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**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549
FORM 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended: December 31, 2022

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission File Number: 1-14066



SOUTHERN COPPER
GRUPO MEXICO

SOUTHERN COPPER CORPORATION

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

13-3849074
(I.R.S. Employer
Identification No.)

7310 North 16th St, Suite 135 Phoenix, AZ
(Address of principal executive offices)

85020
(Zip code)

Registrant's telephone number, including area code: **(602) 264-1375**

Securities registered pursuant to Section 12(b) of the Act:

Title of each class:	Trading Symbol	Name of each exchange on which registered:
Common stock, par value \$0.01 per share	SCCO	New York Stock Exchange Lima Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: **None**

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company
Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report. Yes No

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No

At February 28, 2023, there were of record 773,101,669 shares of common stock, par value \$0.01 per share, outstanding.

The aggregate market value of the shares of common stock (based upon the closing price at June 30, 2022 as reported on the New York Stock Exchange-Composite Transactions) of Southern Copper Corporation held by non-affiliates was approximately \$4,274.5 million.

PORTIONS OF THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE:

Part III: Proxy statement for 2023 Annual Meeting of Stockholders
Part IV: Exhibit Index is on Page 184 through 187

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We believe Southern Copper Corporation (“SCC”, “Southern Copper” or the “Company”) is one of the largest integrated copper producers in the world. Our major production includes copper, molybdenum, zinc and silver. All of our mining, smelting and refining facilities are located in Peru and Mexico and we conduct exploration activities in those countries and in Argentina, Chile and Ecuador. See Item 2 “Properties—Review of Operations” for maps of our principal mines, smelting facilities and refineries. The considerable scale of our operations makes us one of the largest mining companies in Peru and Mexico. We believe we have the largest copper reserves in the world. We were incorporated in Delaware in 1952 and have conducted copper mining operations since 1960. Since 1996, our common stock has been listed on both the New York and Lima Stock Exchanges.

Our Peruvian copper operations involve mining, milling and flotation of copper ore to produce copper concentrates and molybdenum concentrates; the smelting of copper concentrates to produce blister and anode copper; and the refining of anode copper to produce copper cathodes. As part of this production process, we also produce significant amounts of molybdenum concentrate and sulfuric acid. Our precious metals plant at the Ilo refinery produces refined silver, gold, and other materials. Additionally, we produce refined copper using solvent extraction/electrowinning technology (“SX-EW”). We operate the Toquepala and Cuajone open-pit mines high in the Andes Mountains, approximately 860 kilometers southeast of the city of Lima, Peru. We also operate a smelter and refinery west of the Toquepala and Cuajone mines in the coastal city of Ilo, Peru.

Our Mexican operations are conducted through our subsidiary, Minera Mexico, S.A. de C.V. (“Minera Mexico”), which we acquired in 2005. Minera Mexico engages primarily in the mining and processing of copper, molybdenum, zinc, silver, gold and lead. Minera Mexico operates through subsidiaries that are grouped into three separate units. Mexicana de Cobre, S.A. de C.V. (together with its subsidiaries, the “La Caridad” unit) operates La Caridad, an open-pit copper mine, a copper ore concentrator, a SX-EW plant, a smelter, refinery and a rod plant. The La Caridad refinery has a precious metals plant that produces refined silver, gold and other materials. Operadora de Minas e Instalaciones Mineras, S.A. de C.V. (the “Buenavista unit”) operates Buenavista, an open-pit copper mine, which is located on the site of one of the world’s largest copper ore deposits, two copper concentrators and two operating SX-EW plants. Industrial Minera Mexico, S.A. de C.V. (together with its subsidiaries, the “IMMSA unit”) operates five underground mines that produce zinc, lead, copper, silver and gold, and a zinc refinery.

We utilize modern, state of the art mining and processing methods, including global positioning systems and computerized mining processes. Our operations have a high level of vertical integration, which allows us to use our facilities, employees and equipment to manage the entire production process, including ore mining and production of refined copper rod and other products, and to execute most associated transport and logistics functions.

The sales prices for our products are largely determined by market forces beyond our control. Our management, therefore, focuses on cost control and production enhancement to remain profitable. We endeavor to achieve these goals through capital spending programs, exploration efforts and cost reduction programs. Our focus is on remaining profitable during periods of low copper prices and maximizing results in periods of high copper prices. For additional information on the sale prices of the metals we produce, please see “Metal Prices” in this Item 1.

Currency Information:

Unless stated otherwise, all our financial information is presented in U.S. dollars and any reference herein to “U.S. dollars,” “dollars,” or “\$” are to U.S. dollars; references to “sol,” “soles” or “S/”, signify Peruvian soles; and references to “peso,” “pesos,” or “Ps.,” represent Mexican pesos.

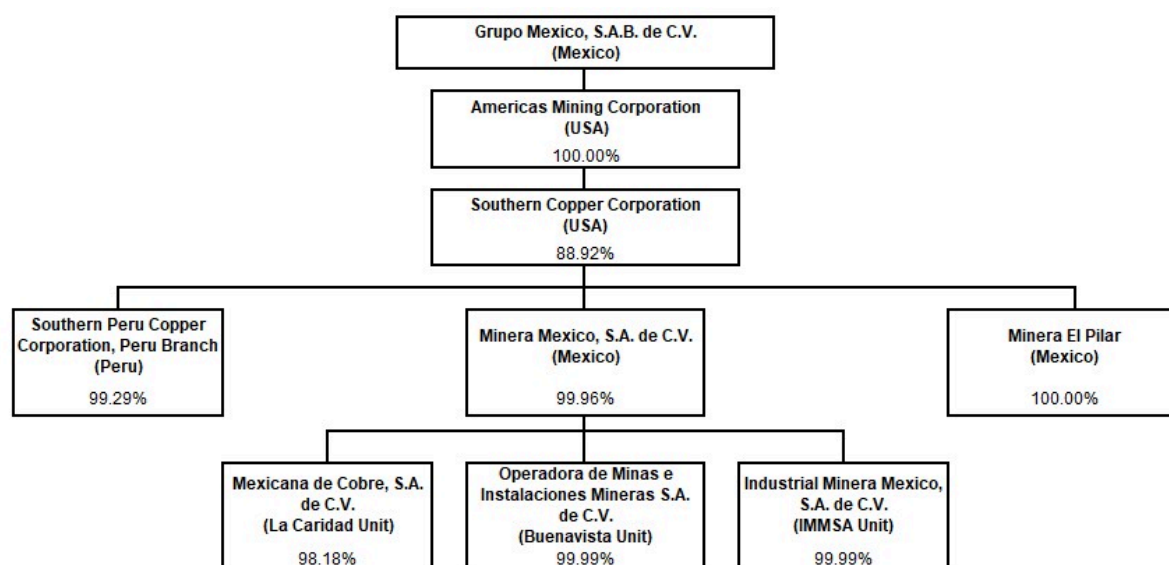
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Unit Information:

Unless otherwise noted, all tonnages are in metric tonnes. To convert to short tons, multiply by 1.102. All ounces are troy ounces. All distances are in kilometers. To convert to miles, multiply by 0.621. To convert hectares to acres, multiply by 2.47.

ORGANIZATIONAL STRUCTURE

The following chart describes our organizational structure, starting with our controlling stockholders, as of December 31, 2022. For the purpose of clarity, the chart identifies only our main subsidiaries and eliminates intermediate holding companies.



We are a majority-owned, indirect subsidiary of Grupo Mexico S.A.B. de C.V. (“Grupo Mexico”). As of December 31, 2022, Grupo Mexico, through its wholly-owned subsidiary Americas Mining Corporation (“AMC”), owned 88.9% of our capital stock. Grupo Mexico’s principal business is to act as a holding company for the shares of other corporations engaged in the mining, processing, purchase and sale of minerals and other products and in the provision of railway and other related services.

We conduct our operations in Peru through a registered branch (the “SPCC Peru Branch,” “Branch” or “Peruvian Branch”). The SPCC Peru Branch comprises virtually all of our assets and liabilities associated with our copper operations in Peru. The SPCC Peru Branch does not constitute a corporation that is separate from SCC, and, as such, the obligations of the SPCC Peru Branch are direct obligations of SCC and vice-versa. The SPCC Peru Branch is, however, registered as a branch of a foreign company pursuant to Peruvian law and through this entity, we hold assets, incur liabilities and conduct operations in Peru. Although the SPCC Peru Branch has no capital or liability that is separate from that held or applicable to SCC, the SPCC Peru Branch is deemed to have equity capital for purposes of determining the economic interests of holders of our investment shares (See Note 14 “Stockholders’ Equity” of the consolidated financial statements).

In April 2005, we acquired Minera Mexico, from Americas Mining Corporation (“AMC”), a subsidiary of Grupo Mexico, our controlling stockholder. Minera Mexico is a holding company and all of its operations are conducted through subsidiaries that are grouped into three units: (i) the La Caridad unit (ii) the Buenavista unit and (iii) the IMMSA unit. We own 99.96% of Minera Mexico.

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In 2008, our Board of Directors (“BOD”) authorized a \$500 million share repurchase program that has since been increased by the BOD and is currently authorized to \$3 billion. Pursuant to this program, through December 31, 2022 we have purchased 119.5 million shares of our common stock at a cost of \$2.9 billion. These shares are available for general corporate purposes. We may purchase additional shares from time to time, based on market conditions and other factors. This repurchase program has no expiration date and may be modified or discontinued at any time. Please see Note 7 for a discussion of the Inflation Reduction Act effective in 2023, including a 1% excise tax on certain stock repurchases.

REPUBLIC OF PERU AND MEXICO

Our revenues are derived primarily from our operations in Peru and Mexico. Risks related to our operations in both countries include those associated with economic and political conditions, the effects of currency fluctuations and inflation, the effects of government regulations and the geographic concentration of our operations.

OUR BUSINESS

COPPER BUSINESS

Copper is an important component in the world’s infrastructure chain. It is the third most widely used metal, after iron and aluminum. Copper has unique chemical and physical properties, including high ductility; malleability; thermal and electrical conductivity; and resistance to corrosion, and as such, is considered a prime material for use in electrical and electronic products, including components for power transmission and generation, which accounts for about three quarters of copper global use, and for telecommunications, building construction, transportation and industrial machinery. Copper is also an important metal in non-electrical applications such as plumbing and roofing and, when alloyed with zinc to form brass, is used in many industrial and consumer applications.

Copper is an internationally traded commodity whose prices are mainly determined by the major metal exchanges, the Commodities Exchange, or “COMEX,” in New York and the London Metal Exchange or “LME,” in London. Copper is usually found in nature in association with sulfur. Pure copper metal is generally produced in a multi-stage process, beginning with the mining and concentrating of low-grade ores containing copper sulfide minerals, and followed by smelting and electrolytic refining to produce a pure copper cathode. An increasingly larger share of copper is being produced from acid leaching of oxidized ores. Copper is one of the oldest metals known to man and has contributed significantly to the development of civilization.

BUSINESS REPORTING SEGMENTS:

Our management divides Southern Copper into three reportable segments and manages each as a separate segment.

The three segments identified are groups of individual mines, each of which constitutes an operating segment with similar economic characteristics, product types, processes and support facilities, regulatory environments, employee bargaining contracts and currency risks. In addition, each mine within the individual group earns revenues from similar types of customers for their products and services and each group incurs expenses independently, including commercial transactions between groups.

Inter-segment sales are based on arm’s length prices at the time of sale. These may not be reflective of actual prices realized by the Company due to various factors, including additional processing, timing of sales to outside customers and transportation cost. Information regarding the Company’s sales is included in the segment data. The segments identified by the Company are:

1. Peruvian operations, which include the Toquepala and Cuajone mine complexes and the smelting and refining plants, including a precious metals plant, industrial railroad and port facilities that service both mines. Sales of its products are recorded as revenue from our Peruvian mines. The Peruvian operations produce copper, by-products of molybdenum, silver and other materials.

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2. Mexican open-pit operations, which include the La Caridad and Buenavista mine complexes and the smelting and refining plants, including a precious metals plant and a copper rod plant and support facilities that service both mines. Sales of its products are recorded as revenue of our Mexican mines. The Mexican open-pit operations produce copper, with production of by-products of molybdenum, silver and other materials.
3. Mexican underground mining operations, which include five underground mines that produce zinc, copper, lead, silver and gold; and a zinc refinery. This group is identified as the IMMSA unit and sales of its products are recorded as revenue from the IMMSA unit.

Financial information is periodically prepared for each of the three segments and the results are reported to the Chief Operating Decision Maker (“CODM”) on a segment basis. The CODM focuses on operating income and on total assets as measures of performance to evaluate different segments and to make decisions to allocate resources to the reported segments. These are common measures in the mining industry.

Segment information is included in Item 2 “Properties.” More information on business segment and segment financial information is included in Note 19 “Segment and Related Information” of the consolidated financial statements.

CAPITAL INVESTMENT PROGRAM AND EXPLORATION ACTIVITIES

For a description of our capital investment program, see Item 7 “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Capital Investment Program” and for our exploration activities, see Item 2 “Properties—Explorations Activities.”

PRINCIPAL PRODUCTS AND MARKETS

Copper is primarily used in the building and construction industries; in the power generation and transmission industry; and in the electrical and electronic products; and, to a lesser extent, in industrial machinery and equipment; consumer products; and in the automotive and transportation industries. Molybdenum is used to toughen alloy steels and soften tungsten alloy and is also used in fertilizers, dyes, enamels and reagents. Silver is used for electrical and electronic products and, to a lesser extent, in brazing alloys and solder, jewelry, coinage, photographic, silverware and catalysts. Zinc is primarily used as a coating on iron and steel to protect against corrosion; it is also used to make die cast parts to manufacture batteries and to form sheets for architectural purposes.

Our marketing strategy and annual sales planning emphasize developing and maintaining long-term customer relationships. As such, acquiring annual or other long-term contracts for the sale of our products is a high priority. Generally, 80% to 90% of our metal production is sold under annual or longer-term contracts. Sales prices are determined based on the prevailing commodity prices for the quotation period according to the terms of the contract.

We focus on end-user customers as opposed to selling on the spot market or to trading companies. In addition, we devote significant marketing efforts to diversifying our sales both by region and customer base. We also strive to provide superior customer service, including timely deliveries of our products. Our ability to consistently fulfill customer demand is underpinned by our substantial production capacity.

For additional information on sales please see “Revenue recognition” in Note 2 “Summary of Significant Accounting Policies” and Note 19 “Segment and Related Information” of the consolidated financial statements.

METALS PRICES

Prices for our products are principally a function of supply and demand and, with the exception of molybdenum, are established on COMEX and LME. Prices for our molybdenum products are established by reference to the publication Platt’s Metals Week. Our contract prices also reflect any negotiated premiums and the costs of freight and other factors. From time to time, we have entered into hedging transactions to provide partial protection against future decreases in the market price of metals and we may do so under certain market conditions. For a further discussion of our products

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market prices, please see Item 7 “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Metal Prices.”

The table below shows the high, low and average COMEX and LME per pound copper prices during the last 10 years:

Year	Copper (COMEX)			Copper (LME)		
	High	Low	Average	High	Low	Average
2013	3.78	3.03	3.34	3.74	3.01	3.32
2014	3.43	2.84	3.12	3.37	2.86	3.11
2015	2.95	2.02	2.51	2.92	2.05	2.50
2016	2.69	1.94	2.20	2.69	1.96	2.21
2017	3.29	2.48	2.80	3.27	2.48	2.80
2018	3.29	2.56	2.93	3.29	2.64	2.96
2019	2.98	2.51	2.72	2.98	2.51	2.72
2020	3.63	2.12	2.80	3.61	2.09	2.80
2021	4.78	3.54	4.24	4.86	3.52	4.23
2022—1st Q	4.93	4.30	4.54	4.87	4.34	4.53
2022—2nd Q	4.80	3.71	4.34	4.73	3.74	4.32
2022—3rd Q	3.71	3.21	3.50	3.77	3.18	3.51
2022—4th Q	3.95	3.36	3.66	3.87	3.37	3.63
2022	4.93	3.21	4.01	4.87	3.18	4.00

The per pound COMEX copper price during the last 5 and 10 year periods averaged \$3.34 and \$3.07, respectively. The per pound LME copper price during the last 5 and 10 year periods averaged \$3.34 and \$3.06, respectively.

The table below shows the high, low and average prices per pound with the exception of silver, which is priced per ounce. The market prices for our three principal by-products over the last 10 years are as follows:

Year	Silver (COMEX)			Molybdenum (Dealer Oxide Platt’s Metals Week)			Zinc (LME)		
	High	Low	Average	High	Low	Average	High	Low	Average
2013	32.41	18.53	23.82	11.95	9.12	10.26	0.99	0.81	0.87
2014	22.05	15.39	19.04	15.05	8.75	11.30	1.10	0.88	0.98
2015	18.35	13.67	15.68	9.40	4.30	6.59	1.09	0.66	0.88
2016	20.67	13.74	17.10	8.60	5.10	6.42	1.32	0.73	0.95
2017	18.49	15.37	17.03	10.25	6.85	8.13	1.53	1.00	1.31
2018	17.55	13.95	15.65	13.00	10.60	11.86	1.64	1.04	1.33
2019	19.39	14.28	16.16	12.70	8.28	11.27	1.37	0.90	1.16
2020	29.25	11.74	20.62	10.90	7.00	8.57	1.29	0.72	1.03
2021	29.40	21.46	25.18	20.10	9.95	15.51	1.73	1.15	1.36
2022—1st Q	26.89	22.17	24.05	19.33	18.70	18.99	1.93	1.60	1.70
2022—2nd Q	26.14	20.28	22.65	19.30	17.08	18.30	2.05	1.47	1.78
2022—3rd Q	20.72	17.55	19.10	18.58	13.90	16.00	1.76	1.28	1.48
2022—4th Q	24.09	18.02	21.25	31.85	17.95	21.17	1.49	1.22	1.36

2022	26.89	17.55	21.76	31.85	13.90	18.61	2.05	1.22	1.58
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The per ounce COMEX silver price during the last 5 and 10 year periods averaged \$19.88 and \$19.20, respectively. The per pound Platt's Metals Week Dealer Oxide molybdenum price during the last 5 and 10 year periods averaged \$13.16 and \$10.85, respectively. The per pound LME zinc price during the last 5 and 10 year periods averaged \$1.29 and \$1.14, respectively.

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COMPETITIVE CONDITIONS

Competition in the copper market is based primarily on price and service basis, with price being the most important factor when supplies of copper are ample. Our products compete with other materials, including aluminum and plastics. For additional information, see Item 1A “Risk Factors—The copper mining industry is highly competitive.”

HUMAN CAPITAL RESOURCES

As of December 31, 2022, we had 15,018 employees, approximately 73% of whom are covered by a Collective Labor Agreement and are represented by ten different labor unions. We believe that the labor environment in our operations in Mexico and Peru is favorable, which has allowed us to increase productivity as we advance the goals of our capital expansion program. In addition, around 14,000 people were working as contractors in support of our operations. In accordance with our Community Development commitment, more than 55% of our workforce is hired locally.

Talent Development, Training and Retention

As a large integrated copper producer, we have a wide range of employees, including management professionals, technicians, engineers, and production employees. We believe in our people, and we provide a wide variety of opportunities for professional growth for all employees in Peru and Mexico. In 2022 we had a training investment of over \$2.5 million, which resulted in more than 408,000 training hours, focused on safety and health, technical training, soft skills development, code of ethics and compliance training. We also seek to enhance institutional knowledge through on-the-job training experiences, and designed more than 400 Individual Development Plans, as part of our succession planning.

All of our employees receive initial training and opportunities for continuous development throughout their careers, which we believe favors talent retention. More than 65% of the positions are covered by internal employees and our retention rate is around 92%. Voluntary turnover indicators in all of the countries in which we operate remain at single digits year-over-year. We believe this suggests our employees have a strong desire to continue working with us.

Company Culture

We believe in a shared mission, vision, values and improving our employer brand for existing and future employees. The Company seeks to create value for its employees to help ensure that their working experience is optimal. Various efforts are made on this front, including promoting a safe and collaborative work environment and culture and ensuring employees continue to be engaged with the Company’s values and principles. We live and promote our core values of honesty, respect, and responsibility in our day-to-day.

In terms of corporate culture, the Company is committed to the continuous growth and development of its employees and surrounding communities. The Company recognizes the effort of our employees and works to strengthen institutional values. We prize creativity, honesty and equality and we ensure that our employees are aligned with the same work ethic to standardize culture across the Company. The Company also seeks to promote goal-oriented principles to obtain results that positively affect our main stakeholders and communities to drive productivity, innovation, human growth and wellbeing, environmental protection and forward thinking.

Compensation and Benefits

We also focus on attracting and retaining employees by providing compensation and benefit packages that are competitive within the applicable market, considering the location of the position, responsibilities and compensation requirements in the countries where we operate. Our compensation practices consider many factors, including individual performance and responsibilities; years of service; elements of compensation mandated by Peruvian and Mexican law; future challenges and objectives; contributions to the future success of our Company; the employee’s total compensation and our financial performance. We may also look at the compensation levels of comparable companies. We offer productivity bonuses to our employees, which motivates them to grow the Company’s results.

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Health and Safety

During 2022, we intensified our COVID-19 related communication to the entire organization, with a view to strengthening the application of the health safety protocols in all of the Company's operations and offices, which include:

- a) Increase of the application of antigen and PCR tests per day, including those prescribed at the homes of our employees.
- b) Decrease in capacity to 30% in offices and common spaces, keeping well-ventilated areas, and restriction of meetings.
- c) Promoting "home office" in those positions that allow it, applying sanitary filters and safety protocols. We hired special Infirmary staff in all sites and offices, for prevention and medical care.
- d) Continuous sanitization and prevention equipment for employees.
- e) Limitation of access to company camps, where our employees' families live.
- f) Medical and psychological counseling line for our employees and our communities.
- g) Functioning of health committees at each business center.
- h) Coordinated actions with the municipal health committees.
- i) Donations of supplies and diagnostic tests to local communities.
- j) Accommodations for our employees in their complete vaccination schedule and booster applications.

Our focus on health and safety includes prevention and wellness programs, through the Medical and HR departments, such as clinical attention and periodical revisions, wellness training and a wellness platform for our employees.

We are committed to have our operations audited and certified under the ISO 45001 standards. In the first quarter of 2022, the Santa Barbara and San Martin mines obtained ISO 45001 Certification for the environmental management system while La Caridad Mine and the Lime Plant in Sonora obtained ISO 14001 Certification. In the second quarter of 2022, the Maritime Terminal of Guaymas also received ISO 45001 Certification and the Charcas unit became the first of our underground mines to obtain ISO 14001 Certification.

Health and safety programs include a strong annual training plan, compliance with the regulators at each site, risk management and Behavior Based Safety programs that extend our safety culture to contractors.

Talent Attraction and Recruiting

We deploy several talent attraction programs, which entail leveraging organizational relations; establishing links with national and regional institutions of higher learning in the countries where we operate; and participating in job fairs. We also have a job opportunities section in our webpage and use several local and international job boards to publish openings.

We offer professional internship programs to attract students before they graduate from universities or centers for vocational training. We attract over 500 graduates from different academic disciplines and universities in Mexico and Peru with our Intern Development Programs. These strategies consolidate Human Resource Planning.

Additionally, we believe that we are a first-choice employer in the countries where we operate. This reflects our efforts to strengthen relationships with our stakeholders, including employees, and engage in community development. We have transparent selection processes and are committed to upholding principles for human rights and diversity, inclusion and non-discrimination.

Employee Engagement

Additionally, we conduct a biannual Employee Opinion Survey to measure employees' perceptions of the Company and take actions intended to increase employee engagement, develop a positive organizational environment, and strengthen our culture. We measure the employee engagement level with 18 sub-factors, grouped into two major sets of factors: loyalty and satisfaction. The first factor represents the degree to which an individual identifies with the organization and its business goals, and the second reflects the individual's degree of satisfaction with his/her working conditions and draws a line between satisfaction levels and performance at work.

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The average of these factors indicates the level of engagement on a scale of 1 to 5 (a Likert scale). In 2017, we had an engagement rating of 3.71 and in 2019, our rating was at 3.77. In 2021 the rating increased to 4.09. We believe this positive trend suggests a continuous improvement on the engagement level of our people.

For the 2021 survey, we added and measured the COVID-19 factor to better understand the opinion of our people about the actions taken by SCC in favor of our employees' health and prevention, and we obtained a very high rating for this particular factor. The survey also included new sociodemographic elements, in order to consider the opinions of our diverse groups within our Company and respond with our "ECO Action Plan" for the next two years.

All employees, both unionized and non-unionized, are invited to participate in all of our human talent initiatives. This reflects our belief that it is in the Company's best interest to listen to all of our people and create open communications channels. 76% of our employees participated in 2021's survey, which is an increase of 6% compared to 2019. This number exceeds that registered by other companies that apply similar surveys.

We have adopted a corporate social responsibility policy that is designed to integrate the Company's operations with local communities in areas influenced by our operations. This policy focuses on creating permanent and positive relationships to generate optimal social conditions and promote sustainable development in the area. We continue to make significant expenditures for community programs. For additional information on our community programs, refer to Corporate Social Responsibility under Note 13 "Commitments and contingencies" to the consolidated financial statements.

DIVERSITY, EQUITY AND INCLUSION (DEI)

Our vision on DEI is to ensure that our people always feel included, welcomed and valued for their personal and professional contributions. This vision is based on our core values of respect, honesty and responsibility.

Consistent with our Code of Conduct and Human Rights Policy, our goal is to (i) build an organizational culture of total equality and well-being with focus on diversity, inclusion and non-discrimination, (ii) increase sensitivity, knowledge and skills in our leaders and employees in order to integrate diverse and inclusive teams and promote a culture of respect, and (iii) extend this culture to the communities in which we operate.

Based on the results of a DEI survey in Mexico and Peru, we aligned our diversity and inclusion Strategic Plan with six strategic initiatives to create Key Performance Indicators and increase participation of women by 2% in the organization, reinforce our human resources policies for inclusion, consolidate the executive level commitment and implement continuous training and communication campaigns at all levels in the organization.

In 2022, we disclosed our DEI Corporate Policy, originally issued in 2021, and trained our total workforce on DEI fundamental principles through the Training Program "Towards an Inclusive Grupo Mexico." We are committed to inclusion and to honor our diversity. We increased our female workforce from 944 to over 1,090, which represents an increase of 15% in our female headcount year-over-year. Additionally, 30% of our female workforce hold a STEM position (Science, Technology, Engineering, Mathematics).

We now have a better understanding of our diversity distribution, which we believe allows us design efforts for each group, and advance towards inclusion.

CODE OF ETHICS

We certify our employees in our Code of Ethics yearly. Every employee, starting with new hires, commit and sign agreement with our main document and guidance tool for our conduct in terms of our legal, professional and ethical obligations, both in our business dealings and our interpersonal relationships.

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Peru

76.5% of the Company's 4,947 Peruvian employees were unionized as of December 31, 2022. Currently, there are six separate unions, none of which represents the majority of workers, as defined by current Peruvian labor legislation.

During 2021, the Company held talks with the six unions to sign collective agreements prior to their effective dates. As a result, from June to December 2021, the Company signed six collective agreements ranging from three to six year terms. All of the agreements granted annual salary increases of 5% and a signing bonus ranging S/45,000 (approximately \$11,780) to S/90,000 (approximately \$23,560), depending on the duration of the agreement, among other benefits. A long-term agreement bonus of S/10,000 (approximately \$2,618) was granted to the union that agreed to six-year extension of the collective bargaining agreement. All these concepts were recorded as labor expense. There were no other collective agreements pending negotiation with the unions in 2022. Additionally, the Company reached a settlement agreement with one of the unions regarding compliance with an 2018-2019 Arbitration Award.

In February 2022, the Company's railway from Cuajone to Ilo was blocked and the Viña Blanca water reservoir facilities were seized, cutting off the water supply to some residents of the Cuajone mining camp. The six unions came together during the first half of 2022 to defend their rights to work in the Cuajone mining unit in response to the action carried out by this small group of residents from the community of Tumilaca, Pocata, Coscore and Tala, Moquegua, which directly affected the health and safety of workers and their families and the production process. The National Federation of Metallurgical and Steel Mining Workers of Peru ("Federacion Nacional de Trabajadores Mineros Metalurgicos y Siderurgicos del Peru") condemned the actions against the Cuajone unit and ratified its collective agreements with the Company.

Our employees at the Toquepala and Cuajone mining units reside in the 3,700 houses and apartments that we have built at the townsites. We also have 90 houses in Ilo for staff personnel. Housing, maintenance and utility services are provided to most of our employees for a nominal cost. Our townsite and housing complexes provide schools, medical facilities, churches, banks, shops, social clubs, recreational facilities and other services.

Mexico

72.4% of our 10,005 Mexican employees were unionized as of December 31, 2022 and are represented by four different unions. Under Mexican law, the terms of employment for unionized workers are set forth in collective bargaining agreements. Mexican companies negotiate the salary provisions of collective bargaining agreements with the labor unions on an annual basis and negotiate other benefits every two years. We conduct negotiations separately at each mining complex and each processing plant.

Our Taxco mine in Mexico has been on strike since July 2007. For a discussion of labor matters, refer to the information contained under the caption "Labor matters" in Note 13 "Commitments and Contingencies" of the consolidated financial statements.

Employees of La Caridad and Buenavista units reside in townsites at Nacozari and Cananea, where we have built approximately 1,800 houses and apartments. Most of the employees of the IMMSA unit reside on the grounds of the mining or processing complexes where we have built 356 houses and apartments. Housing, together with maintenance and utility services, is provided at nominal cost to most of our employees. Our townsites and housing complexes include educational and medical facilities, churches, social clubs, shopping centers, banking and other services. Through 2007, the Buenavista unit provided health care services to employees and retired unionized employees and their families through its own on-site hospital. In 2010, the Company signed an agreement with the Secretary of Health of the State of Sonora to provide these services to its retired workers and their families. The new workers of Buenavista receive health services through the Mexican Institute of Social Security as is the case for all Mexican workers.

FUEL, ELECTRICITY AND WATER SUPPLIES

The principal raw materials used in our operations are fuel, gas, electricity and water. We use natural gas to power boilers and generators and utilize diesel fuel to power mining equipment for metallurgical processes at our operations.

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We believe that sufficient sources of fuel, electricity and water are readily available. Fluctuations may occur in the prices of these raw materials that are beyond our control; as such, we focus our efforts on reducing costs through cost and energy-saving measures.

Energy generates the main cost in mining, so concern for its conservation and efficient usage is critical. We have energy management committees at most of our mines, which meet periodically to discuss consumption and to develop measures directed at saving energy. Alternative sources are also being analyzed at the corporate level, including both traditional and renewable energy sources. This approach has helped us to develop a culture of energy conservation directed at ensuring the sustainability of our operations.

Peru:

Fuel: In Peru, we obtain fuel primarily from Valero Peru, a local subsidiary of Valero Energy Corporation, a U.S. producer of fuel and power. The Company believes that adequate supplies of fuel are available for its operations in Peru.

Electricity: In June 2014, we entered into a power purchase agreement for 120 megawatts (“MW”) with the state owned company Electroperu S.A., which began supplying energy to our Peruvian operations for a twenty-year period that started on April 17, 2017. In July 2014, we entered into a power purchase agreement for 120MW with a private power generator Kallpa Generacion S.A. (“Kallpa”), which began supplying energy to our Peruvian operations for a ten-year period that started on April 17, 2017. In May 2016, we signed an additional power purchase agreement for a maximum of 80MW with Kallpa, under which Kallpa will supply energy to the operations related to the Toquepala expansion and to other minor projects for a period starting on May 1, 2017 and ending after ten years of commercial operations at the Toquepala Expansion or until April 30, 2029; whichever occurs first. We feel confident that additional power can be obtained from the Peruvian national grid, should the need arise.

Additionally, we have nine megawatts of power generation capacity from two small hydro-generating facilities at Cuajone. Power is distributed over a 224-kilometer closed loop transmission circuit, which is connected to the Peruvian network.

Water: We have water rights or licenses for up to 1,964 liters per second from well fields at the Huaitire-Gentilar, Vizcachas and Titijones aquifers and surface water rights from Lake Suches. Three additional water sources are: Quebrada Honda, Quebrada Tacalaya and a smaller resource from the Cuajone mine pit. We believe these water sources are sufficient to supply the water demands of our operating units at Toquepala and Cuajone. Additionally, we have permits in Ilo to use water at three desalination plants that generate water for industrial use and domestic consumption; we believe these facilities will produce sufficient water to cover the requirements of both current and projected needs. Additionally, we have two licenses for the use of non-desalinated seawater for the Smelter.

The Branch has a surface water permit for the Locumba river, which will facilitate the conservation and maintenance of a portion of the wetlands in Ite.

Mexico:

Fuel: In Mexico, since 2018, we have purchased fuel from Petroleos Mexicanos (“PEMEX”), the state producer, and from private suppliers.

The La Caridad unit imports natural gas from the United States through its pipeline (between Douglas, Arizona and Nacozari, Sonora). This allows us to import natural gas at market prices and thereby reduce operating costs. Several contracts with PEMEX and the United States provide us with the option of using a monthly or daily fixed prices for our natural gas purchases.

Natural gas is used for metallurgical processes and to power furnaces, converters, casting wheels, boilers and electric generators. Diesel oil is a backup method for all these uses. We use diesel oil to power mining equipment at our operations.

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Electricity: Electricity is used as the main energy source at our mining complexes. We purchase most of our electricity from Mexico Generadora de Energia S. de R. L. (“MGE”), a subsidiary of Grupo Mexico which has two power plants designed to supply power to La Caridad and Buenavista units. Currently, MGE supplies 1.42% of its power output to third party energy users. These plants are natural gas-fired combined cycle power generating units, with a net total capacity of 516.2 megawatts. In 2012, we entered into a power supply agreement with MGE that will last until 2032. The first plant was completed in 2013 and the second in 2014. The first plant began to supply power to the Company in December 2013, and the second plant in June 2015.

We also purchase electricity from the *Comision Federal de Electricidad* (the Federal Electricity Commission or the “CFE”), the state’s electrical power producer. In addition, we recover some energy from waste heat boilers at the La Caridad smelter. Accordingly, a significant portion of our operating costs in Mexico is dependent upon the pricing policies of CFE and PEMEX, which are affected by political and regulatory environments, international market prices for crude oil and natural gas; and conditions in the refinery markets.

Some IMMSA mining operations also purchase electricity from Eolica el Retiro, S.A.P.I de C.V. (“Eolica”), a windfarm energy producer that is an indirect subsidiary of Grupo Mexico. In August 2013, IMMSA and other of the Company’s mining operations entered into a purchase agreement and in late 2014 started to purchase electricity from Eolica. Due to the nature of the production process there is not a fixed power capacity contracted. Currently, Eolica el Retiro is supplying approximately 26.58% of its power output to IMMSA and Mexcobre.

On February 20, 2020, the Company signed a power purchase agreement with Parque Eolico de Fenicias, S. de R.L. de C.V., and indirect subsidiary of Grupo Mexico, to supply 611,400 MWh of power per year to some of the Company’s Mexican operations for 20 years. This agreement is expected to become effective in the first semester of 2023.

Water: In Mexico, water is deemed public property and industries that are not connected to a public service water supply must obtain a water concession from *Comision Nacional del Agua* (the National Water Commission or the “CNA”). Water usage fees are established in the *Ley Federal de Derechos* (the Federal Rights Law), which distinguishes several availability zones with different fees per unit of volume according to each zone, with the exception of Mexicana de Cobre. All of our operations have one or several water concessions and pump out the required water from wells. Mexicana de Cobre pumps water from the La Angostura dam, which is close to the mine and plants. At our Buenavista facility, we maintain our own wells and pay the CNA for water usage. Water conservation committees have been established at each plant to conserve and recycle water. Water usage fees are updated on a yearly basis and have been on the rise in recent years.

LEGAL AND REGULATORY MATTERS

In 2021 and 2022, no legal, environmental, labor or tax regulations came into effect that required the Company to incur material costs of compliance, had material adverse effects on the Company’s operations, or affected normal execution of the Company’s projects. Additionally, we believe that all our facilities in Peru and Mexico are in material compliance with applicable environmental, mining and other applicable laws and regulations.

For a discussion of environmental and labor matters, reference is made to the information contained in Note 13 “Commitments and Contingencies” of the consolidated financial statements. For more information on tax matters, refer to Note 7 “Income taxes” of the consolidated financial statements.

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MINING RIGHTS AND CONCESSIONS

Peru:

We have 237,102 hectares in concessions from the Peruvian government for our exploration, exploitation, extraction and production operations, at various sites, as follows:

	<u>Toquepala</u>	<u>Cuajone</u>	<u>Ilo</u> (hectares)	<u>Other</u>	<u>Total</u>
Plants	360	919	421	—	1,700
Operations	22,423	30,261	4,249	—	56,933
Projects and water resources	—	—	—	36,333	36,333
Exploration	—	—	—	142,136	142,136
Total	<u>22,783</u>	<u>31,180</u>	<u>4,670</u>	<u>178,469</u>	<u>237,102</u>

We believe that our Peruvian concessions are in full force and effect under applicable Peruvian laws and as such, comply with all material terms and requirements applicable to said concessions. The concessions have indefinite terms, subject to our payment of concession fees of up to \$3.00 per hectare annually for the mining concessions and a fee based on nominal capacity for the processing concessions. Fees paid during 2022, 2021 and 2020, were approximately \$2.5 million, \$2.3 million and \$1.4 million, respectively. We have two types of mining concessions in Peru: metallic and non-metallic concessions.

Mexico:

In Mexico we have 493,117 hectares in concessions from the Mexican government for our exploration and exploitation activities as outlined on the table below:

	<u>IMMSA</u>	<u>La Caridad</u>	<u>Buonavista</u> (hectares)	<u>Projects</u>	<u>Total</u>
Mine concessions	223,313	103,821	93,706	72,277	493,117

We believe that our Mexican concessions are in full force and in effect under applicable Mexican laws and that we are in compliance with all material terms and requirements applicable to these concessions. Under Mexican law, mineral resources belong to the Mexican nation and a concession from the Mexican federal government is required to explore or mine mineral reserves. Mining concessions have a 50-year term that can be renewed for another 50 years. Holding fees for mining concessions can be from \$0.39 to \$8.67 per hectare depending on the start date of the mining concession. Fees paid during 2022, 2021 and 2020 were approximately \$8.7 million, \$7.7 million and \$6.6 million, respectively. In addition, all of our operating units in Mexico have water concessions that are in full force and effect. Although ownership is not required in order to explore or mine a concession, we generally own the land related to our Mexican concessions. We also own all of the processing facilities of our Mexican operations and the land on which they are built.

AVAILABLE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the U.S. Securities and Exchange Commission (“SEC”). You may read and copy any document we file at the SEC’s Public Reference Room at 100 F Street NE, Washington, D.C. 20549. The SEC maintains a website that contains annual, quarterly and current reports, proxy statements and other information that issuers (including Southern Copper Corporation) file electronically with the SEC. The SEC’s website is www.sec.gov.

Our website is www.southerncoppercorp.com. The first document on the list of materials available on this website is Form 8-K, dated March 14, 2003. We offer, free of charge, downloads of our annual, quarterly and current reports, as soon as they can be reasonably made available following electronic or physical filing with the SEC. Our website also includes the Company’s Corporate Governance guidelines and the charters of our main Board Committees. However, the information found on our website is not part of this or any other report.

[Table of Contents](#)**CAUTIONARY STATEMENT**

Forward-looking statements in this report and in other Company statements include information regarding expected commencement dates of mining or metal production operations, projected quantities of future metal production, anticipated production rates, operating efficiencies, costs and expenditures, including taxes, as well as projected demand or supply for the Company's products. Actual results could differ materially depending upon certain factors, including the risks and uncertainties relating to general U.S. and international economic and political conditions, the cyclical and volatile prices of copper, other commodities and supplies, including fuel and electricity, the availability of materials, insurance coverage, equipment, required permits or approvals and financing, the occurrence of unusual weather or operating conditions, lower than expected ore grades, water and geological problems, the failure of equipment or processes to operate in accordance with specifications, failure to obtain financial assurance to meet closure and remediation obligations, labor relations, litigation and environmental risks, as well as political and economic risk associated with foreign operations. Results of operations are directly affected by metal prices on commodity exchanges, which can be volatile.

CAUTIONARY NOTE REGARDING DISCLOSURE OF MINERAL PROPERTIES*Mineral Reserves and Resources*

In our public filings in the U.S. and Peru and in certain other announcements not filed with the SEC, we disclose proven and probable reserves and measured, indicated and inferred mineral resources, each as defined in Item 1300 of Regulation S-K ("S-K 1300"). The estimation of measured mineral resources and indicated mineral resources implies greater uncertainty as to their existence and economic feasibility than the estimation of proven and probable reserves, and therefore investors are cautioned not to assume that all or any part of measured or indicated resources will ever be converted into S-K 1300-compliant reserves. The estimation of inferred resources involves far greater uncertainty as to their existence and economic viability than the estimation of other categories of resources. Therefore, investors are cautioned not to assume that all or any part of inferred resources exist, or that they can be mined legally or economically.

Technical Report Summaries and Qualified Persons

The scientific and technical information concerning our mineral projects in this Form 10-K have been reviewed and approved by third-party "qualified persons" pursuant to S-K 1300. For a description of the key assumptions, parameters and methods used to estimate mineral reserves and mineral resources included in this Form 10-K, as well as data verification procedures and a general discussion of the extent to which the estimates may be affected by any known environmental, permitting, legal, title, taxation, sociopolitical, marketing or other relevant factors, please review the Technical Report Summaries for each of the Company's material properties which are included as exhibits to, and incorporated by reference in this report.

ITEM 1A. RISK FACTORS

Every investor or potential investor in Southern Copper Corporation should carefully consider the following risk factors.

Financial risks

Our financial performance is highly dependent on the price of copper and the other metals we produce.

Our financial performance is significantly affected by the market prices of the metals that we produce, particularly the market prices of copper, molybdenum, zinc and silver. Historically, these prices have been subject to wide fluctuations and are affected by numerous and complex factors beyond our control. Market prices are affected by a number of factors, including global economic and political conditions in general, and in particular by: international policies and regulations in the ambits of trade, taxes and tariffs; levels of supply and demand; the availability and cost of substitutes; inventory levels maintained by users; actions of participants in the commodities markets; interest rates; expectations

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regarding future inflation rates; currency exchange rates and changes in technology. In addition, the market prices of copper and certain other metals have on occasion been subject to rapid short-term changes. In 2020, the COVID-19 pandemic and the consequent negative impact on the global economy created significant volatility in the financial markets, including the copper market. At the start of the pandemic in 2020, copper prices were initially impacted by economic uncertainty. However, in mid-2020, copper prices began to rise and reached a record highs during 2021. Volatility in global economic growth, particularly in developing countries, has the potential to adversely affect future demand and prices for commodities. Geopolitical uncertainty and protectionism have the potential to inhibit international trade and negatively impact business confidence, which can create price volatility and constraints on our ability to trade in certain markets.

In addition to the factors discussed above, copper prices may be affected by demand from China, which is currently the largest consumer of refined copper and concentrate in the world.

Over the last three years, approximately 79% of our revenues have come from the sale of copper; 10% from molybdenum; 5% from silver; and 3% from zinc. Please see the distribution of our revenues per product on Item 8 “Financial Statements and Supplementary Data” Note 19 “Segment and Related Information—Sales value per segment”.

See also the historical average price of our products on Item 1 Business caption “Metals prices”.

We cannot predict if metals prices will rise or fall in the future. Extended significant future declines in metals prices, particularly copper, could have a material adverse impact on our results of operations, financial condition and value of our assets. Under very adverse market conditions, we might consider curtailing or modifying some of our mining and processing operations. We may be unable to decrease our costs in an amount sufficient to offset reductions in revenues, in which case, we may incur losses, which may be material.

Declines in the prices of metals we sell could also result in metals inventory adjustments and impairment charges for our long-lived assets. Other events that could result in the impairment of our long-lived assets include, but are not limited to, decreases in estimated proven and probable mineral reserves and any event that might have a material adverse effect on current and future expected mine production costs.

Volatility in metals prices may also impact the price of our outstanding securities.

Although our results of operations and cash flow will reflect fluctuations in the prices of copper and other metals we produce, short-term volatility in prices may generate significant fluctuations in the price of our securities. Such volatility in the price of our securities may not be reflective of our operating performance or financial results.

Our business requires levels of capital investments that we may not be able to maintain.

Our business is capital intensive. Significant capital investments are required specifically for the exploration and exploitation of copper and other metal reserves, mining, smelting and refining costs, the maintenance of machinery and equipment and compliance with laws and regulations. We must continue to invest capital to maintain or increase the amount of copper reserves that we exploit and the amount of copper and other metals we produce. We cannot assure you that we will be able to maintain our production at levels that generate sufficient cash, or that we will have access to sufficient financing to continue our exploration, exploitation and refining activities at or above present levels.

Restrictive covenants in the agreements governing our indebtedness and the indebtedness of our Minera Mexico subsidiary may restrict our ability to pursue our business strategies.

Our financing instruments and those of our Minera Mexico subsidiary include financial and other restrictive covenants that, among other things, limit our and Minera Mexico’s abilities to incur additional debt and sell assets. If either we or our Minera Mexico subsidiary fails to comply with these obligations, we could be in default under the applicable agreements. This situation, if not addressed or waived, could require immediate repayment of debt obligations. Our Minera Mexico subsidiary is further limited by the terms of its outstanding notes, which also restrict the Company’s applicable incurrence of debt and liens. In addition, future credit facilities may contain limitations on our capacity to incur additional debt and liens, dispose of assets, or pay dividends to our common stockholders.

[Table of Contents](#)***We may not pay a significant amount of our net income as cash dividends on our common stock in the future.***

We have distributed a significant amount of our net income as dividends since 1996. Our dividend practice is subject to change at the discretion of our Board of Directors at any time. The amount that we pay in dividends is subject to a number of factors, including the results of our operations; our financial condition; cash requirements; tax considerations; future prospects; legal restrictions; contractual restrictions in credit agreements; limitations imposed by the government of Peru, Mexico and other countries where we have significant operations; and other factors that our Board of Directors may deem relevant. Depending on our capital investment program and global economic conditions, it is possible that future dividend distributions will be lower than the levels seen in recent years.

Our ability to recognize the benefits of deferred tax assets is dependent on future cash flows and taxable income.

Through 2022, the Company recognized the expected future tax benefit from deferred tax assets when the tax benefit was considered more likely than not to be realized. A valuation allowance is provided for those deferred tax assets for which management believes that the related benefits will not be realized. Determining the amount of the valuation allowance and assessing the recoverability of deferred tax assets requires management to make significant estimates related to expectations of future taxable income and existing tax laws. There can be no assurance that the Company will be able to recognize the expected future benefits of deferred tax assets; this inability could have a material adverse effect on the Company's results of operations.

Operational risks***Our actual reserves and resources may not conform to our current estimates of our ore deposits and our long-term viability depends on our ability to replenish mineral reserves and resources.***

There is a degree of uncertainty attributable to the estimation of reserves and resources. Until reserves are actually mined and processed, the quantity of ore and grades must be considered estimates only. We disclose proven and probable reserves and measured, indicated and inferred resources, each as defined in Item 1300 of Regulation S-K ("S-K 1300"). Additionally, the scientific and technical information concerning our mineral projects in this Form 10-K has been reviewed and approved by third-party "qualified persons" pursuant to S-K 1300. We may be required in the future to revise our reserves and resources estimates based on our actual production. We cannot assure you that our actual reserves and resources conform to geological, metallurgical or other expectations or that the estimated volume and grade of ore will be recovered. Market prices of our metals, increased production costs, reduced recovery rates, short-term operating factors, royalty charges and other factors may render proven and probable reserves uneconomic to exploit and may result in revisions of reserves data from time to time. Reserves data may not be indicative of future results of operations. Our reserves are depleted as we mine. We depend on our ability to replenish our mineral reserves and resources for our long-term viability. We use several strategies to replenish and increase our mineral reserves and resources, including exploration and investment in properties located near our existing mine sites and investing in technology that could extend the life of a mine by allowing us to cost-effectively process ore types that were previously considered uneconomic. Acquisitions may also contribute to increasing mineral reserves and resources, and we review potential acquisition opportunities on a regular basis. However, we cannot assure you that we will be able to continue with our strategy to replenish reserves indefinitely.

Our operations are subject to risks, some of which are not insurable.

The business of mining, smelting and refining copper, zinc and other metals is subject to a number of risks and hazards, including industrial accidents, labor disputes, unusual or unexpected geological conditions, changes in the regulatory environment, environmental hazards, weather and other natural phenomena, such as seismic activity, wall failures and rock slides in our open-pit mines, structural collapses of our underground mines or tailings impoundments, and lower than expected ore grades or recovery rates. The Company's operations may also be affected by mudslides and flash floods caused by torrential rains.

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Such occurrences could result in damage to, or destruction of, mining operations resulting in monetary losses and possible legal liability. In particular, surface and underground mining and related processing activities present inherent risks of injury to personnel, loss of life and damage to equipment.

The waste rock and tailings produced in our mining operations represent our largest volume of waste material. Managing the volume of waste rock and tailings presents significant environmental, safety and engineering challenges and risks. We maintain large tailings impoundments containing sand of ground rock, moistened with water, which are effectively large dams that must be engineered, built and monitored to assure structural stability and avoid leakages or structural collapse. Defects, errors and failures at tailings dams and in other impoundments at any of our mining operations could cause severe property and environmental damage and loss of life. The importance of careful design, management and monitoring of large impoundments was emphasized in recent years by large scale tailings dam failures at unaffiliated mines, which caused extensive property and environmental damage and resulted in the loss of life. For more information regarding our tailing dams, please see Item 2 “Properties—Slope Stability—Tailing Dams.”

During recent years, social and political demands has caused violence which could result in damage to, or destruction of, mining operations resulting in monetary losses and possible legal liability.

We maintain insurance against many of these and other risks, which under certain circumstances may not provide adequate coverage. Insurance against certain risks, including certain liabilities for environmental damage or hazards as a result of exploration and production, is not generally available to us or other companies within the mining industry. Nevertheless, recent environmental legal initiatives contemplate requirements for environmental damage insurance. If these regulations come into force, we will have to analyze the need to obtain said insurance. We do not have nor do we intend to obtain, political risk insurance. We cannot assure you that these and other uninsured events will not have an adverse effect on our business, properties, operating results, financial condition or prospects.

Changes in the demand level for our products and copper sales agreements could adversely affect our revenues.

Our financial results may be affected by fluctuations in demand for the refined, semi-refined metal products and concentrates we sell at both the industrial and consumer level, and may also be affected by changes in the global economy, including economic upturns and downturns of differing magnitudes. Changes in technology, industrial processes, concerns over weaknesses in the global economy and consumer habits may affect the level of demand to the extent that those increase or decrease the need for our metal products. Our revenues may also be adversely affected by events of force majeure that could have a negative impact on our sales agreements. These events include acts of nature, labor strikes, fires, floods, wars, transportation delays, government actions or other events that are beyond the control of the parties to the agreement.

Interruptions of energy supply or increases in energy, fuel and gas costs, shortages of water supply, critical parts, equipment, skilled labor and other production costs may adversely affect our results of operations.

We require substantial amounts of fuel oil, electricity, water and other resources for our operations. Fuel, gas and power costs constituted approximately 34% of our total production cost in 2022, 31% in 2021 and 28% in 2020. We rely upon third parties for our supply of the energy resources consumed in our operations. Therefore prices for and availability of energy resources may be subject to change or curtailment due to new laws or regulations; imposition of new taxes or tariffs; interruptions in production by suppliers; and variations in global prices or market conditions, among other factors. Regarding water consumption, although each of our operations currently has sufficient water supplies to cover its operational demands, the loss of some or all water rights for any of our mines or operations, in whole or in part, shortages relative to the water to which we have rights or a lack of additional back-up water supplies at an acceptable cost, or at all, could require us to curtail or shut down mining production and could prevent us from pursuing expansion opportunities, thereby increasing and/or accelerating costs or foregoing profitable operations. In addition, future shortages of critical parts, equipment and skilled labor could adversely affect our operations and development projects.

[Table of Contents](#)***Potential delays in the transport of products to customers and possible shortages of critical parts, equipment, and other resources may adversely affect our results of operations.***

Current challenges in the global shipping industry have led to congestion in ports, a shortage in containers, and a lack of space on ships. Because of this situation, the Company faces a risk of potential supply chain disruptions that may adversely affect our operations and development projects. To address this potential issue, we have increased our safety stock levels and adjusted our replacement algorithms. Additionally, our revenues and collections may also be adversely affected by transportation delays, which could negatively impact our sales agreements. Although the recovery of the global economy is causing the aforementioned issues at ports and in the shipping industry, this situation is expected to be resolved gradually and to return to normal levels in the short term. However, if these issues continue in the long term, our supply chain and our sales flow could be adversely impacted.

Our Company is subject to health and safety laws that may restrict our operations, result in operational delays or increase our operating costs and adversely affect our financial results of operations.

We are required to comply with occupational health and safety laws and regulations in Peru and Mexico where our operations are subject to periodic inspections by the relevant governmental authorities. These laws and regulations govern, among others, health and safety workplace conditions, including high risk labor and the handling, storage and disposal of chemical and other hazardous substances. We believe our operations comply in all material respects with applicable health and safety laws and regulations in the countries in which we operate. Compliance with existing and new laws and regulations that may be applicable to us in the future could increase our operating costs and adversely affect our financial results of operations and cash flows.

Our objective is to preserve the health and safety of our workforce by implementing occupational health and training programs and safety incentives at our operations that meet all regulatory requirements and enhance employee performance. Despite the Company's efforts, we are not exempt from accidents. These are reported to Mexican and Peruvian authorities as required. Regarding non-fatal accidents, during the last three years, the Company's Dart rate (rate to measure workplace injuries severe enough to warrant Day Away from work, job Restrictions and/or job Transfers) was much lower than the MSHA Dart rate (the MSHA Dart rate is published by the U.S.'s Mine Safety and Health Administration, and is used as an industry benchmark).

In 2022, we recorded four fatalities and recorded three in 2021. No fatalities were reported in 2020. The amounts paid to the Mexican and Peruvian authorities for reportable accidents had no adverse effects on our results. Under Mexican and Peruvian law penalties and fines for safety violations are generally monetary, but in certain cases may lead to the temporary or permanent shutdown of the affected facility or the suspension or revocation of permits or licenses. Additionally, violations of security and safety laws and regulations at our Peruvian operations can be considered criminal activity and punishable by a sentence of up to 10 years of prison.

