitivity to changes in copper grade 99.53 % attributable

Grade	-15 %	-10 %	-5 %	0 %	+5 %	+10 %	+15 %
NPV (\$ million)	-23	17	57	96	136	175	215

Source: Cerro Corona CPR, 2023

Table 19.3.5: NPV sensitivity to changes in capital costs 99.53 % attributable

Capital costs	-15 %	-10 %	-5 %	0 %	+5 %	+10 %	+15 %
NPV (\$ million)	108	104	100	96	92	88	84

Source: Cerro Corona CPR, 2023

Table 19.3.6: NPV sensitivity to changes in operating costs 99.53 % attributable

Operating costs	-15 %	-10 %	-5 %	0 %	+5 %	+10 %	+15 %
NPV (\$ million)	230	185	141	96	52	7	-37

Source: Cerro Corona CPR, 2023

Table 19.3.7: NPV sensitivity to changes in discount rate 99.53 % attributable

Discount rate	6.5 %	6.9 %	7.3 %	7.7 %	8.1 %	8.5 %	8.9 %
NPV (\$ million)	102	100	98	96	94	92	91

Source: Cerro Corona CPR, 2023

The Qualified person's opinion is that:

The key assumptions, input parameters and methods applied to the economic analysis are realistic, appropriate and suitable for life-of-mine financial modelling.

The techno-economic model is correctly based on the relevant Mineral reserve mine plan physicals.

The recent historic assumptions used to test the Mineral reserve economic assumptions are appropriate.

The material assumptions have been found to be valid and used correctly in the techno-economic studies. The discounted cashflow confirms economic viability with a NPV of \$96 million at a discount rate of 7.7 %.

The techno-economic study for the Mineral reserves excludes all inferred Mineral resource material.



There are two adjacent properties in proximity of Cerro Corona:

- The Tantahuatay open pit gold mine 6 km to the northwest operated by Minera Coimolache S.A. since 2011.
- El Zorro operated by Minera San Nicolas, which is in the process of closing.

Tantahuatay and El Zorro are high sulphidation epithermal-type deposits. At Tantahuatay, the epithermal mineralisation overprints a skarn hosting copper sulphide mineralisation at depth.

The Qualified person is unable to verify publicly disclosed information pertaining to these adjacent properties. The Qualified person notes that the information relating to these adjacent properties is not necessarily indicative of the mineralisation within the Cerro Corona property that is the subject of this TRS.



21 Other relevant data and information

The current LOM strategy is to transition to in-pit tailings. Once tailings are placed in the open pit for storage, any remaining open pit Mineral resources and Mineral reserves will become sterilised. Gold Fields continues to investigate ways to gain value from this potentially sterilised material including alternative tailings solutions, but none currently align with Gold Fields strategic objectives.

The Qualified person is not aware of any additional information or explanation that should be disclosed to provide a more complete and balanced presentation of the value of the Cerro Corona Property. The content of this TRS is deemed to provide all appropriate and relevant information that is viewed as material to enable a full understanding of the

to provide an appropriate and relevant information that is viewed as material to enable a full understanding of the technical and economic aspects of the Property in support of the Mineral resources and Mineral reserves disclosure.

Gold Fields' commitment to materiality, transparency and competency in its Mineral resources and Mineral reserves disclosure to regulators and in the public domain is of paramount importance to the Qualified person and the Registrants Executive Committee and Board of Directors continue to endorse the company's internal and external review and audit assurance protocols. This TRS should be read in totality to gain a full understanding of Cerro Corona's Mineral resource and Mineral reserve estimation and reporting process, including data integrity, estimation methodologies, modifying factors, mining and processing capacity and capability, confidence in the estimates, economic analysis, risk and uncertainty and overall projected property value.

However, to ensure consolidated coverage of the Company's primary internal controls in generating Mineral resource and Mineral reserve estimates the following key point summary is provided:

A comprehensive quality assurance and quality control (QA/QC) protocol is embedded at Cerro Corona and all Gold Fields operations. It draws on industry leading practice for data acquisition and utilises national standards authority accredited laboratories which are regularly reviewed. Analytical QA/QC is maintained and monitored through the submission of sample blanks, certified reference material and duplicates and umpire laboratory checks.