Our metals exploration efforts are highly speculative in nature and may be unsuccessful.

Metals exploration is highly speculative in nature because it involves many risks and is frequently unsuccessful. Once mineralization is discovered, it may take a number of years from the initial phases of drilling until production is possible. During such time the economic feasibility of production may change. Substantial expenditures must be made to determine proven and probable mineral reserves, which requires drilling to establish the metallurgical processes that will be needed to extract the metals from the ore and, in the case of new properties, to construct mining and processing facilities. We cannot assure you that our exploration programs will result in the expansion or replacement of current production with new proven and probable mineral reserves.

Development projects have no operating history upon which we can base estimates of proven and probable mineral reserves and estimates of future cash operating costs. Estimates are, to a large extent, based upon the interpretation of geological data obtained from drill holes and other sampling techniques and on pre-feasibility or feasibility studies that generate estimates of cash operating costs based upon anticipated tonnage and grades of ore to be mined and processed; the configuration of the ore body; expected recovery rates of the mineral from the ore; comparable facility and equipment operating costs; anticipated climatic conditions; and other factors. As a result, actual cash operating costs and

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economic returns based upon the development of proven and probable mineral reserves may differ significantly from those originally estimated. Moreover, significant decreases in actual or expected prices may mean reserves, once found, will be uneconomical to produce.

We may be adversely affected by challenges relating to slope stability.

Our open-pit mines get deeper as we mine them, presenting certain geotechnical challenges including the possibility of slope failure. If we are required to decrease pit slope angles or provide additional road access to prevent such a failure, our stated reserves could be negatively affected. Furthermore, hydrological conditions relating to pit slopes, renewal of material displaced by slope failures and increased stripping requirements could also negatively affect our stated reserves. We take action to maintain slope stability, but we cannot assure you that we will not have to take additional action in the future or that our actions taken to date will be sufficient. Unexpected slope failures, or additional requirements to prevent slope failures, may negatively affect our results of operations and financial condition and may diminish our stated mineral reserves.

We may be adversely affected by labor disputes.

In the last several years, we have experienced several strikes and other labor disruptions that have had an adverse impact on our operations and operating results. As of December 31, 2022, unions represented approximately 77% of our workforce in Peru and 72.0% of our workforce in Mexico. Currently, we have labor agreements in effect for our Mexican and Peruvian operations.

Our Taxco mine in Mexico has been on strike since July 2007. It is expected that operations at this mine will remain suspended until these labor issues are resolved. In addition, workers at the San Martin mine were on strike from July 2007 to August 2018. After eleven years of an illegal stoppage, we resumed control of the San Martin mine in August 2018. During this period, the San Martin facilities deteriorated and we undertook a major renovation to restart operations during the second quarter of 2019 for a total expense of approximately \$90.5 million. For additional information, see Item 2, “Properties—Mexican IMMSA Unit—San Martin and Taxco”, and Note 13, “Commitments and Contingencies—Labor matters”, to the consolidated financial statements.

We cannot assure you when the pending strike will be settled, or that in the future we will not experience strikes or other labor related work stoppages that could have a material adverse effect on our financial condition and results of operations.

Our mining operations or metal production projects may be subject to stoppage and additional costs due to community actions and other factors.

In recent years, global mining activity has been pressured by neighboring communities for financial commitments to fund social benefit programs and infrastructure improvements. Our projects in Peru are not exempt from these demands. Our Tia Maria project in Peru has experienced delays while trying to resolve issues with community groups.

Seemingly in the Peruvian mining environment, it is becoming crucial to obtain acceptance from local communities for projects in their areas, which may entail compliance with the demands for substantial investments in community infrastructure development and modernization to proceed with the mining projects.

We are confident that we will move forward with the Tia Maria project. However, we cannot assure you when and that we will incur no additional costs for community infrastructure development and modernization to obtain approval from the communities for current or future mining projects.

In 2022, violent protests by some of communities adjoining the Cuajone mine negatively affected the mine’s operations. In February 2022, the railway between Cuajone and Ilo was blocked and Viña Blanca water reservoir facilities were seized, cutting off the water supply to some residents of the Cuajone mining camp.

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After numerous efforts to restore order through dialogue by the authorities, the Peruvian government declared a state of emergency in the Moquegua region in April 2022 forcing the protestors to return the Viña Blanca facilities and the railway to the Company. Our personnel immediately took steps to evaluate the damage to the facilities by acts of vandalism and took the necessary steps to resume production at the Cujajone mining unit. Currently, the industrial railroad, the Cujajone mine, concentrator and related facilities are operating at full capacity.

On April 30, 2022, the Peruvian government issued a Ministerial Resolution to set up a three-party-dialogue-table with members of the community, government and Company officials executives to better understand the concerns of all parties. To date, nine round-table meetings and two direct meeting with the community have been held. The Company has proposed plans to invest in social programs that address the needs voiced by the communities and has indicated interest in purchasing land near the Cujajone operations to establish a buffer zone to protect facilities and production in the future.

However, we cannot guarantee that any additional incidents will not arise or assert that any future incidents that occur will imply no adverse impacts for our facilities, the results of our operations or our financial position.

In addition, several collective action lawsuits and civil action lawsuits have been filed against the Company in Mexico through both federal courts and state courts in Sonora. Several constitutional lawsuits have also been filed against various government authorities and the Company. These lawsuits are seeking damages and demand remediation actions to restore the environment. The Company believes that the lawsuits are without merit and that it is not possible to determine the extent of the damages sought. Moreover, the Company cannot offer any assurances that the outcome of these lawsuits will not have adverse effects on the Company.

Environmental regulation, climate change and other regulations may increase our costs of doing business, restrict our operations or result in operational delays.

Our exploration, mining, milling, smelting and refining activities are subject to a number of Peruvian and Mexican laws and regulations, including environmental laws and regulations, and certain industry technical standards. Additional matters subject to regulation include, but are not limited to, concession fees, transportation, production, water use and discharge, power use and generation, use and storage of explosives, surface rights, housing and other facilities for workers, reclamation, taxation, labor standards, mine safety and occupational health. As the world and the countries in which we operate become more conscious of the importance of environmental aspects, we expect additional environmental laws and regulations will be enacted over time.

Please refer to Note 13 “Commitments and Contingencies—Environmental matters” of our financial statements for further information on this subject.

The potential physical impacts of climate change on our operations are highly uncertain and depend on the geographic location of our facilities. These may include changes in rainfall patterns, water shortages, changes in sea levels, storm patterns and intensities, and temperatures. These effects may adversely impact the cost, production and financial performance of our operations. In addition, substantial weather-related conditions could impact our relationships and arrangements with our major customers and suppliers by materially affecting the normal flow of our transactions, especially seaborne transactions. For example, severe weather events could damage transportation infrastructures and lead to interruptions or delays in the supply of key inputs and raw materials or sold products.

We monitor fluctuations in weather patterns in the areas where we operate. Aligned with government efforts, we are working to measure our carbon footprint to reduce the contributions to greenhouse gas emissions of our operations. We also evaluate our water demand, as weather changes may result in increases or decreases that affect our needs.

Efforts to comply with more stringent environmental protection programs in Peru and Mexico and with relevant trade agreements could impose constraints on operations and imply additional costs. Consequently, we may need to make significant investments in this regard in the future. We cannot assure you that current or future legislative, regulatory or trade developments will not have adverse effects on our business, properties, operating results, financial condition or prospects.

[Table of Contents](#)***Our mining and metal production projects may expose us to new risks.***

Our Company is in the midst of a large expansion program, which may expose us to additional risks in terms of industrial accidents. While we believe our contractors employ safety standards and other procedures to ensure these projects are completed with proper governance, it is possible that increased activity at our sites could cause environmental accidents or endanger human life.

Our business depends upon information technology systems that may be adversely affected by disruptions, damage, cyber-attacks, failure and risks associated with implementation and integration.

Our operations depend upon information technology systems that may be subject to disruption, damage or failure from different sources, including, without limitation, the installation of malicious software, computer viruses, security breaches, cyber-attacks and defects in design. In recent years, cybersecurity incidents have increased in frequency and include, but are not limited to, malicious software, attempts to gain unauthorized access to data and other electronic security breaches that could lead to disruptions in systems, unauthorized release of confidential or otherwise protected information and the corruption of data. We have taken appropriate preventive measures to mitigate potential risks by implementing an information security management system that conducts frequent monitoring; which ensures the application of controls that are frequently reviewed and tested.

In March 2021, we experienced a Ransomware cyber-attack, which was carried out by individual hackers. This cyber-attack encrypted a total of 420 servers and units of personal equipment. However, due to the quick response of our Information Technology team, our Enterprise Resource Planning software was not affected by the aforementioned attack. For further information on this incident, refer to “Cybersecurity” under Item 7 “Management’s Discussion and Analysis of Financial Condition and Results of Operations”.

Given the unpredictability of the timing, nature and scope of information technology disruptions, we could potentially be subject to manipulation or improper use of our systems and networks, operational delays, situations that compromise confidential or otherwise protected information, destruction or corruption of data, security breaches, or financial losses from remedial actions, any of which could have a material adverse effect on the cash flows, competitive position, financial condition or results of our operations.

Other risks***Applicable law restricts the payment of dividends from our Minera Mexico subsidiary to us.***

Our subsidiary, Minera Mexico, is a Mexican company and, as such, may pay dividends only out of net income that has been approved by shareholders. Shareholders must also approve the actual dividend payment, after mandatory legal reserves have been created and losses for prior fiscal years have been satisfied. These legal constraints may limit the ability of Minera Mexico to pay dividends to us, which in turn, may have an impact on our ability to pay stockholder dividends or to service debt.

Global and local market conditions, including the high competitiveness in the copper mining industry, may adversely affect our profitability.

Our industry is cyclical in nature and fluctuates with economic cycles. Therefore, we are subject to the risks arising from adverse changes in domestic and global economic and political conditions, such as a potential global recession, Russia’s invasion of Ukraine, lower levels of consumer and corporate confidence, lower business investment, higher unemployment, reduced income and asset values in many areas, currency volatility and limited availability of credit and access to capital. Additionally, we face competition from other copper mining and producing companies around the world. Along these lines, significant competition exists to acquire properties that produce or are capable of producing copper and other metals, and some of our main competitors have consolidated, which makes them more diversified than we are.

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We cannot assure you that changes in market conditions, including competition, will not adversely affect our ability to compete in the future on the basis of price or other factors with companies that may benefit from future favorable trading or other arrangements.

We are controlled by Grupo Mexico, which exercises control over our affairs and policies and whose interests may be different from yours.

As of December 31, 2022, Grupo Mexico owned indirectly 88.9% of our capital stock. Some of our officers and directors, and those of Minera Mexico, are also directors and/or officers of Grupo Mexico and/or of its affiliates. We cannot assure you that the interests of Grupo Mexico will not conflict with those of our minority stockholders. Grupo Mexico has the ability to determine the outcome of substantially all matters submitted for a vote to our stockholders and thus exercises control over our business policies and affairs, including the following:

- the composition of our Board of Directors and, as a result, any determinations of our Board concerning our business direction and policy, including the appointment and removal of our officers;
- determinations concerning mergers and other business combinations, including those that may result in a change of control;
- whether dividends are paid or other distributions are made and the amount of any dividends or other distributions;
- sales and dispositions of our assets;
- the amount of debt financing that we incur; and
- the approval of capital projects.

We cannot assure you that an increase in the financial obligations of Grupo Mexico or AMC, which may be attributable to financing or to other reasons, will not result in a scenario in which our parent corporations obtain loans, increase dividends or receive other funding from us.

In addition, we have in the past engaged in, and expect to continue engaging in, transactions with Grupo Mexico and its other affiliates that are related party transactions and may present conflicts of interest. For additional information regarding the share ownership of, and our relationships with, Grupo Mexico and its affiliates, see Note 18 “Related Party Transactions” to the consolidated financial statements.

Unanticipated litigation or negative developments in pending litigation or with respect to other contingencies may adversely affect our financial condition and results of operations.

We are currently, and may in the future become, subject to litigation, arbitration or other legal proceedings with other parties. If rulings are against the Company, these legal proceedings, or others that could be brought against us in the future, may adversely affect our financial position or prospects. For further detailed discussion of pending litigation, please see Note 13 “Commitment and Contingencies—Litigation matters” of the consolidated financial statements.

Developments in the United States, Europe and emerging market countries may adversely affect the Company business, our common stock price and our debt securities.

The business and market value of securities of companies with significant operations in Peru and Mexico is, to varying degrees, affected by the economic policies and market conditions in the United States, Europe and emerging market countries. Although economic policies and conditions in these countries may significantly differ from policies and conditions in Peru or Mexico, the business community’s reactions to developments in any of these countries may adversely affect the Company’s business, the market value or the trading price of securities, including debt securities, of issuers that have significant operations in Peru or Mexico.

In addition, in recent years economic conditions in Mexico have shown an increased correlation to U.S. economic conditions. Therefore, changes in economic policies and conditions in the United States could also have a significant adverse effect on Mexican economic conditions, affecting our business and the price of our common stock or debt securities. In 2017, the United States, Canada and Mexico began a discussion to update the North American Free Trade Agreement (“NAFTA”). In September 2018, the three countries reached an agreement on a new trade deal, which will be

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known as the United States—Mexico—Canada Agreement (“USMCA”). In June 2019, Mexico’s senate ratified the USMCA. In December 2019, the three countries agreed to a new review of its regional trade pact, also concluding that the USMCA would replace NAFTA. On January 29, 2020, the U.S. ratified the USMCA and its President signed the USMCA into law. On July 1, 2020, the USMCA came into effect.

Although recent developments in the U.S. have reduced political instability, lifted consumer confidence and boosted the U.S. stock market, it is unclear whether the U.S. government will enact new policies towards China, that will reduce or eliminate trade tensions between the two countries. Despite being the epicenter of the COVID-19 pandemic, China began 2021 with a relatively optimistic economic growth outlook and represents approximately 50% of the world’s copper demand. A slowing in China’s economic growth, coupled with continued trade tensions with the U.S. could result in lower copper prices which could have a material adverse impact on our business and results of operations. The adoption and expansion of trade restrictions; changes in the current U.S.-China relations, including on-going trade tensions; or other governmental action related to taxes, tariffs, trade agreements or other policies are difficult to predict, and could adversely affect the demand for our products, our costs, our customers, our suppliers and the U.S. economy, and consequently could have a material adverse effect on our cash flows, competitive position, financial condition or results of operations.

Additionally, the United Kingdom left the European Union in December 2020 after an 11-month transition period that started in January. Brexit may adversely affect global political, regulatory, economic and market conditions, including the capital markets and foreign exchange markets, which could adversely affect our business, financial condition and results of operations.

We cannot assure you that the market value or trading prices of our common stock and debt securities, will not be adversely affected by events in the United States or elsewhere, including emerging market countries.

Other international risks

We are a company with substantial assets located outside of the United States. We conduct production operations in Peru and Mexico and exploration activities in these countries as well as in Chile, Argentina and Ecuador. Accordingly, in addition to the usual risks associated with conducting business in foreign countries, our business may be adversely affected by political, economic and social uncertainties in each of these countries. Such risks include possible expropriation or nationalization of property, confiscatory taxes or royalties, possible foreign exchange controls, changes in the national policy toward foreign investors, extreme environmental standards, etc.

Our international operations must comply with the U.S. Foreign Corrupt Practices Act and similar anti-corruption and anti-bribery laws in the other jurisdictions in which we operate. There has been a substantial increase in global enforcement of these laws in recent years. As such, our corporate policies and processes may not prevent or detect all potential breaches of the law. Any violation of those laws could result in significant criminal or civil fines and penalties, litigation, and loss of operating licenses or permits, and may damage our reputation, which could have a material adverse effect on our cash flows, results of operations and financial condition.

Our insurance does not cover most losses caused by the aforementioned risks. Consequently, our production, development and exploration activities in these countries could be substantially affected by factors out of our control, some of which could materially and adversely affect our financial position or results of operations.

We may be adversely affected by natural disasters, pandemics (including the recent coronavirus outbreak) and other catastrophic events, and by man-made problems such as terrorism, which could disrupt our business operations and our business continuity. Furthermore, disaster recovery plans may not adequately protect us from a serious disaster.

Natural disasters, adverse weather conditions, floods, pandemics (including the recent coronavirus outbreak), acts of terrorism and other catastrophic or geo-political events may cause damage or disruption to our operations, international commerce and the global economy, which could have an adverse effect on our business, operating results, and financial condition.

[Table of Contents](#)**Risks Associated with Doing Business in Peru and Mexico*****There is uncertainty as to the termination and renewal of our mining concessions.***

Under the laws of Peru and Mexico, mineral resources belong to the state and government. Therefore, concessions are required in both countries to explore or exploit mineral reserves. In Peru, our mineral rights derive from concessions from Ministry of Energy and Mines (“MINEM”) for our exploration, exploitation, extraction and/or production operations. In Mexico, our mineral rights derive from concessions granted, on a discretionary basis, by the Ministry of Economy, pursuant to Mexican mining law and regulations thereunder.

Mining concessions in both Peru and Mexico may be terminated if the obligations of the concessioner are not satisfied. In Peru, we are obligated to pay certain fees for our mining concession. In Mexico, we are obligated, among other things, to explore or exploit the relevant concession, to pay any relevant fees, to comply with all environmental and safety standards, to provide information to the Ministry of Economy and to allow inspections by the Ministry of Economy. Any termination or unfavorable modification of the terms of one or more of our concessions, or failure to obtain renewals of such concessions subject to renewal or extensions, could have a material adverse effect on our financial condition and prospects.

Peruvian economic and political conditions may have an adverse impact on our business.

A significant portion of our operations is conducted in Peru. Accordingly, our business, financial condition or results of operations could be affected by changes in the political, regulatory or economic developments in the country and changes in the economic or other policies of the Peruvian government. Over the past several decades, Peru has had a succession of regimes with differing political agendas and policies. In the twentieth century, past governments have frequently intervened in the nation’s economy and social structure. Among other actions, past governments have imposed controls on prices, exchange rates and local and foreign investments; placed limitations on imports; restricted companies’ abilities to dismiss employees and have prohibited the remittance of profits to foreign investors.

Between 2019 and 2022, Peru experienced heightened political instability in a context marked by ongoing investigations into allegations of corruption and confrontation on the political front. Significant political turmoil in Peru led to a shutdown of the Peruvian Congress and the removal of three Peruvian presidents.

On December 7, 2022, the Peruvian congress invoked its powers under the Constitution to remove the current President from office. The Vice President immediately assumed the presidency, which has led to considerable turmoil, particularly in the south of Peru, where acts of vandalism and violence have escalated. Roadblocks are scattered throughout the country, which have negatively affected the normal course of business in various regions. Fortunately, our operations have not been impacted. SCC hopes that the government will take clear action to restore order, protect the rights of all citizens, and set the stage for a peaceful solution to these protests so that Peru can achieve the growth development it deserves.

Because we have significant operations in Peru, we cannot provide any assurance that political developments and economic conditions, including any changes to economic policies or the adoption of other reforms proposed by existing or future administrations in Peru and/or other factors will have no material adverse effects on market conditions, the prices of our securities, our ability to obtain financing, our results of operations, or our financial condition.

Mexican economic and political conditions, as well as drug-related violence, may have an adverse impact on our business.

The Mexican economy is highly sensitive to economic developments in the United States, mainly because of its high level of exports to this market. Other risks in Mexico are increases in taxes on the mining sector and higher royalties, such as those enacted in 2013. As has occurred in other metal producing countries, the mining industry may be perceived as a source of additional fiscal revenue.

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In addition, public safety organizations in Mexico are under significant stress, as a result of drug-related violence. This situation creates potential risks, particularly for transportation of minerals and finished products, which may affect a small portion of our production. Drug-related violence has had a limited impact on our operations, as it has tended to concentrate outside of our areas of production. The potential risks to our operations might increase if the violence spreads to our areas of production.

Because we have significant operations in Mexico, we cannot provide any assurance that political developments and economic conditions, including any changes to economic policies or the adoption of other reforms proposed by existing or future administrations in Mexico, or the advent of drug-related violence in the country, will have no material adverse effect on market conditions, the prices of our securities, our ability to obtain financing, our results of operations or our financial condition.

Peruvian inflation and fluctuations in the sol exchange rate may adversely affect our financial condition and results of operations.

Although the U.S. dollar is our functional currency and our revenues are primarily denominated in U.S. dollars, as we operate in Peru, portions of our operating costs are denominated in Peruvian soles. Accordingly, when inflation or deflation in Peru is not offset by a change in the exchange rate of the sol, our financial position, results of operations, cash flows and the market price of our common stock could be affected.

Inflation in Peru in 2022, 2021 and 2020 was 8.5%, 6.4% and 2.0%, respectively. In 2022, the value of the sol appreciated by 4.5% against the U.S. dollar after having depreciated by 10.3% and 9.3% in 2021 and 2020, respectively. Although the Peruvian government's economic policy reduced inflation and the economy has experienced significant growth in the past decade, we cannot assure you that inflation will not increase from its current level or that such economic growth will continue in the future at similar rates or at all. Additionally, a global financial economic crisis could negatively affect the Peruvian economy.

To manage the volatility related to the risk of currency rate fluctuations, we may enter into forward exchange contracts. We cannot assure you, however, that currency fluctuations will not have an impact on our financial condition and results of operations.

Mexican inflation, restrictive exchange control policies and fluctuations in the peso exchange rate may adversely affect our financial condition and results of operations.

Although all of our Mexican operations' sales of metals are priced and invoiced in U.S. dollars, a substantial portion of its costs are denominated in pesos. Accordingly, when inflation in Mexico increases without a corresponding depreciation of the peso, the net income generated by our Mexican operations is adversely affected. Inflation in Mexico was 7.8% in 2022, 7.4% in 2021 and 3.2% in 2020. The value of the peso appreciated by 5.9% against the U.S. dollar in 2022 after depreciating by 3.2% and 5.9% in 2021 and 2020 respectively. The peso has been subject in the past to significant volatility, which may not have been proportionate to the inflation rate and may not be proportionate to the inflation rate in the future.

Currently, the Mexican government does not restrict the ability of Mexican companies or individuals to convert pesos into dollars or other currencies. While we do not expect the Mexican government to impose any restrictions or exchange control policies in the future, it is an area we closely monitor. We cannot assure you the Mexican government will maintain its current policies with regard to the peso or that the peso's value will not fluctuate significantly in the future. The imposition of exchange control policies could impair Minera Mexico's ability to obtain imported goods and to meet its U.S. dollar-denominated obligations and could have an adverse effect on our business and financial condition.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

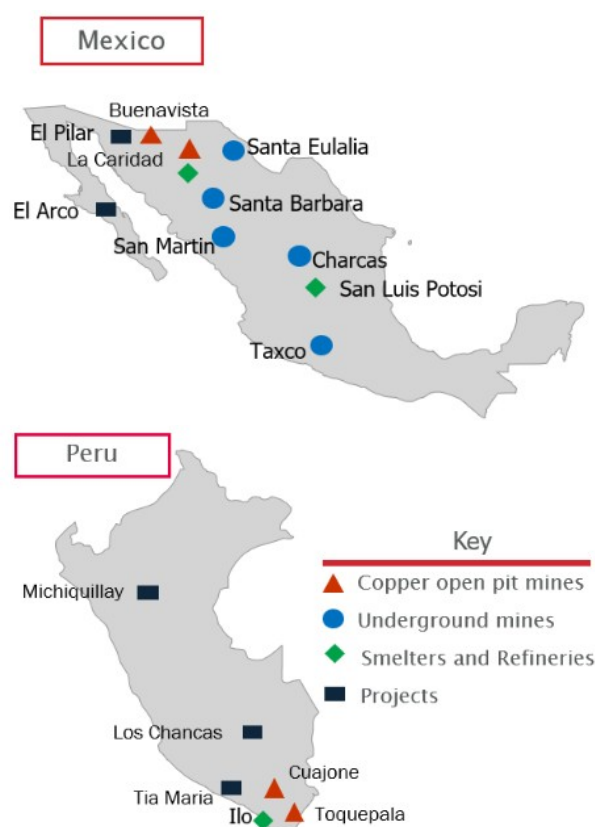
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ITEM 2. PROPERTIES

SUMMARY DISCLOSURE

The following maps show the locations of our principal mines, smelting facilities, refineries and projects. We operate open-pit copper mines in the southern part of Peru—at Toquepala and Cuajone—and in Mexico, at La Caridad and Buenavista. We also own five underground mines, three out of which currently produce zinc, copper, silver and gold.

The below description of the Company's mining operations is qualified in its entirety by reference to the Technical Report Summaries included as exhibits to this report and incorporated by reference into this Item 2.



EXTRACTION, SMELTING AND REFINING PROCESSES

Our operations include open-pit and underground mining, concentrating, copper smelting, copper refining, copper rod production, solvent extraction/electrowinning (“SX-EW”), zinc refining, sulfuric acid production, molybdenum concentrate production and silver and gold refining. The extraction and production process are summarized below.

OPEN-PIT MINING

In an open-pit mine, the production process begins at the mine pit, where waste rock, leaching ore and copper ore are drilled and blasted and then loaded onto diesel-electric trucks by electric shovels. Waste is hauled to dump areas and leaching ore is hauled to leaching dumps. The ore to be milled is transported to the primary crushers.

UNDERGROUND MINING

In an underground mine, the production process begins at the stopes, where copper, zinc and lead veins are drilled and blasted and the ore is hauled to the underground crusher station. The crushed ore is then hoisted to the surface for processing.

CONCENTRATING

The copper ore above an established cut-off from the primary crusher or the copper, zinc and lead-bearing ore from the underground mines is transported to a concentrator plant where gyratory crushers break the ore into sizes no larger than three-quarter of an inch. The ore is then sent to a mill section where it is ground to the consistency of fine powder. The finely ground ore is mixed with water and chemical reagents and pumped as a slurry to the flotation separator, where it is mixed with certain chemicals. In the flotation separator, reagent solutions and air pumped into the flotation cells cause the minerals to separate from the waste rock and bubble to the surface where they are collected and dried.

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If the bulk concentrated copper contains molybdenum, it is first processed in a molybdenum plant as described below under “Molybdenum Production.” In addition, some of the concentrates contain economic amounts of gold and silver that are recovered in the smelters and refineries.

COPPER SMELTING

Copper concentrates are transported to a smelter, where they are smelted using a furnace, converter and anode furnace to produce either blister copper (which is in the form of cakes with air pockets) or copper anodes (which are cleaned of air pockets). At the smelter, the concentrates are mixed with flux (a chemical substance intentionally included for high temperature processing) and then sent to reverberatory furnaces producing copper matte and slag (a mixture of iron and other impurities). Copper matte contains approximately 65% copper. Copper matte is then sent to the converters, where the material is oxidized in two steps: (i) the iron sulfides in the matte are oxidized with silica, producing slag that is returned to the reverberatory furnaces, and (ii) the copper contained in the matte sulfides is then oxidized to produce copper that, after casting, is called blister copper, containing approximately 98% to 99% copper, or anodes, containing approximately 99.7% copper. Most of the blister and anode production is sent to the refinery and the remainder is sold to customers.

COPPER REFINING

Anodes are suspended in tanks with a solution containing water, sulfuric acid and copper sulfate. A weak electrical current is passed through the anodes and chemical solution and the dissolved copper is deposited on very thin starting sheets to produce copper cathodes containing approximately 99.99% copper. During this process, silver, gold and other metals (for example, palladium, platinum and selenium), along with other impurities, settle on the bottom of the tank (anodic muds). This anodic mud is processed at a precious metal plant where selenium, silver and gold are recovered.

COPPER ROD PLANT

To produce copper rod, copper cathodes are first smelted in a furnace and then dosed in a casting machine. The dosed copper is then extruded and passed through a cooling system that begins solidification of copper into a 60x50 millimeter copper bar. The resulting copper bar is gradually stretched in a rolling mill to achieve the desired diameter. The rolled bar is then cooled and sprayed with wax as a preservation agent and collected into a rod coil that is compacted and sent to market.

SOLVENT EXTRACTION/ELECTROWINNING (“SX-EW”)

A complementary processing method is the leaching and SX-EW process. During the SX-EW process, low-grade sulfides ore and copper oxides are leached with sulfuric acid to allow copper content recovery. The acid and copper solution is then agitated with a solvent that contains chemical additives that attract copper ions. As the solvent is lighter than water, it floats to the surface carrying with it the copper content. The solvent is then separated using an acid solution, freeing the copper. The acid solution containing the copper is then moved to electrolytic extraction tanks to produce copper cathodes.

MOLYBDENUM PRODUCTION

Molybdenum is recovered from copper-molybdenum concentrates produced at the concentrator. The copper-molybdenum concentrate is first treated with a thickener until it becomes slurry with 60% solids. The slurry is then agitated in a chemical and water solution and pumped to the flotation separator. The separator creates a froth that carries molybdenum to the surface but not the copper mineral (which is later filtered to produce copper concentrates containing approximately 27% copper). The molybdenum froth is skimmed off, filtered and dried to produce molybdenum concentrates of approximately 58% contained molybdenum.

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ZINC REFINING

Metallic zinc is produced through electrolysis using zinc concentrates and zinc oxides. Sulfur is eliminated from the concentrates by roasting and the zinc oxide is dissolved in sulfuric acid solution to eliminate solid impurities. The purified zinc sulfide solution is treated by electrolysis to produce refined zinc and to separate silver and gold, which are recovered as concentrates.

SULFURIC ACID PRODUCTION

Sulfur dioxide gases are produced in the copper smelting and zinc roasting processes. As a part of our environmental preservation program, we treat the sulfur dioxide emissions at two of our Mexican plants and at our Peruvian processing facilities to produce sulfuric acid, some of which is, in turn, used for the copper leaching process; the balance is sold to mining and fertilizer companies located mainly in Mexico, Peru, United States and Chile.

SILVER AND GOLD REFINING

Silver and gold are recovered from copper, zinc and lead concentrates in the smelters and refineries and from slimes through electrolytic refining.

PRODUCTION OVERVIEW

The table below provides an overview of Southern Copper's aggregate annual production for all of its properties during each of the three most recently completed fiscal years:

	Year Ended December 31,			Variance			
	2022	2021	2020	2022 -2021		2021 -2020	
				Volume	%	Volume	%
COPPER (thousand pounds):							
Mined	1,972,480	2,112,465	2,207,638	(139,985)	(6.6)%	(95,173)	(4.3)%
Smelted	1,405,421	1,319,619	1,397,291	85,802	6.5 %	(77,672)	(5.6)%
Refined	1,495,767	1,401,719	1,491,908	94,048	6.7 %	(90,189)	(6.0)%
Rod	344,893	330,961	285,363	13,932	4.2 %	45,598	16.0 %
SILVER (thousand ounces)							
Mined	18,562	18,962	21,540	(400)	(2.1)%	(2,578)	(12.0)%
Refined	14,272	13,691	13,888	581	4.2 %	(197)	(1.4)%
MOLYBDENUM (thousand pounds)							
Mined	57,849	66,716	66,687	(8,867)	(13.3)%	29	0.0 %
ZINC (thousand pounds)							
Mined	132,300	147,617	151,964	(15,317)	(10.4)%	(4,347)	(2.9)%
Refined	220,225	204,306	225,842	15,919	7.8 %	(21,536)	(9.5)%
GOLD (ounces)							
Mined	65,134	60,631	73,186	4,503	7.4 %	(12,555)	(17.2)%
Refined	43,306	42,628	42,229	678	1.6 %	399	0.9 %

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KEY PRODUCTION CAPACITY DATA

We own and operate all production facilities. The table below provides details on the locations of production facilities as of December 31, 2022 by reportable segment, the processes used, and the key production and capacity data for each location:

Facility Name	Location	Stage	Process	Nominal Capacity(1)	2022 Production	2022 Capacity Use(3)
PERUVIAN OPEN-PIT SEGMENT						
Mining Operations						
Cuajone open-pit mine	Cuajone (Peru)	Production	Copper ore milling and recovery, copper and molybdenum concentrate production	90.0 ktpd—ore milled		
					80.5	89.4 %
Toquepala open-pit mine; Concentrator I	Toquepala (Peru)	Production	Copper ore milling and recovery, copper and molybdenum concentrate production	60.0 ktpd—ore milled		
					60.9	101.5 %
Concentrator II				60.0 ktpd—ore milled	60.6	101.1 %
Toquepala SX-EW plant	Toquepala (Peru)	Production	Leaching, solvent extraction and cathode electrowinning	56.3 ktpy—refined		
					26.5	47.0 %
Processing Operations						
Ilo copper smelter	Ilo (Peru)	Production	Copper smelting, blister, anodes production	1,200.0 ktpy—concentrate feed	1,242.0	103.5 %
Ilo copper refinery	Ilo (Peru)	Production	Copper refining	294.8 ktpy—refined cathodes	289.7	98.3 %
Ilo acid plants	Ilo (Peru)	Production	Sulfuric acid	1,354.93 ktpy—sulfuric acid	1,210.2	89.3 %
Ilo precious metals refinery	Ilo (Peru)	Production	Slime recovery & processing, gold & silver refining	460 tpy	375.1	81.6 %
MEXICAN OPEN-PIT SEGMENT						
Mining Operations						
Buenavista open-pit mine; Concentrator I	Sonora (Mexico)	Production	Copper ore milling & recovery, copper concentrate production	84.0 ktpd—milling		
					85.1	101.3 %
Concentrator II				115.0 ktpd—milling	118.0	102.6 %
Buenavista: SX-EW plant I	Sonora (Mexico)	Production	Leaching, solvent extraction & refined cathode electrowinning	11.0 ktpy—refined		
					—	— %
SX-EW plant II	Sonora (Mexico)	Production	Leaching, solvent extraction & refined cathode electrowinning	43.8 ktpy—refined		
					24.2	55.3 %
SX-EW plant III	Sonora (Mexico)	Production	Leaching, solvent extraction & refined cathode electrowinning	120.0 ktpy—refined		
					69.0	57.5 %
La Caridad open-pit mine	Sonora (Mexico)	Production	Copper ore milling & recovery, copper & molybdenum concentrate production	94.5 ktpd—milling		
					93.5	98.9 %
La Caridad SX-EW plant	Sonora (Mexico)	Production	Leaching, solvent extraction & cathode electrowinning	21.9 ktpy—refined		
					23.3	106.6 %
Processing Operations						
La Caridad copper smelter	Sonora (Mexico)	Production	Concentrate smelting, anode production	1,000 ktpy—concentrate feed	1,052.0	105.2 %
La Caridad copper refinery	Sonora (Mexico)	Production	Copper refining	300 ktpy copper cathode	245.7	81.9 %
La Caridad copper rod plant	Sonora (Mexico)	Production	Copper rod production	150 ktpy copper rod	156.4	104.3 %
La Caridad precious metals refinery	Sonora (Mexico)	Production	Slime recovery & processing, gold & silver refining	1.8 ktpy—slime		
					1.1	58.8 %
La Caridad sulfuric acid plant	Sonora (Mexico)	Production	Sulfuric acid	1,565.5 ktpy—sulfuric acid	1,001.3	64.0 %
IMMSA SEGMENT						
Underground mines						
Charcas	San Luis Potosi (Mexico)	Production	Copper, zinc, lead milling, recovery & concentrate production	1,460 ktpy—ore milled		
					1,190.7	81.6 %
San Martin	Zacatecas (Mexico)	Production	Lead, zinc, copper & silver mining, milling recovery & concentrate production	1,606 ktpy—ore milled		
					1,413.2	88.0 %
Santa Barbara	Chihuahua (Mexico)	Production	Lead, copper and zinc mining & concentrates production	2,190 ktpy—ore milled		
					1,495.7	68.3 %
Santa Eulalia	Chihuahua (Mexico)	Suspended	Lead & zinc mining and milling recovery & concentrate production	547.5 ktpy—ore milled		
					—	— %
Taxco(2)	Guerrero (Mexico)	Suspended	Lead, zinc silver & gold mining recovery & concentrate production	730 ktpy—ore milled		
					—	— %
Processing Operations						
San Luis Potosi zinc refinery	San Luis Potosi (Mexico)	Production	Zinc concentrates refining	105.0 ktpy zinc cathode	99.9	95.1 %
San Luis Potosi sulfuric acid plant	San Luis Potosi (Mexico)	Production	Sulfuric acid	180.0 ktpy sulfuric acid	182.1	101.2 %

ktpd = thousands of tonnes per day

ktpy = thousands of tonnes per year

Tpy = tonnes per year

- (1) Our estimates of actual capacity under normal operating conditions contemplating an allowance for normal downtime for repairs and maintenance and are based on the average metal content for the relevant period.
- (2) The Taxco mine has been on strike since July 2007.
- (3) In some cases, real production exceeds nominal capacity due to higher grades and recovery rates.

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OTHER PROPERTIES

The table below provides details on the locations and other information as of December 31, 2022 for our properties under development or exploration. These properties are also owned and operated by SCC.

<u>Property Name</u>	<u>Location</u>	<u>Stage</u>	<u>Mineralization</u>	<u>Mineral rights and acreage</u>
Other properties in Peru				
Tia Maria	Arequipa (Peru)	Development	Porphyry copper deposit; economic mineralization is oxide copper.	Covers an area of 34,790 hectares in 55 concessions.
Los Chancas	Apurimac (Peru)	Exploration	Porphyry copper–molybdenum deposit; copper sulfides are dominant.	Consists of 31 concessions, covering approximately 22,700 hectares.
Michiquillay	Cajamarca (Peru)	Exploration	Porphyry copper–molybdenum–gold deposit; copper sulfides are dominant.	Consists of 18 concessions with a total area of 4,051.4 hectares.
Other properties in Mexico				
El Pilar	Sonora (Mexico)	Development	Predominantly consists of the copper oxide mineral chrysocolla.	Covers an area of 9,571.4 hectares in 19 concessions.
El Arco	Baja California (Mexico)	Development	Porphyry copper deposit; mineralization occurs in three sub-horizontal zones.	Covers an area of 72,131 hectares in 11 concessions.

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PROPERTY BOOK VALUE

As of December 31, 2022, net book values of property and mine development were as follows (in millions):

Peruvian operations:	
Cuajone	\$ 631.8
Toquepala	1,879.5
Tia Maria project	294.4
Ilo and other support facilities	585.8
Construction in progress	<u>735.8</u>
Total Peru	<u>\$ 4,127.3</u>
Mexican open-pit operations:	
Buenavista mine and concentrator plants	\$ 2,213.0
Buenavista SX-EW and Quebalix	856.5
La Caridad mine and concentrator plant	556.9
La Caridad support facilities	276.8
Construction in progress	<u>603.6</u>
Total Mexico Open Pit	\$ 4,506.8
Mexican IMMSA unit:	
San Luis Potosi	\$ 86.3
Zinc electrolytic refinery	83.9
Charcas	86.7
San Martin	131.7
Santa Barbara	118.9
Taxco	3.2
Santa Eulalia	39.9
Nueva Rosita	8.8
Construction in progress and other facilities	121.7
Total IMMSA Unit	<u>\$ 681.1</u>
Other property:	
El Pilar	\$ 106.3
Mexicana del Arco	80.4
Total	<u>\$ 186.7</u>
Mexican administrative offices	<u>\$ 94.7</u>
Total Mexico	<u>\$ 5,469.3</u>
Total Southern Copper Corporation	<u><u>\$ 9,596.6</u></u>

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SUMMARY OPERATING DATA

The following table contains certain operating data underlying our financial and operating information for each of the periods indicated.

	Year Ended December 31,			Variance			
	2022	2021	2020	2022 -2021		2021 -2020	
				Volume	%	Volume	%
COPPER (thousand pounds):							
<i>Mined</i>							
Peru open-pit							
Toquepala	385,931	448,913	505,116	(62,982)	(14.0)%	(56,203)	(11.1)%
Cuajone	309,338	372,559	371,837	(63,221)	(17.0)%	722	0.2 %
SX-EW Toquepala	58,315	56,777	57,342	1,538	2.7 %	(565)	(1.0)%
Mexico open-pit							
La Caridad	195,091	226,390	241,783	(31,299)	(13.8)%	(15,393)	(6.4)%
Buenavista	746,557	752,225	735,398	(5,668)	(0.8)%	16,827	2.3 %
SX-EW La Caridad	51,449	55,942	56,981	(4,493)	(8.0)%	(1,039)	(1.8)%
SX-EW Buenavista	205,662	180,437	216,470	25,225	14.0 %	(36,033)	(16.6)%
IMMSA unit	20,137	19,222	22,711	915	4.8 %	(3,489)	(15.4)%
Total Mined	1,972,480	2,112,465	2,207,638	(139,985)	(6.6)%	(95,173)	(4.3)%
<i>Smelted</i>							
Peru open-pit							
Blister Ilo	4,508	5,735	9,177	(1,227)	100.0 %	(3,442)	(37.5)%
Anodes Ilo	771,630	680,263	762,700	91,367	13.4 %	(82,437)	(10.8)%
Mexico open-pit							
Anodes La Caridad	629,283	633,621	625,414	(4,338)	(0.7)%	8,207	1.3 %
Total Smelted	1,405,421	1,319,619	1,397,291	85,802	6.5 %	(77,672)	(5.6)%
<i>Refined</i>							
Peru Open-pit							
Cathodes Ilo	638,741	573,583	631,118	65,158	11.4 %	(57,535)	(9.1)%
SX-EW Toquepala	58,315	56,777	57,342	1,538	2.7 %	(565)	(1.0)%
Mexico Open-pit							
Cathodes La Caridad	541,600	534,980	529,997	6,620	1.2 %	4,983	0.9 %
SX-EW La Caridad	51,449	55,942	56,981	(4,493)	(8.0)%	(1,039)	(1.8)%
SX-EW Buenavista	205,662	180,437	216,470	25,225	14.0 %	(36,033)	(16.6)%
Total Refined	1,495,767	1,401,719	1,491,908	94,048	6.7 %	(90,189)	(6.0)%
Rod Mexico Open-pit—La Caridad	344,893	330,961	285,363	13,932	4.2 %	45,598	16.0 %
SILVER (thousand ounces)							
<i>Mined</i>							
Peru Open-pit							
Toquepala	2,220	2,681	3,341	(461)	(17.3)%	(660)	(19.8)%
Cuajone	2,298	2,692	2,400	(394)	(14.5)%	292	12.2 %
Mexico Open-pit							
La Caridad	2,086	2,227	2,266	(141)	(6.3)%	(39)	(1.7)%
Buenavista	5,208	4,774	5,550	434	9.1 %	(776)	(14.0)%
IMMSA unit	6,750	6,588	7,983	162	2.5 %	(1,395)	(17.5)%
Total Mined	18,562	18,962	21,540	(400)	(2.1)%	(2,578)	(12.0)%
<i>Refined</i>							
Peru—Ilo	3,741	3,985	3,967	(244)	(6.0)%	18	0.5 %
Mexico—La Caridad	8,569	7,612	8,128	957	12.6 %	(516)	(6.3)%
IMMSA unit	1,962	2,094	1,793	(132)	(6.3)%	301	16.8 %
Total Refined	14,272	13,691	13,888	581	4.2 %	(197)	(1.4)%
MOLYBDENUM (thousand pounds)							
<i>Mined</i>							
Toquepala	16,934	23,462	22,088	(6,528)	(27.8)%	1,374	6.2 %
Cuajone	7,992	9,237	9,315	(1,245)	(13.5)%	(78)	(0.8)%
Buenavista	11,848	11,524	12,058	324	2.8 %	(534)	(4.4)%
La Caridad	21,075	22,493	23,226	(1,418)	(6.3)%	(733)	(3.2)%
Total Mined	57,849	66,716	66,687	(8,867)	(13.3)%	29	0.0 %
ZINC (thousand pounds)							
Mined IMMSA	132,300	147,617	151,964	(15,317)	(10.4)%	(4,347)	(2.9)%
Refined IMMSA	220,225	204,306	225,842	15,919	7.8 %	(21,536)	(9.5)%

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SUMMARY DISCLOSURE OF MINERAL RESOURCES

The following table contains the summary of our mineral resources exclusive of mineral reserves as of December 31, 2022, based on long-term price assumptions of \$3.80 per pound of copper, \$11.50 per pound of molybdenum (\$10.35 per pound of molybdenum in the case of our El Arco mine), \$23.00 per ounce of silver, \$1.32 per pound of zinc, \$1.04 per pound of lead and \$1,725 per ounce of gold.

	Measured mineral resources		Indicated mineral resources		Measured + Indicated mineral resources				Inferred mineral resources			
	Amount		Amount		Amount		Metal Content		Amount		Metal Content	
	(million tonnes)	Grades	(million tonnes)	Grades	(million tonnes)	Grades	(million lb)	(million lb)	(million tonnes)	Grades	(million lb)	
Copper:												
<i>Peru:</i>												
Cuajone Sulfides	—	— %	—	331.6	0.46 %	3,381.5	331.6	0.46 %	3,381.5	850.9	0.31 %	5,901.7
Cuajone Leach	—	— %	—	0.2	0.62 %	3.2	0.2	0.62 %	3.2	0.3	0.51 %	3.4
Toquepala Sulfides	—	— %	—	1,584.2	0.43 %	15,060.6	1,584.2	0.43 %	15,060.6	2,406.7	88.20 %	20,939.9
Toquepala Leach	—	— %	—	521.2	0.09 %	1,024.8	521.2	0.09 %	1,024.8	2,306.0	16.10 %	4,158.9
La Tapada deposit	—	— %	—	90.4	0.21 %	420.3	90.4	0.21 %	420.3	1.6	0.18 %	6.4
Tia Maria deposit	—	— %	—	35.5	0.17 %	135.2	35.5	0.17 %	135.2	21.8	0.22 %	107.8
Los Chancas	—	— %	—	150.0	0.50 %	1,648.0	150.0	0.50 %	1,648.0	1,433.0	0.45 %	14,165.0
Michiquillay	—	— %	—	—	—	—	—	—	—	2,288.0	0.43 %	21,554.8
<i>Mexico:</i>												
Buenavista Mill	—	— %	—	764.0	0.34 %	5,663.7	764.0	0.34 %	5,663.7	13,015.0	0.21 %	56,583.8
Buenavista Leach	—	— %	—	77.0	0.13 %	196.2	77.0	0.13 %	196.2	2,838.0	0.14 %	8,538.5
Buenavista zinc plant	—	— %	—	148.0	0.46 %	1,560.9	148.0	0.46 %	1,560.9	143.0	0.43 %	1,393.3
La Caridad Mill	—	— %	—	3,934.0	0.16 %	13,668.6	3,934.0	0.16 %	13,668.6	2,974.0	0.14 %	8,818.5
La Caridad Leach	—	— %	—	684.0	0.07 %	1,102.3	684.0	0.07 %	1,102.3	526.0	0.08 %	881.8
Charcas	—	— %	—	6.1	0.54 %	71.9	6.1	0.54 %	71.9	15.4	0.54 %	185.1
Santa Barbara	—	— %	—	23.5	0.52 %	270.9	23.5	0.52 %	270.9	19.7	0.56 %	242.1
San Martin	—	— %	—	11.5	0.61 %	154.8	11.5	0.61 %	154.8	9.2	0.49 %	100.1
El Arco Mill	—	— %	—	826.6	0.41 %	7,544.9	826.6	0.41 %	7,544.9	2,344.9	0.37 %	19,352.3
El Arco Leach	—	— %	—	51.3	0.30 %	335.3	51.3	0.30 %	335.3	63.8	0.25 %	350.9
El Pilar	2.2	0.20 %	9.5	81.3	0.18 %	317.0	83.4	0.18 %	326.5	88.6	0.12 %	234.4
Pilares Mill	—	— %	—	—	—	—	—	—	—	71.8	0.56 %	879.9
Pilares Leach	—	— %	—	—	—	—	—	—	—	4.8	0.44 %	45.6
Total	2.2		9.5	9,320.3		52,560.0	9,322.5		52,569.5	31,422.5		164,444.3
Molybdenum:												
<i>Peru:</i>												
Cuajone	—	— %	—	331.6	0.017 %	121.7	331.6	0.017 %	121.7	850.9	0.011 %	201.8
Toquepala	—	— %	—	1,584.2	0.024 %	829.2	1,584.2	0.024 %	829.2	2,406.7	0.019 %	1,010.2
<i>Mexico:</i>												
Buenavista Mill	—	— %	—	764.0	0.005 %	88.2	764.0	0.005 %	88.2	13,015.0	0.004 %	1,080.3
Buenavista zinc plant	—	— %	—	148.0	0.002 %	4.4	148.0	0.002 %	4.4	143.0	0.003 %	6.6
La Caridad Mill	—	— %	—	3,934.0	0.028 %	2,425.1	3,934.0	0.028 %	2,425.1	2,974.0	0.025 %	1,543.2
El Arco Mill	—	— %	—	826.6	0.008 %	146.5	826.6	0.008 %	146.5	2,344.9	0.006 %	298.2
Pilares Mill	—	— %	—	—	—	—	—	—	—	71.8	0.005 %	7.7
Total	—		—	7,588.4		3,615.1	7,588.4		3,615.1	21,806.3		4,148.0
Silver: (2)												
<i>Mexico:</i>												
Charcas	—	— %	—	6.1	88.0	17,165	6.1	88.0	17,165	15.4	97.0	48,207
Santa Barbara	—	— %	—	23.5	100.0	75,343	23.5	100.0	75,343	19.7	100.0	63,479
San Martin	—	— %	—	11.5	92.0	34,311	11.5	92.0	34,311	9.2	112.0	32,894
El Arco Mill	—	— %	—	826.6	1.6	41,875	826.6	1.6	41,875	2,344.9	1.5	110,890
Total	—		—	867.7		168,694.0	867.7		168,694.0	2,389.2		255,470.0
Zinc:												
<i>Mexico:</i>												
Buenavista zinc plant	—	— %	—	148.0	0.78 %	2,416.3	148.0	0.78 %	2,416.3	143.0	0.49 %	1,638.0
Buenavista Cu plant	—	— %	—	764.0	0.07 %	1,181.7	764.0	0.07 %	1,181.7	13,015.0	0.03 %	8,088.8
Charcas	—	— %	—	6.1	3.13 %	418.2	6.1	3.13 %	418.2	15.4	2.70 %	918.4
Santa Barbara	—	— %	—	23.5	3.17 %	1,640.6	23.5	3.17 %	1,640.6	19.7	4.03 %	1,746.8

San Martin	—	— %	—	11.5	2.48 %	630.3	11.5	2.48 %	630.3	9.2	2.05 %	414.0
Total	—		—	953.1		6,287.1	953.1		6,287.1	13,202.3		12,806.0
Lead:												

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<i>Mexico:</i>												
Charcas	—	— %	—	6.1	0.39 %	51.9	6.1	0.39 %	51.9	15.4	0.39 %	132.6
Santa Barbara	—	— %	—	23.5	1.89 %	975.9	23.5	1.89 %	975.9	19.7	2.36 %	1,025.0
San Martin	—	— %	—	11.5	0.49 %	124.8	11.5	0.49 %	124.8	9.2	0.62 %	124.3
Total	—		—	41.1		1,152.5	41.1		1,152.5	44.3		1,281.9
<i>Gold: (2)</i>												
<i>Mexico:</i>												
Santa Barbara	—	— %	—	23.5	0.28	210	23.5	0.28	210	19.7	0.17	107
El Arco Mill	—	— %	—	826.6	0.12	3,226	826.6	0.12	3,226	2,344.9	0.11	8,053
Total	—		—	850.1		3,436	850.1		3,436	2,364.6		8,160

- (1) Mineral resources are reported in situ and are current as at December 31, 2022. Mineral resources are reported exclusive of mineral reserves. Figures have been rounded.
- (2) Gold and silver grades are denominated in grams per tonne. Gold and silver contents are expressed in thousand ounces.
- (3) For El Arco a molybdenum price of \$10.35/lb was used for mineral resources.
- (4) For further information on assumptions used in preparing the mineral resource estimates, please refer to the individual property disclosure in this Form 10-K and the technical report summaries prepared by qualified persons, under Exhibits 96.1, 96.2, 96.6, 96.7 and 96.11 to 96.13 to this Form 10-K.
- (5) For further information on assumptions used in preparing the estimates for the following operations: El Arco, Tia Maria, Los Chancas, Michiquillay, Pilares and El Pilar, please refer to their individual property disclosure in this Form 10-K and Chapter 11 of the their project technical report summary prepared by qualified persons, under Exhibit 96.10, 96.3, 96.4, 96.5, 96.8 and 96.9, respectively of Form 10-K/A filed on March 7, 2022.

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SUMMARY DISCLOSURE OF MINERAL RESERVES

The following table contains the summary of our mineral reserves as of December 31, 2022, based on long-term price assumptions of \$3.30 per pound of copper, \$10.00 per pound of molybdenum (\$9.00 per pound of molybdenum in the case of our El Arco mine), \$20.00 per ounce of silver, \$1,500 per ounce of gold and \$1.15 per pound of zinc.

	Proven mineral reserves			Probable mineral reserves			Total mineral reserves		
	Amount (million tonnes)	Grades	Metal Content (million lb)	Amount (million tonnes)	Grades	Metal Content (million lb)	Amount (million tonnes)	Grades	Metal Content (million lb)
Copper:									
<i>Peru:</i>									
Cuajone Mill	—	— %	—	1,336.1	0.48 %	14,216.7	1,336.1	0.48 %	14,216.7
Cuajone Leach	—	— %	—	21.5	0.51 %	244.5	21.5	0.51	244.5
Toquepala Mill	—	— %	—	2,144.6	0.47 %	22,157.2	2,144.6	0.47 %	22,157.2
Toquepala Leach	—	— %	—	2,503.3	0.15 %	8,668.2	2,503.3	0.15	8,668.2
La Tapada deposit	—	— %	—	487.6	0.41 %	4,449.2	487.6	0.41 %	4,449.2
Tia Maria deposit	—	— %	—	223.8	0.29 %	1,412.5	223.8	0.29 %	1,412.5
<i>Mexico:</i>									
Buenavista Sulfides	—	— %	—	2,116.0	0.41 %	19,353.0	2,116.0	0.41 %	19,353.0
Buenavista Leach	—	— %	—	1,132.0	0.22 %	5,456.0	1,132.0	0.22 %	5,456.0
La Caridad Mill	—	— %	—	2,100.0	0.21 %	9,737.0	2,100.0	0.21 %	9,737.0
La Caridad Leach	—	— %	—	198.0	0.09 %	395.0	198.0	0.09 %	395.0
El Arco Mill	—	— %	—	1,229.5	0.40 %	10,822.1	1,229.5	0.40 %	10,822.1
El Arco Leach	—	— %	—	140.5	0.27 %	846.3	140.5	0.27 %	846.3
El Pilar	63.0	0.27 %	370.4	254.0	0.25 %	1,373.5	317.0	0.25 %	1,743.9
Total	63.0		370.4	13,887.0		99,131.2	13,950.0		99,501.6
Molybdenum:									
<i>Peru:</i>									
Cuajone	—	— %	—	1,336.1	0.017 %	508.3	1,336.1	0.017 %	508.3
Toquepala	—	— %	—	2,144.6	0.021 %	1,014.0	2,144.6	0.021 %	1,014.0
<i>Mexico:</i>									
Buenavista	—	— %	—	2,020.0	0.007 %	333.0	2,020.0	0.007 %	333.0
La Caridad	—	— %	—	2,100.0	0.028 %	1,286.0	2,100.0	0.028 %	1,286.0
El Arco Mill	—	— %	—	1,229.5	0.006 %	166.7	1,229.5	0.006 %	166.7
Total	—		—	8,830.2		3,308.0	8,830.2		3,308.0
Silver: (2)									
<i>Mexico:</i>									
El Arco	—	— %	—	1,229.5	1.8	70,465	1,229.5	1.8	70,465
Total	—		—	1,229.5		70,465.0	1,229.5		70,465.0
Zinc:									
<i>Mexico:</i>									
Buenavista zinc plant (3)	—	— %	—	96.0	1.43 %	3,018.0	96.0	1.43 %	3,018.0
Gold: (2)									
<i>Mexico:</i>									
El Arco	—	— %	—	1,229.5	0.14	5,585	1,229.5	0.14	5,585

- (1) Mineral reserves are current as at December 31, 2022. The reference point for the estimate is delivery to the process plant. Figures have been rounded.
- (2) Gold and silver grades are denominated in grams per tonne. Gold and silver contents are expressed in thousand ounces.
- (3) For El Arco a molybdenum price of \$9.00/lb was used for mineral reserves.
- (4) The amount of ore reported under the Buenavista zinc plant is included within the Buenavista sulfides.
- (5) For further information on assumptions used in preparing the mineral reserve estimates, please refer to the individual property disclosure in this Form 10-K and to the technical report summaries prepared by qualified persons, under Exhibits 96.1, 96.2, 96.6 and 96.7 to this Form 10-K.
- (6) For further information on assumptions used in preparing the estimates for the following mineral properties: El Arco, Tia Maria and El Pilar, please refer to the individual property disclosure in this Form 10-K and to their project technical report summary prepared by qualified persons, under Exhibit 96.10, 96.3 and 96.9 respectively of Form 10-K/A, filed on March 7, 2022.

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Tailings Dams

Tailings are comprised of solid particles originating at the concentrator plants during the grinding process that, combined with water, are sent to specially built structures where they are impounded. The water is recovered to be reused in the process.

Tailings dams are basically built in two manners: by using the coarse fraction from the same tailings or by using external material, often known as “borrowed material” such as rock, clay etc. We believe SCC’s tailings dams are built with the highest quality standards and engineering practices. We comply with and at times exceed the national norms and recommendations of the International Commission on Large Dams (ICOLD). In addition, we maintain a committee including both internal and external specialists, which periodically review the safety and operation of each dam. In 2020, we implemented the project “Automation and Real Time Monitoring of geotechnical instrumentation in the Pit and Quebrada Honda Tailings Dam” and conditioned a location to install three radars to conduct geotechnical monitoring of the Quebrada Honda Tailings Dam. We do not expect that these activities will generate any adverse material effects in our operations.

We have six tailings dams in operation in Mexico and one in Peru as follows:

<u>Country</u>	<u>Operation</u>	<u>Name</u>	<u>Current Height</u>	<u>Material</u>	<u>Method</u>
Mexico	Buenavista	Tailings dam # 3	100 meters	Borrowed	Downstream
Mexico	Buenavista	New tailings dam	99 meters	Borrowed	Downstream
Mexico	La Caridad	Tailings dam # 7	189 meters	Borrowed	Downstream
Mexico	Charcas	Tailings dam	55 meters	Coarse tailings	Upstream
	Santa	Noriega dam			
Mexico	Barbara		50 meters	Coarse tailings	Upstream
Mexico	San Martin	Tailings dam 5 & 7	50 meters	Coarse tailings	Upstream
Peru	Cuajone and Toquepala	Quebrada Honda	138 meters	Coarse tailings	Downstream

INDIVIDUAL PROPERTY DISCLOSURE

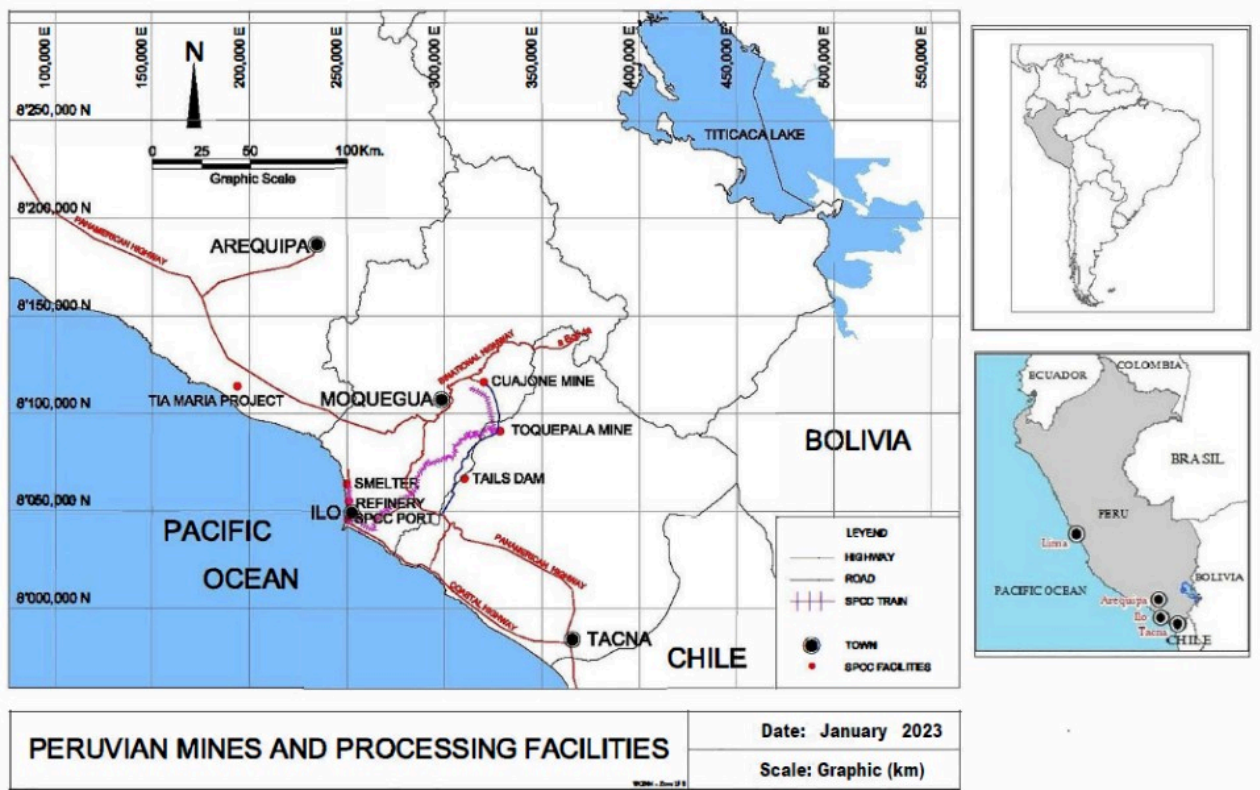
In 2021, we adopted the disclosure requirements of S-K 1300. The definitions and allowed assumptions for mineral reserves under previous guidance (Industry Guide 7) are significantly different from the defined terms and allowed assumptions for mineral reserves under S-K 1300. Additionally, Industry Guide 7 did not permit mineral resource reporting.

PERUVIAN OPERATIONS

Operations in our Peruvian segment include the Cuajone and Toquepala mine complexes and the smelting and refining plants, the industrial railroad that links Ilo, Toquepala and Cuajone and the port facilities. Other properties include our Tia Maria, Los Chancas and Michiquillay projects. We conduct ongoing maintenance and improvement programs to ensure the satisfactory performance of our equipment. We believe all of the equipment at our Peruvian plants is in good physical condition and is suitable for our operations.

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The map below indicates the approximate location of, and access to, our Cuajone and Toquepala mine complexes and our Ilo processing facilities:



Cuajone

The Cuajone operations consist of an open-pit copper mine and a concentrator and are located in the Torata District, Mariscal Nieto Region, of Moquegua, approximately 878 km from the city of Lima and 27 km from the city of Moquegua. The Cuajone mine is accessible by paved road from Lima or Tacna by the Pan-American Highway. The Quebrada Honda tailings storage facility (“TSF”) is about 120 km via local roads, south of the Cuajone operations. Access within the project area is via developed roads that are routinely maintained. Tacna, Moquegua, and Ilo have regularly scheduled air services from Lima. Additionally, a spur railway runs from the Toquepala operations to the Cuajone operations.

The Cuajone operations are owned and operated by SPCC Peru Branch and contain a single mining concession, “Acumulación Cuajone”, which covers an area of 15,024.5 hectares. Power is transmitted for process needs from the Peruvian grid using two Southern Copper-owned transmission lines of 138 kV and 220 kV. Additionally, the Cuajone operations use surface and underground water from a variety of sources as a fresh make up water.

The property is currently in the production stage. Southern Copper has had an interest in the Cuajone area since 1954. Predecessor companies included Cerro de Pasco Corporation, Newmont and Asarco. Overburden removal commenced in 1970 and ore production commenced in 1976. Our Cuajone operations utilize a conventional open-pit mining method to drill/blast/haul copper ore for further processing at the concentrator, which has a milling capacity of 90,000 tonnes per day. Book value of the property and its associated plant and equipment is available under “Property Book Value” on page 32 of this report.

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The table below shows production information for 2022, 2021 and 2020 for our Cuajone operations:

		2022	2021	2020	Variance 2022 - 2021	
					Amount	%
Mine annual operating days		365	365	366		
<i>Mine</i>						
Total ore mined	(kt)	25,049	29,548	30,183	(4,499)	(15.2)%
Copper grade	(%)	0.658	0.674	0.666	(0.016)	(2.4)%
Leach material mined	(kt)	1,817	1,983	2,084	(166)	(8.4)%
Leach material grade	(%)	0.713	0.668	0.704	0.045	6.7 %
Stripping ratio	(x)	4.59	3.70	3.03	0.89	24.1 %
Total material mined	(kt)	139,916	148,302	130,047	(8,386)	(5.7)%
<i>Concentrator</i>						
Total material milled	(kt)	24,985	29,617	30,110	(4,632)	(15.6)%
Copper recovery	(%)	85.30	84.70	84.23	0.60	0.7 %
Copper concentrate	(kt)	562.8	670.1	664.1	(107.3)	(16.0)%
Copper in concentrate	(kt)	140.3	169.0	168.7	(28.7)	(17.0)%
Copper concentrates average grade	(%)	24.93	25.22	25.40	(0.29)	(1.1)%
<i>Molybdenum</i>						
Molybdenum grade	(%)	0.023	0.022	0.022	0.001	4.5 %
Molybdenum recovery	(%)	63.22	63.27	64.28	(0.05)	(0.1)%
Molybdenum concentrate	(kt)	6.7	7.8	7.8	(1.1)	(13.6)%
Molybdenum concentrate average grade	(%)	53.86	53.76	54.29	0.10	0.2 %
Molybdenum in concentrate	(kt)	3.6	4.2	4.2	(0.6)	(13.4)%

Key: kt = thousand tonnes

x = Stripping ratio obtained dividing waste by leachable material plus ore mined.

Copper and molybdenum grades are referred to as total copper grade and total molybdenum grade, respectively.

Geology

The Cuajone deposit is considered to be an example of a porphyry copper–molybdenum deposit. The basal regional geology consists of Precambrian metamorphic rocks that are cut by Paleozoic granite, unconformably overlain by Upper Triassic to Jurassic marine volcanic and sedimentary lithologies. Overlying these rocks are late Cretaceous to early Tertiary rhyolite, andesite and agglomerate of the Toquepala Group. These lithologies are intruded by the composite, polyphase Cretaceous to Paleogene Coastal (Andean) Batholith.

Mineralization and alteration at the Cuajone deposit is directly related to a multi-stage late porphyry that intrudes basaltic andesites and the overlying 370 m of rhyolite porphyries of the Toquepala Group. The Cuajone porphyry deposit exhibits a zoned alteration pattern that includes potassic, propylitic, sericitic and intermediate argillic hydrothermal alteration styles. The mineralogy is typically simple and consists of pyrite, chalcopyrite, and bornite, with sparse sphalerite, galena, and enargite.

Concentrator

Our Cuajone operations use state-of-the-art computer monitoring systems at the concentrator, the crushing plant and the flotation circuit to coordinate inflows and optimize operations. The process designs were based on existing technologies and proven equipment, and the plants constructed using those designs have a 45-year operating history. Material with a copper grade over 0.35% is loaded onto an overland conveyor belt and sent to the milling circuit, where giant rotating crushers reduce the size of the rocks to approximately one-half of an inch. The ore is then sent to the ball mills, which grind it to the consistency of fine powder. The finely ground powder is agitated in a water and reagents solution and is then transported to flotation cells. Air is pumped into the cells to produce foam for floating the copper and molybdenum minerals while waste materials called tailings are separated. This copper-molybdenum bulk concentrate is then treated by inverse flotation, where molybdenum is floated and copper is depressed. The copper concentrate is shipped by rail to

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the smelter at Ilo and the molybdenum concentrate is packaged for shipment to customers. Sulfides under 0.35% copper are considered waste.

Tailings are sent to thickeners to recover water. The remaining tailings are sent to the Quebrada Honda dam, our principal tailings storage facility.

A major mill expansion was completed in 1999 and the eleventh primary mill began operations in January 2008. In December 2013, the high-pressure grinding roll was put in operation. At the end of 2016, the Larox filter press for molybdenum concentrate began operations. The overland primary crusher began operations in May 2018. The new tailings thickener began operations in September 2019.

Slope stability

The Cuajone pit is approximately 930 meters deep. Under the present mine plan configuration the Cuajone pit will reach a depth of 1,320 meters. The increases in the depth of the pit present us with a number of geotechnical challenges. Perhaps the foremost concern is the possibility of slope failure, which all open pit mines face. To meet the geotechnical challenges relating to slope stability of the open pit mines, we have taken the following steps:

At the Cuajone mine, the Company maintains many monitoring systems with radars in order to prevent the risk of slope instability. The equipment acquired through these years have helped to control the walls of the pit and anticipate possible damages. In addition, in 2015 a geotechnical study was conducted to increase the inter ramp angle by an average of three degrees and include 40 meters wide geotechnical berms for inter ramp heights above 150 meters.

In 2020, equipment to extract rock samples was implemented in the rock mechanics laboratory. This equipment allows us to obtain cylindrical rock specimens and perform rock mechanics tests under current technical standards and norms. A drone was also incorporated in the slope reconciliation activities to obtain detailed topographic information on the slopes and identify good practices or opportunities to build stable walls. In 2021, as part of the equipment update and the requirement to improve the slope monitoring coverage due to the growth of the pit, two slope monitoring radars were acquired. Three pieces of monitoring equipment have also been added to monitor slopes in the leaching pads. Likewise, the first study of the physical stability of waste rock deposits was carried out by a consulting firm.

In 2022, seismic refraction equipment was used to record information on fracturing frequency, determine the dynamic parameters of the rock mass, and modify designs in the buffer and pre-split blasting rows, as a complement in minimizing the impact on the final slopes of the pit. A digital inclinometer has been replaced to monitor slopes in the pit and identify potential deformation zones.

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Mineral resources

The following table contains the summary of copper and molybdenum mineral resources for Cuajone as of December 31, 2022, based on long-term price assumptions of \$3.80 and \$11.50 per pound respectively; these prices were fixed over the remaining 48 year of mine life:

Copper	2022					2021			Variation
	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)	
Measured mineral resources	—	— %	— %	—	—	— %	— %	—	
Indicated mineral resources									
- Sulfides	331.6	0.46 %	84.8 %	3,381.5	282.3	0.47 %	84.0 %	2,943.6	14.9%
- Leach (oxides)	0.2	0.62 %	42.4 %	3.2	—	— %	47.0 %	—	
Measured + Indicated mineral resources	331.8	0.46		3,384.7	282.3	0.47		2,943.6	15.0%
Inferred mineral resources									
- Sulfides	850.9	0.31 %	84.8 %	5,901.7	601.4	0.47 %	84.0 %	4,286.1	37.7%
- Leach (oxides)	0.3	0.51 %	42.4 %	3.4	0.1	0.12 %	47.0 %	0.2	1316.7%
Total inferred mineral resources	851.2	0.31		5,905.1	601.5	0.32		4,286.4	37.8%
Molybdenum	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)	Amount (thousand tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)	Variation
Measured mineral resources	—	— %	— %	—	—	—	— %	—	
Indicated mineral resources	331.6	0.017 %	62.9 %	121.7	282.3	0.02 %	54 %	106	15.0%
Measured + Indicated mineral resources	331.6	0.017 %	62.9 %	121.7	282.3	0.02 %	54 %	106	15.0%
Inferred mineral resources	850.9	0.011 %	62.9 %	201.8	601.4	0.01 %	54 %	144	39.9%

- (1) Mineral resources are reported in situ and are current as at December 31, 2022.
- (2) Mineral resources are reported exclusive of mineral reserves. Figures have been rounded.
- (3) Mineral resources are constrained within an optimized pit shell based on copper and molybdenum only. Mineral resources are reported within a conceptual pit shell that use the following input parameters: metal prices of \$3.80/lb Cu and \$11.50/lb Mo; average metallurgical recovery assumptions of 84.8% for copper and 62.9% for molybdenum from a process plant and 42.4% copper recovery from a heap leach; based mining cost of \$ 1.76/t, mill process operating costs of \$7.05/t processed, leach costs of \$5.26/t processed; copper concentrate payable price of \$3.36/lb Cu, molybdenum concentrate payable price of \$9.72/lb Mo, and leach copper payable price of \$ 3.77/lb Cu.
- (4) No estimates for molybdenum are reported for leachable material as this element cannot currently be recovered using the leach process envisaged.
- (5) The cut-off grade for mineral resources was determined to be 0.112% Cu for sulfide mineralization. The cut-off grade for mineral resources sent to the leach pad was 0.149 %Cu.

- (6) For further information on the assumptions used to prepare the estimates and a detailed description of the cut-off determination, please refer to Chapter 11 of the Cuajone operations technical report summary prepared by qualified persons, under Exhibit 96.1 to this Form 10-K.

Copper content in indicated and inferred mineral resources increased 15.0% and 37.8% respectively in 2022 versus the values reported in 2021. This increase was attributable to the additional information generated by a drilling program in 2022, and the change to an elevated cut-off grade used for the mineral reserves for the years 2023 to 2026 which converted some of the probable mineral reserves back to indicated mineral resources as described in the Mineral reserves section below.

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Mineral reserves

The following table contains the summary of copper and molybdenum mineral reserves for Cuajone as of December 31, 2022, based on long-term price assumptions of \$3.30 and \$10.00 per pound respectively; these prices were fixed over the remaining 48 year of mine life:

	2022				2021				Variation
	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)	
Copper									
Proven mineral reserves	—	— %	— %	—	—	— %	— %	—	
Probable mineral reserves (mill)	1,336.1	0.48 %	84.4 %	14,216.7	1,333.6	0.49 %	85.0 %	14,452.2	(1.6)%
Probable mineral reserves (leach)	21.5	0.51 %	48.2 %	244.5	22.0	0.50 %	58.0 %	241.0	1.5%
Total mineral reserves	1,357.6	0.48		14,461.2	1,355.6	0.49	%	14,693.2	(1.6)%
Molybdenum									
Proven mineral reserves	—	— %	— %	—	—	— %	— %	—	
Probable mineral reserves	1,336.1	0.017 %	62.5 %	508.3	1,333.6	0.017 %	63.0 %	507.6	0.1%
Total mineral reserves	1,336.1	0.017 %	62.5 %	508.3	1,333.6	0.017 %	63.0 %	507.6	0.1%

- (1) Mineral reserves are current as at December 31, 2022.
- (2) The reference point for the estimate is delivery to the process plant. Figures have been rounded.
- (3) Mill and leach ore are made up of existing stockpile.
- (4) Mineral reserves are constrained within an engineered pit based on copper and molybdenum revenues only. The following parameters were used in estimation: assumed open-pit mining methods; assumed concentration and leaching processes; variable NSR cut-off values of \$7.791–\$8.079/t-processed for concentration material, and a NSR cut-off value of \$9.061/t-processed for leaching material; mining recovery of 100%; variable metallurgical recoveries (average LOM recoveries of 84.4% for copper by concentration, 62.5 % for molybdenum by concentration, and 48.2% for copper by leaching, including concentration and leach ore existing in stockpiles); average copper recoveries of 97.4% for smelting and 99.9% for refining; variable mining costs that range from \$2.337–\$3.417/t-mined; average process costs of \$7.971/t-processed for concentration material, and \$9.061/t for leaching material; average smelting and refining cost of \$0.382/lb Cu; selling costs of \$-0.0024/lb Cu for concentration process, \$1.679/lb Mo for concentration process, and \$-0.009/lb Cu for leaching process; and 1% NSR royalty applied to the for Cu and Mo.. See paragraph below on the use of an elevated cut-off grade strategy to increase cash flow for production years 2023 to 2026.
- (5) For further information on assumptions used in preparing the estimates and a detailed description of the cut-off determination, please refer to Chapter 12 of the Cuajone operations technical report summary prepared by qualified persons, under Exhibit 96.1 to this Form 10-K

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Copper content in mineral reserves for the Cuajone mine fell 1.6% in 2022 versus the figures in 2021 due to the following factors:

- The Mill Cut-off grade strategy changed as of December 31, 2022 and reported the following:
 - Production Years 2023 to 2025: ≥ 0.25 % Cu
 - Production Year 2026: ≥ 0.24 % Cu
 - Production Years 2027 to end of mine life: marginal COG as described in Chapter 12 of the Cuajone operations technical report summary and filed as Exhibit 96.1 of this Form 10-K.
- Production depletion during calendar year 2022

Toquepala

The Toquepala operations are situated in Southern Peru, approximately 150 km by road from the city of Tacna and 30 kilometers from Cuajone. Road access from Tacna is via the Pan-American highway and other local roads. Alternative access is from Lima, using the Pan-American highway to Alto Camiara, and then driving for 70 km on a paved road to the Toquepala camp. The Quebrada Honda tailings storage facility (TSF) is 40 km south of the mine, and is accessed via the MO-107 route that connects Alto Camiara with Toquepala. Within the operations area, access is by unpaved mine and exploration roads. The city of Tacna has a regional airstrip, with regular service within Peru. Additionally, railways extend from Ilo to Toquepala, and a spur railway runs from the Toquepala operations to the Cuajone operations.

The Toquepala operations are owned and operated by SPCC Peru Branch and contain a single mining concession, "Acumulaci3n Toquepala 1", which covers an area of 17,552.4 hectares. Power is transmitted for process needs from the Peruvian grid using two Southern Copper-owned transmission lines of 138 kV and 220 kV. Additionally, the Toquepala operations use surface and underground water from a variety of sources as a fresh make up water.

The property is currently under the production stage. Our Toquepala operations consist of an open-pit copper mine and two concentrators; each with a milling capacity of 60,000 tonnes per day. We also refine copper at the SX-EW facility through a leaching process. The SX-EW facility has a production capacity of 56,336 tonnes per year of LME grade A copper cathodes. Southern Copper has had an interest in the Project area since 1945. Prior to Southern Copper's Project interests, the area had been subject to artisanal mining activities. Overburden removal commenced in 1957 and ore production commenced in 1960. Our Toquepala operations utilize a conventional open-pit mining method to collect copper ore for further processing in our concentrators. The second concentrator began operations in the fourth quarter of 2018. Book value of the property and its associated plant and equipment is available under "Property Book Value" on page 32 of this report.

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The table below contains production information for 2022, 2021 and 2020 for our Toquepala operations:

		2022	2021	2020	Variance 2022 - 2021	
					Amount	%
Mine annual operating days		365	365	366		
<i>Mine</i>						
Total ore mined	(kt)	41,558	40,827	39,383	731	1.8 %
Copper grade	(%)	0.476	0.539	0.634	(0.063)	(11.7)%
Leach material mined	(kt)	41,499	53,226	52,838	(11,727)	(22.0)%
Leach material grade	(%)	0.214	0.225	0.195	(0.011)	(4.9)%
Stripping ratio	(x)	4.05	1.16	0.83	2.89	249.1 %
Total material mined	(kt)	209,745	203,150	168,715	6,595	3.2 %
<i>Concentrator</i>						
Total material milled	(kt)	40,319	41,699	39,894	(1,380)	(3.3)%
Copper recovery	(%)	91.21	90.60	90.44	0.61	0.7 %
Copper concentrate	(kt)	689.8	791.6	899.3	(101.8)	(12.9)%
Copper in concentrate	(kt)	175.1	203.6	229.1	(28.5)	(14.0)%
Copper concentrate average grade	(%)	25.38	25.72	25.48	(0.34)	(1.3)%
<i>SX-EW plant</i>						
Estimated leach recovery	(%)	23.60	23.54	23.71	0.06	0.3 %
SX-EW cathode production	(kt)	26.5	25.8	26.0	0.6	2.5 %
<i>Molybdenum</i>						
Molybdenum grade	(%)	0.026	0.035	0.036	(0.009)	(25.7)%
Molybdenum recovery	(%)	73.27	72.91	69.76	0.36	0.5 %
Molybdenum concentrate	(kt)	13.7	19.0	18.1	(5.4)	(28.2)%
Molybdenum concentrate average grade	(%)	56.27	56.02	55.34	0.25	0.4 %
Molybdenum in concentrate	(kt)	7.7	10.6	10.0	(3.0)	(27.8)%

Key: kt = thousand tonnes

x = Stripping ratio obtained by dividing waste tonnes by leachable material plus ore mined.

Copper and molybdenum grades are referred to as total copper grade and total molybdenum grade, respectively.

Geology

The Toquepala deposit is an example of a copper–molybdenum porphyry deposit. The basal regional geology consists of Precambrian metamorphic rocks that are cut by Paleozoic granite, unconformably overlain by Upper Triassic to Jurassic marine volcanic and sedimentary lithologies. Overlying these rocks are late Cretaceous to early Tertiary rhyolite, andesite and agglomerate of the Toquepala Group. These lithologies are intruded by the composite, polyphase Cretaceous to Paleogene Coastal (Andean) Batholith.

Mineralization consists of leached capping, oxide, enriched, transitional and primary mineralization. Leached capping, oxide, enriched and transition mineralization is mostly mined out. Primary mineralization occurs as hypogene sulfides mainly restricted to the dacite porphyry and breccias. Chalcopyrite is the dominant economic mineral with lesser bornite, molybdenite, and enargite as disseminations, fracture fillings, and breccia matrix. Economic molybdenite mineralization is associated with quartz veinlets and locally, with disseminated chalcopyrite.

Concentrators

Our Toquepala concentrators use state-of-the-art computer monitoring systems to coordinate inflows and optimize operations. Material with a copper grade over 0.25% is loaded onto an overland conveyor belt and sent to the crushing circuit, where rotating crushers reduce the size of the rocks by approximately 85% to less than one-half of an inch. The ore is then sent to the rod and ball mills, which grind it in a mix with water to the consistency of fine powder. The finely ground powder mixed with water is then transported to flotation cells. Air is pumped into the cells producing a froth, which carries the copper mineral to the surface but not the waste rock, or tailings. The bulk concentrate with sufficient

molybdenum content is processed to recover molybdenum by inverse flotation. This final copper concentrate with a

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content of approximately 26.5% of copper is filtered to reduce moisture to 8.5% or less. Concentrates are then shipped by rail to the Ilo smelter.

Tailings are sent to thickeners where water is recovered. The remaining tailings are sent to the Quebrada Honda dam, our principal tailings storage facility.

SX-EW Plant

The SX-EW facility at Toquepala produces grade A LME electrowon copper cathodes of 99.999% purity from solutions obtained by leaching low-grade ore stored at the Toquepala and Cuajone mines. The leach plant commenced operations in 1995 with a design capacity of 35,629 tonnes per year of copper cathodes. In 1999, the capacity was expanded to 56,336 tonnes per year.

This facility processes copper oxides from Cuajone and copper sulfides from Toquepala. Copper oxides from Cuajone with a copper grade higher than 0.289%; acid solubility index higher than 42%; and a cyanide solubility index higher than 21% are leached. At Toquepala, the copper sulfides cutoff grade is 0.079% and therefore, material with a total copper grade between 0.065% and 0.33% is leached. Copper in solution produced at Cuajone is sent to Toquepala through an eight-inch pipe laid alongside the Cuajone-Toquepala railroad track.

Plant and equipment are supported by a maintenance plan and a quality management system to assure good physical condition and high availability. The SX-EW plant management quality system (including leaching operations) has been audited periodically since 2002 by an external audit company and found to be in compliance with the requirements of ISO 9001-2008 and ISO 14001-2015 standards. We are currently implementing the ISO 45000:2018 standard.

Slope stability

The Toquepala pit is approximately 1,005 meters deep. Under the present mine plan configuration the Toquepala pit will reach a depth of 1,665 meters. The increases in the depth of the pit present us with a number of geotechnical challenges. Perhaps the foremost concern is the possibility of slope failure, which all open pit mines face. To meet the geotechnical challenges relating to slope stability of the open pit mines, we have taken the following steps:

From 2007 through 2018, we took many actions to prevent damage to the pit-slopes:

- installed berms to strengthen the stability of the Toquepala pit;
- changed monitoring software to anticipate risks of instability, and
- arranged for mining external consultants to start a study called "*Slope Stability Analysis in Deposits of Waste and Leachable Material*" which led to the development of geotechnical investigations, static, seismic and post-seismic stability analysis and a setting up of drill programs oriented to understand the behavior of the rock mass. The study began in 2013 and had three phases. The study has been frequently updated to perform the analysis of slope stability.

In 2019, external consultants performed the "*2019 Update of Slope Stability Analysis in Deposits of Waste and Leachable Material*" study. In addition, an IBIS ArcSAR radar was incorporated into the pit slope monitoring system; this radar equipment offers greater coverage, five kilometers of maximum range and reduced scanning time. Sub- horizontal drains were also implemented for pit slope depressurization.

In 2020, external consultants performed the "*Stability Study of the Toquepala Pit in Current Conditions*" and "*Stability Study of the North, South, East, Northwest Waste Deposits and South Run of Mine (ROM) and Northwest Leach Deposits.*" In addition, another IBIS ArcSAR radar, which has a maximum range of five kilometers and offers reduced scanning time, was incorporated into the pit slope monitoring system. We also implemented a database for geotechnical drillholes, implemented the project "*Automation and Real Time Monitoring of geotechnical instrumentation in the Pit and Quebrada Honda Tailings Dam*" and conditioned a location to install three radars to conduct geotechnical monitoring of the Quebrada Honda Tailings Dam. In 2021, external consultants performed the "*Stability Study of the Quebrada Honda Tailings Dam – Toquepala Mine*" and installed the Quebrada Honda Radar System (which consists of two IBIS M units and one IBIS FM unit) to conduct geotechnical monitoring of the Quebrada Honda Tailings Dam.

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In 2022, Tierra Group International consulting supported the following studies:

- The Update of Seismic Hazard Study of Toquepala Mine.
- The Update of the Material Resistance Parameters of Waste and Leachable Deposits (geotechnical field investigation).
- The Update of the Hydrogeological Model of the Leachable Deposits.
- The Study of Physical Stability of Waste and Leachable Deposits in Current Condition.
- The Update of the Numerical Hydrogeological Model of Toquepala Mine.
- The Study of Anisotropic Physical Stability of Toquepala Mine.

The Inersia company began conducting satellite monitoring and developing moisture maps for the pit, waste and leachable deposits as well as tailings deposits at Quebrada Honda.

Mineral resources

The following table contains the summary of copper and molybdenum mineral resources for Toquepala as of December 31, 2022, based on long-term price assumptions of \$3.80 and \$11.50 per pound respectively; these prices were fixed over the remaining 50 years of mine life:

	2022				2021				Variation
	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)	
Copper									
Measured mineral resources	—	— %	— %	—	—	— %	— %	—	
Indicated mineral resources									
- Sulfides	1,584.2	0.43 %	88.2 %	15,060.6	1,145	0.44 %	82.2 %	11,185.4	34.6%
- Leach (low grade sulfides)	521.2	0.09 %	16.1 %	1,024.8					
Measured + Indicated mineral resources	2,105.4	0.35		16,085.4	1,145	0.44		11,185.4	43.8%
Inferred mineral resources									
- Sulfides	2,406.7	0.39 %	88.2 %	20,939.9	3,558	0.38 %	82.2 %	29,465.2	(28.9)%
- Leach (low grade sulfides)	2,306.0	0.08 %	16.1 %	4,158.9	3,969	0.09 %	18.8 %	7,857.0	(47.1)%
Total inferred mineral resources	4,712.7	0.24		25,098.8	7,527	0.22		37,322.2	(32.8)%
	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)	Variation
Molybdenum									
Measured mineral resources	—	—	— %	—	—	— %	— %	—	
Indicated mineral resources	1,584.2	0.024 %	68.1 %	829.2	3,558	0.02 %	54.0 %	617.2	34.3%
Measured + Indicated mineral resources	1,584.2	0.024 %	68.1 %	829.2	3,558	0.02 %	54.0 %	617.2	34.3%
Inferred mineral resources	2,406.7	0.019 %	68.1 %	1,010.2	3,558	0.02 %	54.0 %	1,360.0	(25.7)%

- (1) Mineral resources are reported in situ and are current as at December 31, 2022. Figures have been rounded.
- (2) Mineral resources are reported exclusive of mineral reserves. The point of reference is in situ.
- (3) Mineral resources are reported within a conceptual pit shell that uses the following input parameters: metal prices of \$3.80/lb Cu and \$11.50/lb Mo; average metallurgical recovery of 88.2% for copper and 68.1% for molybdenum from a process plant and 16.1% copper recovery from a heap leach; base mining costs of \$1.87/t; mill process operating costs of \$7.68/t, leach operating costs of \$0.70/t; copper concentrate payable price of \$3.37/lb Cu, molybdenum concentrate payable price of \$9.72/lb Mo, and leach copper payable price of \$ 3.77/lb Cu.
- (4) No estimates for molybdenum are reported for leachable material as this element cannot currently be recovered using the leach process envisaged.
- (5) The cut-off grade used for mineral resource estimation for sulfide material was 0.146% Cu. Low-grade sulfide material to be sent to the leach dumps was reported at a cut-off of 0.052 %Cu.

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- (6) For further information on assumptions used in preparing the estimates and a detailed description of the cut-off grade determination, please refer to Chapter 11 of the Toquepala operations technical report summary prepared by qualified persons, under Exhibit 96.2 to this Form 10-K.

Copper content in indicated mineral resources increased by 43.8% while copper content in inferred mineral resource decreased by 32.8% compared with similar figures of 2021. The increase in the indicated mineral resource copper content was mainly due to conversion of inferred to indicated through the additional geological and grade confidence information from a drilling program in 2022. As well as a portion of the probable mineral reserves were converted back to indicated mineral resources due to the elevated cut-off grade strategy used for the production years 2023 to 2026 and a as leach cost adjustment affecting the cut-off. See the changes to the cut-off grade strategy in the Mineral reserves section below.

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Mineral reserves

The following table contains the summary of copper and molybdenum mineral reserves for Toquepala as of December 31, 2022, based on long-term price assumptions of \$3.30 and \$10.00 per pound, respectively. The metal prices were fixed over the remaining 50 years of mine life:

	2022				2021				Variation
	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)	
Copper									
Proven mineral reserves	—	— %	— %	—	—	— %	— %	—	
Probable mineral reserves (mill)	2,144.6	0.47 %	88.2 %	22,157.2	2,463.3	0.46 %	88.1 %	25,132.8	(11.8)%
Probable mineral reserves (dump leach)	2,503.3	0.15 %	8.0 %	8,668.2	3,195.2	0.15	8.0 %	10,246.3	(15.4)%
Total mineral reserves	4,647.9	0.30 %	8.0 - 88.2 %	30,825.4	5,658.5	0.28 %	8.0 - 88.1 %	35,379.1	(12.9)%
Molybdenum									
Proven mineral reserves	—	— %	— %	—	—	— %	— %	—	
Probable mineral reserves	2,144.6	0.021 %	68.1 %	1,014.0	2,463.3	0.021 %	68.5 %	1,145.0	(11.4)%
Total mineral reserves	2,144.6	0.021 %	68.1 %	1,014.0	2,463.3	0.021 %	68.5 %	1,145.0	(11.4)%

- (1) Mineral reserves are current as at December 31, 2022.
- (2) The reference point for the estimate is delivery to the process plant. Figures have been rounded.
- (3) Dump leach is made up of dump leach material to be mined, and dump leach material on leach dump.
- (4) Mineral reserves are constrained within a smoothed designed pit based on copper and molybdenum only. The following parameters were used in estimation: assumption of open pit mining methods; assumption of concentration and leaching processes; copper price of \$3.30/lb, molybdenum price of \$10.00/lb; variable NSR cut-off values of \$10.84–\$12.64/t-processed for concentration material; a NSR cut-off value of \$0.819/t-processed for leaching material; mining recovery of 100%; 6% mining dilution; 22% reduction factor applied to molybdenum grade; variable metallurgical recoveries (average LOM recoveries of 88.2% for copper by concentration, 68.1% for molybdenum by concentration, and 16.1% for copper by leaching excluding leach ore existing in leach dumps, and 8.0% for copper by leaching including leach ore existing in leach dumps); average copper recoveries of 97.4% for smelting and 99.9% for refining; variable mining costs that range from \$2.46–\$4.26/t-mined; average process costs of \$8.384/t-processed for concentration material, and \$0.819/t-processed for leaching material; average smelting and refining cost of \$0.382/lb Cu; selling costs of \$-0.0024/lb Cu for concentration process, \$1.679/lb Mo for concentration process, and \$-0.009/lb Cu for leaching process; 1% NSR royalty applied to Cu and Mo; and 60% of the leachable material will be leached and processed by the SX/EW plant. See note below on the modification of the cut-off by using an elevated cut-off grade strategy to increase cash flow in production years 2023 to 2026.
- (5) For further information on assumptions used in preparing the estimates and a detailed description of the cut-off grade determination, please refer to Chapter 12 of the Toquepala operations technical report summary prepared by qualified persons, under Exhibit 96.2 to this Form 10-K.

Copper content in mineral reserves in the Toquepala mine decreased 12.9% in 2022, compared to 2021's figures, due to the following factors:

- Mill Cutoff grade strategy changed as follow:
 - Production Years 2023 to 2025: ≥ 0.25 % Cu
 - Production Year 2026: ≥ 0.24 % Cu
 - Production Year 2027 to end of mine life: marginal COG as described in Chapter 12 of the Toquepala operations technical report summary and filed as Exhibit 96.2 of this Form 10-K.
- Leach Cost adjustment

- Production depletion from calendar year 2022

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Processing Facilities—Ilo

Our Ilo smelter and refinery complex is located in the southern part of Peru, 17 kilometers north of the city of Ilo, 121 kilometers from Toquepala, 147 kilometers from Cuajone and 871 kilometers from the city of Lima. Access is by plane from Lima to Tacna (1:40 hours) and then by highway to the city of Ilo (2:00 hours). Additionally, we operate a port facility in Ilo, from where we ship our products and receive supplies. Products shipped and supplies received are moved between Toquepala, Cuajone and Ilo on our industrial railroad.

Smelter

Our Ilo smelter produces copper anodes for the refinery we operate as part of the same facility. When the copper produced by the smelter exceeds the refinery's capacity, the excess is sold to other refineries around the world. In 2007, we completed a major modernization of the smelter. The nominal installed capacity of the smelter is 1,200,000 tonnes of copper concentrate per year. Copper concentrates from Toquepala and Cuajone are transported by railroad to the smelter, where they are smelted using an ISASMELT furnace, converters and anode furnaces to produce copper anodes with 99.7% copper.

At the smelter, the concentrates are mixed with flux and other material and sent to the ISASMELT furnace producing a mixture of copper matte and slag, which is tapped through a taphole to either of two rotary holding furnaces, where these smelted phases will be separated.

Copper matte contains approximately 63% copper. Copper matte is then sent to the four Pierce Smith converters, where the material is oxidized in two steps: (1) the iron sulfides in the matte are oxidized with oxygen enriched air and silica is added producing slag that is sent to the slag cleaning furnaces, and (2) the copper contained in the matte sulfides is then oxidized to produce blister copper, containing approximately 99.3% copper.

The blister copper is refined in two anode furnaces by oxidation and sulfur is removed with compressed air injected into the bath. Finally, the oxygen content of the molten copper is adjusted by reduction by injecting liquefied petroleum gas with steam into the bath. Anodes, containing approximately 99.7% copper, are cast in two casting wheels. The smelter also can produce blister copper bars, especially when an anode furnace is undergoing general repairs.

The off gases from the smelter are treated to recover over 92% of the incoming sulfur received in the concentrates to produce 98.5% sulfuric acid. The gas stream from the smelter with 11.34% SO₂ is split between two plants: The No. 1 acid plant (double absorption/double contact) and the No. 2 plant (double absorption/double contact). Approximately, 16% of the acid produced is used at our facilities with the balance sold to third parties.

In 2010, the Ilo smelter marine trestle started operations. This facility allows us to offload directly to offshore ships the sulfuric acid produced, avoiding hauling cargo through the city of Ilo. The 500-meter-long marine trestle is the last part of the Ilo smelter modernization project. Currently all overseas shipments of sulfuric acid are being made using the marine trestle.

The smelter also has two oxygen plants. Plant No. 1, which has a production capacity of 272 tonnes per, and Plant No.2, with a capacity of 1,045 tonnes per day. This facility also has auxiliary plants (sea water intake and two desalinization plants).

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The table below contains production information for 2022, 2021 and 2020 for our Ilo smelter plant:

Smelter		2022	2021	2020	Variance 2022 - 2021	
					Volume	%
Concentrate smelted	(kt)	1,242.0	1,089.2	1,210.6	152.8	14.0%
Average copper recovery	(%)	96.3	97.4	97.4	(1)	(1.1)
Anode production	(kt)	350.8	309.2	346.7	41.6	13.5 %
Average anode grade	(%)	99.78	99.78	99.77	—	— %
Blister production	kt	2.1	2.6	4.2	(0.5)	(19.2)%
Average blister grade	(%)	99.18	99.03	99.29	0.15	0.15 %
Sulfuric acid produced	(kt)	1,210.2	1,066.5	1,203.9	143.7	13.5 %

Key: kt = thousand tonnes

Refinery

The Ilo refinery consists of an electrolytic plant, a precious metal plant and a number of ancillary facilities. The refinery is producing grade A copper cathode of 99.998% purity. The plant was acquired in 1994 and modernized to produce 246,000 t/a of copper cathodes. It was subsequently expanded to the current nominal capacity of 294,763 tonnes per year. Anodic slimes are recovered from the refining process and then sent to the precious metals facility to produce refined silver, refined gold and commercial grade selenium.

Anodes are suspended in tanks containing a solution of sulfuric acid and copper sulfate. A low voltage but high amperage electrical current is passed through the anodes, chemical solution and cathodes to dissolve copper which is initially deposited on very thin starting sheets until thickness is increased to produce high grade copper cathodes. During this process, silver, gold and other metals, including palladium, platinum and selenium, along with other impurities, settle to the bottom of the tank in the form of anodic slime. This anodic slime is processed in a precious metal plant where silver, gold and selenium are recovered.

The table below contains production information for 2022, 2021 and 2020 for our Ilo refinery and precious metals plants:

Refinery		2022	2021	2020	Variance 2022 - 2021	
					Volume	%
Cathodes produced	(kt)	289.7	260.2	286.3	29.6	11.4 %
Average copper grade	(%)	99.999	99.999	99.999	—	— %
Refined silver produced	(000 Kg)	116.4	124.0	123.4	(7.6)	(6.1)%
Refined gold produced	(kg)	185.8	215.8	227.5	(30.0)	(13.9)%
Commercial grade selenium produced	(tons)	56.9	48.2	52.7	8.7	18.0 %

Key: kt = thousand tonnes

In addition to the processing facilities, the refinery has a production control section, a laboratory that provides sample analysis throughout the Company, a maintenance department, a desalination plant and other support facilities.

Other facilities in Ilo include a coquina plant with a production capacity of 200,000 tonnes of seashells per year; this facility, however, has been declared in progressive closure. In addition, we had a lime plant with a capacity of 80,000 tonnes per year, which has suspended its operations. We also operate an industrial railroad to haul production and supplies between Toquepala, Cuajone and Ilo.

The industrial railroad's main equipment includes locomotives of different types and rolling stock with different types of cars and capacities. The track runs in a single 214 kilometer standard gauge line and supports a 30-ton axle load. The total length of the track system is around 257 kilometers including main yards and sidings. The infrastructure includes 27

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kilometers of track under tunnels and one concrete bridge. The industrial railroad includes a car repair shop which is responsible for maintaining and repairing the car fleet. Annual transported tonnage is approximately 5.6 million tonnes.

Tia Maria Project

The Tia Maria Project is in the District of Cocachacra, Mejia and Deán Valdivia, Province of Islay, and Arequipa Region. The Project is located 118 km from Moquegua, 125 km from Arequipa, 120 km from the District of Ilo, and 980 km from Lima. The Project centroid is at approximately 17° 00' 21.06" S and 71° 49' 44.94" W. The mine gate will be situated at Pampa Cachendo. Mine access will be from the Pan-American Highway, diverting off the highway to the Project access road at km 1027–1028, between Arequipa and Moquegua, approximately 17 km before the town of El Fiscal.

The Project covers an area of 34,689.6 hectares in 55 concessions. We have easement agreements in place that cover the proposed powerline route and the planned water pipeline that will run from the envisaged desalination plant to the mine. Additionally, the project currently holds no water rights and the mine plan assumes that water for process operations will be sourced from a desalination plant. The project envisions a 120,000 ton annual SX-EW plant and the mine plans assume conventional open pit mining methods from the La Tapada and Tia Maria deposits.

The property is currently under the development stage. From 1994 through 1999, prior to involvement by Southern Copper, the Tia Maria Project area was evaluated by Teck Corporation, Phelps Dodge and Rio Tinto. We acquired the project in 2003, and we were granted the construction permit on July 2019. Additionally, on October 2019, the Mining Council of the Peruvian Ministry of Energy and Mines ratified the construction permit for the Tia Maria project. We expect the Peruvian government to acknowledge the significant progress the project has made on the social front and the important contributions that Tia Maria will generate for Peru's economy and, consequently, take the necessary steps to provide SCC with adequate support to initiate construction.

Geology

The La Tapada and Tía Maria deposits are within the northwest–southeast-trending Tambo–El Toro structural corridor that appears to be a large dextral shear zone. There are a number of vein-hosted copper–gold–hematite deposits also associated with the corridor, outside our mineral tenure package. Alteration within the project area is associated with the two porphyry systems currently outlined. The only known mineralization is derived from oxidation of low-grade porphyry copper systems.

Mineral resources

The following table contains the summary of copper mineral resources for the La Tapada and Tia Maria deposits as of December 31, 2022, based on long-term price assumptions of \$3.80 per pound, fixed over the 20 year mine life:

La Tapada	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)
Measured mineral resources	—	— %	— %	—
Indicated mineral resources	90.4	0.21 %	69 %	420.3
Measured + Indicated mineral resources	90.4	0.21 %	69 %	420.3
Inferred mineral resources	1.6	0.18 %	69 %	6.4

Tia Maria	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)
Measured mineral resources	—	— %	— %	—
Indicated mineral resources	35.5	0.17 %	65 %	135.2
Measured + Indicated mineral resources	35.5	0.17 %	65 %	135.2
Inferred mineral resources	21.8	0.22 %	65 %	107.8

(1) Mineral resources are reported in situ and are current as at December 31, 2022. Figures have been rounded.

(2) Mineral resources are reported exclusive of mineral reserves.

(3) The cut-off grade used for mineral resource estimation was 0.08% Cu. Mineral resources are constrained within a wireframe constructed at a 0.1% total copper cut-off grade.

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- (4) Mineral resources are reported within a conceptual pit shell that uses the following input parameters: metal prices of \$3.80/lb Cu; metallurgical recovery assumptions of 69% for La Tapada and 65% for Tia María; base mining costs of \$1.40/t mined and incremental haul costs of \$0.017/t mined; process operating costs of \$3.78/t processed for La Tapada and \$3.61/t processed for Tia María; general and administrative costs of \$0.37/t processed; transport and freight costs of \$0.04/lb Cu; an assumed copper cathode premium of \$0.03/lb Cu, and a royalty payable of 1%. Average pit slope angles were used for the north and south geotechnical zones in each deposit, and ranged from 35°–39°.
- (5) No estimates for gold, silver, or molybdenum are reported for leachable material as these elements cannot currently be recovered using the leach process envisaged.
- (6) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determinations, please refer to Chapter 11 of the Tia Maria project technical report summary prepared by qualified persons, under Exhibit 96.3 of Form 10-K/A filed on March 7, 2022.
- (7) Wood is the third-party firm; its mining experts were responsible for the estimate.
- (8) There were no changes with regard to the figures reported in 2021.

Mineral reserves

The following table contains the summary of copper mineral reserves for the La Tapada and Tia Maria deposits as of December 31, 2022, based on long-term price assumptions of \$3.30 per pound, fixed over the estimated 20-year mine life:

La Tapada	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)
Proven mineral reserves	—	— %	— %	—
Probable mineral reserves	487.6	0.41 %	69 %	4,449.2
Total mineral reserves	487.6	0.41 %	69 %	4,449.2

Tia Maria	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)
Proven mineral reserves	—	— %	— %	—
Probable mineral reserves	223.8	0.29 %	65 %	1,412.5
Total mineral reserves	223.8	0.29 %	65 %	1,412.5

- (1) Mineral reserves are current as at December 31, 2022.
- (2) The reference point for the estimate is delivery to the process facility.
- (3) Four oxide stockpiles for material grading less than the run-of-mine cut-off but >0.08% Cu are planned, with two stockpile locations at each open pit.
- (4) Mineral reserves are constrained within an optimized pit shell that uses the following parameters: assumption of open pit mining methods; assumption of heap leach processing; copper price of \$3.30/lb; copper cut-off grade of 0.10% Cu; mining recovery of 100%; metallurgical recovery of 69% at La Tapada and 65% at Tia María; total mining costs (base, incremental and sustaining) of \$1.466/t mined; process costs of \$3.779/t processed at La Tapada and \$3.614/t processed at Tia María; process sustaining capital costs of \$0.155/t processed, general and administrative costs of \$0.373/t processed; transport costs (rail, port, freight) of \$0.034/lb Cu; a copper cathode premium payable of \$0.026/lb Cu; and assumption of a 1% royalty payment.
- (5) For further information on assumptions used in preparing the estimates, including a detailed description on the cut-off determinations, please refer to Chapter 12 of the Tia Maria project technical report summary prepared by qualified persons, under Exhibit 96.3 of Form 10-K/A report filed on March 7, 2022.
- (6) Wood is the third-party; its mining experts were responsible for the estimate.
- (7) There were no changes with regard to the mineral reserves figures reported in 2021.

Los Chancas Project

The Los Chancas project is located in the Andes Range in southern Peru. The site is approximately 65 km southwest of the city of Abancay in the Department of Apurimac, Peru at coordinates 14° 9.904'S, 73° 6.608'W. The project site can be accessed using a Highway 1, a paved road, from Lima to Nazca (460 km), from Nazca to Santa Rosa (250 km), using road 30A, and a gravel road from Santa Rosa to the Project site (32 km). Alternatively, access is available from Cuzco,

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via paved road, to Santa Rosa (170 km), and uses the same gravel road from Santa Rosa to the Project site (32 km). Access within the project area is via gravel roads.

The closest airport is at Cuzco, which is served by daily flights from Lima (approximately one hour flying time). There are a number of port options that may be available to the project for concentrate shipment. These include San Juan de Marcona (approximately 500 km by road), General San Martin at Pisco (about 640–800 km depending on the road route) and Matarani (about 600–750 km depending on the road route).

The project covers 22,700 hectares in 31 concessions. Surface rights are currently being negotiated. The area where surface rights are required is within the Tiaparo and Tapairíhua rural community boundaries. Additionally, we hold two water rights that cover water from four spring sources.

The property is currently under the exploration stage. We commenced exploration in the Los Chancas area in 1997. The initial Environmental Assessment of the Los Chancas Project was conducted in 2001 and updated in 2008. A semi-detailed environmental impact assessment was completed in 2010. Additionally, we completed baseline studies from 2012 through 2020 and have community initiatives in place in the project area of influence. In 2022, we continued to engage in social and environmental improvement efforts for the local communities and worked on the project's environmental impact assessment. As of December 31, 2022 a part of the project's land continued to be occupied by illegal miners, some of whom have irregularly registered their stakes in the "Integral Registry of Mining Formalization" (REINFO) The Company has filed criminal complaints and sought other legal remedies, which have result in the annulment of the claims of 70 illegal miners while five cases remain open. Los Chancas envisions an open-pit mine with a combined operation of concentrator and SX-EW processes.

Geology

The Los Chancas deposit is considered to be an example of a porphyry copper–molybdenum deposit. The deposit is about 1,200 m in diameter, extends for at least 1,000 m at depth, and most drill holes bottom in mineralization. The deposit remains open to the southeast and at depth. Sedimentary rocks of the Jurassic–Cretaceous Ferrobamba, Mara, Soraya, and Chuquibambilla Formations form a north-facing anticline that is eroded along the axial plane. The sediments were intruded by three generations of monzonite intrusion.

Mineralization is hosted by quartz monzonite and surrounding quartzite and siltstone country rocks. Sulfide mineralization consists of hypogene chalcopyrite, bornite, molybdenite, and pyrite. Sulfides are hosted in quartz veins, occur as small sulfide streaks/veins, or form disseminations in the intrusive and sedimentary rocks. This primary mineralization was oxidized and leached, and a zone of supergene enrichment developed. The major area of leaching is to the east, and vertically above, the primary mineralized zone. The oxide zone is sub-parallel to topography. Brochantite and chrysocolla are the dominant copper oxide minerals, with subordinate azurite and malachite. Sulfide minerals within the supergene enrichment zone include chalcocite, covellite, digenite, cuprite, and native copper. Copper oxides are also present as a minor constituent.