Corporate Technical Services (CTS), based in Perth, comprises subject matter experts across the disciplines of geology, resource estimation, geotechnical, mining, engineering, modernisation, capital projects, processing, metallurgy, tailings management and Mineral resource and reserve reporting governance. The CTS team budgets for regular site visits to all operating mines when emphasis is placed on-site inspection and direct engagement with the technical staff to drive protocols and standards and enable on-site training and upskilling. CTS provides technical oversight and guidance to the operating Regions and mines and ensures an additional level of assurance to the Mineral resource and Mineral reserve estimates to supplement the mine sites and Regional technical teams.

Independent audit review of fixed infrastructure is conducted annually with the appointed insurance auditor focused on plant, machinery and mine infrastructure risks. An effective structural and corrosion maintenance program with benchmark inspections is in place supported by equipment condition monitoring major critical component spares. Focus areas include the primary jaw crusher, ball mill shell or motor failure, structural failure of plant or conveyor, process tank failure and large transformer failure. Critical spares are well resourced and there are no large items not supported by on-site spares holdings.

Mobile equipment is largely owned and well maintained by the mining contractor and there is some spare capacity in most of the fleets or, alternatively, hire units are readily available in the region.

Processing controls include the preparation of quarterly plant metal accounting reconciliation reports by the mine sites which are reviewed by the Regional Metallurgical Manager and VP Metallurgy in the CTS team. Any monthly

reconciliation variance outside the limits provided within the Gold Fields Plant Metal Accounting Standard is flagged for follow up assessment and remediation if warranted.

Cerro Corona has a tailings management plan that promotes risk minimisation to operators and stakeholders over the lifecycle of each tailings storage facility (TSF). Cerro Corona's TSF's are operated in accordance with the company TSF Management Guidelines which are aligned with the International Council on Metals & Mining's (ICMM) Position Statement on preventing catastrophic failure of TSFs (December 2016). Active TSFs are subject to an independent, external audit every three years, as well as regular inspections and formal dam safety reviews by formally appointed Engineers of Record (EoR). Further improvements in tailings management are expected through achievement of



compliance with the new independently developed Global Industry Standard for Tailings Management (GISTM) issued in 2020.

The integration of Environmental, Social and Governance (ESG) themes into the estimation process continues as an important consideration for modifying factors, RPEE assessments and to underpin the integrity of the Mineral resources and Mineral reserves. The company's ESG Charter, issues and priorities are fully considered in the life-of-mine plan with particular emphasis on tailings management, integrated mine closure planning, security of energy and water and the social and regulatory license to operate.

Gold Fields also follows an embedded process of third-party reviews to provide expert independent assurance regarding Mineral resource and Mineral reserve estimates and compliance with relevant reporting rules and codes. In line with Gold Fields policy, every material property is reviewed by an independent third-party on average no less than once every three years, or when triggered by a material year-on-year change. Certificates of compliance are received from the companies that conduct the external audits which are also configured to drive continuous improvement in the estimation process.

Importantly, Gold Fields endorses a well embedded risk and control matrix (RACM) configured to provide an annual assessment of the effectiveness of the registrants' internal controls concerning the life of mine planning process and

The internal controls include coverage of the following (inter alia):

- i Reasonableness of parameters and assumptions used in the Mineral resource and reserve estimation process.
- ii Reasonableness of the interpretations applied to the geological model and estimation techniques.
- iii Integrity in the mine design and scheduling, including reasonableness of the mine planning assumptions, modifying factors, cut-off grades, mining and processing methods and supporting key technical inputs such as year on year reconciliation, geotechnical, mining equipment, infrastructure, water, energy, and economic analysis.
- iv Provision of the necessary skills, experience and expertise at the mine sites and the Regions to undertake and complete the work with the required level of technical ability and competency, including professional registration as a Qualified person.
- v Alignment with the SK 1300 rule (guidance and instruction) for the reporting of Mineral resources and reserves.
- vi Review of the disclosure of the registrants' Mineral resources and reserves process.

Because of its inherent limitations, internal controls may not prevent or detect all errors or misstatements. Also, projections of any valuation of effectiveness to future periods are subject to risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies and procedures may deteriorate.