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Mineral resources

The following table contains the summary of copper mineral resources for Los Chancas as of December 31, 2022, based on long-term price assumptions of \$3.80 per pound, fixed over the long-term period of time that mineral resources are expected to be produced:

Copper	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)
Measured mineral resources	—	— %	— %	—
Indicated mineral resources	150	0.50 %	82-84 %	1,648
Measured + Indicated mineral resources	150	0.50 %	82-84 %	1,648
Inferred mineral resources	1,433	0.45 %	82-84 %	14,165

- (1) Mineral resources are reported in situ and are current as at December 31, 2022.
- (2) Mineral resources are reported within a conceptual pit shell that uses the following input parameters: metal prices of \$3.80/lb Cu; metallurgical recoveries from copper leaching of 81.8% and from copper milling of 84.3%; base mining costs of \$1.70/t; sustaining capital costs of \$0.25/t processed; heap leach and electrowinning process operating costs of \$4.29/t, mill process operating costs of \$5.82/t, general and administrative costs of \$1.06/t processed; and closure costs of \$0.51/t processed. The marginal net smelter return cut-off values were \$6.11/t for material amenable to heap leach methods and \$7.64/t for material amenable to milling and flotation concentration.
- (3) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determination, please refer to Chapter 11 of the Los Chancas project technical report summary prepared by qualified persons, under Exhibit 96.4 of Form 10-K/A filed by the Company on March 7, 2022.
- (4) Wood is the third-party; its mining experts were responsible for the estimate.
- (5) There were no changes with regard to the mineral resource figures reported in 2021.

Michiquillay Project

The Michiquillay project is located in the Western Cordillera of the Andes in northwest Peru, approximately 45 km from Cajamarca and 900 km northeast of Lima. The main access route to the Project is via road from Cajamarca. Initially, the paved Route 8B is used from Cajamarca to the town of La Encañada, a distance of approximately 33 km. A gravel road is then used from La Encañada to the project site, approximately 14 km. The communities of Michiquillay and Encañada are 2 km and 14 km from the project, respectively. Access within the project is via various gravel and two-track roads that link areas where drilling is planned. The closest airport is at Cajamarca, which is serviced by regular flights from Lima.

The Michiquillay Project consists of 18 mining concessions with a total area of 4,051.4 hectares. The Michiquillay deposit is located on lands of the Michiquillay Rural Community and the Encañada Rural Community. We have signed surface land use agreements with both communities which allow us to conduct exploration activities. Permits for the use of water for exploration purposes are currently being processed by the National Water Authority and the Marañon Local Authority.

The property is currently under the exploration stage. Previous work in the project was conducted by Northern Peru Mining Company, American Smelting and Refining Company, later Asarco LLC, Minero Peru S.A., and various Anglo American subsidiaries. In June 2018, Southern Copper purchased the project from Activos Mineros S.A.C. for a total purchase price of \$400 million and made an initial payment of \$12.5 million. In June 2021, we paid an additional \$12.5 million to acquire the project. The remaining balance of \$375 million will be paid if we decide to develop the project. In 2021, we signed Social Agreements with the Michiquillay and La Encañada communities. Additionally, on October 1, 2021 the Peruvian Ministry of Energy and Mines approved the semi-detailed Environmental Impact Study for the project. In the fourth quarter of 2022, the Company informed MINEM that it had begun exploration activities and initiated an assessment of existing mineral resources at depth. In 2022, we drilled 1,585 meters and we plan to conduct a diamond drilling program of 40,000 meters and continue developing social programs for local communities for 2023.

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Geology

The Michiquillay deposit is considered to be an example of a porphyry copper–molybdenum–gold deposit. The project is located within a northwest–southeast-oriented metallogenetic corridor of the Andes, that hosts several porphyry copper deposits in the Cajamarca region. Those deposits are characterized by calc-alkaline magmatic rocks covered by folded and faulted sedimentary formations. Mineralization is zoned vertically due to oxidation and remobilization of copper by supergene processes. The porphyry mineralization and the porphyritic intrusion at Michiquillay appear to be related to, and controlled by, a regional-scale strike change on a series of pre-mineral west–northwest to northwest striking brittle–ductile fault zones. The porphyry intrusions appear to be controlled by intense, concentrated extension on releasing bends, splays, overlaps in dextral fault segments and on the margins of brittle fault zones with development of multiple extensional phases in stockworks, synthetic/antithetic extensional faults and extensional duplexes.

Mineral resources

The following table contains the summary of copper mineral resources for Michiquillay as of December 31, 2022, based on long-term price assumptions of \$3.80 per pound, fixed over long-term period that would be expected to be required to produce the mineral resources:

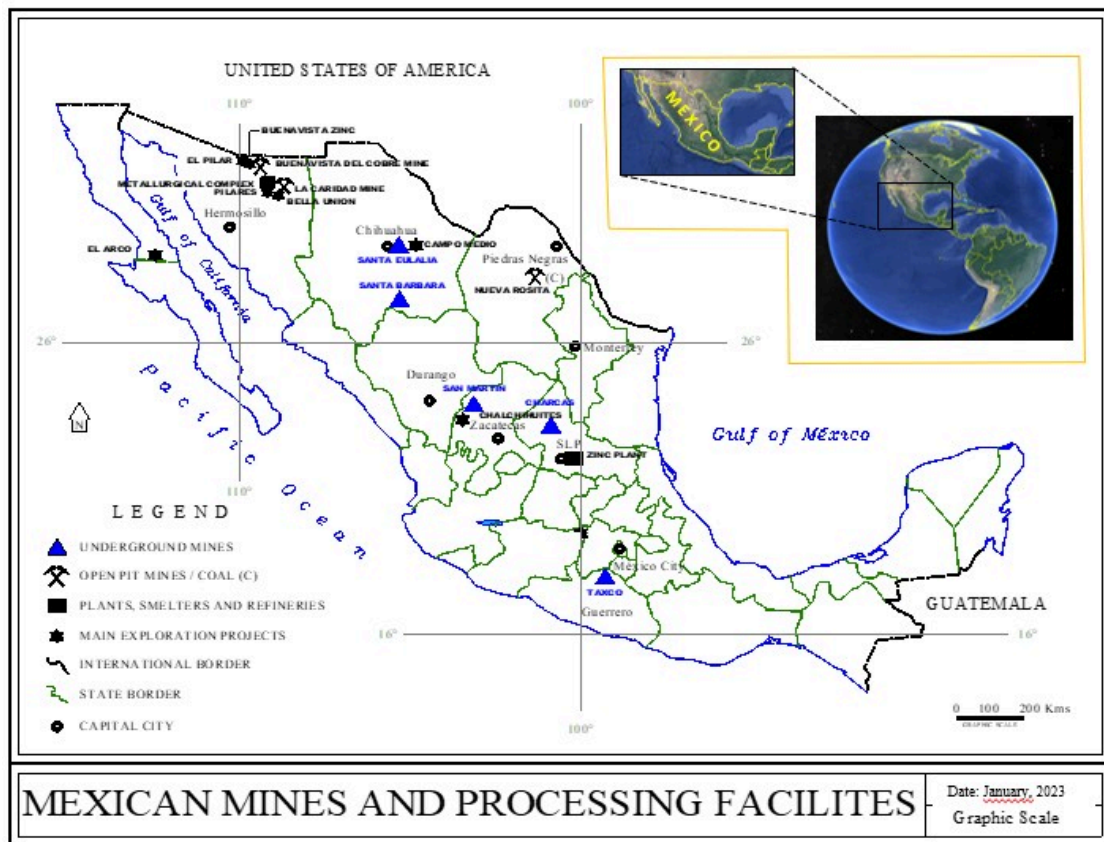
Copper	Amount (million tonnes)	Grades	Metallurgical recovery	Metal content (million pounds)
Measured mineral resources	—	— %	— %	—
Indicated mineral resources	—	— %	— %	—
Measured + Indicated mineral resources	—	— %	— %	—
Inferred mineral resources	2,288.0	0.43 %	85 %	21,554.8

- (1) Mineral resources are reported in situ and are current as at December 31, 2022.
- (2) Mineral resources are reported within a conceptual pit shell that uses the following input parameters: metal prices of \$3.80/lb Cu; copper metallurgical recovery assumptions of 85.4%; base mining costs of \$1.70/t; mill process operating costs of \$5.82/t, general and administrative costs of \$1.12/t; variable pit slope angles that vary from 34–38°; 3% NSR royalty payable to Activos Mineros Mineral resources are reported above a cut-off grade of 0.1% Cu.
- (3) Wood chose a cut-off grade of 0.1% Cu to report mineral resource estimates as based on the above assumptions it provides reasonable prospects of economic extraction.
- (4) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determination, please refer to Chapter 11 of the Michiquillay project technical report summary prepared by qualified persons, under Exhibit 96.5 of Form 10-K/A filed by the Company on March 7, 2022.
- (5) Wood is the third-party; its mining experts were responsible for the estimate.
- (6) There were no changes with regard to the mineral resource figures reported in 2021.

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MEXICAN OPERATIONS

The map below indicates the approximate locations of our Mexican mines and processing facilities:

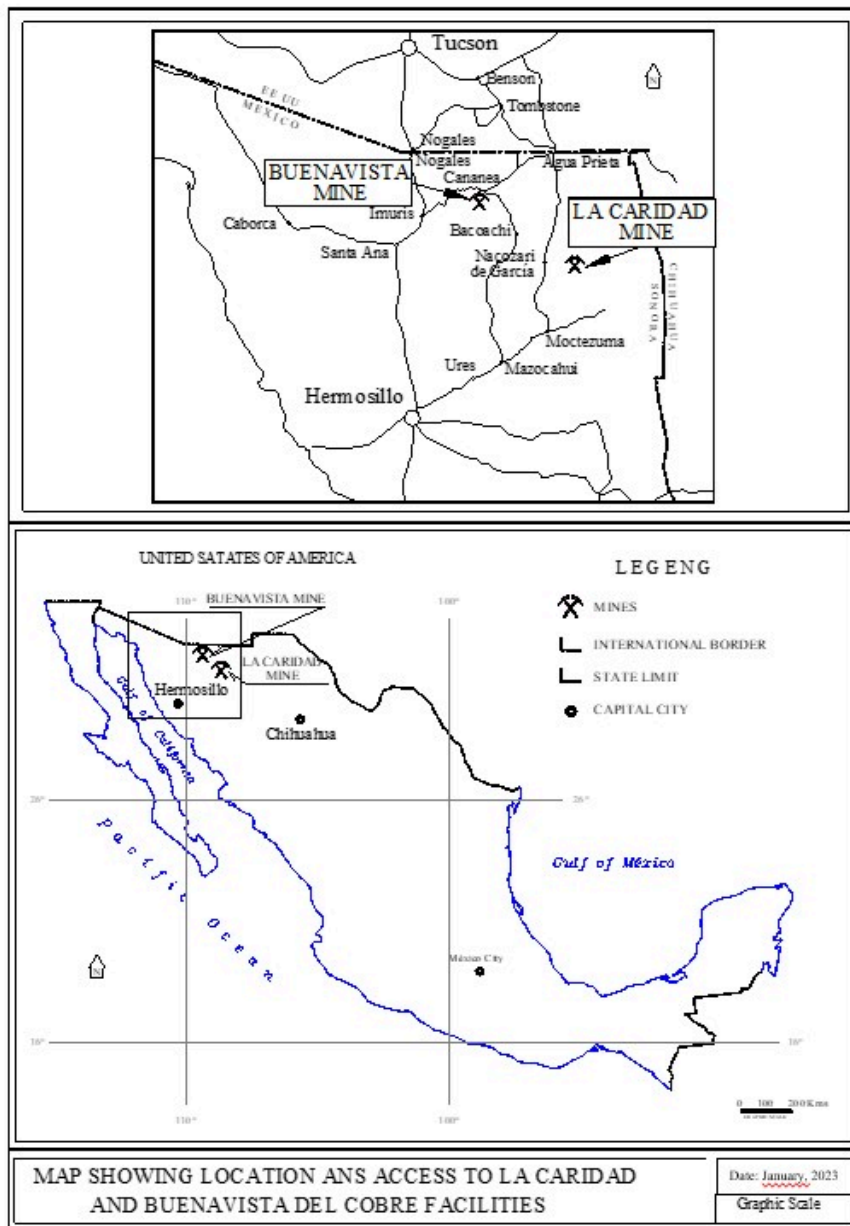


MEXICAN OPEN-PIT SEGMENT

Our Mexican open-pit segment operations combine two units of Minera Mexico, La Caridad and Buenavista, which include La Caridad and Buenavista mine complexes and smelting and refining plants and support facilities, which service both complexes.

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The map below indicates the approximate location of, and access to, our Mexican open-pit mine complexes and our processing facilities:



We have ongoing maintenance and improvement programs to ensure the satisfactory performance of our equipment. We believe all our Mexican open-pit segment equipment is in good physical condition and suitable for our operations.

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Buenavista

The Buenavista mining unit operates an open-pit porphyry copper mine, two concentrators and three SX-EW plants. It is located within the Cananea mining district in the north-central part of the State of Sonora, Mexico. The property is located about 222 kilometers northeast of the city of Hermosillo, Sonora and 150 kilometers southeast of the city of Tucson, Arizona. The property covers an area of 89,220.5 hectares of mining concessions. The elevation of the mine is of the order of 1,604 meters above mean sea level.

The Buenavista del Cobre (“BVC”) deposit is divided into two pit areas, namely BVC and Buenavista Zinc (“BVZ”). The BVZ pit area lies within the largest BVC pit. Buenavista is connected by paved highways to the border city of Agua Prieta to the northeast, to the town of Nacozari in the southeast and to the town of Imuris to the west. Buenavista is also connected by railway to Agua Prieta and Nogales. A municipal airport is located approximately 20 kilometers to the northeast of Buenavista. All required fixed and permanent infrastructure of power, pipelines and primary roadways, and Project access are established. Drainage, water controls and mine access roads are established for current operations and will be expanded and continued as the pit progresses through its planned life of operations.

In 2016 we concluded our \$3.5 billion investment program in Mexico. The program included a third SX-EW plant, which was completed in June 2014 with a rated annual capacity of 120,000 tonnes of copper and a new concentrator, completed in 2015, with an annual copper production capacity of 188,000 tonnes. The program also included two molybdenum plants with a combined annual capacity of 4,600 tonnes. The first plant was completed in 2013 and the second in 2016. Additionally, the program included the Crushing, Conveying and Spreading System for Leachable Ore (Quebalix IV), which was completed on time and under budget and is currently operating steadily. This project will reduce mining costs and increase SX-EW copper recovery, allowing the Buenavista unit to reach its copper production capacity of 500,000 tonnes.

The original concentrator currently has a nominal milling capacity of 82,000 tonnes per day. The second concentrator began operations in 2016 and currently has a nominal milling capacity of 115,000 tonnes per day. The SX-EW facilities have a cathode production capacity of 174,470 tonnes per year. The Buenavista ore body is considered one of the world’s largest porphyry copper deposits. Buenavista is the oldest continuously operated copper mine in North America, with operations dating back to 1899. High grade ore deposits in the district were mined exclusively using underground methods. The Anaconda Company acquired the property in 1917. In the early 1940s, Anaconda started developing the first open-pit in Buenavista. In 1990, through a public auction procedure, Minera Mexico acquired 100% of the Buenavista mining assets for \$475 million. Buenavista is currently applying conventional open-pit mining methods to extract copper ore for further processing in the concentrator. Additionally, a new zinc concentrator is under construction, which will increase milling capacity and will allow us to recover zinc, along with copper and molybdenum contents. This new zinc plant is expected to begin operations in the third quarter of 2023.

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The following table contains production information for 2022, 2021 and 2020 for Buenavista:

		2022	2021	2020	2022 - 2021	
					Volume	%
Mine annual operating days		365	365	366		
<i>Mine:</i>						
Total ore mined	(kt)	74,180	74,234	72,895	(54)	(0.1)%
Copper grade	(%)	0.528	0.527	0.527	0.001	0.2 %
Leach material mined	(kt)	122,630	139,070	128,118	(16,440)	(11.8)%
Leach material grade	(%)	0.21	0.196	0.211	0.014	7.1 %
Stripping ratio	(x)	0.72	0.52	0.29	0.20	38.5 %
Total material mined	(kt)	337,727	324,860	259,860	12,867	4.0 %
<i>Concentrator:</i>						
Total material milled	(kt)	74,121	74,302	73,011	(181)	(0.2)%
Copper recovery	(%)	86.57	87.18	86.72	(0.61)	(0.7)%
Copper concentrate	(kt)	1,482.3	1,464.9	1,398.4	17.4	1.2 %
Copper in concentrate	(kt)	339.0	341.0	334.0	(2.0)	(0.6)%
Copper concentrate average grade	(%)	22.87	23.28	23.88	(0.4)	(1.8)%
<i>SX-EW plant</i>						
Estimated leach recovery	(%)	67.00	65.00	66.00	2.00	3.1 %
SX-EW cathode production	(kt)	93.3	81.8	98.2	11.5	14.1 %
<i>Molybdenum</i>						
Molybdenum grade	(%)	0.01	0.01	0.01	—	— %
Molybdenum recovery	(%)	70.46	68.97	67.26	1.49	2.2 %
Molybdenum concentrate	(kt)	10.48	10.21	10.44	0.27	2.6 %
Molybdenum concentrate average grade	(%)	51.24	51.22	52.39	0.02	0.0 %
Molybdenum in concentrate	(kt)	5.37	5.23	5.47	0.14	2.7 %

Key: kt = thousand tonnes

x = Stripping ratio obtained dividing waste by leachable material plus ore mined.

The copper and molybdenum grade are total grade.

Geology

The Cananea mining district lies within the eastern section of the Sonora Basin and Range Province of northern Mexico. Sustained magmatic activity along the North American Cordillera during the late Mesozoic through Paleogene resulted in the development of numerous porphyry copper deposits. The Precambrian Cananea basement rocks are overlain by several Paleozoic sedimentary units ranging from the Cambrian Capote Quartzite through thick limestone sequence of Upper Paleozoic age. Overlying the Paleozoic sediments and Precambrian granite of Cananea are the Henrietta and Elenita formations which are Triassic to late Jurassic in age and are comprised of volcanic rocks of latite to andesite composition. The youngest volcanic units in the district are andesitic tuffs and rhyolites of the Mesa formation.

The intrusions of diorite, granodiorite and quartz monzonite formed after the emplacement of the Mesa Formation. In the final stage of intrusive activity, diabase dikes intruded faults and fractures with a NW-SE trend. Pipe-like breccias formed as late-stage products of the quartz-monzonite porphyries. During the Cenozoic, alluvial and fluvial sediments were deposited as erosion of the Cananea Mountains occurred. Exhumation of the upper part of the Cananea mining district porphyry system resulted in the formation of a supergene enrichment and an oxidation overburden overlying the porphyry system.

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Concentrator

Buenavista uses state-of-the-art computer monitoring systems at the concentrators, the crushing plant and the flotation circuit in order to coordinate inflows and optimize operations. In the original concentrator, material with a copper grade above a cut-off grade of approximately 0.30% is currently loaded onto trucks and sent to the milling circuit, where giant rotating crushers reduce the size of the ore to approximately one-half of an inch. The ore is then sent to the ball mills, which grind it to the consistency of fine powder. The finely ground powder is agitated in a water and reagents solution and is then transported to flotation cells. Air is pumped into the cells producing a froth, which carries the copper mineral to the surface but not the waste rock, or tailings. Recovered copper, with the consistency of froth, is filtered and dried to produce copper concentrates with an average copper content of approximately 24%. Concentrates are then shipped by rail to the smelter at La Caridad.

In the second concentrator, material with a copper grade above a cut-off grade of approximately 0.30% is sent to a three-phase milling circuit, where the ore size is reduced to approximately one-half inch. The ore is then sent to a circuit of six ball mills, which grind it to the consistency of fine powder. The finely ground powder is agitated in a water and reagents solution and is then transported to flotation cells. Air is pumped into the cells producing a froth, which carries the copper mineral to the surface but not the waste rock, or tailings. Recovered copper, with the consistency of froth, is filtered and dried to produce copper concentrates with an average copper content of approximately 24%. Concentrates are then sent by trucks or by railroad to the La Caridad smelter or to the Guaymas port, at Sonora, for export.

The current cut-off grade assumptions used on site for both concentrator 1 and 2 and material assigned for leach is recommended to be reassessed. The mineral reserves reported for Buenavista have been estimated by determining economic value of each block containing mineral resource. This takes into account the potential revenue of the block whether it is processed in a concentrator or on the leach pad along with the downstream selling costs. The approximate cut-off grade for the concentrators is estimated to be 0.11% copper and the approximate cut-off grade for the leachable material is estimated to be 0.05% copper. The approximate cut-off grade for the zinc concentrator (once it has been constructed) was estimated to be 0.22% copper equivalent.

As part of the expansion program for this unit, in 2013 we completed the construction of the first molybdenum plant with an annual production capacity of 2,000 tonnes of molybdenum contained in concentrate. The plant was designed to process 1,500 tonnes of copper-molybdenum concentrates per day with a content recovery of approximately 80% copper and 50% molybdenum. The molybdenum plant consists of thickeners, homogenizer tanks, flotation cells, column cells and a holo-flite dryer. The second molybdenum plant was designed to process 3,040 tonnes of copper-molybdenum concentrates per day for a content recovery between 80% and 87% for copper and 60% for molybdenum. The plant generated its first production lot in July 2016 and fully initiated operations in November 2016.

SX-EW Plant

The Buenavista unit operates a leaching facility and three SX-EW plants. All copper ore with a grade lower than the mill cut-off grade of 0.30%, but higher than 0.15%, is delivered to the leach dumps. A cycle of leaching and resting occurs for approximately five years in the run-of-mine dumps and three years for the crushed leach material. A review of the cut-off grades based on economics is recommended to be reassessed as described above.

There are three irrigation systems for the dumps and eleven dams for the pregnant leach solution (PLS). Plant I has four solvent extraction tanks with a nominal capacity of 18,000 liters per minute of PLS and 54 electrowinning cells and has a daily production capacity of 30 tonnes of copper cathodes with 99.999% purity. Plant II has five trains of solvent extraction with a nominal capacity of 62,000 liters per minute of PLS and 220 cells distributed in two bays and has a daily production capacity of 120 tonnes of copper cathodes with 99.9% purity. Plant III has three trains of solvent extraction with a nominal capacity of 167,100 liters per minute of PLS and 270 cells distributed in two bays and has a daily production capacity of 328 tonnes of copper cathodes with 99.9% purity. The plant produces copper cathodes of LME grade A.

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Slope stability

At the Buenavista mine, we are following the recommendations produced by a geotechnical evaluation of the design slope for the 15-year pit plan. This evaluation was prepared by an independent mine consulting firm. The assessment included the determination of optimum pit slope design angles and bench design parameters for the proposed mine plan. The objective of the study was: (1) to determine optimum inter-ramp slope angles and bench design parameters for the 15-year plan and (2) to identify and analyze any potential major instability that could adversely impact mine operation. In 2012, we installed a radar system to monitor the walls of the mine.

The following recommendations were made for the Buenavista mine: inter-ramp slope design angles for the 15-year pit plan for all of the 21 design sectors defined on a rock-fabric-based catch bench analysis, using double bench, can range from 48° and 55°, and the inter-ramp slope angles are based on geometries obtained from the back-break analysis using 80% reliability of achieving the required 7.6 meter catch bench width for a single bench configuration and 10.6 meter catch bench width for a double bench configuration. Preliminary observations suggest the 15-year pit walls may be relatively free-draining; the back-break analysis assumed depressurized conditions of mine benches, and the inter-ramp stability analysis were performed for both saturated and depressurized conditions.

A pit dewatering/depressurization plan for the Buenavista mine was also recommended to address the issues of open-pit drainage, dewatering plan and future slope depressurization. Phase I of the geohydrological study was completed by an independent consultant. The analysis included a preliminary assessment and work plan implementation.

Between 2011 and 2014, we conducted well drilling and dewatering programs to ensure the ability to continue with the mining plan. We also executed a geophysical study to determine the best locations for water extraction wells and continued collecting new geotechnical information from two exploration drilling projects. Following the recommendations of the geotechnical evaluation, we continued monitoring the walls using the radar system.

Various studies are now being conducted by outside specialized consultants to establish long-range mine water management objectives and implement recommendations for the efficient use of this resource. We are also conducting a geotechnical study and a diamond drilling program with an independent consulting firm in order to obtain additional geotechnical information, which will allow us to verify the slope stability for the long-term mine plan. In addition, slope monitoring continues with the SSR 160 radar.

In July 2020, the OMNI 505 radar began operating. As such, we currently have two working radars, which allow us to cover 95% of the slopes in the operating areas of the mine. In 2021, we acquired two pieces of equipment for additional monitoring and began developing a geotechnical study for the mine with the support of a specialized consulting firm. The results of the study concluded in 2022 and included recommendations for updates to the bench design which have not been incorporated in the current estimation of Mineral Reserves. These recommendations should be reviewed for potential updates to the ultimate pit design.

During 2022, we continued with the diamond exploration and reverse circulation programs for the quantification and certification of resources and reserves, considering the limits of the final slope design (LOM). During this period, a total of 24,865 linear meters were developed distributed in a total of 35 diamond exploration holes. 8,105 tested samples for 18 chemical elements were generated and 1,425 samples related to QA/QC analysis (control samples) were included. We also drilled 4,332 meters of exploration with reverse circulation that were distributed into 45 holes for short-term planning. All exploration information contains lithological descriptions, geomechanical data, QA/QC data, orientations, densities and final coordinates.

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Mineral resources

The following table contains the summary of copper, molybdenum and zinc mineral resources for Buenavista as of December 31, 2022, based on long-term price assumptions of \$3.80, \$11.50 and \$1.32 per pound, respectively:

2022										
Copper plant	Amount (million tonnes)	Copper grades	Molybdenum grades	Zinc grades	Contained copper (million pounds)	Contained molybdenum (million pounds)	Contained zinc (million pounds)	Variation Copper	Variation Molybdenum	Variation Zinc
Measured mineral resources	—	— %	— %	— %	—	—	—			
Indicated mineral resources	764	0.34 %	0.005 %	0.07 %	5,664	88	1,182	(28.2)%	(21.6)%	(18.4)%
Measured + Indicated mineral resources	764	0.34 %	0.005 %	0.07 %	5,664	88	1,182	(28.2)%	(21.6)%	(18.4)%
Inferred mineral resources	13,015	0.21 %	0.004 %	0.03 %	56,584	1,080	8,089	(15.7)%	(16.9)%	(14.8)%
Zinc plant	Amount (million tonnes)	Copper grades	Molybdenum grades	Zinc grades	Contained copper (million pounds)	Contained molybdenum (million pounds)	Contained zinc (million pounds)			
Measured mineral resources	—	— %	— %	— %	—	—	—			
Indicated mineral resources	148	0.46 %	0.002 %	0.78 %	1,561	4	2,416	(16.4)%	(33.3)%	(22.8)%
Measured + Indicated mineral resources	148	0.46 %	0.002 %	0.78 %	1,561	4	2,416	(16.4)%	(33.3)%	(22.8)%
Inferred mineral resources	143	0.43 %	0.003 %	0.49 %	1,393	7	1,638	(23.9)%	(50.0)%	(22.0)%
Leach plant	Amount (million tonnes)	Copper grades	Molybdenum grades	Zinc grades	Contained copper (million pounds)	Contained molybdenum (million pounds)	Contained zinc (million pounds)			
Measured mineral resources	—	—	— %	— %	—	—	—			
Indicated mineral resources	77	0.13 %	— %	— %	196	—	—	(14.4)%	—	—
Measured + Indicated mineral resources	77	0.13 %	— %	— %	196	—	—	(14.4)%	—	—
Inferred mineral resources	2,838	0.14 %	— %	— %	8,538	—	—	(28.3)%	—	—
2021										
Copper plant	Amount (million tonnes)	Copper grades	Molybdenum grades	Zinc grades	Contained copper (million pounds)	Contained molybdenum (million pounds)	Contained zinc (million pounds)			
Measured mineral resources	—	— %	— %	— %	—	—	—			

Indicated mineral resources	944	0.38 %	0.005 %	0.07 %	7,893	112	1,448
Measured + Indicated mineral resources	944	0.38 %	0.005 %	0.07 %	7,893	112	1,448
Inferred mineral resources	14,467	0.21 %	0.004 %	0.03 %	67,113	1,301	9,491

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Zinc plant	Amount (million tonnes)	Copper grades	Molybdenum grades	Zinc grades	Contained copper (million pounds)	Contained molybdenum (million pounds)	Contained zinc (million pounds)
Measured mineral resources	—	— %	— %	— %	—	—	—
Indicated mineral resources	183	0.46 %	0.002 %	0.78 %	1,867	7	3,128
Measured + Indicated mineral resources	183	0.46 %	0.002 %	0.78 %	1,867	7	3,128
Inferred mineral resources	194	0.43 %	0.003 %	0.49 %	1,830	13	2,101

Leach plant	Amount (million tonnes)	Copper grades	Molybdenum grades	Zinc grades	Contained copper (million pounds)	Contained molybdenum (million pounds)	Contained zinc (million pounds)
Measured mineral resources	—	—	— %	— %	—	—	—
Indicated mineral resources	82	0.13 %	— %	— %	229	—	—
Measured + Indicated mineral resources	82	0.13 %	— %	— %	229	—	—
Inferred mineral resources	3,812	0.14 %	— %	— %	11,901	—	—

- (1) Mineral resources are reported in situ and are current as at December 31, 2022.
- (2) Mineral resources are reported exclusive of mineral reserves.
- (3) Copper content in mineral resources in 2022 was 15.7% lower than 2021 estimate, due to updates to the Mineral Reserve ultimate pit based on revised cut-off grades.
- (4) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determination, please refer to Chapter 11 of the Buenavista del Cobre technical report summary prepared by qualified persons, under Exhibit 96.6 to this Form 10-K.

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Mineral reserves

The following table contains the summary of copper, molybdenum and zinc mineral reserves for Buenavista as of December 31, 2022, based on long-term price assumptions of \$3.30, \$10.00 and \$1.15 per pound, respectively:

Probable mineral reserves	2022									
	Amount (million tonnes)	Copper grades	Molybdenum grades	Zinc grades	Contained copper (million pounds)	Contained molybdenum (million pounds)	Contained zinc (million pounds)	Variation Copper	Variation Molybdenum	Variation Zinc
Sulfide ROM Ore - Copper plant	2,020	0.42 %	0.007 %	— %	18,529	333	—	9.8%	(2.9)%	—
Sulfide ROM Ore - Zinc plant	96	0.39 %	— %	1.43 %	824	—	3,018	55.2%	—	43.9%
Sulfide ROM Ore - Total	2,116	0.41	—	—	19,353	333	3,018	11.1%	(2.9)%	43.9%
Leachable Ore	1,132	0.22 %	— %	— %	5,456	—	—	(0.9)%	—	—
Probable mineral reserves	2021									
	Amount (million tonnes)	Copper grades	Molybdenum grades	Zinc grades	Contained copper (million pounds)	Contained molybdenum (million pounds)	Contained zinc (million pounds)			
Sulfide ROM Ore - Copper plant	2,104	0.36 %	0.007 %	— %	16,881	343	—			
Sulfide ROM Ore - Zinc plant	68	0.36 %	— %	1.40 %	531	—	2,097			
Sulfide ROM Ore - Total	2,172				17,412	343	2,097			
Leachable Ore	1,126	0.22 %	— %	— %	5,506	—	—			

- (1) Mineral reserves are current as at December 31, 2022.
- (2) The reference point for the estimate is delivery to the process plant.
- (3) Copper content in mineral reserves in 2022 slightly decreased compared to 2021 due to mining and revised cut-off grade parameters.
- (4) The estimated Cu leach cut-off grade would be approximately 0.06% based on the leach value calculation above. This differs from the current practice where any material above a Cu grade of 0.07% and less than mill cut-off of 0.30% reports to the leach pad (whether ROM or crushed).
- (5) The Cu equivalent cut-off used to calculate the Mineral Reserves, was approximately 0.11% Cu.
- (6) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determination, please refer to Chapter 12 of the Buenavista operations technical report summary prepared by qualified persons, under Exhibit 96.6 to this Form 10-K.

The variations registered for mineral resources and reserves from 2021 to 2022 were attributable to:

- Mill Cutoff strategy was reduced from 0.30 TCU in year 2023 to break-even 0.12 TCU in year 2027 to LOM.
- Production depletion from year 2022.

[La Caridad](#)

The La Caridad complex includes an open-pit mine, concentrator, smelter, copper refinery, precious metals refinery, rod plant, SX-EW plant, lime plant and two sulfuric acid plants.

La Caridad mine and mill are located about 23 kilometers southeast of the town of Nacozari in northeastern Sonora at an average altitude of 1,500 meters above mean sea level. Nacozari is about 266 kilometers northeast of the Sonora state capital of Hermosillo and 125 kilometers south of the U.S.—Mexico border. Nacozari is connected by paved highway with Hermosillo and Agua Prieta and by rail with the international port of Guaymas, and the Mexican and United States rail systems. An airstrip with a reported runway length of 2,500 meters is located 36 kilometers north of Nacozari, less

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than one kilometer away from the La Caridad copper smelter and refinery. The smelter and the sulfuric acid plants, as well as the refineries and rod plant, are located approximately 24 kilometers from the mine. Access is by paved highway and by railroad.

The mining claims held by La Caridad unit cover an area of about 103,821 hectares for exploration and exploitation activities. Surface rights are held by a combination of private ownership and agreements with local ejidos. Ejidos are agrarian land grants held by a group of people. The agreements allow for exploration and mining activities. The La Caridad complex imports natural gas from the United States through its pipeline (between Douglas, Arizona and Nacozari, Sonora). The electrical power is supplied to site from the utility grid via 230 kV overhead transmission lines. The bulk of demand is supplied by MGE, a subsidiary of Grupo Mexico. The primary fresh water source is the La Angostura Dam located approximately 29 km to the northeast of the La Caridad mine.

The ore at La Caridad is recovered using open-pit conventional truck and shovel mining methods due to the proximity of the ore to the surface and the physical characteristics of the deposit. The concentrator began operations in 1979; the molybdenum plant was added in 1982 and the smelter in 1986; the first sulfuric acid plant was added in 1988 and the SX-EW plant in 1995; the second sulfuric acid plant was added in 1997 and the copper refinery in 1997; the rod plant was added in 1998 and the precious metals refinery in 1999; and the dust and effluents plant was incorporated in 2012.

In 2020, the final ore reserve estimation report for the Bella Union prospect was integrated into the La Caridad Block Model and in 2021 it was considered in the new life of mine that was delivered in January 2022. The Bella Union prospect is a mineralized copper and molybdenum breccia deposit; the site is located at less than one kilometer from the border of La Caridad pit.

The table below contains production information for 2022, 2021 and 2020 for La Caridad:

		2022	2021	2020	Variance 2022 - 2021	
					Volume	%
Mine annual operating days		365	365	366		
<i>Mine</i>						
Total ore mined	(kt)	34,099	34,876	34,949	(777.0)	(2.2)%
Copper grade	(%)	0.303	0.340	0.361	(0.0)	(10.9)%
Leach material mined	(kt)	30,113	35,230	29,561	(5,117.0)	(14.5)%
Leach material grade	(%)	0.201	0.212	0.220	(0.0)	(5.2)%
Stripping ratio	(x)	0.65	0.43	0.45	0.2	51.2 %
Total material mined	(kt)	106,251	100,412	93,373	5,839.0	5.8 %
<i>Concentrator</i>						
Total material milled	(kt)	34,114	34,929	34,858	(815.0)	(2.3)%
Copper recovery	(%)	85.71	86.44	87.14	(0.7)	(0.8)%
Copper concentrate	(kt)	385.3	456.8	473.1	(71.5)	(15.7)%
Copper in concentrate	(kt)	88.5	102.7	109.7	(14.2)	(13.8)%
Copper concentrate average grade	(%)	22.97	22.48	23.18	0.5	2.2 %
<i>SX-EW plant</i>						
Estimated leach recovery	(%)	34.46	38.11	38.04	(3.7)	(9.6)%
SX-EW cathode production	(kt)	23.34	25.38	25.85	(2.0)	(8.0)%
<i>Molybdenum</i>						
Molybdenum grade	(%)	0.034	0.035	0.036	(0.0)	(2.9)%
Molybdenum recovery	(%)	81.67	82.44	82.82	(0.8)	(0.9)%
Molybdenum concentrate	(kt)	17.8	18.9	19.3	(1.1)	(5.8)%
Molybdenum concentrate average grade	(%)	53.58	53.92	54.48	(0.3)	(0.6)%
Molybdenum in concentrate	(kt)	9.6	10.2	10.5	(0.6)	(5.9)%

Key: kt = thousand tonnes

x = Stripping ratio obtained dividing waste by leachable material plus ore mined

The copper and molybdenum grade are total grade.

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Geology

La Caridad is a porphyry copper deposit, that is currently the largest copper producer in Mexico and the youngest dated porphyry copper system in the American Southwest region. The La Caridad district lies within the eastern section of the Sonora Basin and Range Province of northern Mexico. Sustained magmatic activity along the North American Cordillera during the late Mesozoic through Paleogene resulted in the development of numerous porphyry copper deposits. The basement rocks of area consist of strongly deformed greenschist-grade volcanic and sedimentary rocks that are intruded by granites emplaced at 1.4 and 1.1 billion years ago. Above the sequence Late Proterozoic and Paleozoic rocks are overlain by volcanic and plutonic rocks of Mesozoic and Cenozoic age. Middle Jurassic rocks characterized by volcanic and volcano-sedimentary sequences, with occasional granite intrusions, outcrop in the northern and northeastern portion of Sonora. In the La Caridad district, these rocks outcrop in the Sierra Cobriza area, west of the town of Nacozari.

The main mineralization at La Caridad occurs in the Quartz-monzonite porphyry and hydrothermal breccias. The host rock at La Caridad are andesites, with the oldest rocks corresponding to the Laramide volcanic rocks, which are regionally correlated with the Tarahumara Formation. Locally, this andesitic volcanic sequence was intruded by a granodiorite which is well exposed to the east-southeast of the La Caridad mine, which are in turn intruded by diorite dikes that range from fine to coarse grain. Discordantly overlying this igneous complex is a sequence of rhyolitic flows.

Concentrator

La Caridad uses state-of-the-art computer monitoring systems at the concentrator, the crushing plant and the flotation circuit to coordinate inflows and optimize operations. The concentrator has a current capacity of 94,500 tonnes of ore per day.

Ore extracted from the mine with a copper grade over 0.30% is currently sent to the concentrator and processed into copper concentrates and molybdenum concentrates. The copper concentrates are sent to the smelter and the molybdenum concentrate is sold to a Mexican customer. The molybdenum recovery plant has a capacity of 2,000 tonnes per day of copper-molybdenum concentrates. The lime plant has a capacity of 340 tonnes of finished product per day.

The mineral reserves estimated for La Caridad were estimated utilizing an economic cut-off to assign material to either the concentrator or leach pad. Each block in the mineral resource model is assigned an economic value based on the total potential revenue whether the block is processed in the concentrator or on a leach pad and takes into account the various recoveries, selling costs, and payability. The resulting cut-off grade for the concentrator is approximately 0.08% copper and the leachable cutoff grade is approximately 0.01% copper.

SX-EW Plant

Approximately 983.9 million tonnes of leaching ore with an average grade of approximately 0.239% copper was extracted from the La Caridad open-pit mine and deposited in leaching dumps to December 31, 2022. All copper ore with a grade lower than the current mill cut-off grade 0.30%, but higher than 0.15% copper, is at present delivered to the leaching dumps. In 1995, we completed the construction of a SX-EW facility at La Caridad that has allowed us to process this ore and certain leach mineral reserves that were not mined; this has led to a subsequent reduction in our copper production costs. The SX-EW facility has an annual design capacity of 21,900 tonnes of copper cathodes. These cut-off grades need to be re-assessed as the mineral reserves stated were estimated utilizing an economic cut-off value.

The plant has three trains of solvent extraction with a nominal capacity of 2,400 cubic meters per hour and has 94 electrowinning cells, which are distributed in a single electrolytic bay. The plant has a daily production capacity of 65 tonnes of copper cathodes with 99.999% purity.

Slope stability

In 2004, our 15-year mine plan study for the La Caridad mine was awarded to an independent consulting firm to conduct a geotechnical evaluation. The purpose of the plan was to develop a program of optimum bench design and inter-ramp

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slope angles for the open-pit. The results of the evaluation presented by the consultants included a recommendation of a maximum average bench face angle of 72 degrees. Additionally, single benching was recommended for the upper sections of the west, south and east walls of the main pit. Double benching was recommended for the lower levels of the main pit and single benching for the upper slope segments that consist of either alluvial material, mine waste dumps or mineralized stockpile material. Alternatively, slopes in these types of materials, may be designed with an overall 37-degree slope. The geostructural and geotechnical parameters recommended were applied in the pit design for the new life of mine plan for La Caridad mine, which was prepared in 2015. This mine plan replaced the 15-year mine plan prepared in 2010. However, since final pit limits have yet to be established at La Caridad, all current pit walls are effectively working slopes. Geostructural and geotechnical data collected at the open-pit mine from cell-mapping and oriented-core drilling databases provided the basis for the geotechnical evaluation and recommendations. Additional geotechnical drilling is required in the expanded areas of the Mineral Reserve ultimate pit shell which are beyond the design sector limits.

In 2019, we assigned an independent consulting firm to conduct a geotechnical study of La Caridad, which included the Bella Union area, based on a 15-year mining plan. The results of this study included recommendations on geostructural and geotechnical parameters. These were applied to the pit design for the new mine plan for La Caridad, which replaced the 15-year mine plan prepared in 2015. A hydrogeological study was also recommended to determine the distribution of pore pressure. In September 2021, the SSR-OMNI and the SSR-FX radars began operating. These two working radars will allow us to cover up to 80% of the slopes in the operating areas of the mine.

In 2022, a Geotechnical Engineer in charge of the Geotechnical Department, took care of the two radars to create information and to make daily monitoring reports as well as giving recommendations to the Operation Department to have a safer mining process. Geostructural data from cell-mapping is being collected. We use the Maptek XR3 scanner to monthly monitor the TSF #7 dam stability. The inter-ramp slope angles are updated weekly, as the topography changes, to know if we continue within the recommended level.

[Table of Contents](#)*Mineral resources*

The following table contains the summary of copper and molybdenum mineral resources for La Caridad as of December 31, 2022, based on long-term price assumptions of \$3.80 and \$11.50 per pound, respectively:

	2022						
	Amount (million tonnes)	Copper grades	Molybdenum grades	Contained copper (million tonnes)	Contained molybdenum (million tonnes)	Variation Copper	Variation Molybdenum
Leach process							
Measured mineral resources	—	— %	— %	—	—	—	—
Indicated mineral resources	684	0.07 %	— %	0.5	—	0.0%	—
Measured + Indicated mineral resources	684	0.07 %	— %	0.5	—	0.0%	—
Inferred mineral resources	526	0.08 %	— %	0.4	—	(33.3)%	—
Mill process							
Measured mineral resources	—	— %	— %	—	—	—	—
Indicated mineral resources	3,934	0.16 %	0.028 %	6.2	1.10	(42.6)%	(34.5)%
Measured + Indicated mineral resources	3,934	0.16 %	0.028 %	6.2	1.10	(42.6)%	(34.5)%
Inferred mineral resources	2,974	0.14 %	0.025 %	4.0	0.70	(21.6)%	(30.7)%
2021							
Leach process							
Measured mineral resources	—	— %	— %	—	—	—	—
Indicated mineral resources	817	0.06 %	— %	0.5	—	—	—
Measured + Indicated mineral resources	817	0.06 %	— %	0.5	—	—	—
Inferred mineral resources	927	0.06 %	— %	0.6	—	—	—
Mill process							
Measured mineral resources	—	— %	— %	—	—	—	—
Indicated mineral resources	6,455	0.17 %	0.026 %	10.8	1.68	—	—
Measured + Indicated mineral resources	6,455	0.17 %	0.026 %	10.8	1.68	—	—
Inferred mineral resources	4,039	0.13 %	0.025 %	5.1	1.01	—	—

- (1) Mineral resources are reported in situ and are current as at December 31, 2022.
- (2) Mineral resources are reported exclusive of mineral reserves.
- (3) Copper content in mineral resources in 2022 decreased significantly compared with 2021 estimate due to the increase in the Mineral Reserve estimate.
- (4) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determination, please refer to Chapter 11 of the La Caridad operations technical report summary prepared by qualified persons, under Exhibit 96.7 to this Form 10-K.

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Mineral reserves

The following table contains the summary of copper and molybdenum mineral reserves for La Caridad as of December 31, 2022, based on long-term price assumptions of \$3.30 and \$10.00 per pound, respectively.

Probable mineral reserves	2022						
	Amount (million tonnes)	Copper grades	Molybdenum grades	Contained copper (million pounds)	Contained molybdenum (million pounds)	Variation Copper	Variation Molybdenum
Leach process	198	0.09 %	— %	395	—	387.7%	—
Mill process	2,100	0.21 %	0.028 %	9,737	1,286	398.1%	595.1%

Probable mineral reserves	2021					
	Amount (million tonnes)	Copper grades	Molybdenum grades	Contained copper (million pounds)	Contained molybdenum (million pounds)	
Leach process	43	0.09 %	— %	81	—	
Mill process	372	0.24 %	0.02 %	1,955	185	

- (1) Mineral reserves are current as at December 31, 2022.
- (2) The reference point for the estimate is the leach pad or concentrator.
- (3) The estimated Cu leach cut-off grade would be approximately 0.03% based on the leach value calculation.
- (4) The Cu equivalent cut-off is approximately 0.11% Cu.
- (5) Copper content in mineral reserves in 2022 increased significantly compared with 2021 estimate due to the increase in the Tailings Storage Facility capacity from, which has increased the mine life from 11 years to 60 years.
- (6) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determination, please refer to Chapter 12 of the La Caridad operations technical report summary prepared by qualified persons, under Exhibit 96.7 to this Form 10-K.

Processing Facilities—La Caridad

Our La Caridad complex includes a smelter, an electrolytic copper refinery, a precious metal refinery, a copper rod plant and an effluent and dust treatment plant. The distance between this complex and the La Caridad mine is approximately 24 kilometers.

Smelter

Copper concentrates from Buenavista, Santa Barbara, Charcas and La Caridad are transported by rail and truck to the La Caridad smelter where they are processed and cast into copper anodes of 99.2% purity. Sulfur dioxide off-gases collected from the flash furnace, the El Teniente converter and conventional converters are processed into sulfuric acid at two sulfuric acid plants. Approximately 2% to 3% of this acid is used by our SX-EW plants and the balance is sold to third parties.

All of the anodes produced in the smelter are sent to the La Caridad copper refinery. The actual installed capacity of the smelter is 1,000,000 tonnes per year, a capacity that is sufficient to treat all the concentrates of La Caridad and almost 40.5% of total production of the OMIMSA I and OMIMSA II concentrators from Buenavista. In 2010, the smelter also began processing concentrates from the IMMSA mines, as we closed the San Luis Potosi smelter.

Other facilities in the smelter include two sulfuric acid plants with capacities of 2,625 and 2,135 tonnes per day, three oxygen plants each with a production capacity of 275 tonnes per day; and one power turbine which generates 11.5 MWh.

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Refinery

La Caridad includes an electrolytic copper refinery that uses permanent cathode technology. The installed capacity of the refinery is 300,000 tonnes per year. The refinery consists of an anode plant with a preparation area, an electrolytic plant with an electrolytic cell house with 1,115 cells and 32 liberator cells, two cathode stripping machines, an anode washing machine, a slime treatment plant and a number of ancillary facilities. The refinery is producing grade A (LME) and grade 1 (COMEX) copper cathode of 99.99% purity. Anodic slimes are recovered from the refining process and sent to the slime treatment plant, where additional copper is extracted. The slimes are then filtered, dried, packed and shipped to the La Caridad precious metals refinery to produce silver and gold.

Precious Metals Plant

The operations at the precious metal refinery begin with the reception of anodic slimes, which are dried in a steam dryer. After this, the dried slime is smelted and a gold and silver alloy is obtained, which is known as Dore. The precious metal refinery plant has a hydrometallurgical stage and a pyrometallurgical stage, in addition to a steam dryer, Dore casting system, Kaldor furnace, 20 electrolytic cells in the silver refinery, one induction furnace for fine silver, one silver ingot casting system and two reactors for obtaining fine gold. The process ends with the refining of the gold and silver alloy. We also recover commercial selenium from the gas produced by the Kaldor furnace process.

Copper Rod Plant

A rod plant at the La Caridad complex began operations in 1998 and reached its full annual operating capacity of 150,000 tonnes in 1999. The plant is producing eight-millimeter copper rods with a purity of 99.99%.

Effluent and Dust Treatment Plant

In 2012, we started operating a dust and effluent plant with a treatment capacity of 5,000 tonnes of smelter dusts per year, which will produce 1,500 tonnes of copper by-products and 2,500 tonnes of lead sulfates per year. This plant is designed to reduce dust emissions from La Caridad metallurgical complex.

The table below contains production information for 2022, 2021 and 2020 for the La Caridad processing facilities:

		2022	2021	2020	Variance 2022 - 2021	
					Volume	%
<i>Smelter</i>						
Total copper concentrate smelted	(kt)	1,052.0	1,047.3	1,029.5	4.7	0.4 %
Anode copper production	(kt)	287.1	289.0	285.3	(1.9)	(0.7)%
Average copper content in anode	(%)	99.43	99.46	99.45	(0.03)	(0.0)%
Average smelter recovery	(%)	96.80	96.3	96.3	0.5	0.5 %
Sulfuric acid production	(kt)	1,001.3	990.0	967.5	11.3	1.1 %
<i>Refinery</i>						
Refined cathode production	(kt)	245.7	242.7	240.4	3.0	1.2 %
Refined silver production	(000 kg)	266.5	236.7	252.8	29.8	12.6 %
Refined gold production	(Kg)	1,096.4	1,029.1	1,028.1	67.3	6.5 %
<i>Rod Plant</i>						
Copper rod production	(kt)	156.4	150.1	129.4	6.3	4.2 %

Key: kt = thousand tonnes

Kg = kilograms

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Pilares Project

Pilares is considered part of the La Caridad unit and ore from Pilares will be routed to the leach pads and processing facilities at the La Caridad operations. The Pilares mineral development project is located in northeastern Sonora, Mexico, about 266 kilometers northeast of the city of Hermosillo and 125 kilometers south of the city of Agua Prieta Sonora, Mexico, which is on the international U.S. – Mexico border. The Pilares project is located between 30°19' and 30°20' N, and between 109°38' and 109°37'47" W, at elevations ranging between 1,400 to 1,460 meters above mean sea level. It is about 6 kilometers from the La Caridad mining unit and 22 kilometers from the town of Nacoziari.

The mining claims held by Pilares project cover an area of about 143.3 hectares for exploration and exploitation activities. Surface rights are held by a combination of private ownership and agreements with the local ejido "Pilares", which consists of about 40 members. Ejidos are agrarian land grants held by a group of people. The agreements allow for exploration and mining activities, plus conservation of the historical town of Pilares. Additionally, the Pilares Project was included in the regional environmental permit obtained for the entire La Caridad complex dated September 2018 and valid for 60 years.

Geology

The La Caridad mining district, where the Pilares porphyry copper deposit is located, lies within the eastern section of the Sonora Basin and Range Province in Northern Mexico. Sustained magmatic activity along the North American Cordillera during the late Mesozoic through Paleogene resulted in the development of numerous porphyry copper deposits.

The local geology of the Pilares area consists of two main lithological packages, a volcanic sequence and a set of hypabyssal bodies that intrude the volcanic sequence. The volcanic sequence is comprised from the base to the top by the following units: andesitic flows from intercallations of Crystal Tuff, Tobaceous Sandstone, tuff-breccia (ignimbrite), basalt-andesite flows and Lapilli Tuffs. The Lapilli Tuff is composed of lapilli-sized volcanic fragments outcropping in the topographic highs and distributed in the central, southeastern and northeastern portion of the Pilares area. The Lapilli Tuff hosts the mineralized structure of the Pilares Breccia.

Mineral resources

The following table contains the summary of copper and molybdenum mineral resources for Pilares as of December 31, 2022, based on long-term price assumptions of \$3.80 and \$11.50 per pound, respectively:

Process	Classification	Amount (million tonnes)	Total copper	Copper oxide	Molybdenum grade	Contained copper (million pounds)	Contained molybdenum (million pounds)
Leach	Inferred	4.8	0.44 %	0.22 %	0.002 %	45.6	—
Mill	Inferred	71.8	0.56 %	0.05 %	0.005 %	879.9	7.7

- (1) Mineral resources are reported in situ and effective as at December 31, 2021 as reported in the Technical Report Summary dated February 24, 2022. Southern Copper has reported that mine development activity conducted at the site since that time has not materially impacted the total Mineral Resource estimates effective as at December 31, 2021. Therefore, the estimates as at December 31, 2021 are deemed to be current as at December 31, 2022. The QP has not visited the site since August 2021 and cannot independently confirm that the mine development activities have not independently impacted Mineral Resources.
- (2) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determination, please refer to Chapter 11 of the Pilares project technical report summary prepared by qualified persons, under Exhibit 96.8 of the Form 10-K/A filed by the Company on March 7, 2022.
- (3) There were no changes in resources with regard to 2021's figures. Exploration, development and technical studies are underway.

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El Pilar Project

The El Pilar Property is located in north central Sonora, Mexico, about 15 kilometers south of the international border with United States. The property is situated within lands of Ejido Miguel Hidalgo (also referred to as San Lazaro), in the Santa Cruz Municipality. The El Pilar property comprises 9,571.4 hectares in 19 concessions. These concessions are wholly owned by Recursos Stingray de Cobre S.A de C.V., our wholly owned Mexican subsidiary. Additionally, a total of 1,926 hectares of surface rights have been successfully negotiated with the Ejido Miguel Hidalgo, which allows for all required land ownership rights needed for project development.

The El Pilar deposit is located at the southwest margin of the Patagonia Mountains near the base of a mountain range.

The topography near the deposit permits sufficient surface space for a mining operation, leaching pads, waste disposal areas, and other facilities. The property can be reached by road from Hermosillo, Sonora in Mexico and from Tucson, Arizona in the United States. The route from Hermosillo to Miguel Hidalgo takes about 3.5 hours of driving time. The route from Tucson to Miguel Hidalgo is currently a two-hour drive. The site is a green-field mining site with no existing infrastructure. Experienced mining personnel and related contractors are available within driving distance.