RCubed[®] is a proprietary cloud-based reporting system adopted by Gold Fields in 2021 to enhance the level governance and data security concerning Mineral resource and reserve reporting across all company properties. It is designed to ensure transparency and auditability for all data verification checks, information stage gating, the approvals process and confirmation of Qualified person credentials. The RCubed[®] reporting system is being incorporated into the SOX RACM matrix to support the Mineral resource and Mineral reserve reporting.



22 Interpretation and conclusions

22.1 Conclusions

The Mineral reserves currently support a 7 year LOM plan that values the Cerro Corona operation at \$96 million at a gold price of \$1,400/oz and copper price of \$3.40/lb, and a discount rate of 7.7 %.

During 2023, there has been a worldwide inflationary environment that boosted costs and interest rates. In addition, Mineral reserves have decreased due to depletion and geotechnical issues in the pit that have required changes in the mine plan. As a consequence of these two effects and together with other minor changes, an impairment was triggered. Strict cost control and avoidance of major changes to the mining plan will be mandatory to avoid future impairments.

Climate change is an integral part of the Mineral reserve generation process and incorporating relevant costs associated with climate change, primarily decarbonisation, mitigation and adaptation to the changing climate, is a key theme for the Company. Integration of these key elements into the Mineral reserve process is being carried out progressively and simultaneously across all of Gold Fields' sites.

The Qualified person considers that, with respect to all material technical-economic matters, Gold Fields has undertaken the necessary studies to ensure compliance with SK 1300, in terms of the level of disclosure. The Qualified person verifies that the information included in this TRS is appropriate, based on current information available, legislation and corporate guidance.

22.2 Risks

The Mineral reserve estimates contained in this report should not be interpreted as assurances of the economic life or the future profitability of Cerro Corona. Mineral reserves are estimates based on the factors and assumptions described herein, thus future Mineral reserve estimates may need to be revised. For example, if production costs increase or product prices decrease, a portion of the current Mineral resources, from which the Mineral reserves are derived, may become uneconomic and would therefore result in a lower estimate of Mineral reserves. The LOM plans include forward-looking technical and economic parameters and involve a number of risks and uncertainties that could cause actual results to differ materially.

The LOM plan for Cerro Corona has been reviewed in detail for appropriateness, reasonableness and viability, including the existence of and justification for departure from historical performance. The Qualified person considers that the TEP and FM are based on sound reasoning, engineering judgement and technically achievable mine plan, within the context of the risk associated with the gold mining industry.

Climate change is an integral part of the Mineral reserve generation process and incorporating relevant costs associated with climate change, primarily decarbonisation, mitigation and adaptation to the changing climate, is a key theme for the Company. Integration of these key elements into the Mineral reserve process is being carried out progressively and simultaneously across all of Gold Fields' sites.

The business of gold mining by its nature involves significant risks and hazards, including environmental hazards and industrial accidents. Hazards associated with Gold Fields' mining operations include:

- Ground and surface water pollution because of spillage or seepage from tailings storage facilities, heap leach processing operations and the use of hazardous substances to facilitate the gold extraction process.
- Contractor mining performance.
- Incidents associated with the operation of large waste and ore transportation equipment.
- Incidents associated with blasting operations.
- Failure of the open pit walls.
- Failure of a TSF embankment and inundation of downstream areas.
- Production disruptions due to inclement weather.

- Incidents associated with operating waste rock dumps, production stockpiles and associated crushing and conveyor

equipment.

The operation may also be subject to actions by labour groups or other interested parties who object to perceived conditions at the mines or to the perceived environmental impact. These actions may delay or halt production or may create negative publicity. They include amongst others:

- The inability of the operation to hire and retain sufficient technically skilled employees may result in its business being adversely affected.
- Power stoppages, fluctuations and power cost increases may adversely affect the financial viability of the operation.
- Illegal mining operations in the vicinity of the Property could disrupt mining operations. There are however no illegal operations on-site due to the stable relationship the operation has with the surrounding community.

The occurrence of any of these hazards could delay or impact production, increase production costs and result in liability for Cerro Corona.

Financial risks are assessed through sensitivity analysis.

Risk assessments are completed as part of the risk management protocols in Gold Fields governance practices. The aim is to identify and rank project risks based on the probability of an event occurring and the consequences should that event occur. The risk assessment framework is outlined in the Gold Fields Group Enterprise Risk Management Framework.

The top operational risks from the latest risk assessment completed in 2023 are summarised in Table 22.2.1.

Table 22.2.1: Cerro Corona risk register – top operational risks

	Area	Risk description
1	Legal / Regulation	Challenges in obtaining environmental and operational approvals impacting life-of-mine extension
2	Social	Local social pressures, conflicts and increased community expectations
4	Environmental	Climate change-related extreme weather events
3	Operational	Disruption to our supply chain due to global macroeconomic environment
5	Operational	Global inflation impacting input costs
6	Operational	Attracting and retaining key skills
7	Legal / Regulation	Sanctions and permit delays
8	Operational	Cyber attack
9	Operational	Work stoppages related to a reduction in contract labour

9	Operational	Work stoppages related to a reduction in contract labour
10	Legal / Regulation	Regulatory changes impacting mining plan compliance

Source: Cerro Corona CPR, 2023



23 Recommendations

The Qualified person is of the opinion that the Mineral reserve and Mineral resource are reasonable estimates. The drilling programs along with the extraction schedule are reasonable estimates and do not warrant further phases of work.



24 References

The Cerro Corona Competent Person Report 31 December 2023 for Mineral resources and Mineral reserves is referred to in this document as “Cerro Corona CPR, 2023”.

The Cerro Corona CPR, 2023 has written consent by the Qualified persons in Table 2.5.1 for the Mineral reserve and Mineral resource to be publicly disclosed in this format against the SK 1302 regulations.



25 Reliance on information provided by the Registrant

The Qualified person has not identified any information provided by the Registrant for Cerro Corona that requires noting under the reliance on information provided.

26.1 Adequate geological evidence

When used in the context of Mineral resource determination, means evidence that is sufficient to establish geological and grade or quality continuity with reasonable certainty.

26.2 Conclusive geological evidence

When used in the context of Mineral resource determination, means evidence that is sufficient to test and confirm geological and grade or quality continuity.

26.3 Cutoff grade

Is the grade (*i.e.*, the concentration of metal or mineral in rock) that determines the destination of the material during mining. For purposes of establishing “prospects of economic extraction,” the cutoff grade is the grade that distinguishes material deemed to have no economic value (it will not be mined in underground mining or if mined in surface mining, its destination will be the waste dump) from material deemed to have economic value (its ultimate destination during mining will be a processing facility). Other terms used in similar fashion as cutoff grade include net smelter return, pay limit and break-even stripping ratio.

26.4 Development stage issuer

Is an issuer that is engaged in the preparation of Mineral reserves for extraction on at least one Material property.

26.5 Development stage property

Is a property that has Mineral reserves disclosed, pursuant to this subpart, but no material extraction.

26.6 Economically viable

When used in the context of Mineral reserve determination, means that the Qualified person has determined, using a discounted cashflow analysis, or has otherwise analytically determined, that extraction of the Mineral reserve is economically viable under reasonable Investment and market assumptions.

26.7 Exploration results

Are data and information generated by mineral exploration programs (*i.e.*, programs consisting of sampling, drilling, trenching, analytical testing, assaying and other similar activities undertaken to locate, investigate, define or delineate a mineral prospect or mineral deposit) that are not part of a disclosure of Mineral resources or Mineral reserves. A Registrant must not use exploration results alone to derive estimates of tonnage, grade and production rates, or in an

assessment of economic viability.

26.8 Exploration stage issuer

Is an issuer that has no Material property with Mineral reserves disclosed.

26.9 Exploration stage property

Is a property that has no Mineral reserves disclosed.

26.10 Exploration target

Is a statement or estimate of the exploration potential of a mineral deposit in a defined geological setting where the statement or estimate, quoted as a range of tonnage and a range of grade (or quality), relates to mineralisation for which there has been insufficient exploration to estimate a Mineral resource.