The project area climate allows year-round mining and processing operations. A power line is located 3 km to the south, in the village of Miguel Hidalgo where SCC has an office and warehouse facilities, but the project will require the construction of a high voltage power line from the site to connect with the high voltage power lines accessible in Nogales, which is 28 km northwest of the property. A railroad is located 3 km south of the deposit. Construction of a new railway spur approximately 4 km in length is planned for the delivery of molten sulfur or sulfuric acid.

Geology

The deposit is located within the Sonora-Arizona Porphyry Copper Province, along the southwest flank of the Patagonia Mountains. The geology of the El Pilar property consists of Precambrian intrusive rocks overlain by Paleozoic sedimentary rocks. These units are overlain by Tertiary sedimentary rocks. Intrusives of granitic to monzonitic composition with some pegmatitic and aplitic facies intrude all the older units. Tertiary and Quaternary alluvial fan and alluvial wash sediments cover the flanks of the ranges and the intervening valleys.

The El Pilar copper deposit occurs within unconsolidated, poorly sorted, poorly bedded, proximal facies alluvial wash deposits that are overlain by dissected younger alluvial fan deposits. The copper bearing sediments at El Pilar are comprised solely of alluvial wash gravels deposited into a paleo topographic range-front depression. At the northern boundary of the deposit, these basin-fill sediments are juxtaposed against unmineralized Precambrian granitic rocks by an east-west to northwest-trending, south dipping zone of faulting and hydrothermal brecciation. Mineralization predominantly consists of the copper oxide mineral chrysocolla, which occurs as coatings on clasts of highly silicified breccia and as grains in the sedimentary gravel matrix.

Mineral resources

The following table contains the summary of copper mineral resources for El Pilar as of December 31, 2022, based on long-term price assumptions of \$3.80 per pound:

Copper	Amount (million tonnes)	Total copper	Soluble copper	Contained copper (million pounds)
Measured mineral resources	2.2	0.20 %	0.10 %	9.5
Indicated mineral resources	81.3	0.18 %	0.08 %	317.0
Measured + Indicated mineral resources	83.4	0.18 %	0.08 %	326.5
Inferred mineral resources	88.6	0.12 %	0.06 %	234.4

- (1) Mineral resources are reported in situ and effective as at December 31, 2021 as reported in the Technical Report Summary dated February 28, 2022. Southern Copper has reported that minor contractor activity

conducted at the site since that time has not materially impacted the total Mineral Resource estimates effective as at December 31, 2021. Therefore, the estimates as at December 31, 2021 are deemed to be current as at December 31, 2022. The QP has not visited the site since August 2021 and cannot independently determine whether the contractor activities have impacted the Mineral Resources.

- (2) Mineral resources are reported exclusive of mineral reserves.

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- (3) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determination, please refer to Chapter 11 of the El Pilar project technical report summary prepared by qualified persons, under Exhibit 96.9 of Form 10-K/A for the fiscal year ended December 31, 2021, filed on March 7, 2022.
- (4) There were no changes in resources with regard to 2021's figures. Technical Studies are underway.

Mineral reserves

The following table contains the summary of copper mineral reserves for El Pilar as of December 31, 2022, based on long-term price assumptions of \$3.30 per pound:

Copper	ROM Ore (million tonnes)	Copper grade	Contained copper (thousand tonnes)	Recovered copper (million pounds)
Proven mineral reserves	63	0.27 %	168	370
Probable mineral reserves	254	0.25 %	623	1,374
Total mineral reserves	317	0.25 %	790	1,744

- (1) Mineral reserves are effective as at December 31, 2021 as reported in the Technical Report Summary dated February 28, 2022. Southern Copper has reported that minor contractor activity conducted at the site since that time has not materially impacted the original Mineral Reserves estimates. Therefore, the estimates as at December 31, 2021 are deemed to be current as at December 31, 2022. The QP has not visited the site since August 2021 and cannot independently determine whether the contractor activities have impacted the Mineral Reserves.
- (2) The reference point for the estimate is delivery to the leach pad.
- (3) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determination, please refer to Chapter 12 of the La Caridad operations technical report summary prepared by qualified persons, under Exhibit 96.9 of the Company's Form 10-K/A for the fiscal year ended December 31, 2021, filed on March 7, 2022.
- (5) There were no changes in reserves with regard to 2021's figures. Technical Studies are underway.

El Arco Project

The El Arco deposit is located near the village of El Arco in Baja California, Mexico, which lies near the center of the Baja California Peninsula in the municipalities of San Quintin, Baja California and Mulegé, Baja California Sur, Mexico. Route 1 is the only paved highway connecting the northern and southern parts of the Baja Peninsula. El Arco located between the towns of Santa Rosalía and Guerrero Negro at kilometer 189. The El Arco site is accessed by taking Highway 1 approximately 30 kilometers south of the town of Guerrero Negro to the intersection with the highway MX 18, and following MX 18 for 42 kilometers east to the project site. Highway 1 is paved and in good condition and Highway 18 was originally paved but currently all pavement is gone, leaving a gravel roadbed.

The nearest port is Santa Rosalía on the Sea of Cortez, 240 km by road southeast of El Arco. We plan to construct a port at El Barril, located 70 km northeast of the proposed mine site. The site is currently a greenfields site with limited infrastructure that is only suitable to support exploration-level activities. Planned on-site infrastructure includes an open pit mine, two waste rock storage facilities, mill complex and oxide fine crushing facilities, temporary ore stockpile, heap leach facility, tailings storage facility, administration building, truck shop and warehouse, main 230 kV electrical substation and a water storage dam and reservoir.

We hold 11 mining concessions, covering 72,131 hectares. Surface rights in the deposit area are held by a combination of agrarian cooperatives (ejidos) and private owners. Project water is planned to be sourced from a desalination plant, to be constructed at El Barril. Additionally, we expect to obtain power from a private provider.

Geology

The El Arco deposit is considered to be an example of a porphyry copper deposit. The Alisitos arc is an approximately 300 × 30 kilometer oceanic arc terrane that accreted to the western edge of the Peninsular Ranges batholith within the

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North American Cordillera. A chain of granitic batholithic intrusions intrude the Alisitos Formation, and El Arco, the oldest known porphyry deposit in this chain, is located at the extreme southern end of the chain.

The El Arco area basement consists of serpentinite, with blocks of peridotite, pyroxenite and amphibolite that are tectonically overlain by diorites, gabbros, and rocks interpreted to be pillow lavas. These units are overlain by metavolcanic agglomerates, metagraywackes, meta-andesite flows and breccias, and thinly-bedded marble. Andesite flows in the upper part of this sequence host granodiorite porphyry intrusions that generated the El Arco deposit. Barren diabase dikes cut the andesite and granodiorite porphyry. All lithologies have been subject to greenschist facies metamorphism, characterized by development of chlorite–epidote–calcite–quartz. Mineralization at El Arco occurs in three sub-horizontal zones.

Mineral resources

The following table contains the summary of mineral resources for El Arco as of December 31, 2022, based on long-term price assumptions of \$3.80 and \$10.35 per pound for copper and molybdenum, respectively, and fixed over the 35-year expected mine life.

Mill plant	Amount (million tonnes)	Copper grades	Molybdenum grades	Gold grade (g/t)	Silver grade (g/t)	Contained copper (million pounds)	Contained molybdenum (million pounds)	Contained gold (million ounces)	Contained silver (million ounces)
Measured mineral resources	—	— %	— %	—	—	—	—	—	—
Indicated mineral resources	826.6	0.41 %	0.008 %	0.12	1.6	7,544.9	146.5	3.23	41.88
Measured + Indicated mineral resources	826.6	0.41 %	0.008 %	0.12	1.6	7,544.9	146.5	3.23	41.88
Inferred mineral resources	2,344.9	0.37 %	0.006 %	0.11	1.5	19,352.3	298.2	8.05	110.89

Leach plant	Amount (million tonnes)	Copper grades	Molybdenum grades	Gold grade (g/t)	Silver grade (g/t)	Contained copper (million pounds)	Contained molybdenum (million pounds)	Contained gold (million ounces)	Contained silver (million ounces)
Measured mineral resources	—	— %	— %	—	—	—	—	—	—
Indicated mineral resources	51.3	0.30 %	— %	—	—	335.3	—	—	—
Measured + Indicated mineral resources	51.3	0.30 %	— %	—	—	335.3	—	—	—
Inferred mineral resources	63.8	0.25 %	— %	—	—	350.9	—	—	—

- (1) Mineral resources are reported in situ and are current as at December 31, 2022.
- (2) Mineral resources are reported exclusive of mineral reserves.
- (3) Mineral resources are reported within a conceptual pit shell that is based on copper and molybdenum values only. The pit shell uses the following input parameters: metal prices of \$3.80/lb Cu and \$10.35/lb Mo; variable net smelter return cut-offs; mining recovery of 100%; metallurgical recoveries of 86% Cu, and 55% Mo for material sent to the mill facility, and recovery of 80% Cu (Total copper) for material sent to the heap leach pad; total mining costs (base, incremental and sustaining) of \$1.206/t mined; total mill process costs (base, sustaining, tailings, G&A and molybdenum plant) of \$7.80/t milled, total leaching costs (operating and SX-EW) of \$1.60/t leached; miscellaneous costs (closure, payments) of \$0.10/t processed; copper refining cost of \$0.09/lb, copper smelting cost of \$90/t concentrate, copper transport costs of \$107.69/t concentrate, molybdenum transport costs of \$73.67/t concentrate, and molybdenum refining/treatment cost of 12.50% (of molybdenum price). Mineral resources are constrained within a wireframe constructed at a 0.1% total copper cut-off grade.
- (4) Gold and silver are not used in the pit optimization. The gold and silver metallurgical recoveries for material that will be sent to the mill facility are forecast at 55.7% Au, and 50.2% Ag, respectively. Molybdenum, gold and silver are not expected to be recovered from the leach process.
- (5) Mineral resources are constrained within a wireframe constructed at a 0.1% total copper cut-off grade.
- (6) For further information on assumptions used in preparing the estimates, please refer to Chapter 11 of the El Arco project technical report summary prepared by qualified persons, under Exhibit 96.10 of the

Company's Form 10-K/A for the fiscal year ended December 31, 2021, filed on March 7, 2022.

- (7) There were no changes in mineral resources with regard to the figures reported in 2021.

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Mineral reserves

The following table contains the summary of copper mineral reserves for El Arco as of December 31, 2022, based on long-term price assumptions of \$3.30 and \$9.00 per pound for copper and molybdenum, respectively, and were fixed over the 35 year expected mine life.

Probable mineral reserves	Amount (million tonnes)	Copper grades	Molybdenum grades	Gold grade (g/t)	Silver grade (g/t)	Contained copper (million pounds)	Contained molybdenum (million pounds)	Contained gold (million ounces)	Contained silver (million ounces)
Sulfide mill	1,229.5	0.40 %	0.006 %	0.14	1.8	10,822	166.7	5.6	70.5
Oxide leach	140.5	0.27 %	— %	—	—	846	—	—	—

- (1) Mineral reserves are current as at December 31, 2022.
- (2) The reference point for the estimate is the point of delivery to the processing facility.
- (3) Mineral reserves are constrained within an optimized pit shell based on copper and molybdenum only.
- (4) The following parameters were used in estimation: assumption of open pit mining methods; assumption of heap leach and concentrate processing; copper price of \$3.30/lb, molybdenum price of \$9.00/lb; variable net smelter return cut-offs; mining recovery of 100%; metallurgical recoveries of 86% Cu, and 55% Mo for material sent to the mill facility, and recovery of 80% Cu (Total copper) for material sent to the heap leach pad; total mining costs (base, incremental and sustaining) of \$1.206/t mined; total mill process costs (base, sustaining, tailings, G&A and molybdenum plant) of \$7.80/t milled, total leaching costs (operating and SX-EW) of \$1.60/t leached; miscellaneous costs (closure, payments) of \$0.10/t processed; copper refining cost of \$0.09/lb, copper smelting cost of \$90/t concentrate, copper transport costs of \$107.69/t concentrate, molybdenum transport costs of \$73.67/t concentrate, and molybdenum refining/treatment cost of 12.50% (of molybdenum price).
- (5) Gold and silver are not used in the pit optimization. The gold and silver metallurgical recoveries for material that will be sent to the mill facility are forecast at 55.7% Au, and 50.2% Ag, respectively. Molybdenum, gold and silver are not expected to be recovered from the leach process.
- (6) For the leaching process, the internal copper cut-off was 0.049% while the breakeven copper cut-off was 0.057%.
- (7) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determination, please refer to Chapter 12 of the El Arco operations technical report summary prepared by qualified persons, under Exhibit 96.10 of the Company's Form 10-K/A for the fiscal year ended December 31, 2021, filed on March 7, 2022.
- (8) There were no changes in mineral reserves with regard to the figures reported in 2021.

MEXICAN IMMSA UNIT

Our IMMSA unit (underground mining poly-metallic division) owns five underground mining complexes situated in central and northern Mexico, three of which are currently operating. It produces zinc, lead, copper, silver and gold. These complexes include industrial processing facilities for zinc, lead, copper and silver. All of IMMSA's mining facilities employ exploitation systems and conventional equipment. We believe that all the plants and equipment are in satisfactory operating condition. IMMSA's principal mining facilities are Charcas, Santa Barbara, San Martin, Santa Eulalia and Taxco.

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The table below contains production information for 2022, 2021 and 2020 for our Mexican IMMSA unit:

		2022	2021	2020	Variance 2022 - 2021	
					Volume	%
Average annual operating days(*)		307	336	341		
Total material mined and milled	(kt)	4,100	3,965	4,242	135	3.4 %
Zinc:						
Average ore grade	(%)	1.79	2.04	2.03	(0.25)	(12.3)%
Average recovery	(%)	81.62	82.87	80.01	(1.25)	(1.5)%
Concentrate produced	(kt)	124.0	135.1	133.6	(11.1)	(8.2)%
Concentrate average grade	(%)	48.38	49.58	51.61	(1.20)	(2.4)%
Zinc in concentrate	(kt)	60.0	67.0	68.9	(7.0)	(10.4)%
Lead:						
Average ore grade	(%)	0.58	0.62	0.72	(0.04)	(6.5)%
Average recovery	(%)	69.49	69.20	66.93	0.29	0.4 %
Concentrate produced	(kt)	32.5	33.8	38.5	(1.3)	(3.8)%
Concentrate average grade	(%)	51.00	50.66	52.86	0.34	0.7 %
Lead in concentrate	(kt)	16.6	17.1	20.4	(0.5)	(2.9)%
Copper:						
Average ore grade	(%)	0.39	0.41	0.44	(0.02)	(4.9)%
Average recovery	(%)	56.71	53.71	55.02	3.00	5.6 %
Concentrate produced	(kt)	40.3	38.0	45.7	2.3	6.1 %
Concentrate average grade	(%)	22.65	22.94	22.52	(0.29)	(1.3)%
Copper in concentrate	(kt)	9.1	8.7	10.3	0.4	4.6 %
Silver:						
Average ore grade	(ounces)	2.13	2.17	2.58	(0.04)	(1.8)%
Average recovery	(%)	77.22	76.59	73.08	0.63	0.8 %
Concentrate average grade	(%)	34.3	31.9	36.6	2.4	7.5 %
Silver in concentrates	((000) ounces)	6,749.6	6,588.5	7,982.8	161.1	2.4 %

kt = thousand tonnes

(*) Weighted average annual operating days based on total material mined and milled in the three active mines: Charcas, Santa Barbara and San Martin.

Charcas

The Charcas mining complex is located approximately 110 kilometers north of the city of San Luis Potosi in the State of San Luis Potosi, Mexico. Charcas is connected to the state capital by a paved highway of 130 kilometers. It was discovered in 1573 and operations in the 20th century began in 1911. The complex includes three underground mines (San Bartolo, Rey-Reina and La Aurora) and one flotation plant that produces zinc, lead and copper concentrates with significant amounts of silver. The Charcas mine is characterized by low operating costs and good quality ores and is situated near the zinc refinery. Charcas is exploited underground by room and pillar with hydraulic cut and fill. The crushed ore is transported to the surface for processing in the flotation plant.

We currently hold 13 mining concessions over the Charcas property, which covers a total area of 88,643.26 hectares. Additionally, we own surface lands covering an area of 1,744.4 hectares with rights to conduct any work or exploration required to advance or continue of activities within the Charcas project. Water is obtained from three main sources: recovery of process water from the tailings dam, recovery of the working water from the mine and fresh water from concession wells. Additionally, the unit receives a power supply of 115,000 volts in two 7.5-Mega Volt-Amp (MVA) transformers, distributed to electrical substations located in the different areas of mining operation. Fuel comes from a local distribution point in the city of San Luis Potosi and is stored in a series of tanks located on the surface.

In October 2015, an earthquake damaged some underground facilities as well as the access to the mine. Consequently, normal mine operations were interrupted. In 2016, operations took place normally and a production compliance level of 97% was reached.

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The Charcas mining district is in the east-central part of the central mesa of Mexico, which is part of the larger metallogenic province of Sierra Madre. The mineral deposits found within the Charcas mining district are tertiary polymetallic skarn (silver, lead, zinc and copper) deposits hosted in carbonate rocks of the Jurassic-Cretaceous periods and in shales and sandstones of the Late Triassic. In the carbonate rocks, veins and mantos form the predominant mineralization, while less mineralized fractures tend to occur within the shales and sandstones. The varied style of mineralization largely corresponds to the lithological variety of units that serve as host rocks.

The Charcas intrusive complex ("CIC") was emplaced in Triassic to upper Cretaceous sedimentary rocks. Some dikes from the CIC have developed metamorphic halos with related polymetallic mineralization. There are two recognized stages of mineralization. In the first stage, the mineralization is enriched in silver, lead, and zinc and characterized with calcite and small quantities of quartz and chalcopyrite (CuFeS) present. In the second stage, the mineralization is copper and silver rich with lesser amounts of chalcopyrite. The mineralization also includes lead ore with associated silver, plus pyrite and only minor amounts of sphalerite (ZnS). The mineralization occurs as replacement sulfides in carbonate rocks and as filling fracture veins. The typical sulfides found at the Charcas include chalcopyrite, sphalerite, galena (PbS), and silver minerals.

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Mineral resources

The following table contains the summary of mineral resources for Charcas as of December 31, 2022, based on long-term metal price assumptions:

	2022				2021				Variation
	Metal price (per ounce)	Amount (thousand tonnes)	Grades (grams per tonne)	Metal content (thousand ounces)	Metal price (per ounce)	Amount (thousand tonnes)	Grades (grams per tonne)	Metal content (thousand ounces)	
Silver									
Measured mineral resources									
Indicated mineral resources	23.00	6,057	88	17,165	23.00	5,831	91	17,118	0.3%
Measured + Indicated mineral resources	23.00	6,057	88	17,165	23.00	5,831	91	17,118	0.3%
Inferred mineral resources	23.00	15,446	97	48,207	23.00	14,206	98	44,583	8.1%
	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Variation
Zinc									
Measured mineral resources									
Indicated mineral resources	1.32	6,057	3.13 %	189.7	1.32	5,831	3.45 %	201.3	(5.8)%
Measured + Indicated mineral resources	1.32	6,057	3.13 %	189.7	1.32	5,831	3.45 %	201.3	(5.8)%
Inferred mineral resources	1.32	15,446	2.70 %	416.6	1.32	14,206	2.76 %	392.1	6.2%
	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Variation
Lead									
Measured mineral resources									
Indicated mineral resources	1.04	6,057	0.39 %	23.5	1.04	5,831	0.42 %	24.5	(3.9)%
Measured + Indicated mineral resources	1.04	6,057	0.39 %	23.5	1.04	5,831	0.42 %	24.5	(3.9)%
Inferred mineral resources	1.04	15,446	0.39 %	60.1	1.04	14,206	0.36 %	50.9	18.1%
	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Variation
Copper									
Measured mineral resources									
Indicated mineral resources	3.80	6,057	0.54 %	32.6	3.80	5,831	0.53 %	30.9	5.6%
Measured + Indicated mineral resources	3.80	6,057	0.54 %	32.6	3.80	5,831	0.53 %	30.9	5.6%
Inferred mineral resources	3.80	15,446	0.54 %	84.0	3.80	14,206	0.57 %	81.4	3.1%

- (1) Mineral resources are reported in situ and are current as at December 31, 2022.
- (2) Mineral resources are reported exclusive of mineral reserves.
- (3) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determination, please refer to Chapter 11 of the Charcas operations technical report summary prepared by qualified persons, under Exhibit 96.11 to this Form 10-K.
- (4) Variations in mineral resources in 2022 were attributable to additional exploration drilling and production depletion in 2022.

Santa Barbara

The Santa Barbara mining complex is located approximately 26 kilometers southwest of the city of Hidalgo del Parral in southern Chihuahua, Mexico. The area can be reached via a paved road of from Hidalgo del Parral, a city on a federal highway. The area is also connected to the state capital of Chihuahua 250 km along Highway 24. It was discovered in 1536 and mining activities in the 20th century began in 1913. Santa Barbara includes three main underground mines (San Diego, Segovedad and Tecolotes) as well as a flotation plant and produces lead, copper and zinc concentrates, with significant amounts of silver.

IMMSA currently holds 33 mining concessions over the Santa Barbara property, covering a total area of 27,772.5082 hectares (ha), with the titles held 100% by the Company. There are also surface lands that cover an area of 20.92 hectares and are owned by IMMSA, which provide us within sufficient rights to any work or exploration that we require to carry out for the advancement and continuity of activities in the Santa Barbara property. There are an additional 371.07 hectares covered by a contract with the community of Santa Barbara that allows for any further work or exploration required.

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Due to the variable characteristics of the ore bodies, four types of mining methods are used: shrinkage stoping, long-hole drilled open stoping, cut-and-fill stoping and horizontal bench stoping. The ore, once crushed, is processed in the flotation plant to produce concentrates. All the water used in industrial operations at Santa Barbara comes from the mine and the concentrator plant, where a large part of this water is recovered from the tailings dam, creating a closed circuit for its proper use. Electricity is supplied by Eolica el Retiro, Energia Chihuahua, S.A. de C.V. and the CFE.

Geology

The pre-mineral rock types found at Santa Barbara consist of a thick calcareous shale formation and andesite flows. The post-mineral rock types consist of dikes and sills of rhyolite and diabase, a thin conglomerate formation, basalt flows, and unconsolidated stream sediments. Pre-mineral faulting took place in two stages, forming four fault systems. All faults within each system have similar strike and dip. Movement along these faults, vertical in the first-stage faults and horizontal in the second-stage faults, formed openings and breccia zones.

Hydrothermal solutions, emanating from depth, were introduced into the faults. The walls and breccia fragments within the faults were silicified, and the high-temperature silicates, garnet, pyroxene, and epidote were formed. Accompanying and following the formation of the silicates, the sulfides, such as sphalerite, galena, chalcopryrite, pyrite, and arsenopyrite, with associated gold and a silver mineral, were introduced with quartz, calcite, and fluorite. Most of these minerals replaced the silicates and altered shale. The parts of the faults where wide pre-mineral openings were located filled with quartz and a higher ratio of sulfides than in the narrow portions of the faults. Quartz, calcite, fluorite, and barite were among the last minerals deposited.

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Mineral resources

The following table contains the summary of mineral resources for Santa Barbara as of December 31, 2022, based on long-term metal price assumptions:

	2022				2021				Variation
	Metal price (per ounce)	Amount (thousand tonnes)	Grades (grams per tonne)	Metal content (thousand ounces)	Metal price (per ounce)	Amount (thousand tonnes)	Grades (grams per tonne)	Metal content (thousand ounces)	
Silver									
Measured mineral resources		—	—	—		—	—	—	—
Indicated mineral resources	23.00	23,470	100	75,343	23.00	22,534	101	72,822	3.5%
Measured + Indicated mineral resources	23.00	23,470	100	75,343	23.00	22,534	101	72,822	3.5%
Inferred mineral resources	23.00	19,664	100	63,479	23.00	19,357	102	63,722	(0.4)%
	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Variation
Zinc									
Measured mineral resources		—	—	—		—	—	—	—
Indicated mineral resources	1.32	23,470	3.17 %	744.2	1.32	22,534	3.24 %	730.6	1.9%
Measured + Indicated mineral resources	1.32	23,470	3.17 %	744.2	1.32	22,534	3.24 %	730.6	1.9%
Inferred mineral resources	1.32	19,664	4.03 %	792.3	1.32	19,357	3.89 %	753.3	5.2%
	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Variation
Lead									
Measured mineral resources		—	—	—		—	—	—	—
Indicated mineral resources	1.04	23,470	1.89 %	442.6	1.04	22,534	1.92 %	433.7	2.1%
Measured + Indicated mineral resources	1.04	23,470	1.89 %	442.6	1.04	22,534	1.92 %	433.7	2.1%
Inferred mineral resources	1.04	19,664	2.36 %	464.9	1.04	19,357	2.35 %	454.2	2.4%
	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Variation
Copper									
Measured mineral resources		—	—	—		—	—	—	—
Indicated mineral resources	3.80	23,470	0.52 %	122.9	3.80	22,534	0.53 %	120.2	2.2%
Measured + Indicated mineral resources	3.80	23,470	0.52 %	122.9	3.80	22,534	0.53 %	120.2	2.2%
Inferred mineral resources	3.80	19,664	0.56 %	109.8	3.80	19,357	0.55 %	105.8	3.9%
	Metal price (per ounce)	Amount (thousand tonnes)	Grades (grams per tonne)	Metal content (thousand ounces)	Metal price (per ounce)	Amount (thousand tonnes)	Grades (grams per tonne)	Metal content (thousand ounces)	Variation
Gold									
Measured mineral resources		—	—	—		—	—	—	—
Indicated mineral resources	1,725	23,470	0.28	210	1,725	22,534	0.30	219	(4.1)%
Measured + Indicated mineral resources	1,725	23,470	0.28	210	1,725	22,534	0.30	219	(4.1)%
Inferred mineral resources	1,725	19,664	0.17	107	1,725	19,357	0.19	117	(8.5)%

(1) Mineral resources are reported in situ and are current as at December 31, 2022.

(2) Mineral resources are reported exclusive of mineral reserves.

- (3) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determination, please refer to Chapter 11 of the Santa Barbara operations technical report summary prepared by qualified persons, under Exhibit 96.12 to this Form 10-K.
- (4) Variations in mineral resources in 2022 were attributable to additional exploration drilling and production depletion in 2022.

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San Martin

The San Martin mining complex is located in the municipality of Sombrerete in the northwestern part of the state of Zacatecas, Mexico. It is located approximately 185 kilometers from the city of Zacatecas. It was discovered in 1555 and mining operations in the 20th century began in 1949. The complex includes an underground mine and a flotation plant. The ore body contains lead, copper and zinc concentrates, with significant amounts of silver. The state of Zacatecas has an extensive infrastructure of roads and highways that connect the San Martin to the rest of the country. The San Martin mining unit has a paved road to Highway 45, which leads to the town of Sombrerete, 17 kilometers away. Highway 45 then connects Sombrete to Fresnillo, Zacatecas and Durango at distances of 110,171 and 125 kilometers, respectively.

The San Martin property consists of 73 mining concessions with a total surface of 10,360.95 hectares, with the titles held by IMMSA. Water is currently extracted via three deep wells in the Proaño area, storing it in a pool adjacent to the wells. Electric power is provided by the national grid via a 45 kilometer extension. The unit receives a power supply of 115 KV, the main substation has a capacity of 24 MWA.

After eleven years of an illegal stoppage, we resumed control of the San Martin mine in August 2018. The San Martin facilities deteriorated during this period and we undertook a major renovation to restart operations in the second quarter of 2019, with a total expense of approximately \$90.5 million. Production at this mine was restored to full capacity at the end of the third quarter of 2019.

Geology

San Martín mine is located in the Central Mesa of Mexico, between Sierra Madre Occidental and Sierra Madre Oriental. The Cuesta del Cura (Upper Cretaceous) limestone is the main sedimentary formation in the district. This is a sequence of shallow marine limestone and black chert which is overlain by Indura Formation that consists of alternating shales and fine-grained clayey limestones.

The mineral deposits in this district are associated with replacement veins and bodies formed in the skarn in close proximity to the Cerro de la Gloria granodiorite intrusion. The main mineralized veins are San Marcial, Ibarra and Gallo-Gallina which are oriented parallel to the intrusive contact and have thicknesses varying from 0.4 m to 4 m and horizontal extents of up to 1,000 m to the east/northeast from the granodiorite contact. The mineralization is associated with massive and disseminated sulfides occurring in replacement ore bodies between the main veins and in the skarn and include chalcopyrite (CuFeS), sphalerite (ZnS), galena (PbS), bornite (Cu₅FeS₄), tetrahedrite (Cu₁₂FeSb₄S₁₃), native Silver (Ag), Pyrite (FeS), arsenopyrite (FeAsS) and stibnite (Sb₂S₃).

[Table of Contents](#)*Mineral resources*

The following table contains the summary of mineral resources for San Martin as of December 31, 2022, based on long-term metal price assumptions:

	2022				2021				Variation
	Metal price (per ounce)	Amount (thousand tonnes)	Grades (grams per tonne)	Metal content (thousand ounces)	Metal price (per ounce)	Amount (thousand tonnes)	Grades (grams per tonne)	Metal content (thousand ounces)	
Silver									
Measured mineral resources		—	—	—		—	—	—	—
Indicated mineral resources	23.00	11,542	92	34,311	23.00	11,728	97	36,647	(6.4)%
Measured + Indicated mineral resources	23.00	11,542	92	34,311	23.00	11,728	97	36,647	(6.4)%
Inferred mineral resources	23.00	9,176	112	32,894	23.00	8,369	107	28,716	14.5%
	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Variation
Zinc									
Measured mineral resources		—	—	—		—	—	—	—
Indicated mineral resources	1.32	11,542	2.48 %	285.9	1.32	11,728	2.65 %	310.9	(8.1)%
Measured + Indicated mineral resources	1.32	11,542	2.48 %	285.9	1.32	11,728	2.65 %	310.9	(8.1)%
Inferred mineral resources	1.32	9,176	2.05 %	187.8	1.32	8,369	2.18 %	182.7	2.8%
	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Variation
Lead									
Measured mineral resources		—	—	—		—	—	—	—
Indicated mineral resources	1.04	11,542	0.49 %	56.6	1.04	11,728	0.55 %	64.2	(11.9)%
Measured + Indicated mineral resources	1.04	11,542	0.49 %	56.6	1.04	11,728	0.55 %	64.2	(11.9)%
Inferred mineral resources	1.04	9,176	0.62 %	56.4	1.04	8,369	0.61 %	51.2	10.1%
	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Metal price (per pound)	Amount (thousand tonnes)	Grades	Metal content (thousand tonnes)	Variation
Copper									
Measured mineral resources		—	—	—		—	—	—	—
Indicated mineral resources	3.80	11,542	0.61 %	70.2	3.80	11,728	0.62 %	73.2	(4.1)%
Measured + Indicated mineral resources	3.80	11,542	0.61 %	70.2	3.80	11,728	0.62 %	73.2	(4.1)%
Inferred mineral resources	3.80	9,176	0.49 %	45.4	3.80	8,369	0.53 %	44.3	2.6%

- (1) Mineral resources are reported in situ and are current as at December 31, 2022.
- (2) Mineral resources are reported exclusive of mineral reserves.
- (3) For further information on assumptions used in preparing the estimates, including a detailed description of the cut-off determination, please refer to Chapter 11 of the San Martin operations technical report summary prepared by qualified persons, under Exhibit 96.13 to this Form 10-K.
- (4) Variations in mineral resources in 2022 were attributable to additional exploration drilling and production depletion in 2022.

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Santa Eulalia

The mining district of Santa Eulalia is located in the central part of the state of Chihuahua, Mexico, approximately 26 kilometers east of the city of Chihuahua, and is connected to the city of Chihuahua by a paved road (highway no. 45). It was discovered in 1590 but exploitation began in 1870. The main mines in Santa Eulalia are The Buena Tierra mine and the San Antonio mine.

Regarding its geology, the majority of mineralization corresponds to ore skarns: silicoaluminates of calcium, iron and manganese with variable quantities of lead, zinc, copper and iron sulfides. Economic ore include sphalerite (ZnS), galena (PbS) and small quantities of pyrrargyrite (Ag₃SbS₃).

In the first quarter of 2020, the Santa Eulalia mine temporarily suspended its operations due to flooding. We are currently evaluating different options to supply the Santa Eulalia concentrator. We are also evaluating drainage at the mining facilities and determining if it is possible to sell the water for agricultural or other uses.

Taxco

The Taxco mining complex has been on strike since July 2007. It is located on the outskirts of the city of Taxco in the northern part of the state of Guerrero, Mexico. It was discovered in 1519 and mining activities in the 20th century began in 1918. The complex includes several underground mines (San Antonio, Guerrero and Remedios) and a flotation plant. The ore contains lead and zinc concentrates, with some amounts of gold and silver.

There was no mine exploration drilling at Taxco during the three-year period ended December 31, 2022 due to the strikes. Please see Note 13 “Commitments and Contingencies—Labor matters” to the consolidated financial statements.

Processing Facilities—San Luis Potosi

Our San Luis Potosi electrolytic zinc refinery is located in the city of San Luis Potosi, in the state of San Luis Potosi, Mexico. The city of San Luis Potosi is connected to our refinery by a major highway.

Zinc Refinery

The San Luis Potosi electrolytic zinc refinery was built in 1982 and was designed to produce 105,000 tonnes of refined zinc per year by treating up to 200,000 tonnes of zinc concentrate from our own mines, principally Charcas, which is located 113 kilometers from the refinery. The refinery produces special high-grade zinc (99.995%), high-grade zinc (over 99.9%) and zinc-based alloys with aluminum, lead, copper or magnesium in varying quantities and sizes depending on market demand. Refined silver and gold production is obtained from tolling services provided by a third party mining company.

The electrolytic zinc refinery has an acid plant, a steam recovery boiler and a roaster. There is also a calcine processing area with five leaching stages: neutral, hot acid, intermediate acid, acid, purified fourth and jarosite, as well as two stages for solution purifying.

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The table below contains production information for 2022, 2021 and 2020 for our San Luis Potosi zinc refinery:

		2022	2021	2020	Variance 2022 - 2021	
					Volume	%
Total zinc concentrate treated	(kt)	215.3	203.6	211.6	11.7	5.7 %
Refined zinc produced	(kt)	99.9	92.7	102.4	7.2	7.8 %
Sulfuric acid produced	(kt)	182.1	172.4	181.0	9.7	5.6 %
Refined silver produced	(kt)	18.9	19.1	16.3	(0.2)	(1.0)%
Refined gold produced	(k)	21.5	20.5	21.0	1.0	4.9 %
Refined cadmium produced	(kt)	0.6	0.5	0.6	0.1	20.0 %
Average refinery recovery	(%)	93.1	91.9	93.4	1.2	1.3 %

kt = thousand tonnes

Nueva Rosita Coal and Coke Complex

The Nueva Rosita coal and coke complex began operations in 1924 and is located in the state of Coahuila, Mexico, on the outskirts of the city of Nueva Rosita near the Texas border. It included: (a) an underground coal mine, which has been closed since 2006; (b) an open-pit mine with a yearly capacity of approximately 350,000 tonnes of coal; (c) a coal washing plant with a capacity of 900,000 tonnes per year that produces high quality clean coal; and d) a re-engineered and modernized 21 ovens coke facility capable of producing 100,000 tonnes of coke per year (metallurgical, nut and fine) of which, 95,000 tonnes are metallurgical coke. The complex also has a by-product plant to clean the coke gas oven in which tar, ammonium sulfate and light crude oil are recovered and two boilers, which produce 80,000 pounds of steam that is used in the by-products plant. In September 2017, a decision was made by the Company to close the coke plant and to initiate the cleaning and remediation process with a current budget of \$14.0 million. As of December 31, 2022, expenses totaled \$8.8 million.

In July 2019, the Company decided to suspend coal mining operations. On February 19, 2020, the Company announced the decision to return the underground coal mine (the Olivo concession), which had been closed since 2006, to the Mexican government in response to a request of the President of Mexico to resume efforts to locate the remains of miners lost in a 2006 mining accident. On February 20, 2020 the Company presented the offer to return the concession to the General Direction of Mines. On September 3, 2020, the authorities accepted the offer. On August 2021, the Company donated the land and buildings located in the mine to the CFE.

MINERAL RESOURCES AND RESERVES

Mineral resources are concentrations or occurrences 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 mineralization, taking into account relevant factors such as cut-off 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. Such a deposit cannot qualify as recoverable proven and probable mineral reserves until engineering, legal and economic feasibility are confirmed based upon a comprehensive evaluation of development and operating costs, grades, recoveries and other material factors. Mineral resources include measured, indicated and inferred mineral classifications.

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

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resource or an inferred mineral resource, a measured mineral resource may be converted to a proven mineral reserve or to a probable mineral reserve.

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.

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, may not be converted to a mineral reserve and no assurance can be given that the estimated mineral resources not included in mineral reserves will become proven and probable mineral reserves.

Mineral reserves are estimates of tonnage and grade or quality of indicated 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. Mineral reserves, as used in the mineral reserve data presented in this report, means the economically mineable part of a measured or indicated resource, which includes diluting materials and allowances for losses that may occur when the material is mined or extracted. Proven mineral reserve is the economically mineable part of a measured mineral resource and can only result from conversion of a measured mineral resource. Probable mineral reserve is the economically mineable part of an indicated and, in some cases, a measured mineral resource.

Our estimates of mineral reserves and mineral resources have been prepared in accordance with the disclosure requirements of S-K 1300. Pursuant to SEC guidance, qualified persons used forecast metal prices for mineral resource and mineral reserve estimation and the economic analysis. These projected prices were derived from forecasts from several analysts and banks. The commodity price forecast covered the period 2021–2025 and provided a long-term forecast for 2025 onward. As of December 31, 2022, we considered \$3.30 per pound of copper and \$10.00 per pound of molybdenum.

Our engineering department reviews reserve computations in detail on an annual basis. In addition, our engineering department reviews the computation when changes in assumptions occur. Changes can occur for price or cost assumptions, results in field drilling or new geotechnical parameters. We also engage third party consultants to review mine planning procedures.

We periodically reevaluate estimates of our mineral reserves, which represent our estimate as to the amount of unmined copper remaining in our existing mine locations that can be produced and sold at a profit. These estimates are based on engineering evaluations derived from samples of drill holes and other openings, combined with assumptions about copper market prices and production costs at each of our mines. See Risk Factors in Item 1A for a discussion of risks associated with our estimates of mineral reserves and resources.

The qualified persons responsible for mineral reserve and resource estimates are as follows:

Peruvian open-pit:

Cuajone mine – Wood Group USA Inc.

Toquepala mine - Wood Group USA Inc.

[Table of Contents](#)[Tia Maria project:](#)

Wood Group USA Inc.

[Chancas project:](#)

Wood Group USA Inc.

[Michiquillay project:](#)

Wood Group USA Inc.

[Mexican open-pit:](#)

La Caridad - Golder Associates USA Inc.

Buenavista del Cobre - Golder Associates USA Inc.

[IMMSA unit:](#)

Santa Barbara - SRK Consulting (U.S.), Inc.

Charcas - SRK Consulting (U.S.), Inc.

San Martin – SRK Consulting (U.S.), Inc.

[El Arco project:](#)

Wood Group USA Inc.

[El Pilar project:](#)

M3 Engineering & Technology Corp., Ingenieria Geomex, S.A. de C.V., and Golder Associates USA Inc.

[Pilares project:](#)

Golder Associates USA Inc.

MINERAL RESERVES AND MINERAL RESOURCES INTERNAL CONTROLS DISCLOSURE

In 2021, we adopted the new requirements of S-K 1300. As part of this process, we developed an implementation plan with a high-level cross functional team, which performed a completeness assessment over the Technical Report Summaries for each material property prepared by a third-party Qualified Person. Additionally, we established new policies, procedures and internal controls related to the new regulation. The review includes, among others, an analysis of the reasonableness of technical information, a thorough review of the mineral resources and reserves estimates, and the economic analysis which supports these estimates.

In addition, as part of the adoption of the requirements of S-K 1300, a significant component of our internal controls and quality assurance procedures on the information from material properties was performed by qualified persons responsible for mineral reserve and resource estimates. These include an intensive review of our procedures, as well as database verification, validation of mineral resource and reserve estimates, and the elaboration of technical report summaries. These controls and methods help to validate the reasonableness of the estimates. The effectiveness of the controls are reviewed periodically to address changes in conditions and the degree of compliance with policies and procedures.

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EXPLORATION ACTIVITIES

We are engaged in ongoing extensive exploration to locate additional ore bodies in Peru, Mexico, Argentina, Ecuador and Chile. We also conduct exploration in the areas of our current mining operations. We invested \$41.7 million on exploration programs in 2022, \$43.4 million in 2021 and \$32.6 million in 2020 and we expect to spend approximately \$55.6 million on exploration programs in 2023.

Currently, we directly control 237,102 hectares and 493,117 hectares of exploration concessions in Peru and Mexico, respectively. We also currently hold 239,077 hectares, 30,568 hectares and 7,299 hectares of exploration concessions in Argentina, Chile and Ecuador, respectively.

Peru

In 2022, we drilled 4,500 meters at the Chapara project, where we confirm the presence of copper porphyry mineralization and the occurrence of a copper oxide potential that is under evaluation.

For 2023, we plan to conduct a diamond drilling program of 5,000 meters at the Chapara project. Additionally, we will conduct a diamond drilling program of 5,000 meters to explore prospective areas with copper mineralization, mainly located in southern Peru. We will also continue conducting prospection programs at other Peruvian metallogenic zones, which are associated primarily with copper porphyry systems.

Mexico

In addition to exploration and drilling programs at existing mines, we are currently conducting exploration to locate mineral deposits at various other sites in Mexico. The following are some of the more significant exploration projects:

The Chalchihuites. This is a skarn type deposit located in the state of Zacatecas, close to the San Martin mining unit. Drilling programs conducted between 1980 and 2014 identified 12.6 million of mineralized material with an average silver content of 110 grams per ton, 2.66% of zinc, 0.37% of lead and 0.67% of copper. Current results indicate that mineralization consists of a complex mixture of oxides and sulfides of silver, lead and zinc that requires additional metallurgical research. In 2017, we started a new drilling program of 21,000 meters to continue metallurgical research and testing. In 2018, this exploration program, which included 48 drill holes was completed. This program has been carried out in compliance with QA/QC protocol, which includes testing the specific density of different rocks and mineralized types and geochemistry sampling. In addition, 5,000 meters of core sample from the drilling program were analyzed with a hyperspectral scanner, and a study of 498 kilometers of hyperspectral imaging was conducted to recognize the geology of the entire Chalchihuites mineral district. In 2019, with the complete data from the diamond drilling program, we made a geological model of the Cronos deposit using Leapfrog software. In 2020, the sample design for a metallurgical test was completed and three metallurgical samples were delivered to an external consultant. Metallurgical tests for silver recovery will continue with semi-sulfide and oxide ores. In 2022, we drilled 2,856 meters and included 10 drill holes in the area known as Virgen Morena. Metallurgical laboratory tests continue and the final report is expected to be available at the beginning of 2023.

Campo Medio (Santa Eulalia). This prospect is located close to the west border of the Santa Eulalia mine. Results of geological surveying and drilling programs indicated that its mineralization consists of sulfides with 2.85 meters of width, 219 grams of silver, 6.60% of lead and 7.55% of zinc. Exploration at the Campo Medio area did not render positive results and exploration activities were suspended. In order to continue exploration towards the southern end of the San Antonio mine, the area must be drained because it was affected by flooding at Santa Eulalia. In 2022, this situation continued.

Chile

El Salado (Montonero). A copper-gold prospect located in the Atacama region, northern Chile has been under exploration for copper and molybdenum porphyry since 2014. In 2016 and 2017, we conducted a diamond drilling program of 22,108 meters and finished the conceptual study. In 2022, we concluded the pre-feasibility study of the project. We are currently evaluating the next steps for the project.

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In 2022, we conducted diamond drilling programs of 3,382 meters and 2,400 meters at the Taruca and Chapalele prospects respectively, both located in the Atacama Region, Province of Huasco. These prospects have copper porphyry characteristics; however the results did not indicate the occurrence of mineralization of economic interest.

Other Chilean Prospects. In 2023, we plan to conduct a diamond drilling programs of 4,000 meters at the Pajonal prospect; located in the Atacama region.

Ecuador

Chaucha. The Ruta del Cobre (“Copper Road”) project is located west of Cuenca city and south of Guayaquil. The mineralization in this area is characteristic of a copper-molybdenum porphyry system which is being explored since 2014. In 2021, the infill-drilling program was concluded, totaling 121,000 meters of diamond drilling. With this information, we prepared the project’s feasibility study, which concluded in 2022. We are currently evaluating the next steps for the project.

Argentina

In 2011, we started exploration activities in Argentina in the Neuquen province. In 2015, we performed geological exploration in the Salta, Rio Negro and Neuquen provinces where we expected to locate copper porphyry with precious metals epithermal systems. Starting 2017, we performed prospection and geological evaluation work in the provinces of San Juan and Rio Negro with the exploration of silver-gold epithermal systems through geological mapping and surface sampling. In 2021, superficial geological and geochemical work was concluded at the Cerro La Mina and Tanque Negro prospects.

Cañadon del Moro. This is a low sulfidation epithermal deposit with high longitude seams located in the Rio Negro province. We are conducting a 3,500 diamond drilling program in this prospect, of which we have drilled 1,300 meters through 2021. In 2022, we conducted a diamond drilling program of 8,864 meters to evaluate the resource. In 2023, we plan to prepare the Conceptual Study.

In 2023, we expect to complete surface geochemical and geological mapping work at the La Hoyada and La Chilena prospects, both located in the province of Catamarca. We also plan to conduct a diamond drilling program of 2,000 meters and 3,000 meters at these prospects respectively.

ITEM 3. LEGAL PROCEEDINGS

Reference is made to the information under the caption “Litigation Matters” in the consolidated financial statement Note 13 “Commitments and contingencies.”

ITEM 4. MINE SAFETY DISCLOSURE

Not applicable.

[Table of Contents](#)**PART II****ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES**

SCC COMMON STOCK:

SCC's common stock is traded on the New York Stock Exchange ("NYSE") and the Lima Stock Exchange ("BVL"). SCC's common stock symbol is SCCO on both the NYSE and the BVL. At December 31, 2022, there were 863 holders of record of our common stock.

DIRECTORS' STOCK AWARD PLAN:

The following table contains certain information related to our shares held as treasury stock for the Directors' stock award plan as of December 31, 2022:

Equity Compensation Plan Information

<u>Plan Category</u>	<u>Number of securities to be issued upon exercise of outstanding options</u>	<u>Weighted-average exercise price of outstanding options</u>	<u>Number of securities remaining available for future issuance</u>
Directors' stock award plan	N/A	N/A	183,200

For additional information see Note 14—"Stockholders Equity—Directors' Stock Award Plan."

SCC COMMON STOCK REPURCHASE PLAN:

In 2008, our BOD authorized a \$500 million share repurchase program that has since been increased by the BOD and is currently authorized to \$3 billion. Pursuant to this program, the Company purchased common stock as shown in the table below. These shares are available for general corporate purposes. The Company may purchase additional shares of its common stock from time to time, based on market conditions and other factors. This repurchase program has no expiration date and may be modified or discontinued at any time.

<u>Period</u>		<u>Total Number of Shares Purchased</u>	<u>Average Price Paid per Share</u>	<u>Total Number of Shares Purchased as Part of Publicly Announced Plan</u>	<u>Maximum Number of Shares that May Yet Be Purchased Under the Plan @ \$60.39(1)</u>	<u>Total Cost (\$ in millions)</u>
<u>From</u>	<u>To</u>					
2008	2012	46,914,486	\$ 18.72	46,914,486		878.1
2013:		10,245,000	27.47	57,159,486		281.4
2014:		22,711,428	30.06	79,870,914		682.8
2015:		36,689,052	27.38	116,559,966		1,004.4
2016:		2,937,801	24.42	119,497,767		71.7
Total purchased		<u>119,497,767</u>	\$ 24.42		1,351,769	<u>\$ 2,918.4</u>

(1) NYSE closing price of SCC common shares at December 31, 2022.

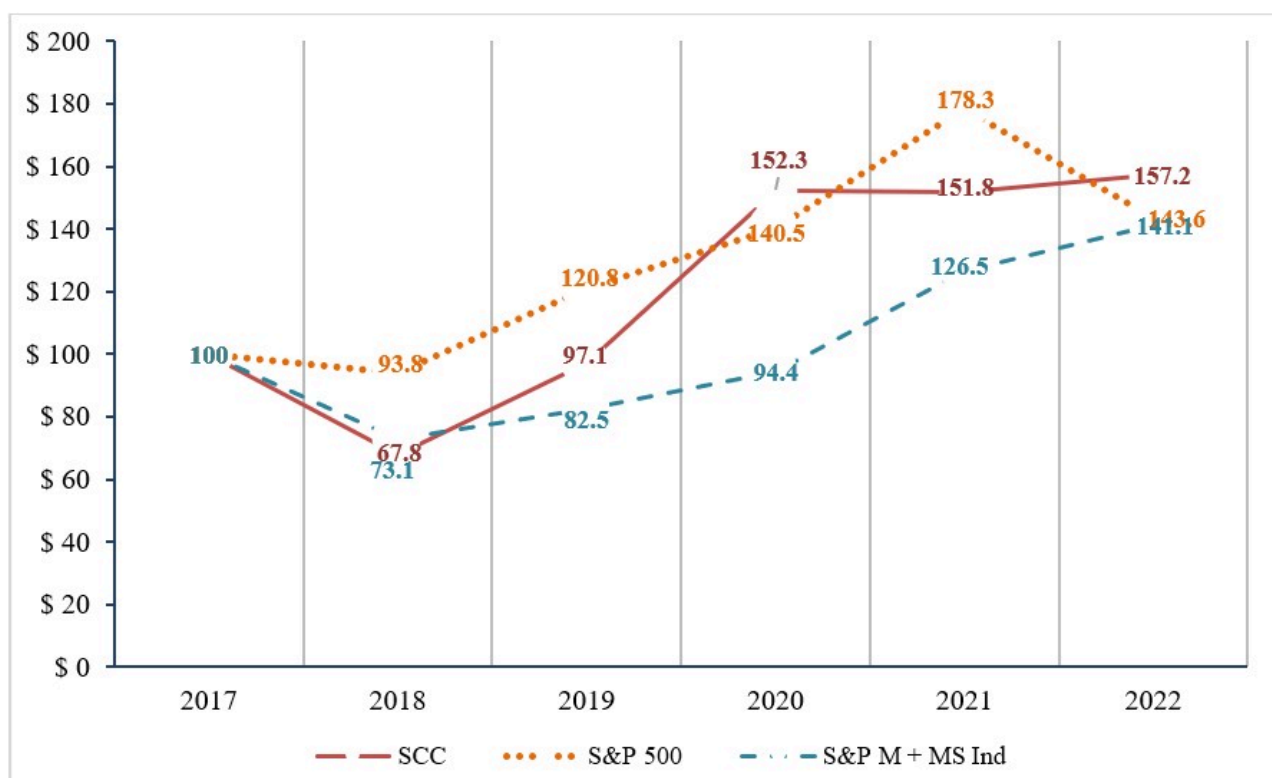
The SCC share repurchase program has registered no activity since the third quarter of 2016. The NYSE closing price of SCC common shares at December 31, 2022 was \$60.39 and the maximum number of shares that the Company could purchase at that price was 1.4 million.

As a result of the repurchase of shares of SCC's common stock, Grupo Mexico's direct and indirect ownership was 88.9% as of December 31, 2022 and 2021.

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SHAREHOLDER RETURN PERFORMANCE PRESENTATION

Set forth below is a line graph comparing the yearly change in the cumulative total returns on the Company's common stock against cumulative total return on the S&P 500 Stock Index and the S&P Metals and Mining Select Industry Index for the five-year period ending December 31, 2022. The chart below analyzes the total return on SCC's common stock for the period commencing December 31, 2017 and ending December 31, 2022, compared to the total return of the S&P 500 and the S&P Metals and Mining Select Industry Index for the same five-year period.

Comparison of Five Year Cumulative Total Return *
SCC Stock, S&P 500 Index and S&P Metals and Mining Select Industry Index **



* Total return assumes reinvestment of dividends

** The comparison assumes \$100 invested on December 31, 2017

	Total Return per Year				
	2018	2019	2020	2021	2022
SCC	(33.0)%	44.6 %	59.0 %	(0.4)%	3.5 %
S&P 500	(6.2)%	28.9 %	16.3 %	26.9 %	(19.4)%
S&P M + MS	(27.0)%	13.0 %	14.4 %	34.0 %	11.5 %

The foregoing Performance Graph and related information shall not be deemed “soliciting material” or “filed” with the SEC or subject to Section 18 of the Securities Exchange Act of 1934, as amended, nor shall such information be incorporated by reference into any future filing under the Securities Act of 1933 or Securities Exchange Act of 1934, each as amended, except to the extent that the Company specifically incorporates it by reference into such filing.

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ITEM 7. MANAGEMENT’S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

EXECUTIVE SUMMARY

This Management’s Discussion and Analysis of Financial Condition and Results of Operations relates to and should be read together with our Audited Consolidated Financial Statements as of and for each of the years in the three-year period ended December 31, 2022. Therefore, unless otherwise noted, the discussion below of our financial condition and results of operations is for Southern Copper Corporation and its subsidiaries (collectively, “SCC,” “Southern Copper,” “the Company,” “our,” and “we”) on a consolidated basis for all periods. Our financial results may not be indicative of our future results.

This discussion contains forward-looking statements that are based on management’s current expectations, estimates and projections about our business and operations. Our actual results may differ materially from those currently anticipated and expressed in the forward-looking statements as a result of a number of factors. See Item 1 “Business—Cautionary Statement.”

EXECUTIVE OVERVIEW

Business: Our business is primarily the production and sale of copper. In the process of producing copper, a number of valuable metallurgical by-products are recovered, which we also produce and sell. Market forces outside of our control largely determine the sale prices for our products. Our management, therefore, focuses on value creation through copper production, cost control, production enhancement and maintaining a prudent capital structure to remain profitable. We endeavor to achieve these goals through capital spending programs, exploration efforts and cost reduction programs. Our aim is to remain profitable during periods of low copper prices and to maximize financial performance in periods of high copper prices. We are one of the world’s largest copper mining companies in terms of production and sales and our principal operations are in Peru and Mexico. We also have an active ongoing exploration program in Chile, Argentina and Ecuador.