26.11 Feasibility study

Is a comprehensive technical and economic study of the selected development option for a mineral project, which includes detailed assessments of all applicable Modifying factors, as defined by this section, together with any other relevant operational factors, and detailed financial analysis that are necessary to demonstrate, at the time of reporting, that extraction is Economically viable. The results of the study may serve as the basis for a final decision by a proponent or financial institution to proceed with, or finance, the development of the project.

1. A feasibility study is more comprehensive, and with a higher degree of accuracy, than a Preliminary feasibility study (or pre-feasibility study). It must contain mining, infrastructure and process designs completed with

study (or pre-feasibility study). It must contain mining, infrastructure and process designs completed with sufficient rigor to serve as the basis for an investment decision or to support project financing.

2. The confidence level in the results of a feasibility study is higher than the confidence level in the results of a Preliminary feasibility study (or pre-feasibility study). Terms such as **full, final, comprehensive, bankable,** or **definitive** feasibility study are equivalent to a feasibility study.

26.12 Final market study

Is a comprehensive study to determine and support the existence of a readily accessible market for the mineral. It must, at a minimum, include product specifications based on final geologic and metallurgical testing, supply and demand forecasts, historical prices for the preceding five or more years, estimated long term prices, evaluation of competitors (including products and estimates of production volumes, sales and prices), customer evaluation of product specifications and market entry strategies or sales contracts. The study must provide justification for all assumptions, which must include assumptions concerning the Material contracts required to develop and sell the Mineral reserves.

26.13 Indicated Mineral resource.

Is that part of a Mineral resource for which quantity and grade or quality are estimated on the basis of Adequate geological evidence and sampling. The level of geological certainty associated with an indicated Mineral resource is sufficient to allow a Qualified person to apply Modifying factors in sufficient detail to support mine planning and evaluation of the economic viability of the deposit. Because an indicated Mineral resource has a lower level of confidence than the level of confidence of a Measured Mineral resource, an indicated Mineral resource may only be converted to a Probable Mineral reserve.

26.14 Inferred Mineral resource.

Is that part of a Mineral resource for which quantity and grade or quality are estimated on the basis of Limited geological evidence and sampling. The level of geological uncertainty associated with an inferred Mineral resource is too high to apply relevant technical and economic factors likely to influence the prospects of economic extraction in a manner useful for evaluation of economic viability. Because an inferred Mineral resource has the lowest level of geological confidence of all Mineral resources, which prevents the application of the Modifying factors in a manner useful for evaluation of economic viability, an inferred Mineral resource may not be considered when assessing the economic viability of a mining project and may not be converted to a Mineral reserve.

26.15 Initial assessment

Is a preliminary technical and economic study of the economic potential of all or parts of mineralisation to support the disclosure of Mineral resources. The initial assessment must be prepared by a Qualified person and must include

appropriate assessments of reasonably assumed technical and economic factors, together with any other relevant operational factors, that are necessary to demonstrate at the time of reporting that there are reasonable prospects for economic extraction. An initial assessment is required for disclosure of Mineral resources but cannot be used as the basis for disclosure of Mineral reserves.



26.16 Investment and market assumptions

When used in the context of Mineral reserve determination, includes all assumptions made about the prices, exchange rates, interest and discount rates, sales volumes and costs that are necessary to determine the economic viability of the Mineral reserves. The Qualified person must use a price for each commodity that provides a reasonable basis for establishing that the project is Economically viable.

26.17 Limited geological evidence

When used in the context of Mineral resource determination, means evidence that is only sufficient to establish that geological and grade or quality continuity are more likely than not.

26.18 Material

Has the same meaning as under Part 230.405 or Part 240.12b-2.

The term material, when used to qualify a requirement for the furnishing of information as to any subject, limits the information required to those matters to which there is a substantial likelihood that a reasonable investor would attach importance in determining whether to purchase the security registered

26.19 Material of economic interest

When used in the context of Mineral resource determination, includes mineralisation, including dumps and tailings, mineral brines and other resources extracted on or within the earth's crust. It does not include oil and gas resources resulting from oil and gas producing activities, as defined in Part 210.4-10(a)(16)(i) of this chapter, gases (e.g., helium and carbon dioxide), geothermal fields and water.

26.20 Measured Mineral resource.

Is that part of a Mineral resource for which quantity and grade or quality are estimated on the basis of Conclusive geological evidence and sampling. The level of geological certainty associated with a measured Mineral resource is sufficient to allow a Qualified person to apply Modifying factors, as defined in this section, in sufficient detail to support detailed mine planning and final evaluation of the economic viability of the deposit. Because a measured Mineral resource has a higher level of confidence than the level of confidence of either an Indicated Mineral resource or an Inferred Mineral resource, a measured Mineral resource may be converted to a Proven Mineral reserve or to a Probable Mineral reserve.

26.21 Mineral reserve

Is an estimate of tonnage and grade or quality of Indicated Mineral resources and Measured Mineral resources that, in the opinion of the Qualified person, can be the basis of an Economically viable project. More specifically, it is the economically mineable part of a measured or Indicated Mineral resource, which includes diluting materials and allowances for losses that may occur when the material is mined or extracted.

26.22 Mineral resource

Is a concentration or occurrence of Material of economic interest in or on the Earth's crust in such form, grade or quality and quantity that there are reasonable prospects for economic extraction. A Mineral resource is a reasonable estimate of mineralisation, considering relevant factors such as Cutoff grade, likely mining dimensions, location or continuity, that, with the assumed and justifiable technical and economic conditions, is likely to, in whole or in part, become economically extractable. It is not merely an inventory of all mineralisation drilled or sampled.

26.23 Modifying factors

Are the factors that a Qualified person must apply to Indicated Mineral resources and Measured Mineral resources and then evaluate to establish the economic viability of Mineral reserves. A Qualified person must apply and evaluate modifying factors to convert Measured Mineral resources and Indicated Mineral resources to Proven Mineral reserves and Probable Mineral reserves. These factors include but are not restricted to: Mining; processing; metallurgical; infrastructure; economic; marketing; legal; environmental compliance; plans, negotiations, or agreements with local individuals or groups; and governmental factors. The number, type and specific characteristics of the modifying factors applied will necessarily be a function of and depend upon the mineral, mine, property, or project.

26.24 Preliminary feasibility study (or pre-feasibility study)

Is a comprehensive study of a range of options for the technical and economic viability of a mineral project that has advanced to a stage where a Qualified person has determined (in the case of underground mining) a preferred mining method, or (in the case of surface mining) a pit configuration, and in all cases has determined an effective method of mineral processing and an effective plan to sell the product.

1. A pre-feasibility study includes a financial analysis based on reasonable assumptions, based on appropriate testing, about the Modifying factors and the evaluation of any other relevant factors that are sufficient for a Qualified person to determine if all or part of the Indicated Mineral resources and Measured Mineral resources may be converted to Mineral reserves at the time of reporting. The financial analysis must have the level of detail necessary to demonstrate, at the time of reporting, that extraction is Economically viable.
2. A pre-feasibility study is less comprehensive and results in a lower confidence level than a Feasibility study. A pre-feasibility study is more comprehensive and results in a higher confidence level than an Initial assessment.

26.25 Preliminary market study

Is a study that is sufficiently rigorous and comprehensive to determine and support the existence of a readily accessible market for the mineral. It must, at a minimum, include product specifications based on preliminary geologic and metallurgical testing, supply and demand forecasts, historical prices for the preceding five or more years, estimated long term prices, evaluation of competitors (including products and estimates of production volumes, sales and prices).

customer evaluation of product specifications and market entry strategies. The study must provide justification for all assumptions. It can, however, be less rigorous and comprehensive than a final market study, which is required for a full Feasibility study.

26.26 Probable Mineral reserve

Is the economically mineable part of an Indicated Mineral resource and, in some cases, a Measured Mineral resource.

26.27 Production stage issuer

Is an issuer that is engaged in material extraction of Mineral reserves on at least one Material property.

26.28 Production stage property

Is a property with material extraction of Mineral reserves.

26.29 Proven Mineral reserve.

Is the economically mineable part of a Measured Mineral resource and can only result from conversion of a Measured Mineral resource.