We believe we hold one of the world’s largest copper reserves and resources positions. As of December 31, 2022, our copper mineral reserves, calculated at a copper price of \$3.30 per pound, totaled 99,502 million pounds of contained copper, at the following locations:

<u>Copper contained in ore reserves</u>	<u>Million pounds</u>
Mexican open-pit	34,941
Peruvian operations	45,287
Development projects	19,274
Total	99,502

Outlook: Various key factors affect our outcome. These include, but are not limited to, the following:

- **Sales structure:** In the last three years, approximately 79.0% of our revenues have come from the sale of copper; 10.0% from molybdenum; 5.0% from silver; 3.0% from zinc; and 3.0% from various other products, including gold, sulfuric acid and other materials.
- **Copper:** In the last quarter of 2022, the LME copper price decreased from an average of \$4.40 per pound in the fourth quarter of 2021 to \$3.63 (-17.5%), reflecting concerns about a possible recession in the US and Europe, that were partially offset by good news on a possible Chinese recovery. Current prices for copper are over \$4.10 per pound, reflecting a relatively more positive outlook for this market, due to the following factors:
 - A reduction in global inflation, which may slow down or even stop the interest rate hike cycle led by the FED and the ECB.
 - The turnaround in China’s policies regarding COVID-19 after the government embraced proven practices. Stimulus measures have been implemented to shore up a weak real estate market.

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- The most relevant market intelligence houses for the copper market are expecting a market in balance or a small surplus for 2023. This assumes a growth in demand of about 2-3% this year.
- There is uncertainty regarding future production growth in Chile and Peru, which together represent about 40% of the global supply.
- Inventories dropped and stood at 241,000 tonnes as of December 31, 2022. This level represents 3.5 days of consumption, which is extremely low.

It is important to emphasize that copper plays a leading role in the global shift to clean energy, which correlates positively with our assertion that the underlying demand for copper will be strong in the long-term. In this scenario, we believe the current cycle of low prices will be short-lived.

- Molybdenum: Represented approximately 11.9% of our sales in 2022. Molybdenum prices averaged \$18.61 per pound in 2022, compared to \$15.51 in 2021, a 20.0% increase.

Regarding this by-product, we believe that prices will be supported by global supply shortages and strong demand in China and the U.S.

- Silver: We believe that silver prices will have support due to its industrial uses as well as being perceived as a value shelter in times of economic uncertainty. Silver represented 4.3% of our sales in 2022.
- Zinc: Average zinc prices increased by 16.2% in 2022 compared with 2021. We consider zinc has very good long-term fundamentals due high levels of industrial consumption and expected production. Zinc represented 2.7% of our sales in 2022.
- Production: For 2023, we expect our copper production to reach 925,800 tonnes, an increase of 3.5% over final production in 2022. This growth will unfold as we get Peruvian production back on track and will be complemented by new production in our Mexican operations through our Pilares and Buenavista Zinc Concentrator projects.

We also expect to produce 22,200 tonnes of molybdenum, which represents a decrease of 15.3% compared to 2022 production levels. In 2023, we expect to produce 20.5 million ounces of silver, and increase of 10.2% compared with 2022 production. Additionally, we expect to produce 116,800 tonnes of zinc from our mines, up 94.7% from 2022's production level. This growth will be driven by production start-up at the Buenavista Zinc operations and by recovery at the IMMSA mines, where better ore grade areas have been identified. For 2024 and on we expect to produce over 200,000 tonnes per year.

- Capital investments: Capital investments were \$948.5 million for 2022. This is 6.3% higher than in 2021, and represented 36.2% of net income. Our growth program to develop the full production potential of our Company is underway. We are currently developing a new organic growth plan whose goal is to increase our copper volume production to 1.7 million tonnes by the end of this decade.

For 2023, the Board of Directors approved a capital investment program of \$1,099.6 million.

KEY MATTERS

Below, we discuss several matters that we believe are important to understand our results of operations and financial condition. These matters include (i) earnings, (ii) production, (iii) "operating cash costs" as a measure of our performance, (iv) metal prices, (v) business segments, (vi) the effect of inflation and other local currency issues and (vii) our capital investment and exploration program.

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Earnings: The table below highlights key financial and operational data of our Company for the three years ended December 31, 2022 (in millions, except copper price and per share amounts):

	2022	2021	2020	Variance	
				2022 - 2021	2021 - 2020
Copper price					
LME	4.00	4.23	2.80	(0.23)	1.43
Pounds of copper sold	1,920.4	2,052.9	2,305.9	(132.5)	(253.0)
Net sales	\$10,047.9	\$ 10,934.1	\$ 7,984.9	\$ (886.2)	\$ 2,949.2
Operating income	\$ 4,435.8	\$ 6,065.1	\$ 3,120.7	\$ (1,629.3)	\$ 2,944.4
Income before income taxes	\$ 4,247.8	\$ 5,696.8	\$ 2,745.8	\$ (1,449.0)	\$ 2,951.0
Net income attributable to SCC	\$ 2,638.5	\$ 3,397.1	\$ 1,570.4	\$ (758.6)	\$ 1,826.7
Earnings per share	\$ 3.41	\$ 4.39	\$ 2.03	\$ (0.98)	\$ 2.36
Dividends per share	\$ 3.50	\$ 3.20	\$ 1.50	\$ 0.30	\$ 1.70

Net sales in 2022 of \$10.0 billion were close to our historical high in 2021 of \$10.9 billion. This decrease was driven by lower copper (-6.5%), molybdenum (-13.4%) and silver (-1.9%) sales volumes, and by a drop in copper (-5.4% - LME) and silver (-13.6%) prices; this effect was slightly offset by an increase in zinc (+10.5%) sales volumes and by higher prices for molybdenum (+20.0%) and zinc (+16.2%). Net sales in 2021 of \$10.9 billion were the highest in our history and exceeded those recorded in 2020 by \$2,949.2 million. Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Key Matters, Earnings on the 2021 Form 10-K for details on variations between 2021 and 2020.

The two largest components of operating costs and expenses are cost of sales and depreciation, amortization and depletion. In 2022, cost of sales increased by \$754.7 million and depreciation, amortization and depletion fell \$9.7 million. The increase in cost of sales in 2022 was mainly due to a significant increase in fuel, energy and operating contractors costs, an increase in the cost of metals purchased from third parties, growth in workers participation; a drop in inventory consumption and foreign currency effects. Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Key Matters, Earnings on the 2021 Form 10-K for details on variations between 2021 and 2020.

Net income attributable to SCC in 2022 was 22.3% below 2021's net income; this was mainly due to higher costs of sales and a slight reduction in sales volumes. Net income attributable to SCC in 2021 was 116.3% higher than the figure reported in 2020; this was mainly due to higher metal prices and our strict cost control measures.

Production: The table below contains mine production data of our Company for the three years ended December 31, 2022:

	2022	2021	2020	Variance			
				2022 - 2021		2021 - 2020	
				Volume	%	Volume	%
Copper (in million pounds)	1,972.5	2,112.5	2,207.6	(140.0)	(6.6)%	(95.1)	(4.3)%
Molybdenum (in million pounds)	57.8	66.7	66.7	(8.9)	(13.3)%	—	— %
Zinc (in million pounds)	132.3	147.6	152.0	(15.3)	(10.4)%	(4.4)	(2.9)%
Silver (in million ounces)	18.6	19.0	21.5	(0.4)	(2.1)%	(2.5)	(11.6)%

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The table below contains copper production data from each of our mines for the three years ended December 31, 2022:

Copper (in million pounds):	2022	2021	2020	Variance			
				2022 - 2021		2021 - 2020	
				Volume	%	Volume	%
Toquepala	444.2	505.7	562.4	(61.5)	(12.2)%	(56.7)	(10.1)%
Cuajone	309.4	372.6	371.8	(63.2)	(17.0)%	0.8	0.2 %
La Caridad	246.5	282.4	298.8	(35.9)	(12.7)%	(16.4)	(5.5)%
Buenavista	952.3	932.6	951.9	19.7	2.1 %	(19.3)	(2.0)%
IMMSA	20.1	19.2	22.7	0.9	4.8 %	(3.5)	(15.4)%
Total mined copper	1,972.5	2,112.5	2,207.6	(140.0)	(6.6)%	(95.1)	(4.3)%

2022 compared to 2021:

Copper mine production in 2022 fell 6.6% to 1,972.5 million pounds, down from 2,112.5 million pounds in 2021. This decrease was attributable to a decrease in production at the Cuajone mine (-17.0%; due to stoppage), a decrease in production at Toquepala mine (-12.2%; lower ore grades) and a drop in production at the La Caridad mine (-12.7%; lower ore grades). This was offset by a slight increase in production at the Buenavista operations (+2.1%; SX-EW production) and IMMSA unit (+4.8% higher ore grades)

Molybdenum production decreased 13.3% to 57.8 million pounds, down from 66.7 million pounds in 2021. This decrease was due to a reduction in production at our Toquepala (-27.8%; lower grades), Cuajone (-13.5%; lower recovery) and La Caridad (-6.3%; lower recovery) mines; this was offset by an increase in production at our Buenavista operations (+2.8%).

Zinc production fell 10.4% in 2022, driven by decreases in production at our Charcas (-16.0%) and Santa Barbara (-11.0%) operations due to lower ore grades.

Mined silver production fell 2.1% in 2022 in YoY terms; this was mainly due to a decrease in production at our Toquepala (17.2%), Cuajone (-14.6%) and La Caridad (-6.3%) operations, which was partially offset by an increase in production at the Buenavista (+9.1%) and IMMSA (+2.4%) operations.

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Key Matters, Production on the 2021 Form 10-K for details on variations between 2021 and 2020.

Operating Cash Costs: An overall benchmark used by us and a common industry metric to measure performance is operating cash costs per pound of copper produced. Operating cash cost is a non-GAAP measure that does not have a standardized meaning and may not be comparable to similarly titled measures provided by other companies. This non-GAAP information should not be considered in isolation or as substitute for measures of performance determined in accordance with GAAP. A reconciliation of our operating cash cost per pound of copper produced to the cost of sales (exclusive of depreciation, amortization and depletion) as presented in the consolidated statement of earnings is presented under the subheading, "Non-GAAP Information Reconciliation" on page 118. We disclose operating cash cost per pound of copper produced, both before and net of by-product revenues.

We define *operating cash cost per pound of copper produced before by-product revenues* as cost of sales (exclusive of depreciation, amortization and depletion), plus selling, general and administrative charges, treatment and refining charges net of sales premiums; less the cost of purchased concentrates, workers' participation and other miscellaneous charges, including royalty charges, and the change in inventory levels; divided by total pounds of copper produced by our own mines.

In our calculation of operating cash cost per pound of copper produced, we exclude depreciation, amortization and depletion, which are considered non-cash expenses. Exploration is considered a discretionary expenditure and is also excluded. Workers' participation provisions are determined on the basis of pre-tax earnings and are also excluded. Additional exclusions from operating cash costs are items of a non-recurring nature and the mining royalty charge as it is based on various calculations of taxable income, depending on which jurisdiction, Peru or Mexico, is imposing the

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charge. We believe these adjustments will allow our management and stakeholders to see a presentation of our controllable cash cost, which we believe is one of the lowest of all copper-producing companies of similar size.

We define *operating cash cost per pound of copper produced net of by-product revenues* as operating cash cost per pound of copper produced, as defined in the previous paragraph, less by-product revenues and net revenue (loss) on sale of metal purchased from third parties.

In our calculation of operating cash cost per pound of copper produced, net of by-product revenues, we credit against our costs the revenues from the sale of all our by-products, including, molybdenum, zinc, silver, gold, etc. and the net revenue (loss) on sale of metals purchased from third parties. We disclose this measure including the by-product revenues in this way because we consider our principal business to be the production and sale of copper. As part of our copper production process, much of our by-products are recovered. These by-products, as well as the processing of copper purchased from third parties, are a supplemental part of our production process and their sales value contribute to covering part of our incurred fixed costs. We believe that our Company is viewed by the investment community as a copper company, and is valued, in large part, by the investment community's view of the copper market and our ability to produce copper at a reasonable cost.

We believe that both of these measures are useful tools for our management and our stakeholders. Our cash costs before by-product revenues allow us to monitor our cost structure and address areas of concern within operating management. The measure operating cash cost per pound of copper produced net of by-product revenues is a common measure used in the copper industry and is a useful management tool that allows us to track our performance and better allocate our resources. This measure is also used in our investment project evaluation process to determine a project's potential contribution to our operations, its competitiveness and its relative strength in different price scenarios. The expected contribution of by-products is generally a significant factor used by the copper industry to determine whether to move forward or not in the development of a new mining project. As the price of our by-product commodities can have significant fluctuations from period to period, the value of its contribution to our costs can be volatile.

Our operating cash cost per pound of copper produced, as defined above, is presented in the table below for the three years ended December 31, 2022:

Operating cash cost per pound of copper produced(1) (In millions, except cost per pound and percentages)							
	2022	2021	2020	2022 - 2021		2021 - 2020	
				Value	%	Value	%
Total operating cash cost before by-product revenues	\$ 3,825.7	\$ 3,357.4	\$ 2,923.7	\$ 468.3	13.9 %	\$ 433.7	14.8 %
Total by-product revenues	\$(2,355.8)	\$(1,997.7)	\$(1,455.9)	\$(358.1)	17.9 %	\$(541.8)	37.2 %
Total operating cash cost net of by-product revenues	\$ 1,469.9	\$ 1,359.7	\$ 1,467.8	\$ 110.2	8.1 %	\$(108.1)	(7.4)%
Total pounds of copper produced(2)	1,894.7	2,041.7	2,136.1	(147.0)	(7.2)%	(94.4)	(4.4)%
Operating cash cost per pound before by-product revenues	\$ 2.02	\$ 1.64	\$ 1.37	\$ 0.38	22.8 %	\$ 0.27	19.7 %
By-products per pound revenues	\$ (1.24)	\$ (0.97)	\$ (0.68)	\$ (0.27)	27.1 %	\$ (0.29)	42.6 %
Operating cash cost per pound net of by-product revenues	\$ 0.78	\$ 0.67	\$ 0.69	\$ 0.11	16.5 %	\$ (0.02)	(2.9)%

(1) These are non-GAAP measures, see page 118 for reconciliation to GAAP measure.

(2) Net of metallurgical losses.

2022 compared to 2021:

As seen in the table above, our per pound cash cost before by-product revenues in 2022 was 22.8% higher than that recorded in 2021. This result was mainly attributable to an increase in production costs and to the unit cost effect generated by a decrease in pounds of copper produced (-7.2%). Our cash cost per pound net of by-product revenues for

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2022 was 16.5% above that seen for the same period of 2021 and was primarily driven by an increase in production costs and to the unit cost effect generated by a 7.2% decrease in pounds of copper produced. This result was partially offset by an increase in the by-product revenue credits.

Please see Management’s Discussion and Analysis of Financial Condition and Results of Operations, Key Matters, Operating Cash Costs on the 2021 Form 10-K for details on variations between 2021 and 2020.

Metal Prices: The profitability of our operations is dependent on, and our financial performance is significantly affected by, the international market prices for the products we produce, especially for copper, molybdenum, zinc and silver.

We are subject to market risks arising from the volatility of copper and other metals prices. For instance, during the period from January 2013 through December 2022, the London Metal Exchange (LME) copper settlement price varied from a low of \$1.96 per pound in 2016 to a record high of \$4.87 per pound in 2022, and the Metals Week Molybdenum Dealer Oxide weekly average price ranged from a low of \$4.30 per pound in 2015 to a high of \$31.85 per pound in 2022. Metal prices historically have been subject to wide fluctuations and are affected by numerous factors beyond our control, as described further in Item 1A Risk Factors. These factors, which affect each commodity to varying degrees, include international economic and political conditions, levels of supply and demand, the availability and cost of substitutes, inventory levels maintained by producers and others and, to a lesser degree, inventory carrying costs and currency exchange rates. In addition, the market prices of certain metals have on occasion been subject to rapid short-term changes due to economic concerns and financial investments.

For 2023, assuming that expected metal production and sales are achieved; 2022 tax rates are unchanged and giving no effects relative to potential hedging programs, metal price sensitivity factors indicate the following change in estimated annual net income attributable to SCC resulting from metal price changes:

	<u>Copper</u>	<u>Molybdenum</u>	<u>Zinc</u>	<u>Silver</u>
Change in metal prices (per pound except silver—per ounce)	\$ 0.10	\$ 1.00	\$ 0.10	\$ 1.00
Change in net earnings (in millions)	\$ 117.7	\$ 29.5	\$ 21.2	\$ 12.3

Business Segments: We view our Company as having three reportable segments and manage it on the basis of these segments. These segments are (1) our Peruvian operations, (2) our Mexican open-pit operations and (3) our Mexican underground operations, known as our IMMSA unit. Our Peruvian operations include the Toquepala and Cuajone mine complexes and the smelting and refining plants, industrial railroad and port facilities that service both mines. Our Mexican open-pit operations include La Caridad and Buenavista mine complexes, the smelting and refining plants and support facilities, which service both mines. Our IMMSA unit includes five underground mines and several industrial processing facilities.

Segment information is included in our review of “Results of Operations” in this item and also in Note 19 “Segment and Related Information” of the consolidated financial statements.

Inflation and Exchange Rate Effect of the Peruvian sol and the Mexican peso: Our functional currency is the U.S. dollar and our revenues are primarily denominated in U.S. dollars. Significant portions of our operating costs are denominated in Peruvian sol and Mexican pesos. Accordingly, when inflation and currency devaluation/appreciation of the Peruvian and Mexican currency occur, our operating results can be affected. In recent years, exchange rate volatility has been high but has had a limited effect on our results. Please see Item 7A “Quantitative and Qualitative Disclosures about Market Risk” for more detailed information.

Capital Investment Program: We made capital investments of \$948.5 million in 2022 and \$892.3 million in 2021. In general, the capital investments and projects described below are intended to increase production, decrease costs or address social and environmental commitments.

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The table below contains information on our capital investments for the three years ended December 31, 2022 (in millions):

	<u>2022</u>	<u>2021</u>	<u>2020</u>
<i>Peruvian projects:</i>			
Toquepala expansion project	\$ 6.6	\$ 21.8	\$ 5.1
Quebrada Honda dam expansion	20.3	86.3	30.9
Relocation of facilities at Toquepala	6.3	23.8	6.6
Toquepala mine truck acquisition	—	—	9.7
Fresh water pipeline replacement at Suches	10.6	6.2	14.3
Tailings disposal—Quebrada Honda dam	1.5	0.8	0.4
Ilo sulfuric acid plant N°1 modification	—	0.2	2.0
Building of the containment dike N°4 at Quebrada Santallana	0.7	6.5	9.5
Other projects	104.5	28.8	21.5
Sub-total projects	<u>150.5</u>	<u>174.4</u>	<u>100.0</u>
Maintenance and replacement	196.3	150.6	109.4
Net change in capital expenditures incurred but not yet paid	8.2	(4.1)	(14.4)
Total Peruvian expenditures	<u>355.0</u>	<u>320.9</u>	<u>195.0</u>
<i>Mexican projects:</i>			
New Buenavista concentrator	15.0	18.9	68.3
Buenavista Zinc project	99.8	126.1	58.4
Pilares Mine	29.6	30.9	33.4
Expansion of mine pit at Buenavista	11.3	24.6	23.9
Lime plant - Sonora	19.3	30.7	9.3
Solutions system improvements of Tinajas	0.2	0.7	10.0
Quebalix IV	6.7	2.8	0.1
New tailing disposal deposit at Buenavista mine	27.3	59.7	27.0
Over elevation of tailings deposit N° 7 at La Caridad mine	2.8	1.4	11.0
Sonora River water restitution system in Moritas Basin	—	—	—
San Martin mine restoration	1.6	20.7	21.1
Other projects	169.8	59.2	17.9
Sub-total projects	<u>383.4</u>	<u>375.7</u>	<u>280.4</u>
Maintenance and replacement	212.2	184.0	132.5
Net change in capital expenditures incurred but not yet paid	(2.1)	11.7	(15.7)
Total Mexican expenditures	<u>593.5</u>	<u>571.4</u>	<u>397.2</u>
Total capital investments	<u>\$ 948.5</u>	<u>\$ 892.3</u>	<u>\$ 592.2</u>

In 2023, we plan to invest \$1,099.6 million in capital projects. In addition to our ongoing capital maintenance and replacement spending, our principal capital programs include the following:

Projects in Mexico:

Buenavista Zinc - Sonora: This project is located within the Buenavista deposit, where a new concentrator is being built. This facility has a production capacity of 100,000 tonnes of zinc and 20,000 tonnes of copper per year. We have completed the engineering study and the project has all the necessary permits. When operating, this facility will double the Company's zinc production capacity and will provide more than 2,000 operational jobs. We expect to initiate operations in the second half of 2023. As of December 31, 2022, we have invested most of the \$416 million budget.

Pilares - Sonora: Located six kilometers from La Caridad, this project consists of an open-pit mine operation with an annual production capacity of 35,000 tonnes of copper in concentrate. This project will significantly improve the overall mineral ore grade (combining the 0.78% expected from Pilares with 0.29% from La Caridad). The budget for Pilares is \$159 million, most of which has already been invested. Pilares is currently operating and delivering copper mineral oxides to the SX-EW facilities of the Caridad operation. We expect to produce mineral for the Caridad concentrator at full capacity in the second quarter of 2023.

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El Pilar - Sonora: This low-capital intensity copper greenfield project is strategically located in Sonora, Mexico, approximately 45 kilometers from our Buenavista mine. Its copper oxide mineralization contains estimated proven and probable reserves of 317 million tonnes of ore with an average copper grade of 0.249%. We anticipate that El Pilar will operate as a conventional open-pit mine with an annual production capacity of 36,000 tonnes of copper cathodes. This operation will use highly cost efficient and environmentally friendly SX-EW technology. The budget for El Pilar is \$310 million. The results from experimental pads in leaching process have confirmed adequate levels of copper recovery. The basic engineering study is finished and the Company continues developing the project and engage in onsite environmental activities. The SX-EW plant EPCM project has been awarded to a contractor and has started. We expect production to begin in 2024 and mine life is estimated at 13 years.

Lime plant - Sonora: As part of our cost improvement projects, we built a new lime plant with a production capacity of 600 metric tonnes per day, which will be the largest lime plant of Mexico. This facility will allow us to reduce to approximately 50% our current lime cost at our Mexican operations. The total budget for the plant is \$65.5 million, of which we have invested \$62.6 million as of December 31, 2022. The furnace of the plant started operations in the second quarter of 2022, complying with the performance tests.

Projects in Peru:

Quebrada Honda dam expansion – Tacna: This project aims to enlarge the main and lateral dams in Quebrada Honda and includes the relocation and repowered of some facilities due to dam growth and implementation of other facilities for water recovery, among other factors. As of December 31, 2022, the drainage works and removal of Eolic material for the main and lateral dam had been completed; complementary operational works are underway and expected to finish in the first quarter 2023. This project has a total budget of \$174.4 million, of which we have invested \$153.6 million as of December 31, 2022.

Tia Maria - Arequipa: This greenfield project, located in Arequipa, Peru, will use state of the art SX-EW technology with the highest international environmental standards to produce 120,000 tonnes of SX- EW copper cathodes per year. SX-EW facilities are the most environmentally friendly in the industry as they do not require a smelting process and therefore, do not release any emissions into the atmosphere.

The Company has been consistently working to promote the welfare of the Islay province population. As part of these efforts, we have implemented successful social programs in education, healthcare and productive development to improve the quality-of-life in the region. We have also promoted agricultural and livestock activities in the Tambo Valley and supported growth in manufacturing, fishing and tourism in Islay.

We reiterate our view that the initiation of construction activities at Tia Maria will generate significant economic opportunities for the Islay province and the Arequipa region. Given the current Peruvian economic situation, it is crucial to move ahead on projects that will stimulate a sustainable growth cycle. We will make it a priority to hire local labor to fill the 9,000 jobs that we expect to generate during Tia Maria's construction phase. Additionally, from day one of our operations, we will generate significant contributions to revenues in the Arequipa region.

Tia Maria's project budget is approximately \$1.4 billion, of which \$329.8 million had been invested as of December 31, 2022 (Property net book value is \$294.4 million).

Potential projects:

We have a number of other projects that we may develop in the future. We continuously evaluate new projects on the basis of our long-term corporate objectives, strategic and operating fit, expected return on investment, required investment, estimated production, estimated cash-flow profile, social and environmental considerations, among other factors. All capital spending plans will continue to be reviewed and adjusted to respond to changes in the economy and market conditions.

El Arco - Baja California: This is a world-class copper deposit located in the central part of the Baja California peninsula with ore reserves of over 1,230 million tonnes with an average ore grade of 0.40% and 141 million tonnes of leach

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material with an average ore grade of 0.27%. The project includes an open-pit mine with a combined concentrator and SX-EW operations. Annual production is expected to total 190,000 tonnes of copper and 105,000 ounces of gold. The Company has completed the environmental baseline study for the mine and industrial facilities and is reviewing the basic engineering analysis to request the environmental impact permits.

Los Chancas—Apurimac: This greenfield project, located in Apurimac, Peru, is a copper and molybdenum porphyry deposit. Current estimates of indicated copper mineral resources are 98 million tonnes of oxides with a copper content of 0.45% and 52 million tonnes of sulfides with a copper content of 0.59%. The Los Chancas project envisions an open-pit mine with a combined operation of concentrator and SX-EW processes to produce 130,000 tonnes of copper and 7,500 tonnes of molybdenum annually. The estimated capital investment is \$2,600 million and the project is expected to be in operation in 2030. In 2022, we continued to engage in social and environmental improvements for the local communities and worked on the project's environmental impact assessment.

As of December 31, 2022, part of the project's land continued to be occupied by illegal miners, some of whom have irregularly registered their stakes in the "Integral Registry of Mining Formalization" (REINFO). The Company has filed criminal complaints and other legal remedies, which have annulled the claims of 70 illegal miners while five cases remain open.

Michiquillay Project—Cajamarca: In June 2018, Southern Copper signed a contract for the acquisition of the Michiquillay project in Cajamarca, Peru. Michiquillay is a world class mining project with inferred mineral resources of 2,288 million tonnes with an estimated copper grade of 0.43%. When developed, we expect Michiquillay to produce 225,000 tonnes of copper per year (along with by-products of molybdenum, gold and silver) for an initial mine life of more than 25 years and at a competitive cash-cost. We estimate an investment of approximately \$2.5 billion will be required and expect production start-up by 2032. Michiquillay will become one of Peru's largest copper mines and will create significant business opportunities in the Cajamarca region; generate new jobs for the local communities; and contribute with taxes and royalties to the local, regional and national governments.

In 2021, the Company signed Social Agreements with the Michiquillay and the Encañada Communities. In addition, on October 1, 2021, the Peruvian Ministry of Energy and Mines approved the semi-detailed Environmental Impact Study for the project.

In 2022, in accordance with our social agreements with the Michiquillay and La Encañada communities, the Company hired unskilled labor and paid for the use of surface land. In the last quarter of 2022, the Company informed the Peruvian Ministry of Energy and Mines that it had begun exploration activities and initiated an assessment of existing mineral resources at depth. The Company will continue to make surface land payments in 2023 and plans to support social programs in both communities as it rolls out additional exploration activities.

The above information is based on estimates only. We cannot make any assurances that we will undertake any of these projects or that the information noted is accurate.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE ("ESG")

Sustainability is at the core of our ESG strategy. We are committed to the United Nations Sustainable Development Goals (SDGs) and to the Paris Agreement. In 2022 AMC, our holding corporation, adhered to the United Nations Global Compact, which is the world's largest corporate sustainability initiative. This step reaffirms our commitment to align our policies, strategies, and operations with the Compact's Ten Principles, whose objective is to address issues in the realm of human rights, labor rights, the environment and anti-corruption. By aligning our efforts with the UN Global Compact, we can continue to contribute the progress in achieving the 2030 Agenda for Sustainable Development and Paris Agreement goals.

SCC is improving its ESG performance by adopting the industry's best practices, which includes offering the investment community and other stakeholders transparent information about our sustainability efforts. Our progress on this front and others has been recognized by S&P Global, which included SCC in the new *S&P/BVL Peru General ESG index* in April

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2022. This index is the first of its kind in the Peruvian market and recognizes a total of 17 companies that meet high standards for environmental, social and governance management.

The Company's on-going ESG improvements led S&P to upgrade its Sustainability Assessment from 61/100 points in 2021 to 69/100 in 2022 (13% YoY increase). These results put SCC among the top 8% of best performers in the mining sector and places the Company 50% above the average rating. This evolution has been driven by positive performance in areas such as cybersecurity, water management, operations closure, occupational health and safety, among others. These efforts have also led to our inclusion in the Dow Jones Sustainability index for the MILA region's successive assessments since 2019 and for the second consecutive year (beginning in 2021), we earned a place the S&P Global's Sustainability Yearbook.

In line with the industry's best practices, SCC's Board of Directors approved the creation of a new Sustainability Committee chaired by an independent director. The purpose of this Committee is to support the Company's Board of Directors in developing and monitoring its compliance with ongoing ESG commitments in the ambits of the environment; health; safety and wellbeing of people and communities; human rights; and corporate governance. This is a significant step in our pledge to create robust and strong ESG performance. The Sustainable Development Committee has been holding quarterly meetings and has reported significant progress in terms of our main performance indicators and in implementing recommendations to continue building our climate change strategy.

As part of our efforts to follow best practices, we continue to certify our environmental and occupational health and safety management systems (ISO 14001 and ISO 45001). In 2022, our Santa Barbara and San Martin mines, the Maritime Terminal of Guaymas, our Metallurgical plant Complex in Sonora, the Zinc Electrolytic Refinery, and the Metallurgical Complex in Ilo obtained ISO 45001. This year, the following operations received ISO 14001 certification for environmental management systems: La Caridad Mine, the Lime Plant in Sonora, the Maritime Terminal of Guaymas, the Zinc Electrolytic Refinery, the Metallurgical Complex in Ilo, the Central Workshop, and the Charcas unit, which was the first of our underground mines to achieve this recognition. Our objective is to ensure that all of our mining operations are ISO 14001 and 45001 certified by the first quarter of 2023.

The open pit mine La Caridad and the Sonora Metallurgical Complex (smelter and refinery) received Copper Mark certification. Both units were assessed by an independent assurance system to demonstrate that SCC's copper is produced responsibly and to highlight the Company's contributions to achieving the Sustainable Development Goals of the United Nations in five main areas: business and human rights, community, working conditions, environment, and governance. SCC's goal is to ensure that copper production at all our units meet The Copper Mark criteria. Additionally, La Caridad and the Metallurgical Complex received The Molybdenum Mark and The Zinc Mark respectively.

Our holding company, Grupo Mexico, has been expanding our sustainability policies, which can be reviewed at <https://www.gmexico.com/en/Pages/Politicsds.aspx>. In 2022, the Grupo Mexico Mining Division also published a Code of Conduct for Business Partners, which provides details on the standards that must be met when participating in the Company's supply chain. The areas covered include: (i) ethics and integrity; (ii) human rights; (iii) labor practices; (iv) occupational health and safety; (v) community outreach; (vi) environment; (vii) product quality; and (viii) risk management.

To prevent serious incidents and minimize impacts in the case of occurrence, we are implementing a Critical Risk Registry, in line with the ICMM Health and Safety Critical Control Management Good Practice Guide and relative to twenty groups of environmental, health and safety operational risks. We are ensuring that the barriers and controls are measurable and auditable according to specific performance criteria, including a clear assignment of responsibilities at the execution, supervision and verification levels. These efforts include designing an internal digital tool to monitor operational risks at all our mining units.

In 2022, MAPFRE-Peru awarded our SCC Toquepala unit with an "Award for Safety Excellence in 2021," in recognition of the effectiveness of the Comprehensive System for Occupational Safety and Health Management implemented at this mine and throughout the organization.

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The Metallurgical Complex in Sonora, where we smelt and refine material mined from the region was recognized in the ranking of the 10 Best Places to Work for Women, positioning it as the “Employer of Choice” for the best professionals in the country. This industrial complex also received the 2021 National Export Award in the category of Large Industrial Exporting Companies for its contribution to foreign trade and international business in Mexico. This distinction recognizes SCC’s responsible production of essential raw materials, environmental preservation efforts; and the economic benefits and support it provides to bolster the well-being of workers and their families.

HEALTH AND SAFETY

The health and safety of our employees is our priority. Therefore, respecting human rights and preserving the health, safety and wellbeing of our employees and contractors constitute core values at SCC and are embedded in all of our activities. Safety at work is of paramount importance to SCC and is everyone’s responsibility. All employees are aware of this fact and are expected to follow policies and procedures to ensure physical integrity and preserve our installations . Please consult Grupo Mexico Sustainability Report at <https://www.gmexico.com/en/Pages/development.aspx> to further information on SCC’s performance with regard to health and safety.

In 2022, the Mexican Government awarded our Caridad metallurgical operation, the distinction of “Safe and Healthy Workplace” for implementing improvements on safety, health and wellbeing of our workers while bolstering the productivity and quality of the workplace. Our precious metals plant, which is part of the La Caridad complex, received the Casco de Plata (Silver Helmet) in the category “Smelters with less than 500 workers,” which was awarded by the Mining Chamber of Mexico in recognition of our ranking as the best performing plant on the occupational accident index for 2021.

In the framework of the XVI National Competition of Underground Mining Rescues, First Aid and Hazardous materials, the Mining Chamber of Commerce of Mexico (CAMIMEX) and the National Council to Regulate and Certify Workplace Practices (CONOCER) awarded first place to the rescue squads of the Charcas and Santa Barbara units in the categories “Underground Mining Rescue” and “First Aid”.

ENVIRONMENT

Southern Copper Corporation aims to fulfill to the needs of future generations by promoting development that benefits all, both today and down the line. We are committed to continuously improving our environmental performance and to promoting the adoption of the best environmental practices at our operations to contribute to the transition to a green economy. To this end we have made a significant progress in certifying our operations environmental management systems in ISO 14001. We are also committed to preserving and improving the environment by implementing actions to generate a positive impact on biodiversity through our operations. To fulfil this commitment, which is outlined in the Company’s Environmental Policy, we have developed action plans for biodiversity management that are aligned with the guide for Good Practice Guidance for Mining and Biodiversity published by the International Council on Mining and Metals (ICMM). We believe these plans further improve the Company’s capacity to implement effective mitigation measures and contribute to the preservation and improvement of the environment at our operations.

Regarding our environmental risk management, we are aligning our tailings systems to the recently published ICMM’s (International Council on Mining and Metals) Global Standard on Tailings Management and have improved our governance framework by implementing a brand-new Internal Committee for Review of Tailings Systems to bolster safety management and communication between operations and top management.

To reduce our dependency on underground water, the Company is working to identify new sources of water to use in its processes, including recycling wastewater from urban areas. This constitutes a win-win scenario that generates sanitation solution for urban areas while reducing competition for water.

COMMUNITY OUTREACH

Southern Copper Corporation prioritizes being a good neighbor in the localities close to our operations. Working together with the communities, we have the opportunity to collaborate and forge a path based on common objectives for social and

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economic development as we work to support the United Nations' Sustainable Development Goals. We believe that community outreach must be based on transparency and trust and strive to promote long-lasting ties.

Our Community Development model has three components: 1) responsible coexistence: to foster a positive and healthy coexistence with our neighbor communities, and to have open and ongoing channels of communication to address complaints and concerns; 2) economic development: it is important to share the economic value our operations generate with the community, and 3) human development: to optimize the skills of members of the communities where we work, to ensure that these individuals become the principal drivers of development in their communities.

Our grievance mechanism for external stakeholders (Community Attention Service) operates at 100% of our sites. We have an institutional program that supports the development of small and medium mining suppliers in Mexico and Peru.

In the first quarter of 2022, we completed construction at the Cularjahuira dam in the province of Candarave, which borders our Toquepala mine. This facility will store up to 2.55 million cubic meters of water to irrigate 500 hectares of agricultural land and will directly benefit 585 families of local farmers. The Prime Minister joined us for the inauguration of this dam (\$11.5 million), which was the fruit of joint investment between the Company, government authorities and the highland community of Camilaca. This project will help strengthen agricultural activities in the province of Candarave (near our Toquepala operations) and will be complemented by work on a new Callazas dam (\$35 million), which SCC hopes to finance through the "Social Investment for Taxes" (*obras por impuestos*) mechanism. These efforts are evolving in a context marked by record-highs for the Company's tax contributions to the regional governments of Moquegua and Tacna in 2021.

To adequately use and preserve water resources, we have begun building a wastewater treatment plant in the province of Ilo, in Moquegua, Peru. This project will require an investment of approximately \$27 million and will benefit more than 77,000 people. SCC will operate and maintain the plant for the next 30 years to prevent wastewater from being discharged into the ocean, which will protect the marine ecosystem and public health.

More than 300 outstanding students will benefit from the construction of modern infrastructure for the High-Performance School of Moquegua (Colegio de Alto Rendimiento de Moquegua-COAR), which SCC will build through the Taxes for Works mechanism, in conjunction with the Ministry of Education (MINEDU). At a well-attended ceremony, the project's first stone was laid. The facility will be completed over a period of 18 months and will require an investment of approximately \$25 million.

In the framework of the 14th International Mining Congress, which was held in Hermosillo, Sonora, Mexico, the Association of Mining Engineers, Metallurgists and Geologists of Mexico A.C. (Asociación de Ingenieros de Minas, Metalurgistas y Geólogos de México A.C.) bestowed Grupo México, the holding company of AMC, with an award in recognition of the corporation's efforts to generate more social impact in this state of the Mexican Republic.

On a social responsibility front, Fundación Grupo México organized a Volunteer Day, which was attended by 8,000 volunteers in 13 states of Mexico and five regions of Peru. Efforts benefited more than 40 institutions near our operations with a focus on improving the quality of life at the community, family, and environment levels.

For additional information on our community programs, refer to Corporate Social Responsibility under Note 13 "Commitments and contingencies" to the consolidated financial statements. For further information on our disclosure on Human Capital Resources, see the section included in Part I, Item 1 of this Annual Report.

CLIMATE CHANGE

SCC recognizes the importance and urgency of tackling climate change, and the Company is committed to support the objective of the Paris Agreement on climate change, preserve the environment, minimize the environmental footprint of our operations, and efficiently manage climate-related risks and opportunities. We recognize that climate change will likely influence our strategy in various ways, and

we aim to meet the expectations of the global business trends that are moving to demand products with lower carbon footprint. Our focus is to seek continuous improvement in the responsible use of

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natural resources while complying with applicable legal standards for prevention, mitigation, control and remediation of environmental impacts.

The Company is committed to continually improve its management performance with respect to the aforementioned issues, which is why it has initiated a multi-year process to align its disclosures on climate change with the TCFD recommendations. As a result beginning in 2020, Grupo Mexico's Sustainable Development Report includes sections on climate-related risks and opportunities, and more detailed information on new short, medium and long term climate targets, strategy and governance mechanisms, will be published in our holding 2022 Sustainability Development Report, as well as new emissions and energy metrics informed by SASB standards. The report can be accessed at <https://www.gmexico.com/en/Pages/development.aspx>. We are referring our investors to Grupo Mexico's internet site for details on the aforementioned initiatives for informative purposes only. We do not intend for this internet link to be an active link or to otherwise incorporate the contents of the website into this Report on Form 10-K.

Since 2016, Grupo Mexico has been participating annually in the evaluation on Climate Change of CDP¹ and in 2022 for the first time in the evaluation of Water Security. In both questionnaires we achieved "B" result (third best score on a scale of eight levels), which is one level above the mining sector average score and the North America region overall score.

Additionally, given the importance of water for our operations and in the broader perspective of climate change, the Company appointed a Water Resources Director at the executive level. His main function will be to coordinate the actions needed to promote water management at all our operations and ensure our place as a responsible partner in the regional management of this valuable resource.

Related to climate change, we actively continue collaborating with the International Copper Association (ICA) to define the Global Copper Decarbonization Roadmap, which is aligned with the Paris Agreement. The results of this exercise have nurtured our medium and long-term objectives and will be published in the first quarter of 2023, along with our holding's Sustainability Development Report.

HUMAN RIGHTS

At Grupo Mexico we are committed to enforcing the United Nations Guiding Principles on Business and Human Rights. We have a series of policies and procedures that serve as a guide to all employees and suppliers: General Human Rights Policy; Policy of Respect for the Rights of Indigenous Peoples and Communities; Diversity, Inclusion and Non-Discrimination, No Workplace or Sexual Harassment Policy; and the Code of Conduct for Suppliers, Contractors and Relevant Business Partners, which includes several sections related to human rights.

The company has a human rights' due diligence process in place to identify, prevent, mitigate or remediate adverse impacts on the human rights of communities. In the Mining and Infrastructure divisions, it has three main components:

- 1) Participatory Social Diagnosis to allow the communities to voice their concerns regarding human rights,
- 2) Social Management Plans that define actions to address those concerns, and
- 3) the Community Care Service (SAC), a tool that was designed with the advice of the United Nations High Commissioner for Human Rights Mexico Office and allows the community to immediately communicate its concerns to the Company.

Grupo Mexico also has a human rights' due diligence process in place to protect the rights of employees (both the Company's and those of contractors). The work climate surveys, Complaint Hotline and the due diligence of suppliers are tools that enable the company to comply with the commitments included in the General Human Rights Policy. We are currently implementing a Diversity and Inclusion Strategic Plan, which focuses primarily on training; revision of recruitment processes; and physical changes to working areas.

¹ CDP is a not-for-profit charity that runs the global disclosure system for investors, companies, cities, states and regions to manage their environmental impacts. It constitutes the main global reference for environmental reporting standards.

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CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Our significant accounting policies are discussed in Note 2 “Summary of Significant Accounting Policies” of the Notes to Consolidated Financial Statements, included in Item 8 “Financial Statements and Supplementary Data” of this Annual Report.

Our discussion and analysis of financial condition and results of operations, as well as quantitative and qualitative disclosures about market risks, are based upon our consolidated financial statements, which have been prepared in accordance with U.S. GAAP. Preparation of these consolidated financial statements requires our management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. We make our best estimate of the ultimate outcome for these items based on historical trends and other information available when the financial statements are prepared. Changes in estimates are recognized in accordance with the accounting rules for the estimate, which is typically in the period when new information becomes available to management. Areas where the nature of the estimate makes it reasonably possible that actual results could materially differ from amounts estimated include: mineral reserves, revenue recognition, ore stockpiles on leach pads and related amortization, estimated impairment of assets, asset retirement obligations, determination of discount rates related to the operating lease liabilities, valuation allowances for deferred tax assets and unrecognized tax benefits. We base our estimates on historical experience and on various other assumptions that we believe to be reasonable under the circumstances. Actual results may differ from these estimates under different assumptions or conditions.

Mineral Reserves: For ore reserve estimation, we use metal price assumptions of \$3.30 per pound for copper and \$10.00 per pound for molybdenum. These prices are intended to conservatively approximate average prices over the long term and are based on internal estimates for the curves of long-term metal prices.

Certain financial information is based on reserve estimates calculated on the basis of current average prices. These include amortization of intangible assets and mine development. Variations in ore reserve calculations from changes in metal price assumptions generally do not create material changes in our financial results. However, significant decreases in metal prices could adversely affect our earnings by causing, among other things, asset impairment charges, please see “Assets impairment” below.

Ore stockpiles on leach pads: The leaching process is an integral part of the mining operations carried out at our open-pit mines. We capitalize the production cost of leachable material at our Toquepala, La Caridad and Buenavista mines recognizing it as inventory. The estimates of recoverable mineral content contained in the leaching dumps are supported by engineering studies. As the production cycle of the leaching process is significantly longer than the conventional process of concentrating, smelting and electrolytic refining, we include current leach inventory (as part of work-in-process inventories) and long-term leach inventory on our balance sheet. Amortization of leachable material is recorded by the units of production method.

The capitalization of long-term inventory-Ore stockpiles in leach pads is based on the allocation of copper content recoverable between ore and leach material. In addition, inventory consumption is valued at the average unit cost.

Asset Retirement Obligation: Our mining and exploration activities are subject to various laws and regulations governing the protection of the environment. Accounting for reclamation and remediation obligations requires management to make estimates unique to each mining operation of the future costs we will incur to complete the reclamation and remediation work required to comply with existing laws and regulations. These estimates are based in part on our inflation and credit rate assumptions. Actual costs incurred in future periods could differ from amounts estimated. Additionally, future changes to environmental laws and regulations could increase the extent of reclamation and remediation work required to be performed by us. Any such increases in future costs could materially impact the amounts charged to operations for reclamation and remediation.

In 2020, the Company made a change in the estimate for the asset retirement obligation for its Mexican operations, mainly due to a detailed review of the closing activities required for each facility. The effect of this change was an increase in the asset retirement obligation of \$269.3 million, which was recorded in December 2020.

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In 2022, after a detailed review of their closing activities, the Company recorded an adjustment in its asset retirement obligation provision of \$43.3 million for Mexico and a \$59.5 million for Peru.

Asset retirement obligations are further discussed in Note 10 “Asset Retirement Obligation” to the consolidated financial statements included herein.

Revenue Recognition: For certain of our sales of copper and molybdenum products, customer contracts allow for pricing based on a month subsequent to shipping, in most cases within the following three months and in a few cases, in a period that can exceed three months. In such cases, revenue is recorded at a provisional price at the time of shipment. The provisionally priced copper sales are adjusted to reflect forward LME or COMEX copper prices at the end of each month until a final adjustment is made to the price of the shipments upon settlement with customers pursuant to the terms of the contract. In the case of molybdenum sales, for which there are no published forward prices, the provisionally priced sales are adjusted to reflect the market prices at the end of each month until a final adjustment is made to the price of the shipments upon settlement with customers pursuant to the terms of the contract. (See details in “Provisionally Priced Sales” under this Item 7).

Income Taxes: In preparing our consolidated financial statements, we recognize income taxes in each of the jurisdictions in which we operate. For each jurisdiction, we calculate the actual amount currently payable or receivable, as well as deferred tax assets and liabilities attributable to temporary differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases. Deferred income tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which these temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in rate is recognized through the income tax provision in the period that the change is enacted.

A valuation allowance is provided for those deferred tax assets for which it is more likely than not that the related benefits will not be realized. In determining the amount of the valuation allowance, we consider estimated future taxable income, as well as feasible tax planning strategies in each jurisdiction. If we determine that we will not realize all or a portion of our deferred tax assets, we will increase our valuation allowance with a charge to income tax expense. Conversely, if we determine that we will ultimately be able to realize all or a portion of the related benefits for which a valuation allowance has been provided, all or a portion of the related valuation allowance will be reduced with a credit to income tax expense.

The Company’s operations are in multiple jurisdictions where uncertainties can arise in the application of complex tax regulations. The final taxes paid are dependent upon many factors, including audits and negotiations with tax authorities. The Company recognizes potential liabilities and records tax liabilities for anticipated tax audit issues based on its estimate of whether, and the extent to which, additional taxes will be due. The Company adjusts these estimates in light of changing facts and circumstances; however, due to the complexity of some of these uncertainties, final taxes paid may be materially different from the Company’s current estimate of the tax liabilities. If its estimate of tax liabilities proves to be less than the ultimate assessment, or payment of these amounts ultimately proves to be more than the recorded amounts, the difference would be recognized in the period when the Company determines the change.

Asset Impairments: We evaluate our long-term assets when events or changes in economic circumstances indicate that the carrying amount of such assets may not be recoverable. Our evaluations are based on business plans that are prepared using a time horizon that is reflective of our expectations of metal prices over our business cycle. We are currently using an average copper price of \$2.20 per pound and an average molybdenum price of \$5.00 per pound, which reflect what we believe, for impairment test purposes, is the lower range of the current price environment. The results of our impairment sensitivity analysis, which included a stress test using a copper price assumption of \$2.00 per pound and a molybdenum price assumption of \$4.00 per pound, showed projected discounted cash flows in excess of the carrying amounts of long-lived assets by margins ranging from 1.7 to 6.1 times such carrying amount.

We use an estimate of the future undiscounted net cash flows of the related asset or asset group over the remaining life to measure whether the assets are recoverable and measure any impairment compared to fair value.

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Leases: In 2019, the Company adopted the new leases standard and it resulted in the recognition of right-of-use assets and lease obligations on the Company's balance sheet. After the analysis of this standard, the Company concluded that all of its existing lease contracts are operating lease contracts. Right-of-use assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent an obligation by the Company to make lease payments that arise from the lease. Lease right-of-use assets and liabilities are recognized at the inception date based on the present value of lease payments over the lease term. As the Company's lease contracts do not provide an implicit rate, the Company uses its incremental borrowing rate based on the information available at the inception date to determine the present value of lease payments.

RESULTS OF OPERATIONS

The following table highlights key financial results for each of the years in the three-year period ended December 31, 2022 (in millions):

Statement of Earnings Data	2022	2021	2020	Variance	
				2022 - 2021	2021 - 2020
Net sales	\$ 10,047.9	\$ 10,934.1	\$ 7,984.9	\$ (886.2)	\$ 2,949.2
Operating costs and expenses	(5,612.1)	(4,869.0)	(4,864.2)	(743.1)	(4.8)
Operating income	4,435.8	6,065.1	3,120.7	(1,629.3)	2,944.4
Non-operating income (expense)	(188.0)	(368.3)	(374.9)	180.3	6.6
Income before income taxes	4,247.8	5,696.8	2,745.8	(1,449.0)	2,951.0
Income taxes	(1,477.5)	(2,425.5)	(1,237.9)	948.0	(1,187.6)
Deferred income taxes	(118.6)	126.3	63.5	(244.9)	62.8
Equity earnings of affiliate	(3.7)	13.6	6.4	(17.3)	7.2
Net income attributable to non-controlling interest	(9.5)	(14.1)	(7.4)	4.6	(6.7)
Net income attributable to SCC	<u>\$ 2,638.5</u>	<u>\$ 3,397.1</u>	<u>\$ 1,570.4</u>	<u>\$ (758.6)</u>	<u>\$ 1,826.7</u>

NET SALES

2022-2021: Net sales in 2022 were \$10,047.9, compared to \$10,934.1 million in 2021, which represented a decrease of \$886.2 million. This 8.1% reduction was driven primarily by a decrease in sales volume for copper (-6.5%), silver (-1.9%) and molybdenum (-13.4%) due to a lower production, and secondarily by a drop in prices for copper (-5.4%) and silver (-13.6%). The aforementioned was partially offset by an increase in sales volume for zinc (+10.5%) and by an uptick in prices for molybdenum (+20.0%) and zinc (+16.2%).

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Results of Operations on the 2021 Form 10-K for details on variations between 2021 and 2020.

The table below outlines the average published market metals prices for our metals for each of the three years in the three-year period ended December 31, 2022:

	2022	2021	2020	% Variance	
				2022 - 2021	2021 - 2020
Copper price (\$per pound—LME)	\$ 4.00	\$ 4.23	\$ 2.80	(5.4)%	51.1 %
Copper price (\$per pound—COMEX)	\$ 4.01	\$ 4.24	\$ 2.80	(5.4)%	51.4 %
Molybdenum price (\$per pound) (1)	\$ 18.61	\$ 15.51	\$ 8.57	20.0 %	81.0 %
Zinc price (\$per pound—LME)	\$ 1.58	\$ 1.36	\$ 1.03	16.2 %	32.0 %
Silver price (\$per ounce—COMEX)	\$ 21.76	\$ 25.18	\$ 20.62	(13.6)%	22.1 %

(1) Platt's Metals Week Dealer Oxide.

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The table below provides our metal sales as a percentage of our total net sales:

Sales as a percentage of total net sales	Year Ended December 31,		
	2022	2021	2020
Copper	75.0 %	80.7 %	81.6 %
Molybdenum	11.9 %	9.6 %	6.4 %
Silver	4.0 %	4.3 %	5.6 %
Zinc	3.7 %	2.7 %	3.1 %
Other by-products	5.4 %	2.7 %	3.3 %
Total	100.0 %	100.0 %	100.0 %

The table below provides our copper sales by type of product (in million pounds). The difference in value between products is the level of processing. At the market price, concentrates take a discount since they require smelting and refining processes, while refined and rod copper receive premiums due to their purity and presentation.

Copper Sales (million pounds)	2022	2021	2020	Variance	
				2022 - 2021	2021 - 2020
Refined (including SX-EW)	1,046.7	893.4	1,069.6	153.3	(176.2)
Rod	411.5	470.3	389.0	(58.8)	81.3
Concentrates and other	462.2	689.2	847.3	(227.0)	(158.1)
Total	1,920.4	2,052.9	2,305.9	(132.5)	(253.0)

The table below provides our copper sales volume by type of product as a percentage of our total copper sales volume:

Copper Sales by product type	Year ended December 31,		
	2022	2021	2020
Refined (including SX-EW)	54.5 %	43.5 %	46.4 %
Rod	21.4 %	22.9 %	16.9 %
Concentrates and other	24.1 %	33.6 %	36.7 %
Total	100.0 %	100.0 %	100.0 %

OPERATING COSTS AND EXPENSES

The table below summarizes the production cost structure by major components for the three years ended 2022 as a percentage of total production cost:

	Year ended December 31,		
	2022	2021	2020
Power	16.7 %	17.1 %	16.8 %
Labor	10.8 %	13.4 %	13.5 %
Fuel	16.8 %	14.4 %	11.2 %
Maintenance	19.6 %	20.1 %	22.6 %
Operating material	20.1 %	17.2 %	17.4 %
Other	16.0 %	17.8 %	18.5 %
Total	100.0 %	100.0 %	100.0 %

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2022-2021: Operating costs and expenses in 2022 increased \$743.1 million, compared to 2021, primarily due to:

Operating cost and expenses for 2021	\$ 4,869.0
Less:	
• Decrease in depreciation, amortization and depletion expense.	(9.7)
• Decrease in exploration expense.	(1.7)
• Decrease in selling, general and administrative expenses.	(0.2)
Plus:	
• Increase in other cost of sales (exclusive of depreciation, amortization and depletion), which was mainly attributable to increases in fuel (+155), power (+68.2), other production costs (+265.7), worker's participation (+109), inventory change (+90) and others (+108.7); this was slightly offset by an increase in capitalized leachable material (-48.1) and a decrease in mining royalties and others (-84.8)	663.7
• Increase in volume and cost of metals purchased from third parties.	91.0
Operating cost and expenses for 2022	<u>\$ 5,612.1</u>

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Results of Operations on the 2021 Form 10-K for details on variations between 2021 and 2020.