Is an individual who is:

1. A mineral industry professional with at least five years of Relevant experience in the type of mineralisation and type of deposit under consideration and in the specific type of activity that person is undertaking on behalf of the Registrant; and
2. An eligible member or licensee in good standing of a recognised professional organisation at the time the technical report is prepared. For an organisation to be a recognised professional organisation, it must:
 - i Be either:
 - A. An organisation recognised within the mining industry as a reputable professional association; or
 - B. A board authorised by U.S. federal, state, or foreign statute to regulate professionals in the mining, geoscience, or related field.
 - ii Admit eligible members primarily based on their academic qualifications and experience.
 - iii Establish and require compliance with professional standards of competence and ethics.
 - iv Require or encourage continuing professional development.
 - v Have and apply disciplinary powers, including the power to suspend or expel a member regardless of where the member practices or resides; and
 - vi Provide a public list of members in good standing.

26.31 Relevant experience

Means, for purposes of determining whether a party is a Qualified person, that the party has experience in the specific type of activity that the person is undertaking on behalf of the Registrant. If the Qualified person is preparing or supervising the preparation of a technical report concerning Exploration results, the relevant experience must be in exploration. If the Qualified person is estimating, or supervising the estimation of Mineral resources, the relevant experience must be in the estimation, assessment and evaluation of Mineral resources and associated technical and economic factors likely to influence the prospect of economic extraction. If the Qualified person is estimating, or supervising the estimation of Mineral reserves, the relevant experience must be in engineering and other disciplines required for the estimation, assessment, evaluation and economic extraction of Mineral reserves.

1. Relevant experience also means, for purposes of determining whether a party is a Qualified person, that the party has experience evaluating the specific type of mineral deposit under consideration (e.g., coal, metal, base metal, industrial mineral, or mineral brine). The type of experience necessary to qualify as relevant is a facts and circumstances determination. For example, experience in a high-nugget, vein-type mineralisation such as tin or

tungsten would likely be relevant experience for estimating Mineral resources for vein-gold mineralisation, whereas experience in a low grade disseminated gold deposit likely would not be relevant.

Note 1 to paragraph (1) of the definition of relevant experience: It is not always necessary for a person to have five years' experience in each type of deposit to be an eligible Qualified person if that person has relevant experience in similar deposit types. For example, a person with 20 years' experience in estimating Mineral resources for a variety of metalliferous hard-rock deposit types may not require as much as five years of specific experience in porphyry-copper deposits to act as a Qualified person. Relevant experience in the other deposit types could count towards the experience in relation to porphyry-copper deposits.

2. For a Qualified person providing a technical report for Exploration results or Mineral resource estimates, relevant experience also requires, in addition to experience in the type of mineralisation, sufficient experience with the sampling and analytical techniques, as well as extraction and processing techniques, relevant to the mineral deposit under consideration. Sufficient experience means that level of experience necessary to be able to identify, with substantial confidence, problems that could affect the reliability of data and issues associated with processing.



3. For a Qualified person applying the Modifying factors, as defined by this section, to convert Mineral resources to Mineral reserves, relevant experience also requires:
 - i Sufficient knowledge and experience in the application of these factors to the mineral deposit under consideration; and
 - ii Experience with the geology, geostatistics, mining, extraction and processing that is applicable to the type of mineral and mining under consideration.



27 Signature Page

Qualified Person	Signature	Date
Dr Julian Verbeek	/s/ Dr Julian Verbeek	28 March 2024
Jason Sander	/s/ Jason Sander	28 March 2024
Dr Windfred Assibey-Bonsu	/s/ Dr Windfred Assibey-Bonsu	28 March 2024
Andrew Engelbrecht	/s/ Andrew Engelbrecht	28 March 2024
Peter Andrews	/s/ Peter Andrews	28 March 2024
Daniel Hillier	/s/ Daniel Hillier	28 March 2024
Johan Boshoff	/s/ Johan Boshoff	28 March 2024
Andre Badenhorst	/s/ Andre Badenhorst	28 March 2024
Paul Gomez	/s/ Paul Gomez	28 March 2024

Julio Torres	/s/ Julio Torres	28 March 2024
Joel Mejia	/s/ Joel Mejia	28 March 2024
Jony Yupa	/s/ Jony Yupa	28 March 2024