NON-OPERATING INCOME (EXPENSE)	Variance				
	2022	2021	2020	2022 - 2021	2021 - 2020
Interest expense	\$ (387.1)	\$ (387.9)	\$ (393.4)	\$ 0.8	\$ 5.5
Capitalized interest	47.0	30.8	26.8	16.2	4.0
Other income (expense)	117.1	(18.4)	(27.5)	135.5	9.1
Interest income	35.0	7.2	19.2	27.8	(12.0)
Total non-operating income (expense)	<u>\$ (188.0)</u>	<u>\$ (368.3)</u>	<u>\$ (374.9)</u>	<u>\$ 180.3</u>	<u>\$ 6.6</u>

2022-2021: Non-operating income and expense were a net expense of \$188.0 million in 2022, compared to a net expense of \$368.3 million in 2021. The \$180.3 million decrease in net expense in 2022 was mainly due to:

- \$135.5 million decrease in other expense, net, which includes \$25.2 million of insurance recovery from Carla Lacey case, \$8.2 million of a reimbursement from SUNAT in Peru, \$23.6 million adjustment for excess provisions in previous years, \$10.6 million of lower rain damage expenses in Peru and \$75.9 million of insurance recovery in Mexico.
- \$0.8 million decrease in interest expense,
- \$16.2 million increase in capitalized interest; which was partially offset by a
- \$27.8 million increase in interest income.

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Results of Operations on the 2021 Form 10-K for details on variations between 2021 and 2020.

Income taxes

	Year Ended December 31,		
	2022	2021	2020
Provision for income taxes (\$ in millions)	\$ 1,596.1	\$ 2,299.2	\$ 1,174.4
Effective income tax rate	37.6 %	40.4 %	42.8 %

The income tax provision includes Peruvian, Mexican and U.S. federal income taxes.

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Components of income tax provision for 2022, 2021 and 2020 include the following (\$ in millions):

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Statutory income tax provision	\$ 1,361.6	\$ 1,874.6	\$ 1,020.9
Peruvian royalty	35.8	97.8	31.4
Mexican royalty	142.3	212.8	72.1
Peruvian special mining tax	56.4	114.0	50.0
Total income tax provision	<u>\$ 1,596.1</u>	<u>\$ 2,299.2</u>	<u>\$ 1,174.4</u>

The decrease in the effective income tax rate in 2022 compared to the same period in 2021 was primarily attributable to adjustments made to the deferred tax liability in the Peruvian jurisdiction. Please see, Management's Discussion and Analysis of Financial Condition and Results of Operations, Results of Operations on the 2021 Form 10-K for details on variations between 2021 and 2020.

Equity earnings of affiliate

In 2022, 2021 and 2020 we recognized \$(3.7) million, \$13.6 million and \$6.4 million in equity earnings, respectively, which were associated with our 44.2% interest in the Tantahuatay mine.

[Table of Contents](#)**Net Income attributable to the non-controlling interest**

Net income attributable to the non-controlling interest in 2022 was \$9.5 million, compared to \$14.1 million in 2021, and \$7.4 million in 2020. The variance in 2022 was attributable to a decrease earnings.

Net Income attributable to SCC

Our net income attributable to SCC in 2022 was \$2,638.5 million, compared to \$3,397.1 million in 2021. The decrease in net income attributable to SCC in 2022 was mainly fueled by a drop in net sales and growth in operating costs.

SEGMENT RESULTS ANALYSIS

We have three segments: the Peruvian operations, the Mexican open-pit operations and the Mexican underground mining operations. Please see a detailed definition of these segments in Item 1 “Business—Business Reporting Segments.”

The following table presents the volume of sales by segment of copper and our significant by-products for each of the years in the three-year period ended December 31, 2022:

Copper Sales (million pounds)	2022	2021	2020	Variance	
				2022 - 2021	2021 - 2020
Peruvian operations	792.8	859.8	964.2	(67.0)	(104.4)
Mexican open-pit	1,166.3	1,189.6	1,330.7	(23.3)	(141.1)
Mexican IMMSA unit	25.0	24.3	31.7	0.7	(7.4)
Other and intersegment elimination	(63.7)	(20.8)	(20.7)	(42.9)	(0.1)
Total copper sales	<u>1,920.4</u>	<u>2,052.9</u>	<u>2,305.9</u>	<u>(132.5)</u>	<u>(253.0)</u>

By-product Sales (million pounds, except silver—million ounces)	2022	2021	2020	Variance	
				2022 - 2021	2021 - 2020
Peruvian operations:					
Molybdenum contained in concentrate	25.0	32.8	31.3	(7.8)	1.5
Silver	4.5	5.6	5.9	(1.1)	(0.3)
Mexican open-pit operations:					
Molybdenum contained in concentrate	32.9	34.0	35.4	(1.1)	(1.4)
Silver	11.2	10.0	11.7	1.2	(1.7)
IMMSA unit					
Zinc-refined and in concentrate	223.0	201.9	230.9	21.1	(29.0)
Silver	6.4	6.2	7.5	0.2	(1.3)
Other and intersegment elimination					
Silver	(3.3)	(2.6)	(2.7)	(0.7)	0.1
Total by-product sales					
Molybdenum contained in concentrate	57.9	66.8	66.7	(8.9)	0.1
Zinc-refined and in concentrate	223.0	201.9	230.9	21.1	(29.0)
Silver	18.8	19.2	22.4	(0.4)	(3.2)

Peruvian Open-pit Operations:

	2022	2021	2020	Variance	
				2022 - 2021	2021 - 2020
Net sales	\$ 3,908.5	\$ 4,370.8	\$ 3,153.6	\$ (462.3)	\$ 1,217.2
Operating costs and expenses	(2,440.7)	(2,037.6)	(2,055.2)	(403.1)	17.6
Operating income	<u>\$ 1,467.8</u>	<u>\$ 2,333.2</u>	<u>\$ 1,098.4</u>	<u>\$ (865.4)</u>	<u>\$ 1,234.8</u>

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Net sales:

2022-2021: Net sales in 2022 fell \$462.3 million compared to the amount recorded in 2021. This was primarily driven by a decrease in sales volumes of copper (-7.8%), molybdenum (-24.0%) and silver (-19.4%) and by a reduction in prices for copper (-5.4% – LME) and silver (-13.6%). The aforementioned was slightly offset by higher molybdenum (+20.0) prices.

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Results of Operations, Segment Results Analysis on the 2021 Form 10-K for details on variations between 2021 and 2020.

Operating costs and expenses:

2022-2021: Operating costs and expenses in 2022 increased by \$403.1 million compared to 2021, which was primarily due to:

Operating costs and expenses for 2021	\$ 2,037.6
Plus:	
• Increase in other cost of sales (exclusive of depreciation, amortization and depletion), mainly attributable to increases in fuel and power (+122.1), other production costs (+96), higher inventory consumption (+71.6) and foreign currency effects (+60.8); this was partially offset by a decrease in labor costs (-45.6), workers participation (-41.1), higher capitalization of leachable material (-22.2) and others (-39.9).	201.7
• Increase in cost of metals purchased from third parties.	197.6
• Increase in exploration expenses.	4.0
• Increase in depreciation, amortization and depletion expense.	0.7
Less:	
• Increase in selling, general and administrative expenses.	(0.9)
Operating costs and expenses for 2022	<u>\$ 2,440.7</u>

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Results of Operations, Segment Results Analysis on the 2021 Form 10-K for details on variations between 2021 and 2020.

Operating income:

2022-2021: Operating income in 2022 fell \$865.4 million compared to 2021, which was mainly attributable to a \$462.3 million decrease in sales and a \$403.5 million increase in operating costs and expenses, as explained above.

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Results of Operations, Segment Results Analysis on the 2021 Form 10-K for details on variations between 2021 and 2020.

Mexican Open-pit Operations:

	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>Variance</u>	
				<u>2022 - 2021</u>	<u>2021 - 2020</u>
Net sales	\$ 5,772.6	\$ 6,109.0	\$ 4,412.4	\$ (336.4)	\$ 1,696.6
Operating costs and expenses	<u>(2,817.9)</u>	<u>(2,411.2)</u>	<u>(2,431.3)</u>	<u>(406.7)</u>	<u>20.1</u>
Operating income	<u>\$ 2,954.7</u>	<u>\$ 3,697.8</u>	<u>\$ 1,981.1</u>	<u>\$ (743.1)</u>	<u>\$ 1,716.7</u>

Net sales:

2022-2021: Net sales in 2021 dropped \$336.4 million YoY. This decrease was attributable to a decrease in sales volumes of copper (-2.0%) and molybdenum (-3.1%) and to a decrease in the prices for copper (-5.4% – LME) and silver (-13.6%). The aforementioned was partially offset by higher sales volumes of silver (+11.6%) and by an increase in prices for molybdenum (+20.0%).

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Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Results of Operations, Segment Results Analysis on the 2021 Form 10-K for details on variations between 2021 and 2020.

Operating costs and expenses:

2022-2021: Operating costs and expenses in 2022 increased by \$406.7 million compared to 2021, which was mainly attributable to:

Operating costs and expenses for 2021	\$ 2,411.2
Plus:	
• Increase in other cost of sales (exclusive of depreciation, amortization and depletion), which was mainly attributable to increases in fuel and power (+107.7), other production costs (+181.1), worker's participation (+147.1) and others (+20); this was partially offset by a decrease in inventory consumption (-10.7) and an increase in the capitalization of leachable material (-25.9).	419.3
• Increase in selling, general and administrative expenses.	3.1
• Increase in exploration expenses.	0.8
Less:	
• Decrease in depreciation, amortization and depletion expense.	(15.6)
• Decrease in cost and volume of metals purchased from third parties.	(0.9)
Operating costs and expenses for 2022	<u>\$ 2,817.9</u>

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Results of Operations, Segment Results Analysis on the 2021 Form 10-K for details on variations between 2021 and 2020.

Operating income:

2022-2021: Operating income in 2022 decreased by \$743.1 million compared to 2021. This evolution was mainly driven by \$336.4 million drop in sales and a \$406.7 million increase in operating costs and expenses, as explained above.

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Results of Operations, Segment Results Analysis on the 2021 Form 10-K for details on variations between 2021 and 2020.

IMMSA unit:

	2022	2021	2020	Variance	
				2022 - 2021	2021 - 2020
Net sales	\$ 666.5	\$ 600.2	\$ 529.9	\$ 66.3	\$ 70.3
Operating costs and expenses	(605.9)	(511.4)	(443.6)	(94.5)	(67.8)
Operating income	<u>\$ 60.6</u>	<u>\$ 88.8</u>	<u>\$ 86.3</u>	<u>\$ (28.2)</u>	<u>\$ 2.5</u>

Net sales:

2022-2021: Net sales in 2022 increased \$66.3 million compared to 2021. This increase was attributable to an increase in zinc (+16.2%) prices, as well as sales volumes of zinc (+10.5%), copper (+2.7%) and silver (+4.1%). This was partially offset by lower prices for copper (-5.4%) and silver (-13.6%).

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Results of Operations, Segment Results Analysis on the 2021 Form 10-K for details on variations between 2021 and 2020.

[Table of Contents](#)**Operating costs and expenses:**

2022-2021: Operating costs and expenses in 2022 increased by \$94.5 million compared to 2021; this was principally due to:

Operating costs and expenses for 2021	\$	511.4
Plus:		
• Increase in cost of metals purchased from third parties.		49.9
• Increase in other cost of sales (exclusive of depreciation, amortization and depletion), mainly attributable to increases in labor costs (+9.4), other production costs (+24.8) and higher inventory consumption (+28.9); this was partially offset by a decrease in power costs (-9) and others (-12.2)		41.9
• Increase in depreciation, amortization and depletion expense.		2.8
• Increase in selling, general and administrative expenses.		0.2
Less:		
• Decrease in exploration expenses.		(0.3)
Operating costs and expenses for 2022	<u>\$</u>	<u>605.9</u>

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Results of Operations, Segment Results Analysis on the 2021 Form 10-K for details on variations between 2021 and 2020.

Operating income:

2022-2021: Operating income in 2022 fell \$28.2 million YoY, which primarily reflects the \$94.5 million increase in operating costs and expenses, which was partially offset by a \$66.3 million increase in sales.

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Results of Operations, Segment Results Analysis on the 2021 Form 10-K for details on variations between 2021 and 2020.

Intersegment Eliminations and Adjustments:

The net sales, operating costs and expenses and operating income discussed above will not be directly equal to amounts in our consolidated statement of earnings because the adjustments to intersegment operating revenues and expenses must be taken into account. Please see Note 19 "Segment and Related Information" of the consolidated financial statements.

LIQUIDITY AND CAPITAL RESOURCES

The following discussion relates to our liquidity and capital resources for each of the years in the three-year period ended December 31, 2022.

Cash Flow:

The following table shows the cash flow for the three year period ended December 31, 2022 (in millions):

	<u>2022</u>	<u>2021</u>	<u>2020</u>	<u>Variance</u>	
				<u>2022 - 2021</u>	<u>2021 - 2020</u>
Net cash provided by operating activities	\$ 2,802.5	\$ 4,292.4	\$ 2,783.6	\$(1,489.9)	\$1,508.8
Net cash used in investing activities	\$ (666.8)	\$ (972.9)	\$ (915.8)	\$ 306.1	\$ (57.1)
Net cash used in financing activities	\$(3,011.0)	\$(2,480.2)	\$(1,563.3)	\$ (530.8)	\$ (916.9)

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Net cash provided by operating activities:

The 2022, 2021 and 2020 change in net cash from operating activities include (in millions):

	2022	2021	2020	Variance	
				2022 - 2021	2021 - 2020
Net income	\$2,648.0	\$3,411.2	\$1,577.8	\$ (763.2)	\$1,833.4
Depreciation, amortization and depletion	796.3	806.0	775.6	(9.7)	30.4
Provision for deferred income taxes	118.6	(126.3)	(63.5)	244.9	(62.8)
Loss on foreign currency transaction effect	41.9	(25.8)	0.9	67.7	(26.7)
Other adjustments to net income	37.9	36.6	9.1	1.3	27.5
Operating assets and liabilities	<u>(840.2)</u>	<u>190.7</u>	<u>483.7</u>	<u>(1,030.9)</u>	<u>(293.0)</u>
Net cash provided by operating activities	<u>\$2,802.5</u>	<u>\$4,292.4</u>	<u>\$2,783.6</u>	<u>\$(1,489.9)</u>	<u>\$1,508.8</u>

Significant items added to (deducted from) net income to arrive at operating cash flow include depreciation, amortization and depletion, deferred tax amounts and changes in operating assets and liabilities.

2022: Net income was \$2,648.0 million, which represented approximately 94.5% of the net operating cash flow.

Changes in operating assets and liabilities decreased cash flow by \$840.2 million due the following variances:

- \$(35.4) million increase in trade accounts receivable.
- \$(7.7) million net increase in inventory; principally at our Mexican operations.
- \$(718.0) million decrease in accounts payable and accrued liabilities, which was driven primarily by a decrease in accrued income taxes at our Mexican and Peruvian operations.
- \$(79.1) million increase in other operating assets and liabilities, net; this was mainly attributable to an increase in other accounts receivables at our Mexican operations mainly to workers.

2021: Net income was \$3,411.2 million, which represented approximately 79.5% of the net operating cash flow.

Changes in operating assets and liabilities increased cash flow by \$190.7 million due to the following variances:

- \$(289.8) million increase in trade accounts receivable, which was mainly attributable to the increase in metal prices in 2021.
- \$4.7 million net decrease in inventory; this was primarily driven by increases of \$91.8 million and \$7.8 million in the work in process and finished goods inventories, respectively; which were in turn partially offset by \$66.3 million and \$38.1 million drops in the leachable materials and supplies inventories, respectively.
- \$558.2 million increase in accounts payable and accrued liabilities, which was mainly due to the increase in accrued income taxes and workers' participation at our Mexican and Peruvian operations.
- \$(82.4) million increase in other operating assets and liabilities which included principally an increase in prepaid taxes in our Mexican operations.

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Liquidity and Capital Resources, Cash Flow, Net cash provided by operating activities on the 2021 Form 10-K for details on activity in 2020.

Net cash used in investing activities:

2022: Net cash used for investing activities in 2022 included \$948.5 million for capital investments. This included \$593.5 million of investments at our Mexican operations and \$355.0 million at our Peruvian operations. For further information, please see "Capital Investment Program" under this Item on page 97.

The 2022 investing activities also included net sales of short-term investments of \$278.5 million.

2021: Net cash used for investing activities in 2021 included \$892.3 million for capital investments. This included \$571.4 million of investments at our Mexican operations and \$320.9 million at our Peruvian operations. For further information, please see “Capital Investment Program” under this Item on page 97.

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The 2021 investing activities also included net purchases of short-term investments of \$76.1 million.

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Liquidity and Capital Resources, Cash Flow, Net cash used in investing activities on the 2021 Form 10-K for details on activities in 2020.

Net cash used in financing activities:

2022: Net cash used in financing activities in 2022 was \$3,011.0 million and included a dividend distribution of \$2,705.8 million; as well as a debt repayment of \$300 million.

2021: Net cash used in financing activities in 2021 was \$2,480.2 million and included a dividend distribution of \$2,473.8 million.

Please see Management's Discussion and Analysis of Financial Condition and Results of Operations, Liquidity and Capital Resources, Cash Flow, Net cash used in financing activities on the 2021 Form 10-K for details on activities in 2020.

Other Liquidity Considerations

We expect that we will meet our cash requirements for 2023 and beyond from cash on hand and internally generated funds. In addition, we believe that we will be able to access additional external financing on reasonable terms, if required.

As of December 31, 2022, \$903.6 million of the Company's total cash, cash equivalents and short-term investments of \$2,278.0 million were held by foreign subsidiaries. The cash, cash equivalents and short-term investments maintained in our foreign operations are generally used to cover local operating and investment expenses. Earnings of the Company's Peruvian branch are not subject to transition taxes since they are taxed in the United States on a current basis.

Share repurchase program: In 2008, our BOD authorized a \$500 million share repurchase program that has since been increased by the BOD and is currently authorized to \$3 billion. Since the inception of the program through December 31, 2022, we have purchased 119.5 million shares of our common stock at a cost of \$2.9 billion. These shares are available for general corporate purposes. We may purchase additional shares of our common stock from time to time based on market conditions and other factors. This repurchase program has no expiration date and may be modified or discontinued at any time. For further details please see Item 5 "Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities—SCC common stock repurchase plan."

Dividend: On January 26, 2023, the BOD authorized a dividend of \$1.0 per share paid on March 1, 2023 to shareholders of record at the close of business on February 14, 2023.

FINANCING

Our total debt at December 31, 2022 was \$6,251.2 million, compared to \$6,547.6 million at December 31, 2021, net of the unamortized discount and issuance costs of notes issued under par for \$100.0 million and \$103.6 million as of December 31, 2022 and 2021 respectively. This debt is all denominated in dollars at fixed interest rates, weighed at 5.82%.

Please see Note 11 "Financing" for a discussion about the covenants requirements related to our long-term debt.

Capital Investment Program

A discussion of our capital investment program is an important part of understanding our liquidity and capital resources. We expect to meet the cash requirements for these capital investments from cash on hand, internally generated funds and

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from additional external financing if required. For information regarding our capital expenditure programs, please see the discussion under the caption “Capital Investment Program” under this Item 7.

CONTRACTUAL OBLIGATIONS

As of December 31, 2022, our most significant contractual obligations include interest and principal on debt, workers’ participation, pension and post-retirement obligations, payments for operating leases, asset retirement obligations, and commitments for purchasing energy and for capital investment projects.

Interest on debt is calculated at rates in effect at December 31, 2022. As all our debt is at fixed rates, future expenditures will not change due to rate changes. Please refer to Note 11 “Financing” of the consolidated financial statements for a description of our long-term debt arrangements and credit facilities.

Workers’ participation is currently calculated based on Peruvian Branch and Mexican pre-tax earnings. In Peru, the provision for workers’ participation is calculated at 8% of pre-tax earnings. The current portion of this participation, which is accrued during the year, is based on the Peruvian Branch’s taxable income and is largely distributed to workers after final results are determined for the year. Amounts in excess of 18 times a worker’s salary are distributed to governmental bodies. In Mexico, workers’ participation is determined using the guidelines established in the Mexican income tax law at a rate of 10% of pre-tax earnings as adjusted by the tax law.

Operating leases include lease payments for power generating facilities to MGE, vehicles and properties. Please refer to Note 9 “Leases” of the consolidated financial statements.

Pension and post retirement obligations include the benefits expected to be paid under our pension and post-retirement benefit plans. Please refer to Note 12 “Benefit Plans” of the consolidated financial statements.

Asset retirement obligations include the aggregate amount of closure and remediation costs for our Peruvian mines and facilities to be paid under the mine closure plans approved by MINEM and the closure and remediation costs of our Mexican operations. See Note 10 “Asset Retirement Obligation” of the consolidated financial statements.

In June 2014, we entered into a power purchase agreement for 120 megawatt (“MW”) with the state company Electroperu S.A., which began supplying energy for our Peruvian operations for twenty years starting on April 17, 2017. In July 2014, we entered into a power purchase agreement for 120MW with a private power generator Kallpa Generacion S.A. (“Kallpa”), which began supplying energy for our Peruvian operations for ten years starting on April 17, 2017. In May 2016, we signed an additional power purchase agreement for a maximum of 80MW with Kallpa, under which Kallpa will supply energy to the operations related to the Toquepala Expansion and to other minor projects for ten years starting on May 1, 2017 and ending after ten years of commercial operation of the Toquepala Expansion or on April 30, 2029; whichever occurs first. Additionally, we have a commitment to purchase power for our Mexican operations from MGE, a subsidiary of Grupo Mexico through 2032. See Note 13 “Commitment and Contingencies—Other commitments”.

Our long-term estimated power costs are subject to change as energy generation costs change and our forecasted power requirements through the life of the agreements change. In addition, as of December 31, 2022, the Company has committed approximately \$405.5 million for the development of its capital investment projects. These include committed purchase orders and executed contracts for our Mexican projects and for our Peruvian expansion projects.

CYBERSECURITY

Innovation and the development of our technological capabilities have been and will continue to be actively present in our operations and in our day-to-day business management. In the global context, rapid deployment and adoption of new technologies and tools have challenged management models and heightened the need to manage the risks inherent to integrating new technologies within infrastructure and governance models and at the heart of our organization’s skill set and culture.

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SCC is committed to executing the Information Security Strategy launched in 2021, and worked in 2022 to ensure the continuity of the strategic lines based on: improving our technology through cybersecurity projects; adapting our process model to bolster our corporate governance framework and organizational culture; and increasing our employees' awareness of security issues by strengthening communication. Members and management and working groups joined forces to advance the execution of our strategy through interdisciplinary projects.

Going forward, the main strategic lines to execute our Information Security Strategy will be guided by our holistic vision and include: awareness campaigns and training for our personnel; implementation of technological, operational and security risk management methodologies; enhancing our governance framework, policies and procedures; strengthening our cybersecurity architecture; developing, monitoring, evaluating and verifying our protection, continuity and recovery schemes; developing management tools to ensure that our operations comply with requirements to protect privacy; and incorporating testing, verification and simulation mechanisms for the controls that regulate our model.

We believe that our business model is in the process integrating information. As such, the focus is on identifying and managing the risks to which our organization is exposed. It is important to note that these risks are on the rise and evolving. To support and evolve our strategy and maintain the effectiveness of our architecture and operating models, we constantly measure, assess and improve all aspects relative to information security. We stand at the ready to agilely and adeptly respond to all scenarios.

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NON-GAAP INFORMATION RECONCILIATION

Operating cash cost: Following is a reconciliation of “Operating Cash Cost” (see page 95) to cost of sales (exclusive of depreciation, amortization and depletion) as reported in our consolidated statement of earnings, in millions of dollars and dollars per pound in the table below:

	2022		2021		2020	
	<u>\$ millions</u>	<u>\$ per pound</u>	<u>\$ millions</u>	<u>\$ per pound</u>	<u>\$ millions</u>	<u>\$ per pound</u>
Cost of sales (exclusive of depreciation, amortization and depletion)	\$ 4,649.1	\$ 2.45	\$ 3,894.4	\$ 1.90	\$ 3,929.8	\$ 1.84
Add:						
Selling, general and administrative	125.0	0.07	125.2	0.06	126.2	0.06
Sales premiums, net of treatment and refining charges	(21.0)	(0.01)	(25.6)	(0.01)	17.00	0.01
Less:						
Workers’ participation	(282.9)	(0.15)	(267.2)	(0.13)	(263.9)	(0.13)
Cost of metals purchased from third parties	(316.8)	(0.17)	(225.8)	(0.11)	(495.2)	(0.23)
Royalty charge and other, net	(300.9)	(0.16)	(158.6)	(0.08)	(171.6)	(0.08)
Inventory change	(26.8)	(0.01)	15.0	0.01	(218.6)	(0.10)
Operating Cash Cost before by-product revenues	\$ 3,825.7	\$ 2.02	\$ 3,357.4	\$ 1.64	\$ 2,923.7	\$ 1.37
Add:						
By-product revenues(1)	(2,327.2)	(1.22)	(1,974.8)	(0.96)	(1,375.9)	(0.64)
Net revenue on sale of metal purchased from third parties	(28.6)	(0.02)	(22.9)	(0.01)	(80.0)	(0.04)
Total by-product revenues	(2,355.8)	(1.24)	(1,997.7)	(0.97)	(1,455.9)	(0.68)
Operating Cash Cost net of by-product revenues	1,469.9	0.78	1,359.7	0.67	1,467.8	0.69
Total pounds of copper produced (in millions)	1,894.7		2,041.7		2,136.1	

(1) By-product revenues included in our presentation of operating cash cost contain the following:

	2022		2021		2020	
	<u>\$ millions</u>	<u>\$ per pound</u>	<u>\$ millions</u>	<u>\$ per pound</u>	<u>\$ millions</u>	<u>\$ per pound</u>
Molybdenum	\$ (1,192.7)	\$ (0.63)	\$ (1,053.1)	\$ (0.51)	\$ (510.3)	\$ (0.24)
Silver	(370.5)	(0.20)	(445.3)	(0.22)	(415.5)	(0.19)
Zinc	(242.9)	(0.13)	(196.9)	(0.10)	(202.9)	(0.10)
Sulfuric Acid	(395.8)	(0.21)	(164.6)	(0.08)	(135.9)	(0.06)
Gold	(81.0)	(0.04)	(67.5)	(0.03)	(73.6)	(0.03)
Other	(44.3)	(0.01)	(47.4)	(0.02)	(37.7)	(0.02)
Total	\$ (2,327.2)	\$ (1.22)	\$ (1,974.8)	\$ (0.96)	\$ (1,375.9)	\$ (0.64)

The by-product revenue presented does not match with the sales value reported by segment on page 173 because the above table excludes purchases from third parties, which are reclassified to net revenue on sale of metal purchased from third parties.

[Table of Contents](#)**ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK**Commodity price risk:

For additional information on metal price sensitivity, refer to “Metal Prices” in Part II, Item 7 of this annual report.

Open sales risk:

Our provisional copper and molybdenum sales contain an embedded derivative that is required to be separate from the host contract for accounting purposes. The host contract is the receivable from the sale of copper or molybdenum concentrates at prevailing market prices at the time of the sale. The embedded derivative, which does not qualify for hedge accounting, is marked to market through earnings in each period prior to settlement. See Note 19 to the consolidated financial statements for further information about these provisional sales.

Foreign currency exchange rate risk:

Our functional currency is the U.S. dollar. Portions of our operating costs are denominated in Peruvian soles and Mexican pesos. Given that our revenues are primarily denominated in U.S. dollars, when inflation or deflation in our Mexican or Peruvian operations is not offset by a change in the exchange rate of the sol or the peso to the dollar, our financial position, results of operations and cash flows could be affected by local cost conversion when expressed in U.S. dollars. In addition, the dollar value of our net monetary assets denominated in soles or pesos can be affected by an exchange rate variance of the sol or the peso, resulting in a re-measurement gain or loss in our financial statements. Recent inflation and exchange rate variances for the three years ended December 31, 2022 are provided in the table below:

	Year Ended December 31,		
	2022	2021	2020
Peru:			
Peruvian inflation rate	8.5 %	6.4 %	2.0 %
Initial exchange rate	3.998	3.624	3.317
Closing exchange rate	3.820	3.998	3.624
Appreciation/(devaluation)	4.5 %	(10.3)%	(9.3)%
Mexico:			
Mexican inflation rate	7.8 %	7.4 %	3.2 %
Initial exchange rate	20.584	19.949	18.845
Closing exchange rate	19.362	20.584	19.949
Appreciation/(devaluation)	5.9 %	(3.2)%	(5.9)%

Change in monetary position:

Assuming an exchange rate variance of 10% at December 31, 2022, we estimate our net monetary position in Peruvian sol and Mexican peso would increase (decrease) our net earnings as follows:

	Effect in net earnings (\$ in millions)
Appreciation of 10% in U.S. dollar vs. Peruvian sol	\$ 14.9
Devaluation of 10% in U.S. dollar vs. Peruvian sol	\$ (18.2)
Appreciation of 10% in U.S. dollar vs. Mexican peso	\$ (19.0)
Devaluation of 10% in U.S. dollar vs. Mexican peso	\$ 23.2

The net monetary position is net of those assets and liabilities that are sol or peso denominated as of December 31, 2022.

Short-term investments:

For additional information on our trading securities and available-for-sale investments, refer to Note 3 Short-term Investments in Part II, Item 8 of this annual report.

[Table of Contents](#)Derivative Instruments:

From time to time, we use derivative instruments to manage our cash flows exposure to changes in commodity prices. We do not enter into derivative contracts unless we anticipate that the possibility exists that future activity will expose our future cash flows to deterioration. Derivative contracts for commodities are entered into to manage the price risk associated with forecasted purchases of the commodities that we use in our manufacturing process.

Cash Flow Hedges of Natural Gas

The Company's objective in using natural gas derivatives is to protect the stability of natural gas costs and manage exposure to natural gas price increases. To protect natural gas costs from estimated price increases in the past winter season, in the third quarter of 2021, the Company acquired two derivative instruments that began in November 2021 and ended in March 2022.

We assessed these derivative instruments as Cash Flow Hedges. As such, the effective portions of said hedges were initially reported in Other Comprehensive Income (OCI) and were reclassified as earnings in the same line item associated with the forecasted transaction and in the same period or periods during which the hedged transaction affected earnings. The Company did not identify any ineffective portions of these derivatives.

As of December 31, 2022, we held no derivative instruments.

[Table of Contents](#)**ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTAL DATA****REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

To the Board of Directors and Stockholders of Southern Copper Corporation:

Opinion on the Consolidated Financial Statements

We have audited the accompanying consolidated balance sheets of Southern Copper Corporation and subsidiaries (the “Company”) as of December 31, 2022 and 2021, the related consolidated statements of earnings, comprehensive income, changes in stockholders’ equity, and cash flows for each of the three years in the period ended December 31, 2022 and the related notes and the schedule listed in the Index at Item 15 (collectively referred to as the “financial statements”). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2022 and 2021, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2022, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (“PCAOB”), the Company’s internal control over financial reporting as of December 31, 2022 based on criteria established in Internal Control—Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 28, 2023 expressed an unqualified opinion on the Company’s internal control over financial reporting.

Basis for Opinion

These consolidated financial statements are the responsibility of the Company’s management. Our responsibility is to express an opinion on the Company’s consolidated financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing separate opinions on the critical audit matter or on the accounts or disclosures to which it relates.

[Table of Contents](#)**Ore stockpiles on Leach Pads – Refer to Note 4 to the financial statements****Critical Audit Matter Description**

The Company has Ore stockpiles on leach pads of \$1,324.0 million as of December 31, 2022 (\$259.7 million presented as current and \$1,064.3 million presented as non-current assets), related to the capitalization of costs attributable to leachable material.

The Company used the copper content grade, the solubility index and the recovery rate when determining the capitalization of costs related to leachable material. The leachable material inventory determined could be misstated if the monthly average recoverable copper content grade, the monthly average solubility index and the recovery rate used by the Company does not correspond to the actual results obtained from the laboratories.

We identified the copper content grade, the solubility index and the recovery rate as a critical audit matter because of the complexity and judgments made by management to support its assertion that these capitalized costs are probable of recovery. Addressing this matter required a high degree of auditor judgment and significant audit effort, which includes the involvement of our technical specialists in evaluating whether the audit evidence obtained supports management's assertion that these costs are probable of future recovery.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to management's assertions that extraction and production costs are capitalized in the appropriate amounts included the following, among others:

- We obtained an understanding and evaluated the Company's methodology for determining the productions costs capitalized and the estimates of recoverable mineral content contained in the leaching material deposited in the leaching pads.
- We tested the effectiveness of controls over management's review of the copper content grade, the solubility index and the recovery rate used to determine the monthly average rate to be used in the calculation, which included an evaluation of the competence, objectivity and authority of the personnel involved and management's experts in the determination of the copper content grade, the solubility index and the recovery rate; the identification of costs to be capitalized as part of the leaching process; and reconciliations of mineral received for the leaching process.
- We tested the effectiveness of general IT controls for the relevant systems identified that process information that is considered significant in the calculation of the Company's estimate.
- We independently recalculated the monthly average copper content grade and the monthly average solubility index to obtain the reasonability of the inputs used in the estimate.
- We involved technical specialists to evaluate the methodology and inputs used by the Company to determine the recoverability of copper from the leach pads and challenge, from a technical perspective, if the balance as of December 31, 2022 represents copper that will be recovered as estimated by the Company. Such involvement also consisted in site visits to the main mining operations where ore stockpiles on leach pads existed.

Galaz, Yamazaki, Ruiz Urquiza, S.C.
Member of Deloitte Touche Tohmatsu Limited

/s/ PAULINA RAMOS RAMIREZ

C.P.C. Paulina Ramos Ramirez

Mexico City, Mexico

February 28, 2023

We have served as the Company's auditor since
2009

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**Southern Copper Corporation
and Subsidiaries**

CONSOLIDATED STATEMENTS OF EARNINGS

For the years ended December 31, (in millions, except for per share amounts)	2022	2021	2020
	<u> </u>	<u> </u>	<u> </u>
Net sales (including sales to related parties, see note 18)	\$ 10,047.9	\$ 10,934.1	\$ 7,984.9
Operating cost and expenses:			
Cost of sales (exclusive of depreciation, amortization and depletion shown separately below)	4,649.1	3,894.4	3,929.8
Selling, general and administrative	125.0	125.2	126.2
Depreciation, amortization and depletion	796.3	806.0	775.6
Exploration	41.7	43.4	32.6
Total operating costs and expenses	<u>5,612.1</u>	<u>4,869.0</u>	<u>4,864.2</u>
Operating income	4,435.8	6,065.1	3,120.7
Interest expense	(387.1)	(387.9)	(393.4)
Capitalized interest	47.0	30.8	26.8
Other income (expense)	117.1	(18.4)	(27.5)
Interest income	35.0	7.2	19.2
Income before income taxes	<u>4,247.8</u>	<u>5,696.8</u>	<u>2,745.8</u>
Income taxes (including royalty taxes, see Note 7)	1,477.5	2,425.5	1,237.9
Deferred income taxes	118.6	(126.3)	(63.5)
Net income before equity earnings of affiliate	<u>2,651.7</u>	<u>3,397.6</u>	<u>1,571.4</u>
Equity earnings of affiliate, net of income tax	(3.7)	13.6	6.4
Net income	<u>2,648.0</u>	<u>3,411.2</u>	<u>1,577.8</u>
Less: Net income attributable to the non-controlling interest	9.5	14.1	7.4
Net income attributable to SCC	<u>\$ 2,638.5</u>	<u>\$ 3,397.1</u>	<u>\$ 1,570.4</u>
Per common share amounts attributable to SCC:			
Net earnings-basic and diluted	\$ 3.41	\$ 4.39	\$ 2.03
Weighted average shares outstanding-basic and diluted	<u>773.1</u>	<u>773.1</u>	<u>773.1</u>

The accompanying notes are an integral part of these consolidated financial statements.

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**Southern Copper Corporation
and Subsidiaries**

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

	<u>2022</u>	<u>2021</u>	<u>2020</u>
		(in millions)	
COMPREHENSIVE INCOME:			
Net income and comprehensive income	\$ 2,648.0	\$ 3,411.2	\$ 1,577.8
Other comprehensive income (loss) net of tax:			
—Decrease (increase) in pension and other post-retirement benefits (net of income tax of \$(0.2), \$1.2 and \$(1.9), respectively)	1.0	(1.7)	1.7
- Unrealized gain on derivative instruments classified as cash flow hedge (net of income tax of \$0.2 million in 2022 and \$0.3 million in 2021)	(0.6)	0.6	—
Total other comprehensive income (loss)	0.4	(1.1)	1.7
Total comprehensive income	2,648.4	3,410.1	1,579.5
Comprehensive income attributable to the non-controlling interest	9.5	14.1	7.4
Comprehensive income attributable to SCC	<u>\$ 2,638.9</u>	<u>\$ 3,396.0</u>	<u>\$ 1,572.1</u>

The accompanying notes are an integral part of these consolidated financial statements.

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**Southern Copper Corporation
and Subsidiaries**

CONSOLIDATED BALANCE SHEETS

	December 31, 2022	December 31, 2021
	(in millions)	
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 2,069.7	\$ 3,002.0
Short-term investments	208.3	486.9
Accounts receivable trade	1,394.1	1,358.7
Accounts receivable other (including related parties 2022- \$33.3 and 2021 - \$49.1)	79.7	87.9
Inventories	1,013.9	972.9
Prepaid taxes	377.6	197.7
Other current assets	44.4	33.5
Total current assets	<u>5,187.7</u>	<u>6,139.6</u>
Property and mine development, net	9,596.6	9,464.4
Ore stockpiles on leach pads	1,064.3	1,097.6
Intangible assets, net	134.7	138.1
Right-of-use assets	851.4	916.3
Deferred income tax	237.3	316.2
Equity method investment	110.8	115.4
Other non-current assets	94.6	110.0
Total assets	<u>\$ 17,277.4</u>	<u>\$ 18,297.6</u>
LIABILITIES		
Current liabilities:		
Current portion of long-term debt	\$ —	\$ 299.7
Accounts payable (including related parties 2022 - \$120.2 and 2021 - \$103.3)	657.6	591.9
Accrued income taxes	138.1	832.6
Accrued workers' participation	236.3	325.7
Accrued interest	97.1	98.6
Lease liabilities current	77.3	73.9
Other accrued liabilities	29.3	27.6
Total current liabilities	<u>1,235.7</u>	<u>2,250.0</u>
Long-term debt, net of current portion	6,251.2	6,247.9
Lease liabilities	774.1	842.4
Deferred income taxes	161.2	118.3
Non-current taxes payable	40.6	—
Other liabilities and reserves	82.4	68.3
Asset retirement obligation	585.3	562.9
Total non-current liabilities	<u>7,894.8</u>	<u>7,839.8</u>
Commitments and contingencies (Note 13)		
STOCKHOLDERS' EQUITY (NOTE 14)		
Common stock par value \$0.01; shares authorized, 2022 and 2021—2,000; shares issued, 2022 and 2021—884.6	8.8	8.8
Additional paid-in capital	3,489.7	3,454.1
Retained earnings	7,702.3	7,769.7
Accumulated other comprehensive income	(9.0)	(9.4)
Treasury stock, at cost, common shares	(3,107.6)	(3,074.0)
Total Southern Copper Corporation stockholders' equity	<u>8,084.2</u>	<u>8,149.2</u>
Non-controlling interest	62.7	58.6
Total equity	<u>8,146.9</u>	<u>8,207.8</u>
Total liabilities and equity	<u>\$ 17,277.4</u>	<u>\$ 18,297.6</u>

The accompanying notes are an integral part of these consolidated financial statements.

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**Southern Copper Corporation
and Subsidiaries**

CONSOLIDATED STATEMENTS OF CASH FLOWS

**For the Year Ended December 31,
(in millions)**

	<u>2022</u>	<u>2021</u>	<u>2020</u>
OPERATING ACTIVITIES			
Net income	\$ 2,648.0	\$ 3,411.2	\$ 1,577.8
Adjustments to reconcile net earnings to net cash provided from operating activities:			
Depreciation, amortization and depletion	796.3	806.0	775.6
Equity earnings of affiliate, net of dividends received	4.6	(1.1)	(10.4)
Loss (gain) on foreign currency transaction effect	41.9	(25.8)	0.9
Provision (benefit) for deferred income taxes	118.6	(126.3)	(63.5)
Net charges for asset retirement obligations, including accretion	16.4	17.9	13.5
Other, net	16.9	19.8	6.0
Change in operating assets and liabilities:			
(Increase) in accounts receivable	(35.4)	(289.8)	(236.0)
(Increase)/decrease in inventories	(7.7)	4.7	223.6
(Decrease)/increase in accounts payable and accrued liabilities	(718.0)	558.2	313.8
(Increase)/decrease in other operating assets and liabilities	(79.1)	(82.4)	182.3
Net cash provided by operating activities	<u>2,802.5</u>	<u>4,292.4</u>	<u>2,783.6</u>
INVESTING ACTIVITIES			
Capital expenditures	(948.5)	(892.3)	(592.2)
Purchase of short-term investments	(486.2)	(1,653.1)	(450.3)
Proceeds on sale of short-term investment	764.7	1,577.0	120.2
Other, net	3.2	(4.5)	6.5
Net cash used in investing activities	<u>(666.8)</u>	<u>(972.9)</u>	<u>(915.8)</u>
FINANCING ACTIVITIES			
Repayments of debt	(300.0)	—	(400.0)
Cash dividends paid to common stockholders	(2,705.8)	(2,473.8)	(1,159.6)
Distributions to non-controlling interest	(5.5)	(6.7)	(4.1)
Other, net	0.3	0.3	0.4
Net cash used in financing activities	<u>(3,011.0)</u>	<u>(2,480.2)</u>	<u>(1,563.3)</u>
Effect of exchange rate changes on cash and cash equivalents	<u>(57.0)</u>	<u>(20.9)</u>	<u>(46.0)</u>
Increase (decrease) in cash and cash equivalents	<u>(932.3)</u>	<u>818.4</u>	<u>258.5</u>
Cash and cash equivalents, at beginning of year	<u>3,002.0</u>	<u>2,183.6</u>	<u>1,925.1</u>
Cash and cash equivalents, at end of year	<u>\$ 2,069.7</u>	<u>\$ 3,002.0</u>	<u>\$ 2,183.6</u>

	<u>2022</u>	<u>2021</u>	<u>2020</u>
	(in millions)		
<i>Supplemental disclosure of cash flow information:</i>			
Cash paid during the year for:			
Interest	\$ 380.2	\$ 380.2	\$ 383.5
Income taxes	\$ 2,391.5	\$ 1,947.1	\$ 1,037.1
Workers' participation	\$ 450.6	\$ 258.4	\$ 153.9
<i>Supplemental schedule of non-cash operating, investing and financing activities:</i>			
Decrease (increase) in pension and other post-retirement benefits	\$ 1.0	\$ (1.7)	\$ 1.7
Capital expenditures incurred but not yet paid	\$ 18.5	\$ 24.6	\$ 32.2

The accompanying notes are an integral part of these consolidated financial statements.

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**Southern Copper Corporation
and Subsidiaries**

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	2022	2021	2020
TOTAL EQUITY, beginning of year	<u>\$ 8,207.8</u>	<u>\$ 7,276.0</u>	<u>\$ 6,858.2</u>
STOCKHOLDERS' EQUITY, beginning of year	8,149.2	7,224.8	6,810.3
CAPITAL STOCK:			
Balance at beginning and end of year:	8.8	8.8	8.8
ADDITIONAL PAID-IN CAPITAL:			
Balance at beginning of year	3,454.1	3,441.5	3,424.9
Other activity of the period	35.6	12.6	16.6
Balance at end of year	<u>3,489.7</u>	<u>3,454.1</u>	<u>3,441.5</u>
TREASURY STOCK:			
Southern Copper common shares			
Balance at beginning of the year	(2,767.2)	(2,767.5)	(2,767.9)
Used for corporate purposes	0.3	0.3	0.4
Balance at end of year	<u>(2,766.9)</u>	<u>(2,767.2)</u>	<u>(2,767.5)</u>
Parent Company common shares			
Balance at beginning of year	(306.8)	(296.0)	(281.0)
Other activity, including dividend, interest and foreign currency transaction effect	(33.9)	(10.8)	(15.0)
Balance at end of year	<u>(340.7)</u>	<u>(306.8)</u>	<u>(296.0)</u>
Treasury stock balance at end of year	<u>(3,107.6)</u>	<u>(3,074.0)</u>	<u>(3,063.5)</u>
RETAINED EARNINGS:			
Balance at beginning of year	7,769.7	6,846.4	6,435.6
Net earnings	2,638.5	3,397.1	1,570.4
Dividends declared and paid, common stock, per share, 2022- \$3.50, 2021- \$3.20, 2020 - \$1.50	(2,705.8)	(2,473.8)	(1,159.6)
Balance at end of year	<u>7,702.3</u>	<u>7,769.7</u>	<u>6,846.4</u>
ACCUMULATED OTHER COMPREHENSIVE INCOME (LOSS):			
Balance at beginning of year	(9.4)	(8.4)	(10.1)
Other comprehensive income (loss)	0.4	(1.0)	1.7
Balance at end of year	<u>(9.0)</u>	<u>(9.4)</u>	<u>(8.4)</u>
STOCKHOLDERS' EQUITY, end of year	<u>8,084.2</u>	<u>8,149.2</u>	<u>7,224.8</u>
NON-CONTROLLING INTEREST, beginning of year	58.6	51.2	47.9
Net earnings	9.5	14.1	7.4
Distributions paid	(5.5)	(6.7)	(4.1)
NON-CONTROLLING INTEREST, end of year	<u>62.7</u>	<u>58.6</u>	<u>51.2</u>
TOTAL EQUITY, end of year	<u>\$ 8,146.9</u>	<u>\$ 8,207.8</u>	<u>\$ 7,276.0</u>

The accompanying notes are an integral part of these consolidated financial statements.

[Table of Contents](#)**NOTE 1—DESCRIPTION OF THE BUSINESS:**

The Company is a majority-owned, indirect subsidiary of Grupo Mexico S.A.B. de C.V. ("Grupo Mexico"). At December 31, 2022, Grupo Mexico through its wholly-owned subsidiary Americas Mining Corporation ("AMC") owned 88.9% of the Company's capital stock. The consolidated financial statements presented herein consist of the accounts of Southern Copper Corporation ("SCC", "Southern Copper" or the "Company"), a Delaware corporation, and its subsidiaries. The Company is an integrated producer of copper and other minerals, and operates mining, smelting and refining facilities in Peru and Mexico. The Company conducts its primary operations in Peru through a registered branch (the "Peruvian Branch" or "Branch" or "SPCC Peru Branch"). The Peruvian Branch is not a corporation separate from the Company. The Company's Mexican operations are conducted through subsidiaries. The Company also conducts exploration activities in Argentina, Chile, Ecuador, Mexico and Peru.

NOTE 2—SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:*Principles of consolidation—*

The consolidated financial statements include the accounts of subsidiaries of which the Company has voting control, in accordance with Accounting Standards Codification ("ASC") 810 *Consolidation*. Such financial statements are prepared in accordance with accounting principles generally accepted in the United States ("U.S. GAAP").

Use of estimates—

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, and disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. Significant items subject to such estimates and assumptions include the carrying value of mineral reserves that are the basis for future cash flow estimates and amortization calculations; environmental reclamation, closure and retirement obligations; estimates of recoverable copper in mill and leach stockpiles; asset impairments (including estimates of future cash flows); unrecognized tax benefits; valuation allowances for deferred tax assets; and fair value of financial instruments. Management bases its estimates on the Company's historical experience and on various other assumptions that are believed to be reasonable under the circumstances. Actual results could differ from those estimates.

Revenue recognition—

The Company accounts for a contract with a customer when there is a legally enforceable contract between the Company and the customer, the rights of the parties are identified, the contract has commercial substance, and collectability of the contract consideration is probable. The Company's revenues are measured based on consideration specified in the contract with each customer. Disclosures regarding disaggregation of revenues and contract balances are disclosed within Note 19 "Segment and related information".

The Company's marketing strategy and annual sales planning emphasize developing and maintaining long-term customer relationships. Generally, 80% to 90% of the Company's metal production is sold under annual or longer-term contracts, which specify a volume of mineral to be sold over a stated period and delivery schedule; the price at which mineral will be sold at each delivery date is generally determined by the weekly or monthly average rate of the commodity published by major metal exchanges at specific dates stipulated within each contract. The Company considers each contract to be a single performance obligation, represented by the delivery of a series of distinct goods that are substantially the same, with the same pattern of transfer to the Company's customers. The Company concluded this as, based on the nature of its contracts, customers receive the benefit of mineral sold as it is shipped per the terms of the contracts at each contractual delivery date. Likewise, each shipment of product represents the same measure of progress as other shipments within the contract. Accordingly, the Company recognizes revenues for each contract over the period of time in which the specified quantity of mineral is delivered. In doing so, the Company considers that it has a right to consideration from its customers in an amount that corresponds directly to the value transferred to those customers that being the quantity of mineral delivered at the price per unit delivered. Accordingly, the Company

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recognizes revenue at the amount to which it has the right to invoice (the invoice practical expedient), as it believes that this method is a faithful depiction of the transfer of goods to its customers.

For contracts with a term greater than one year, the Company is unable to disclose an allocation of the transaction price to the remaining unsatisfied performance obligation, given that unit prices of mineral sold are determined by published commodity prices at specified dates within the contract. The volume of mineral to be delivered after the first year of the contract is subject to annual volume negotiations in accordance with the terms of the contract. As of December 31, 2022, the Company has long-term contracts with promises to deliver in 2023 for a total of 147,500 metric tonnes of copper concentrate, 48,000 metric tonnes of copper cathodes, 31,587 tonnes of molybdenum concentrate and 382,500 tonnes of sulfuric acid. This is an estimate that will vary in 2023 and 2024 based on the negotiations with the customers as mentioned above.

The remainder of the Company's revenues, including its by-product revenues, are generated by spot sales that are recognized at a point in time.

Under both sales models, revenue is recognized when or as the performance obligations are satisfied, when the Company transfers control of the goods and title passes to the customer. Considering the International Commercial Terms (Incoterms) utilized by the Company, control is transferred generally upon the completion of loading the material at the point of origin. This is the point at which the customer obtains legal title to the product as well as the ability to direct the use of and obtain substantially all of the remaining benefits of ownership of the asset. Additionally, payment is generally due upon the delivery of the shipping and title documents at the point of origin, customers typically have 30 days to remit payment. Copper and non-copper revenues are measured based on the monthly average of prevailing commodity prices according to the terms of the contracts. The Company provides allowances for doubtful accounts based upon historical bad debt and claims experience and periodic evaluation of specific customer accounts.

Substantially all of the Company's sales are made under carriage and insurance paid to, or cost, insurance and freight Incoterms, whereby the Company is responsible for providing shipping and insurance after control of the inventory has been transferred to the customer. According to the terms of the Company's contracts, these services are not distinct within the context of the contract, and they are not separately identifiable from the other promises within the contract. Additionally, it is the Company policy and it has a long-standing history of providing shipping and insurance services to its customers. Accordingly, shipping and insurance are not considered separate performance obligations. The related costs of shipping and insurance are presented within the cost of sales line in the accompanying consolidated statements of income.

Furthermore, the Company considered the impact of the shipping and insurance services on the determination of when control is transferred to its customers. It has concluded that the terms of these services do not impact its customers' ability to sell, pledge, or otherwise use the products in shipment. Also, there is a small likelihood and minimal history of lost or damaged goods during shipment. Considering these factors, combined with the other indicators of control previously mentioned, the Company has concluded that these services do not impact the determination that control is transferred at the point of origin.

For certain of the Company's sales of copper and molybdenum products, customer contracts allow for pricing based on a month subsequent to shipping, in most cases within the following three months and occasionally in some cases a few additional months. In such cases, revenue is recorded at a provisional price at the time of shipment. The provisionally priced copper sales are adjusted to reflect forward LME or COMEX copper prices at the end of each month until a final adjustment is made to the price of the shipments upon settlement with customers pursuant to the terms of the contract. In the case of molybdenum sales, for which there are no published forward prices, the provisionally priced sales are adjusted to reflect the market prices at the end of each month until a final adjustment is made to the price of the shipments upon settlement with customers pursuant to the terms of the contract.

These provisional pricing arrangements are accounted for separately from the contract as an embedded derivative instrument under ASC 815-30 "Derivatives and Hedging—Cash Flow Hedges." The Company sells copper in concentrate, anode, blister and refined form at industry standard commercial terms. Net sales include the invoiced value of copper, zinc, silver, molybdenum, sulfuric acid and other metals and the corresponding fair value adjustment of the

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related forward contract of copper and molybdenum. Disclosure regarding adjustments to sales for provisionally priced contracts is disclosed within Note 19 “Segment and related information”.

Cash and cash equivalents—

Cash and cash equivalents include bank deposits, certificates of deposit and short-term investment funds with original maturities of three months or less at the date of purchase. The carrying value of cash and cash equivalents approximates fair value.

Short-term investments—

The Company accounts for short-term investments in accordance with ASC 320-10 “Investments Debt and Equity Securities-Recognition.” The Company determines the appropriate classification of all short-term investments as held-to-maturity, available-for-sale or trading at the time of purchase and re-evaluates such classifications as of each balance sheet date. Unrealized gains and losses on available-for-sale investments, net of taxes, are reported as a component of accumulated other comprehensive income (loss) in stockholders’ equity, unless such loss is deemed to be other than temporary.

Inventories—

The Company principally produces copper and, in the production process, obtains several by-products, including molybdenum, silver, zinc, sulfuric acid and other metals.

Metal inventories, consisting of work-in-process and finished goods, are carried at the lower of average cost or net realizable value (NRV). Costs of work-in-process inventories and finished goods mainly include power, labor, fuel, operating and repair materials, depreciation, amortization, depletion, and other necessary costs related to the extraction and processing of ore, including mining, milling, concentrating, smelting, refining, leaching and chemical processing. Costs incurred in the production of metal inventories exclude general and administrative costs. Once molybdenum, silver, zinc and other by-products are identified, they are transferred to their respective production facilities and the incremental cost required to complete production is assigned to their inventory value.

Work-in-process inventories represent materials that are in the process of being converted into a saleable product. Conversion processes vary depending on the nature of the copper ore and the specific mining operation. For sulfide ores, processing includes milling and concentrating and results in the production of copper and molybdenum concentrates.

Finished goods include saleable products (e.g., copper concentrates, copper anodes, copper cathodes, copper rod, molybdenum concentrate and other metallurgical products).

Supplies inventories are carried at the lower of average cost or net realizable value (NRV).

Long-term inventory-Ore stockpiles on leach pads.

The leaching process is an integral part of the mining operations carried out at the Company’s open-pit mines. The Company capitalizes the production cost of leachable material at its Toquepala, La Caridad and Buenavista mines, recognizing it as inventory. This cost includes mining and haulage costs incurred to deliver ore to leach pads, depreciation, amortization, depletion and site overhead costs. The estimates of recoverable mineral content contained in the leaching dumps are supported by engineering studies. As the production cycle of the leaching process is significantly longer than the conventional process of concentrating, smelting and electrolytic refining, the Company includes current leach inventory (included in work-in-process inventories) and long-term leach inventory on its balance sheet.

The capitalization of long-term inventory-Ore stockpiles in leach pads is based on the allocation of copper content recoverable between ore and leach material. In addition, inventory consumption is valued at the average unit cost.

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Property—

Property is recorded at acquisition cost, net of accumulated depreciation and amortization. Cost includes major expenditures for improvements and replacements, which extend useful lives or increase capacity and interest costs associated with significant capital additions. Maintenance, repairs, normal development costs at existing mines and gains or losses on assets retired or sold are reflected in earnings as incurred.

Buildings and equipment are depreciated on the straight-line method over estimated lives from two to 50 years or the estimated life of the mine if shorter.

Mine development—

Mine development includes primarily the cost of acquiring land rights to an exploitable ore body, pre-production stripping costs at new mines that are commercially exploitable, costs associated with bringing new mineral properties into production, and removal of overburden to prepare unique and identifiable areas outside the current mining area for such future production. Mine development costs are amortized on a unit of production basis over the remaining life of the mines.

Diverse practices exist in the mining industry relative to the treatment of drilling and other related costs to delineate new mineral reserves. The Company follows the practices outlined in the next two paragraphs in its treatment of drilling and related costs.

Drilling and other associated costs incurred in the Company's efforts to delineate new resources, whether near-mine or Greenfield are expensed as incurred. These costs are classified as mineral exploration costs. Once the Company determines through feasibility studies that proven and probable reserves exist and that the drilling and other associated costs embody a probable future benefit that involves a capacity, singly or in combination with other assets, to contribute directly or indirectly to future net cash inflow, then the costs are classified as mine development costs. These mine development costs incurred prospectively to develop the property are capitalized as incurred, until the commencement of production, and are amortized using the units of production method over estimated life of the ore body. During the production stage, drilling and other related costs incurred to maintain production are included in production cost in the period in which they are incurred.

Drilling and other related costs incurred in the Company's efforts to delineate a major expansion of reserves at an existing production property are expensed as incurred. Once the Company determines through feasibility studies that proven and probable incremental reserves exist and that the drilling and other associated costs embody a probable future benefit that involves a capacity, singly or in combination with other assets, to contribute directly or indirectly to future net cash inflow, then the costs are classified as mine development costs. These incremental mine development costs are capitalized as incurred, until the commencement of production and amortized using the units of production method over the estimated life of the ore body. A major expansion of reserves is one that increases total reserves at a property by approximately 10% or more.

For the years ended December 31, 2022, 2021 and 2020, the Company did not capitalize any drilling and related costs.

Asset retirement obligations (reclamation and remediation costs)—

The fair value of a liability for asset retirement obligations is recognized in the period in which the liability is incurred. The liability is measured at fair value and is adjusted to its present value in subsequent periods as accretion expense is recorded. The corresponding asset retirement costs are capitalized as part of the carrying value of the related long-lived assets and depreciated over the asset's useful life.

Intangible assets—

Intangible assets include primarily the excess amount paid over the book value for investment shares, which are presented as mining concessions, and mining and engineering development studies. Intangible assets are carried at

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acquisition costs, net of accumulated amortization and are amortized principally on a unit of production basis over the estimated remaining life of the mines. Intangible assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of the asset may not be recoverable.

Debt issuance costs—

Debt issuance costs related to a recognized debt liability are presented in the balance sheet as a direct deduction from the carrying amount of that debt liability, consistent with the treatment of a debt discount.

Mineral reserves—

The Company periodically reevaluates estimates of its mineral reserves, which represent the Company's estimate as to the amount of unmined copper remaining in its existing mine locations that can be produced and sold at a profit. Such estimates are based on engineering evaluations derived from samples of drill holes and other openings, combined with assumptions about copper market prices and production costs at each of the respective mines.

The Company updates its estimate of mineral reserves at the beginning of each year. In 2021, the Company adopted SEC's mining property disclosure requirements (Regulation S-K, Subpart 1300). Consequently, in 2021 and 2022, the Company based its mineral reserve estimates on a long-term price assumption of \$3.30 per pound of copper. Mineral reserves at the end of 2020 were estimated under previous standards at current prices per pound of copper of \$2.816. The ore reserve estimates are used to determine the amortization of mine development and intangible assets.

Once the Company determines through feasibility studies that proven and probable reserves exist and that drilling and other associated costs embody a probable future benefit that involves a capacity, singly or in combination with other assets, to contribute directly or indirectly to future net cash inflow, then the costs are classified as mine development costs and the Company discloses the related mineral reserves.

Exploration—

Tangible and intangible costs incurred in the search for mineral properties are charged against earnings when incurred.

Income taxes—

Provisions for income taxes are based on taxes payable or refundable for the current year and deferred taxes on temporary differences between the amount of taxable income and pretax financial income and between the tax bases of assets and liabilities and their reported amounts in the financial statements. Deferred tax assets and liabilities are included in the financial statements at currently enacted income tax rates applicable to the period in which the deferred tax assets and liabilities are expected to be realized and settled as prescribed in ASC 740 "Income taxes." As changes in tax laws or rates are enacted, deferred tax assets and liabilities are adjusted through the provision for income taxes. Deferred income tax assets are reduced by any benefits that, in the opinion of management, are more likely not to be realized.

The Company's operations involve dealing with uncertainties and judgments in the application of complex tax regulations in multiple jurisdictions. The final taxes paid are dependent upon many factors, including negotiations with tax authorities in various jurisdictions and resolution of disputes arising from federal, state, and international tax audits. The Company recognizes potential liabilities and records tax liabilities for anticipated tax audit issues in the U.S. and other tax jurisdictions based on its estimate of whether, and the extent to which, additional taxes will be due. The Company follows the guidance of ASC 740 "Income taxes" to record these liabilities. (See Note 7 "Income taxes" of the consolidated financial statements for additional information). The Company adjusts these reserves in light of changing facts and circumstances; however, due to the complexity of some of these uncertainties, the ultimate resolution may result in a payment that is materially different from the Company's current estimate of the tax liabilities. If its estimate of tax liabilities proves to be less than the ultimate assessment, an additional charge to expense would result. If payment of these amounts ultimately proves to be less than the recorded amounts, the reversal of the liabilities would result in tax benefits being recognized in the period when the Company determines the liabilities are no longer necessary.

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The Company classifies income tax-related interest and penalties as income taxes in the financial statements, as well as interest and penalties, if any, related to unrecognized tax benefits.

Foreign exchange—

The Company's functional currency is the U.S. dollar. As required by local law, both the Peruvian Branch and Minera Mexico maintain their books of accounts in Peruvian soles and Mexican pesos, respectively. Foreign currency assets and liabilities are remeasured into U.S. dollars at current exchange rates, except for non-monetary items such as inventory, property, intangible assets and other assets which are remeasured at historical exchange rates. Revenues and expenses are generally translated at actual exchange rates in effect during the period, except for those items related to balance sheet amounts that are remeasured at historical exchange rates. Gains and losses from foreign currency remeasurement are included in earnings of the period.

Gains and (losses) resulting from foreign currency transactions are included in "Cost of sales (exclusive of depreciation, amortization and depletion)."

Asset impairments -

The Company evaluates long-term assets when events or changes in economic circumstances indicate that the carrying amount of such assets may not be recoverable. These evaluations are based on business plans that are prepared using a time horizon that is reflective of the Company's expectations of metal prices over its business cycle. The Company is currently using a long-term average copper price and an average molybdenum price for impairment tests, reflective of what the Company believes is the lower level of the current price environment. The results of its impairment tests using these long-term copper and molybdenum prices show no impairment in the carrying value of their assets.

The Company uses an estimate of the future undiscounted net cash flows of the related asset or asset group over the remaining life to measure whether the assets are recoverable and measures any impairment by reference to fair value.

Other comprehensive income—

Comprehensive income represents changes in equity during a period, except those resulting from investments by owners and distributions to owners. During the fiscal years ended December 31, 2022, 2021 and 2020, the components of "other comprehensive income (loss)" were, the unrecognized gain (loss) on employee benefit obligations and unrealized gain (loss) on derivative instruments classified as cash flow hedge.

Business segments-

Company management views Southern Copper as having three reportable segments and manages it on the basis of these segments. The segments identified by the Company are: 1) the Peruvian operations, which include the two open-pit copper mines in Peru and the plants and services supporting such mines, 2) the Mexican open-pit copper mines, which include La Caridad and Buenavista mine complexes and their supporting facilities and 3) the Mexican underground mining operations, which include five underground mines that produce zinc, lead, copper, silver and gold, a coal mine and a zinc refinery. Please see Note 19 "Segments and Related Information."

The Chief Operating Decision Maker of the Company focuses on operating income as measure of performance to evaluate different segments, and to make decisions to allocate resources to the reported segments. This is a common measure in the mining industry.

Leases -

The Company adopted FASB ASC 842, Leases, effective January 1, 2019. The Company determined if a contract is or contained a lease at its inception. The Company evaluated if a contract gave the right to obtain substantially all of the economic benefits from use of an identified asset and the right to direct the use of the asset, in order to determine if a contract contained a lease. All of the Company's existing lease contracts are operating lease contracts. For these leases, the Company recognized right-of-use assets and the corresponding operating lease liabilities on its consolidated balance

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sheet. Right-of-use assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent an obligation by the Company to make lease payments which arise from the lease. Lease right-of-use assets and liabilities are recognized at the inception date based on the present value of lease payments over the lease term. As the Company's lease contracts do not provide an implicit rate, the Company uses its incremental borrowing rate based on the information available at the inception date in order to determine the present value of lease payments. Lease expense for lease payments is recognized on a straight-line basis over the lease term, in the cost of sales and operating expenses. The Company elected the transition approach whereby it applied the new leases standard at the adoption date and recognized a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption. The Company elected the short-term lease recognition exemption (short-term lease practical expedient) by class of underlying asset (which results in off-balance-sheet accounting for the lease).

NOTE 3—SHORT-TERM INVESTMENTS:

Short-term investments were as follows (\$ in millions):

	At December 31,	
	2022	2021
Trading securities	\$ 208.0	\$ 486.5
Weighted average interest rate	4.5 %	0.3 %
Available-for-sale	\$ 0.3	\$ 0.4
Weighted average interest rate	0.8 %	0.7 %
Total	<u>\$ 208.3</u>	<u>\$ 486.9</u>

Trading securities consist of bonds issued by public companies and are publicly traded. Each financial instrument is independent of the others. The Company has the intention to sell these bonds in the short-term.

Available-for-sale investments consist of securities issued by public companies. Each security is independent of the others and, as of December 31, 2022 and 2021, included asset and mortgage backed obligations. As of December 31, 2022 and 2021, gross unrealized gains and losses on available-for-sale securities were not material.

The Company earned interest related to these investments, which was recorded as interest income in the consolidated statement of earnings. Also the Company redeemed some of these securities and recognized gains (losses) due to changes in fair value, which were recorded as other income (expense) in the consolidated statement of earnings.

The following table summarizes the activity of these investments by category (in millions):

	Years ended December 31,	
	2022	2021
Trading:		
Interest earned	\$ 4.4	\$ 1.4
Unrealized gain (loss) at the end of the period	\$ (*)	\$ 0.1
Available-for-sale:		
Interest earned	\$ (*)	\$ (*)
Investment redeemed	\$ 0.1	\$ 0.2

(*) Less than \$0.1 million

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At December 31, 2022 and 2021, contractual maturities of the available-for-sale debt securities are as follows (in millions):

	<u>2022</u>	<u>2021</u>
One year or less	\$ —	\$ —
Maturing after one year through five years	—	—
Maturing after five years through ten years	—	—
Due after 10 years	0.3	0.4
Total debt securities	<u>\$ 0.3</u>	<u>\$ 0.4</u>

NOTE 4—INVENTORIES:

<u>(in millions)</u>	<u>At December 31,</u>	
	<u>2022</u>	<u>2021</u>
Inventory, current:		
Metals at average cost:		
Finished goods	\$ 78.5	\$ 58.6
Work-in-process	330.5	340.7
Ore stockpiles on leach pads	259.7	259.7
Supplies at average cost	345.2	313.9
Total current inventory	<u>\$1,013.9</u>	<u>\$ 972.9</u>
Inventory, long-term:		
Ore stockpiles on leach pads	<u>\$1,064.3</u>	<u>\$1,097.6</u>

Total leaching costs added as long-term inventory of ore stockpiles in leach pads amounted to \$264.3 million, \$247.4 million and \$194.0 million in 2022, 2021 and 2020, respectively. Long-term leaching inventories recognized as cost of sales amounted to \$297.5 million, \$313.7 million and \$359.1 million in 2022, 2021 and 2020, respectively.

NOTE 5—PROPERTY:

<u>(in millions)</u>	<u>At December 31,</u>	
	<u>2022</u>	<u>2021</u>
Buildings and equipment	\$ 16,718.3	\$ 15,993.8
Construction in progress	1,747.0	1,668.0
Mine development	273.2	273.2
Mineral assets	83.2	83.2
Land, other than mineral	275.4	258.6
Total property	19,097.1	18,276.8
Accumulated depreciation, amortization and depletion	(9,500.5)	(8,812.4)
Total property and mine development, net	<u>\$ 9,596.6</u>	<u>\$ 9,464.4</u>

Depreciation and depletion expense for the years ended December 31, 2022, 2021 and 2020, amounted to \$790.3 million, \$797.3 million and \$766.4 million, respectively.

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(in millions)	At December 31,	
	2022	2021
Mining concessions	\$ 121.2	\$ 121.2
Mine engineering and development studies	19.8	19.8
Software	70.3	65.4
	<u>211.3</u>	<u>206.4</u>
Accumulated amortization:		
Mining concessions	(42.2)	(40.4)
Mine engineering and development studies	(19.2)	(18.2)
Software	(57.1)	(51.6)
	<u>(118.5)</u>	<u>(110.2)</u>
Goodwill	41.9	41.9
Intangible assets, net	<u>\$ 134.7</u>	<u>\$ 138.1</u>

Amortization of intangibles for the years ended December 31, 2022, 2021 and 2020, amounted to \$7.3 million, \$8.7 million and \$9.2 million, respectively. Estimated amortization is as follows:

Estimated amortization expense (in millions):	
2023	\$ 6.9
2024	5.8
2025	5.1
2026	1.8
2027	1.8
Total 2023 - 2027	<u>\$ 21.4</u>
Average annual	<u>\$ 4.3</u>

Goodwill includes \$17.0 million generated in 1997 as a result of purchasing a third party interest in the Buenavista mine. It also includes \$24.9 million representing the amount of the purchase price in excess of the fair value of the net assets acquired from El Pilar mine. This goodwill is attributable to future benefits that the Company expects to realize from the mine and will not be deductible for income tax purposes.

NOTE 7—INCOME TAXES:

Since March 2009, Grupo Mexico, through its wholly-owned subsidiary AMC, owns an interest in excess of 80% of SCC. Accordingly, SCC's results are included in the consolidated tax return for AMC for U.S. federal income tax reporting.

In accordance with its policy regarding use of estimates, the Company estimates income taxes currently payable or receivable as well as deferred income tax assets and liabilities attributable to temporary differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases. The Company provides current and deferred income taxes, as if it were filing a separate U.S. federal income tax return.

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The components of the provision for income taxes for the three years ended December 31, 2022, are as follows:

(in millions)	<u>2022</u>	<u>2021</u>	<u>2020</u>
U.S. federal and state:			
Current	\$ 0.1	\$ —	\$ —
Deferred	—	—	—
Uncertain tax positions	—	—	—
	<u>0.1</u>	<u>—</u>	<u>—</u>
Foreign (Peru and Mexico):			
Current	1,443.1	2,425.5	1,237.9
Deferred	118.6	(126.3)	(63.5)
Uncertain tax positions	34.3	—	—
	<u>1,596.0</u>	<u>2,299.2</u>	<u>1,174.4</u>
Total provision for income taxes	<u>\$ 1,596.1</u>	<u>\$ 2,299.2</u>	<u>\$ 1,174.4</u>

The source of income is as follows:

(in millions)	<u>2022</u>	<u>2021</u>	<u>2020</u>
Earnings by location:			
U.S.	\$ 0.5	\$ (32.4)	\$ (15.3)
Foreign			
Peru	1,167.8	1,962.8	723.9
Mexico	3,079.5	3,766.4	2,037.2
	<u>4,247.3</u>	<u>5,729.2</u>	<u>2,761.1</u>
Earnings before taxes on income	<u>\$ 4,247.8</u>	<u>\$ 5,696.8</u>	<u>\$ 2,745.8</u>

The reconciliation of the statutory income tax rate to the effective tax rate for the three years ended December 31, 2022, is as follows (in percentage points):

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Expected tax at U.S. statutory rate	21.0 %	21.0 %	21.0 %
Foreign tax at other than statutory rate, net of foreign tax credit benefit (1)	14.7	13.8	13.7
Percentage depletion	(2.1)	(1.8)	(2.2)
Other permanent differences	(0.1)	(0.3)	0.1
Additional valuation allowance on U.S. deferred tax assets, foreign tax credits and U.S. tax effect on Peruvian deferred taxes	5.5	8.4	8.9
Increase (decrease) in unrecognized tax benefits for uncertain tax positions	1.5	(0.5)	(0.1)
Amounts (over) / under provided in prior years	(1.7)	—	(0.1)
Other	(1.2)	(0.2)	1.5
Effective income tax rate	<u>37.6 %</u>	<u>40.4 %</u>	<u>42.8 %</u>

(1) Foreign tax at other than statutory rates, net of foreign tax credit benefit, also includes the effects of permanent differences in Peru and Mexico, that are determined at the local statutory rate.

The Company files income tax returns in three jurisdictions; Peru, Mexico and the United States. For the three years presented above, the statutory income tax rate for Mexico was 30%, the United States tax rate was 21%, and the Peruvian tax rate was 29.5%. While the largest components of income taxes are the Peruvian and Mexican taxes, the Company is a domestic U.S. entity. Therefore, the rate used in the above reconciliation is the U.S. statutory rate.

For all of the years presented, both the Peruvian branch and Minera Mexico filed separate tax returns in their respective tax jurisdictions. Although the tax rules and regulations imposed in the separate tax jurisdictions may vary significantly, similar permanent items exist, such as items which are nondeductible or nontaxable. Some permanent differences relate specifically to SCC such as the allowance in the United States for percentage depletion.

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Deferred taxes include the U.S., Peruvian and Mexican tax effects of the following types of temporary differences and carryforwards:

(in millions)	At December 31,	
	2022	2021
Assets:		
Inventories	\$ 28.5	\$ 78.0
Capitalized exploration expenses	12.4	12.5
U.S. foreign tax credit carryforward, net of Uncertain Tax Positions	1,653.5	1,479.2
U.S. tax effect of Peruvian deferred tax liability	112.5	75.0
U.S. tax effect of Peruvian Uncertain Tax Positions	45.1	—
Reserves	249.6	284.5
Property, plant and equipment	—	9.5
Deferred workers participation	15.9	11.1
Accrued salaries, wages and vacations	7.4	8.2
Sales price adjustment (PUI)	—	2.6
Social responsibility expenses	—	5.1
Deferred charges	28.6	31.6
Valuation allowance on U.S. deferred tax assets, foreign tax credits and U.S. tax effect of Peruvian deferreds	(2,053.7)	(1,820.0)
Accrued royalty and special mining tax	10.8	23.3
Other	21.9	5.5
Total deferred tax assets	<u>132.5</u>	<u>206.1</u>
Liabilities:		
Property, plant and equipment	(19.7)	—
Social responsibility expenses	(7.7)	—
Sales price adjustment (PUI)	(29.0)	—
Other	—	(8.2)
Total deferred tax liabilities	<u>(56.4)</u>	<u>(8.2)</u>
Total net deferred tax (liabilities) / assets	<u>\$ 76.1</u>	<u>\$ 197.9</u>

The valuation allowance increased by \$233.7 million in 2022, which was primarily due to the valuation of unutilized Foreign Tax Credits generated in 2022 and the valuation of the anticipatory foreign tax credits for the U.S. Tax effect of Peruvian deferred tax and uncertain tax position liabilities. The Peru branch operations are taxed in the U.S. as a flow through entity to SCC. Since the Peruvian tax rate of 29.5% now exceeds the U.S. tax rate of 21% it is the expectation of management that it is more likely than not that the benefit of excess credits generated in the current year will not be realizable.

U.S. Tax Matters—

As of December 31, 2022, the Company considers its ownership of the stock of Minera Mexico to be essentially permanent in duration. Income from subsidiaries, such as Minera Mexico, is included in the Global Intangible Low Tax Income or GILTI on a current year basis.

GILTI imposes a tax on foreign income in excess of a deemed return on tangible assets of foreign corporations. The Company has not had U.S. tax liability from the GILTI inclusion since introduction of this tax in 2018 and does not anticipate a tax in the future because of increased fixed asset amounts and the Mexican tax rate of 30%. No U.S. deferred taxes have been recorded as the Company has elected that if GILTI were to apply in the future, a current period expense would be recorded when incurred.

The Base Erosion Anti-Abuse Tax (“BEAT”) is a 10% minimum tax for the years 2019 through 2025 and 12.5% in years thereafter. It is calculated on a base equal to the Company’s income determined without the tax benefit arising

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from base erosion payments. Since this tax was imposed in 2018 the Company has had no U.S. tax liability for BEAT since it has met the safe harbor rule that provides a Company not to be subject to the BEAT if related party payments from the U.S. to foreign entities does not exceed 3% of expenses excluding cost of goods sold. The Company must continue to analyze applicability of the BEAT provisions on a yearly basis.

As of December 31, 2022, \$903.6 million of the Company's total cash, cash equivalents and short-term investments of \$2,278.0 million were held by foreign subsidiaries. The cash, cash equivalents and short-term investments maintained in our foreign operations are generally used to cover local operating and investment expenses. The Company has determined that as of December 31, 2022, a deferred tax asset of \$0.3 billion exists with respect to its investment in foreign subsidiaries. Tax accounting guidance provided in ASC 740 requires this asset to be recognized only if the basis difference will reverse in the foreseeable future. Management has no plans that would result in the reversal of this temporary difference and consequently no deferred tax asset has been recorded. Future dividends from these subsidiaries may not be subject to federal income tax in the U.S., and the Company incurs no state income tax liability. Additionally, there are no withholding taxes due to the tax treaty between the United States and Mexico. Distributions of earnings from the Company's Peruvian branch to the United States are not subject to U.S. taxes on repatriation. The Company's branch operations are not foreign corporations. They are rather mainly comprised of operations that are branches of the Company's U.S. operations and taxed on a current basis.

As of December 31, 2022, there were \$1,670.7 million of foreign tax credits available for carryback or carryforward. These credits have a one-year carryback and a ten-year carryforward period and can only be used to reduce U.S. income tax on foreign earnings. There were no other unused U.S. tax credits as of December 31, 2022. These credits will expire if not utilized by the end of the years listed below:

<u>Year</u>	<u>Amount</u>
2024	72.2
2025	146.7
2026	96.1
2027	—
2028	175.0
2029	219.9
2030	247.6
2031	582.2
2032	131.0
Total	<u>\$ 1,670.7</u>

These foreign tax credits are presented above on a gross basis and have not been adjusted for any unrecognized tax benefits. In accordance with ASC 740, the Company has recorded \$17.2 million for the U.S. jurisdiction unrecognized tax benefit as an offset to the Company's deferred tax asset for foreign tax credits. The remaining foreign tax credits of \$1,653.5 million have a full valuation allowance against them at December 31, 2022. It is the expectation of management that with the reduction in the U.S. corporate tax rate to 21% and considering the corporate tax rates in Mexico of 30% and in Peru at 29.5%, it is unlikely the excess foreign tax credits can be utilized. Additionally, foreign dividends may no longer be taxed in the U.S. due to the GILTI rules and thereby reducing the U.S. tax on the foreign source income and limiting the ability to utilize foreign tax credits generated before the 2017 Tax Cuts and Jobs Act.

On December 28, 2021, the U.S. Treasury and the IRS released final regulations addressing various aspects of the foreign tax credit regime. The regulations apply to years beginning after December 28, 2021. The Company reviewed and revised the foreign tax credits generated under the new regulations, which is not expected to have a material impact on the Company's financial statements as excess foreign tax credits generated are fully valued. See below for discussion of Peruvian tax matters and Peruvian Special Mining Tax.

On August 16, 2022, the U.S. enacted the Inflation Reduction Act of 2022 (the "Inflation Reduction Act"), which includes, among other provisions, (i) a new corporate alternative minimum tax of 15% on the adjusted financial statement income (AFSI) of corporations with average AFSI exceeding \$1.0 billion over a three-year period, and (ii) a new excise tax of 1% on the fair market value of net corporate stock repurchases. The provisions of the Inflation

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Reduction Act are effective for tax years beginning in fiscal year 2023. The Company continues to analyze the impacts that the Inflation Reduction Act will have on future operating results.

Beginning in fiscal year 2022, the U.S. Tax Cuts and Jobs Act of 2017 (“TCJA”) enactment of IRC Section 174 requires the capitalization and amortization of research and experimental expenditures. The Company does not believe this legislation will have a material impact on the Company’s Consolidated Financial Statements and will continue to assess the effects.

Peruvian Tax Matters—

Mining royalty charge: The royalty charge is based on operating income margins with graduated rates ranging from 1% to 12% of operating profits, with a minimum royalty charge assessed at 1% of net sales. The minimum royalty charge is recorded as cost of sales and those amounts assessed at higher rates are included in the income tax provision. The Company has accrued \$71.4 million, \$140.8 million and \$60.6 million of royalty charges in 2022, 2021 and 2020, respectively, of which \$35.8 million, \$97.8 million and \$31.4 million were included in income taxes in 2022, 2021 and 2020, respectively.

Peruvian special mining tax: This tax is based on operating income with graduated rates increasing from 2% to 8.4%. The Company recognized \$56.4 million, \$114.0 million and \$50.0 million in 2022, 2021 and 2020, respectively, with respect to this tax. These amounts were included as income taxes in the Consolidated Statement of Earnings.

Mexican Tax Matters—

Since 2014, Mexican operations have been required to pay a mining royalty of 7.5% on taxable earnings before taxes and an additional royalty of 0.5% over gross income from sales of gold, silver and platinum: \$1.5 million.

On October 26, 2021, the Federal Executive submitted the 2022 Economic Package. The Federal Revenue Law for fiscal year 2022 went into effect on January 1, 2022. The aforementioned proposal does not include any major changes and mostly addresses administrative issues; it does not include tax increases or new taxes.

Accounting for Uncertainty in Income Taxes—

The total amount of unrecognized tax benefits in 2022, 2021 and 2020, was as follows (in millions):

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Unrecognized tax benefits, opening balance	\$ —	\$ 66.1	\$ 58.4
Gross decreases—tax positions in prior period	—	(10.9)	—
Gross increases—tax positions in prior period	130.9	—	—
Gross increases—current-period tax positions	—	—	7.7
Gross decreases—current-period tax positions	(10.7)	(1.1)	—
Decreases related to settlements with taxing authorities	(37.5)	(54.1)	—
	<u>82.7</u>	<u>(66.1)</u>	<u>7.7</u>
Unrecognized tax benefits, ending balance	<u>\$ 82.7</u>	<u>\$ —</u>	<u>\$ 66.1</u>

The company recognizes interest and penalties related to unrecognized tax benefits as a component of the provision for income taxes within the Consolidated Statements of Earnings. For the Peruvian jurisdiction, in addition to the unrecognized tax benefits of \$38.8 million, the Company recorded \$26.7 million of accrued interest and penalties.

The amount of unrecognized tax benefits that, if recognized, would affect the effective tax rate was \$65.5 million at December 31, 2022 and relates entirely to the Peruvian jurisdiction. Any recognition of unrecognized tax benefits within the U.S. jurisdiction would not affect the effective tax rate as long as the Company continues to value U.S. deferred tax assets including foreign tax credits. Offsetting expense related to the change in liability for uncertain tax positions within the U.S. jurisdiction and the change in valuation allowance of the U.S. deferred tax asset for foreign tax credits was

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presented as a net amount in the components of income taxes. The Company has no unrecognized Mexican tax benefits as of December 31, 2022.

The company expects that foreign exchange rates will have an impact on the amount of unrecognized tax benefits in the Peruvian jurisdiction.

As of December 31, 2022 and December 31, 2021, the Company's liability for uncertain tax positions did not include accrued interest and penalties in the U.S. jurisdiction. As of December 31, 2022 the Company's liability for uncertain tax positions included accrued interest and penalties of \$26.7 million in the Peruvian jurisdiction.

The following tax years remain open to examination and adjustment in the Company's three major tax jurisdictions:

Peru:	2017 and all subsequent years
U.S.:	2017 and all subsequent years
Mexico:	2017 and all subsequent years

Management does not expect that any of the open years will result in a cash payment within the U.S. jurisdiction in the upcoming twelve months ending December 31, 2023. Management expects to make cash payments of \$24.8 million within the Peruvian jurisdiction in the upcoming twelve months ending December 31, 2023.

NOTE 8—WORKERS' PARTICIPATION:

The Company's operations in Peru and Mexico are subject to statutory workers' participation.

In Peru, the provision for workers' participation is calculated at 8% of pre-tax earnings. The current portion of this participation, which is accrued during the year, is based on the Peruvian Branch's taxable income and is distributed to workers following determination of final results for the year. The annual amount payable to an individual worker is capped at the worker's salary for an 18 month period. Amounts determined in excess of the 18 months of worker's salary is no longer made as a payment to the worker and is levied first for the benefit of the "Fondo Nacional de Capacitacion Laboral y de Promocion del Empleo" (National Workers' Training and Employment Promotion Fund) until this entity receives from all employers in its region an amount equivalent to 2,200 Peruvian taxable units (approximately \$2.7 million in 2022). Any remaining excess is levied as payment for the benefit of the regional governments. These levies fund worker training, employment promotion, entrepreneurship and various other programs.

In Mexico, workers' participation is determined using the guidelines established in the Mexican income tax law at a rate of 10% of pre-tax earnings as adjusted by the tax law. In 2021, there was a change in the Ley Federal del Trabajo ("Federal Labor Law"), effective in 2022. Under this change, the amount payable to a worker cannot be higher than the maximum between the worker's salary for a three-month period and the average of the participation received in the last three years.

The provision for workers' participation is allocated to "Cost of sales (exclusive of depreciation, amortization and depletion)". Workers' participation expense for the three years ended December 31, 2022 was as follows (in millions):

	2022	2021	2020
Current	\$ 347.2	\$ 344.5	\$ 248.5
Deferred	29.1	(72.8)	19.8
	<u>\$ 376.3</u>	<u>\$ 271.7</u>	<u>\$ 268.3</u>

NOTE 9—LEASES:

The Company has operating leases for power generating facilities, vehicles and properties. The Company recognizes lease expense for these leases on a straight-line basis over the lease term. Some of the

Company's leases include both lease and non-lease components which are accounted for separately. The Company's leases have remaining lease terms

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of less than one year to 10 years, and do not include options to extend the leases. The Company's lease agreements do not contain options to purchase the leased assets or to terminate the leases before the expiration date. In addition, the Company's lease contracts do not have any material residual value guarantees or material restrictive covenants. As none of the Company's leases provides an implicit rate, the Company uses its incremental borrowing rate based on the information available at commencement date in determining the present value of lease payments.

The weighted average remaining lease term for the Company's leases is eight years, and the weighted average discount rate for these leases is 3.87%.

The operating lease expense recognized in the years ended December 31, 2022, 2021 and 2020 was classified as follows (in millions):

Classification	2022	2021	2020
Cost of sales (exclusive of depreciation, amortization and depletion)	\$ 115.5	\$ 108.1	\$ 114.4
Selling, general and administrative	0.1	0.1	0.2
Exploration	0.1	0.2	0.2
Total lease expense	\$ 115.7	\$ 108.4	\$ 114.8

Maturities of lease liabilities are as follows:

Year	Lease liabilities (in millions)
2023	\$ 115.5
2024	107.5
2025	106.2
2026	106.0
2027	105.7
After 2027	523.4
Total lease payments	\$ 1,064.3
Less: interest on lease liabilities	(212.9)
Present value of lease payments	\$ 851.4

NOTE 10—ASSET RETIREMENT OBLIGATION:

Peruvian operations:

The Company maintains an asset retirement obligation for its mining properties in Peru, as required by the Peruvian Mine Closure Law. In accordance with the requirements of this law the Company's closure plans were approved by the Peruvian Ministry of Energy and Mines ("MINEM"). As part of the closure plans, the Company is required to provide annual guarantees over the estimated life of the mines, based on a present value approach, and to furnish the funds for the asset retirement obligation. This law requires a review of closing plans every five years.

On June 24, 2019, MINEM approved a change to the guarantees required for the mining closure plans. The new regulation specifies that annual guarantees can be secured with real estate up to a maximum of 50% and the remaining amount with credit instruments. Currently, the Company has pledged the value of its Lima office complex for the 50% of the guarantee and with a stand-by letter of credit for the other 50% as security for this obligation. Through January 2023, the Company provided total guarantees of \$77.1 million.

On July 20, 2021, the Peruvian Government published Law 31347, which requires companies in the production stage to set aside additional guarantees for progressive closure of its operations. The resources that back these guarantees will be returned to the Company when activities cease and the regulatory agency verifies that all closure measures have been satisfactorily completed. Under this Law, companies must include activities for environmental remediation within the closure schedule and assume costs associated with environmental impacts that are identified during audits. As of

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December 31, 2022, the regulation attached to this Law had yet to be published. The Company is currently evaluating the possible financial impact of the Law but cannot fully estimate the magnitude until the Law's regulation is published.

The closure cost recognized for this liability includes the cost, as outlined in its closure plans, of dismantling the Toquepala and Cuajone concentrators, the Ilo smelter and refinery, and the shops and auxiliary facilities at the three units. In March 2016, MINEM approved the Mining Closure Plan for the Toquepala expansion project and the revised closure plans for the Cuajone mine and the Ilo facilities were approved in January and October 2019, respectively. As a result of these new estimates, the Company increased the asset retirement obligation by \$28.1 million in 2019. The closure plan for the Tia Maria project was approved in February 2017. The Company, however, has not recorded a retirement obligation for the project because the work on the project is on hold. The Company believes that under these circumstances the recording of a retirement obligation is not appropriate.

In 2022, the Company made a change in the estimate for the asset retirement obligation for its Peruvian operations, mainly due to a detailed review of the closing activities required for each facility. The effect of this change was a decrease in the asset retirement liability by \$59.5 million, which was recorded in December 2022, reducing the asset retirement asset by \$43.3 million and the difference of \$16.2 million was recorded as a reduction in cost of goods sold.

Mexican operations:

The Company has recognized an estimated asset retirement obligation for its mining properties in Mexico as part of its environmental commitment. Even though there is currently no enacted law, statute, ordinance, written or oral contract requiring the Company to carry out mine closure and environmental remediation activities, the Company believes that an obligation presently exists based on historical government requirements for the closure of any facility. The overall cost recognized for mining closure in Mexico includes the estimated costs of dismantling concentrators, smelter and refinery plants, shops and other facilities.

In the first quarter of 2022, the Company adjusted its estimate for the asset retirement obligation for its Mexican operations following a detailed review of the closing activities required. The effect was an increase in the asset retirement obligation to the order of \$43.3 million.

The following table summarizes the asset retirement obligation activity for the years ended December 31, 2021 and 2020 (in millions):

	<u>2022</u>	<u>2021</u>
Balance as of January 1	\$ 562.9	\$ 545.0
Changes in estimates	(10.8)	—
Additions	11.9	
Closure payments	(7.1)	(5.6)
Accretion expense	28.4	23.5
Balance as of December 31,	<u>\$ 585.3</u>	<u>\$ 562.9</u>

[Table of Contents](#)**NOTE 11—FINANCING:***Long-term debt (in millions):*

	Face amount	Issuance discount	Issuance costs	Carrying value as of December 31, 2022
3.875% Senior unsecured notes due 2025	500	(0.7)	(0.7)	498.6
9.250% Yankee bonds due 2028	51.2	—	—	51.2
7.500% Senior unsecured notes due 2035	1,000	(11.0)	(7.3)	981.7
6.750% Senior unsecured notes due 2040	1,100	(6.6)	(5.2)	1,088.2
5.250% Senior unsecured notes due 2042	1,200	(17.6)	(5.9)	1,176.5
5.875% Senior unsecured notes due 2045	1,500	(15.4)	(8.2)	1,476.4
4.500% Minera Mexico Senior unsecured notes due 2050	1,000	(12.1)	(9.3)	978.6
Total	<u>\$ 6,351.2</u>	<u>\$ (63.4)</u>	<u>\$ (36.6)</u>	<u>6,251.2</u>
Less, current portion				—
Total long-term debt				<u>\$ 6,251.2</u>

	Face amount	Issuance discount	Issuance costs	Carrying value as of December 31, 2021
3.500% Senior unsecured notes due 2022	\$ 300	\$ (0.1)	\$ (0.2)	\$ 299.7
3.875% Senior unsecured notes due 2025	500	(1.0)	(1.0)	498.0
9.250% Yankee bonds due 2028	51.2	—	—	51.2
7.500% Senior unsecured notes due 2035	1,000	(11.6)	(7.6)	980.8
6.750% Senior unsecured notes due 2040	1,100	(6.7)	(5.4)	1,087.9
5.250% Senior unsecured notes due 2042	1,200	(18.1)	(6.0)	1,175.9
5.875% Senior unsecured notes due 2045	1,500	(15.8)	(8.3)	1,475.9
4.500% Minera Mexico Senior unsecured notes due 2050	1,000	(12.3)	(9.5)	978.2
Total	<u>\$ 6,651.2</u>	<u>\$ (65.6)</u>	<u>\$ (38.0)</u>	<u>6,547.6</u>
Less, current portion				(299.7)
Total long-term debt				<u>\$ 6,247.9</u>

The bonds, referred above as “Yankee bonds”, contain a covenant requiring Minera Mexico to maintain a ratio of EBITDA to interest expense of not less than 2.5 to 1.0 as such terms are defined in the debt instrument. At December 31, 2022, Minera Mexico was in compliance with this covenant.

Between July 2005 and April 2015 the Company issued fixed-rate senior unsecured notes eight times for a total of \$6.2 billion, as listed above. Interest on the notes is paid semi-annually in arrears. The notes rank *pari passu* with each other and rank *pari passu* in right of payment with all of the Company’s other existing and future unsecured and unsubordinated indebtedness. Net proceeds are being used for general corporate purposes, including the financing of the Company’s capital investment program. The notes were issued with an underwriters’ discount. The unamortized balance of the discount and the costs of these notes are presented net of the carrying value of the debt issued and are amortized as interest expense over the life of the loan.

The indentures relating to the notes contain certain restrictive covenants, including limitations on liens, limitations on sale and leaseback transactions, rights of the holders of the notes upon the occurrence of a change of control triggering event, limitations on subsidiary indebtedness and limitations on consolidations, mergers, sales or conveyances. Certain of these covenants cease to be applicable before the notes mature if the Company obtains an investment grade rating. The Company obtained investment grade rating in 2005. The Company has registered these notes under the Securities Act of 1933, as amended. The Company may issue additional debt from time to time pursuant to certain of the indentures.

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If the Company experiences a “Change of Control Triggering Event”, the Company must offer to repurchase the notes at a purchase price equal to 101% of the principal amount thereof, plus accrued and unpaid interest, if any. A Change of Control Trigger Event means a Change of Control (as defined) and a rating decline (as defined), that is, if the rating of the notes, by at least one of the rating agencies shall be decreased by one or more gradations.

At December 31, 2022, the Company was in compliance with the covenants of the notes.

On September 26, 2019, SCC’s subsidiary Minera Mexico S.A. de C.V. issued \$1.0 billion of fixed-rate senior notes with a discount of \$12.7 million. Additionally, issuance costs of \$9.8 million associated with these notes were paid and deferred. The unamortized balance of the discount and the costs are presented net of the carrying value of the debt issued and are amortized as interest expense over the life of the loan. This debt was issued in one tranche, due in 2050 at an annual interest rate of 4.5%. Interest on the notes is paid semi-annually in arrears. The Company intends to use the net proceeds from this offering (i) to finance Minera Mexico expansion program, including the Buenavista Zinc, Pilares and El Pilar projects, (ii) for other capital expenditures and (iii) for general corporate purposes.

The notes constitute general unsecured obligations of Minera Mexico. The notes were issued in an unregistered offering pursuant to Rule 144A and Regulation S under the Securities Act of 1933. The Company capitalized the costs associated with the issuance of this facility, which are included as part of the amortized cost of the long-term debt in the consolidated balance sheet.

In connection with the transaction, on September 26, 2019, Minera Mexico entered into an indenture with Wells Fargo Bank, National Association, as trustee, which provided for the issuance, and set forth the terms of the notes described above. The indenture contains covenants that limit Minera Mexico's ability to, among other things, incur certain liens securing indebtedness, engage in certain sale and leaseback transactions, and enter into certain consolidations, mergers, conveyances, transfers or leases of all or substantially all of Minera Mexico's assets.

Aggregate maturities of the outstanding borrowings at December 31, 2022, are as follows:

Years	Principal Due(*) (in millions)
2023	\$ —
2024	—
2025	500.0
2026	—
2027	—
Thereafter	5,851.2
Total	\$ 6,351.2

(*) Total debt maturities do not include the debt discount valuation account of \$100.0 million.

NOTE 12—BENEFIT PLANS:

Post retirement defined benefit plans and defined contribution plan

The Company has two noncontributory defined benefit pension plans covering former salaried employees in the United States and certain former expatriate employees in Peru (the “Expatriate Plan”). Effective October 31, 2000, the Board of Directors amended the qualified pension plan to suspend the accrual of benefits. In addition, the Company’s Mexican subsidiaries have a defined contribution pension plan for salaried employees and a non-contributory defined benefit pension plan for union employees (the “Mexican Plan”).

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The components of net periodic benefit costs calculated in accordance with ASC 715 “Compensation retirement benefits,” using December 31 as a measurement date, consist of the following:

(in millions)	2022	2021	2020
Service cost	\$ 1.8	\$ 1.4	\$ 1.4
Interest cost	2.3	1.5	1.7
Expected return on plan assets	(3.9)	(3.3)	(2.9)
Amortization of net actuarial loss	0.1	(0.1)	0.1
Amortization of prior service cost / (credit)	0.2	0.2	0.2
Settlement / Curtailment	—	—	(0.4)
Amortization of net loss/(gain)	0.3	0.3	0.2
Net periodic benefit cost	<u>\$ 0.8</u>	<u>\$ —</u>	<u>\$ 0.3</u>

The change in benefit obligation and plan assets and a reconciliation of funded status are as follows:

(in millions)	<u>As of December 31,</u>	
	<u>2022</u>	<u>2021</u>
<i>Change in benefit obligation:</i>		
Projected benefit obligation at beginning of year	\$ 36.3	\$ 29.9
Service cost	1.8	1.4
Interest cost	2.3	1.5
Benefits paid	(2.8)	(2.2)
Actuarial loss	1.0	6.7
Actuarial gain assumption changes	(1.7)	(0.4)
Inflation adjustment	1.7	(0.6)
Projected benefit obligation at end of year	<u>\$ 38.6</u>	<u>\$ 36.3</u>
<i>Change in plan assets:</i>		
Fair value of plan assets at beginning of year	\$ 56.0	\$ 54.4
Actual return on plan assets	1.9	4.3
Employer contributions	(0.8)	(0.6)
Benefits paid	(0.8)	(0.8)
Currency exchange rate adjustment	2.9	(1.3)
Fair value of plan assets at end of year	<u>\$ 59.2</u>	<u>\$ 56.0</u>
Funded status at end of year:	<u>\$ 20.6</u>	<u>\$ 19.7</u>
<i>ASC-715 amounts recognized in statement of financial position consists of:</i>		
Non-current assets	<u>\$ 20.6</u>	<u>\$ 19.7</u>
Total	<u>\$ 20.6</u>	<u>\$ 19.7</u>
<i>ASC-715 amounts recognized in accumulated other comprehensive income (net of income taxes of \$(4.8) million and \$(4.2) million in 2022 and 2021, respectively) consists of:</i>		
Net loss (gain)	\$ 6.7	\$ 6.2
Prior service cost	1.1	1.0
Total	<u>\$ 7.8</u>	<u>\$ 7.2</u>

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The following table summarizes the changes in accumulated other comprehensive income for the years ended December 31, related to the defined benefit pension plan, net of income tax:

(in millions)	2022	2021
<i>Reconciliation of accumulated other comprehensive income:</i>		
Accumulated other comprehensive income at beginning of plan year	\$ 7.2	\$ 4.2
Net loss/(gain) occurring during the year	0.8	3.3
Net loss/(gain) amortized during the year	(0.4)	(0.2)
Currency exchange rate adjustment	0.2	(0.1)
Net adjustment to accumulated other comprehensive income (net of income taxes of \$(0.5) million and \$(1.9) million in 2022 and 2021, respectively)	0.6	3.0
Accumulated other comprehensive income at end of plan year	<u>\$ 7.8</u>	<u>\$ 7.2</u>

The following table summarizes the amounts in accumulated other comprehensive income amortized and recognized as a component of net periodic benefit cost in 2022 and 2021, net of income tax:

(in millions)	2022	2021
Net loss / (gain)	\$ 0.8	\$ 3.3
Amortization of net (loss) gain	(0.4)	(0.2)
Total amortization expenses	<u>\$ 0.4</u>	<u>\$ 3.1</u>

The assumptions used to determine the pension obligations are:

Expatriate Plan	2022	2021	2020
Discount rate	4.85 %	2.40 %	1.90 %
Expected long-term rate of return on plan asset	4.00 %	3.00 %	3.50 %
Rate of increase in future compensation level	N/A	N/A	N/A
Mexican Plan(*)	2022	2021	2020
Discount rate	10.09 %	8.02 %	7.43 %
Expected long-term rate of return on plan asset	10.09 %	8.02 %	7.43 %
Rate of increase in future compensation level	4.75 %	4.50 %	4.50 %

(*) These rates are based on Mexican pesos as pension obligations are denominated in this currency.

The scheduled maturities of the benefits expected to be paid in each of the next five years, and thereafter, are as follows:

Years	Expected Benefit Payments (in millions)
2023	\$ 7.5
2024	3.2
2025	3.7
2026	3.6
2027	4.2
2028 to 2032	20.2
Total	<u>\$ 42.4</u>

Expatriate Plan

The Company's funding policy is to contribute amounts to the qualified plan sufficient to meet the minimum funding requirements set forth in the Employee Retirement Income Security Act of 1974 plus such additional amounts as the Company may determine to be appropriate.

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Plan assets are invested in a group annuity contract with Metropolitan Life Insurance Company (“MetLife”). The Contract invests in the MetLife General Account Payment Fund (the “General Account”) and the MetLife Broad Market Core Bond Account (the “Bond Fund”) managed by BlackRock, Inc.

The General Account is broadly diversified across asset classes and backed by the total capital of MetLife.

The Bond Fund seeks to outperform the Bloomberg U.S. Aggregate Bond Index, net of fees, over a full market cycle. The Bond Fund invests in publicly traded, investment grade securities. These may include corporate securities, mortgage securities, treasuries and cash, agency securities, commercial mortgage backed securities and other investment vehicles adhering to the fund’s investment objectives. These investments are classified as Level 1 because they are valued using quoted prices of the same securities as they consist of instruments which are publicly traded.

Plan assets are invested with the objective of maximizing returns with an acceptable level of risk and maintaining adequate liquidity to fund expected benefit payments. The Company's policy for determining asset mix-targets to meet investment objectives includes periodic consultation with recognized third-party investment consultants.

The expected long-term rate of return on plan assets is reviewed annually, taking into consideration asset allocations, historical returns and the current economic environment. Based on these factors the Company expects its assets will earn an average of 4.00% per annum assuming its long-term mix will be consistent with its current mix.

Mexican Plan

Minera Mexico’s policy for determining asset mix targets includes periodic consultation with recognized third-party investment consultants. The expected long-term rate of return on plan assets is updated periodically, taking into consideration assets allocations, historical returns and the current economic environment. The fair value of plan assets is impacted by general market conditions. If actual returns on plan assets vary from the expected returns, actual results could differ.

The plan assets are managed by three financial institutions, Scotiabank Inverlat S.A., Banco Santander and GBM Grupo Bursatil Mexicano, S.A. 76% of the funds are invested in Mexican government securities, including treasury certificates and development bonds of the Mexican government. The remaining 24% is invested in common shares of Grupo Mexico. The plan assets are invested without restriction in active markets that are accessible when required and are therefore considered as level 1, in accordance with ASC 820 “Fair Value Measurement.”

These plans accounted for approximately 100% of benefit obligations. The following table represents the asset mix of the investment portfolio as of December 31:

	<u>2022</u>	<u>2021</u>
Asset category:		
Treasury bills	76 %	73 %
Equity securities	24 %	27 %
	<u>100 %</u>	<u>100 %</u>

The amount of contributions that the Company expects to pay to the plan during 2023 is \$6.7 million.

Post-retirement Health Care Plan

In Mexico, health services are provided by the Mexican Social Security Institute.

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The components of net period benefit costs for the three years ended December 31, 2022 are as follows:

(in millions)	2022	2021	2020
Interest cost	\$ 1.7	\$ 1.6	\$ 1.3
Amortization of net loss (gain)	0.1	0.2	—
Net periodic benefit cost	<u>\$ 1.8</u>	<u>\$ 1.8</u>	<u>\$ 1.3</u>

The change in benefit obligation and a reconciliation of funded status are as follows:

(in millions)	<u>As of December 31,</u>	
	2022	2021
<i>Change in benefit obligation:</i>		
Projected benefit obligation at beginning of year	\$ 21.4	\$ 23.8
Interest cost	1.7	1.6
Benefits paid	(1.6)	(1.4)
Actuarial (gain)	(2.6)	(2.0)
Inflation adjustment	1.4	(0.6)
Projected benefit obligation at end of year	<u>\$ 20.3</u>	<u>\$ 21.4</u>
Funded status at end of year:	<u>\$ 20.3</u>	<u>\$ 21.4</u>
<i>ASC-715 amounts recognized in statement of financial position consists of:</i>		
Non-current liabilities	(20.3)	(21.4)
Total	<u>\$ (20.3)</u>	<u>\$ (21.4)</u>
<i>ASC-715 amounts recognized in accumulated other comprehensive income consists of:</i>		
Net loss (gain)	\$ 1.6	\$ 3.3
Total (net of income taxes of \$(0.5) million and \$(1.2) million in 2022 and 2021, respectively)	<u>\$ 1.6</u>	<u>\$ 3.3</u>

The following table summarizes the changes in accumulated other comprehensive income for the years ended December 31, related to the post-retirement health care plan, net of income tax:

(in millions)	<u>As of December 31,</u>	
	2022	2021
<i>Reconciliation of accumulated other comprehensive income:</i>		
Accumulated other comprehensive income at beginning of plan year	\$ 3.3	\$ 4.6
Net loss/(gain) occurring during the year	(1.8)	(1.1)
Net loss/(gain) amortized during the year	(0.1)	(0.1)
Currency exchange rate adjustment	0.2	(0.1)
Net adjustment to accumulated other comprehensive income (net of income taxes of \$(0.5) million and \$(1.2) million in 2022 and 2021, respectively)	<u>(1.7)</u>	<u>(1.3)</u>
Accumulated other comprehensive income at end of plan year	<u>\$ 1.6</u>	<u>\$ 3.3</u>

The following table summarizes the amounts in accumulated other comprehensive income amortized and recognized as a component of net periodic benefit cost in 2022 and 2021, net of income tax:

(in millions)	<u>As of December 31,</u>	
	2022	2021
Net loss / (gain)	\$ (1.8)	\$ (1.1)
Amortization of net (loss) gain	(0.1)	(0.1)
Total amortization expenses	<u>\$ (1.9)</u>	<u>\$ (1.2)</u>

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The discount rates used in the calculation of other post-retirement benefits and cost as of December 31 were:

	<u>2022</u>	<u>2021</u>	<u>2020</u>
<i>Expatriate health plan</i>			
Discount rate	4.85 %	2.40 %	1.90 %
<i>Mexican health plan</i>			
Weighted average discount rate	10.09 %	8.02 %	7.43 %

The benefits expected to be paid in each of the next five years, and thereafter, are as follows:

<u>Year</u>	<u>Expected Benefit Payments (in millions)</u>
2023	\$ 1.6
2024	1.6
2025	1.7
2026	1.7
2027	1.7
2028 to 2032	9.4
Total	<u>\$ 17.7</u>

Mexican Health Plan

For measurement purposes, a 4.75% annual rate of increase in the per capita cost of covered health care benefits was assumed for 2022 and remains at that level thereafter.

An increase in other benefit cost trend rates have a significant effect on the amount of the reported obligations, as well as component cost of the other benefit plan. One percentage-point change in assumed other benefits cost trend rates would have the following effects:

<u>(in millions)</u>	<u>One Percentage Point</u>	
	<u>Increase</u>	<u>Decrease</u>
Effect on total service and interest cost components	\$ 2.1	\$ 1.8
Effect on the post-retirement benefit obligation	\$ 20.9	\$ 19.0

NOTE 13—COMMITMENTS AND CONTINGENCIES:

Environmental matters:

The Company has established comprehensive environmental conservation programs at its mining facilities in Peru and Mexico. The Company's environmental programs include water recovery systems to conserve water and minimize the impact on nearby streams, reforestation programs to stabilize the surface of the tailings dams and the implementation of scrubbing technology in the mines to reduce dust emissions, among others.

Environmental capital investments in years 2022, 2021 and 2020, were as follows (in millions):

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Peruvian operations (*)	\$ 8.7	\$ 6.4	\$ (3.3)
Mexican operations	52.7	62.3	41.1
	<u>\$ 61.4</u>	<u>\$ 68.7</u>	<u>\$ 37.8</u>

(*) The activity in 2020 includes prepayment settlements classified to expenses.

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Peruvian operations: The Company's operations are subject to applicable Peruvian environmental laws and regulations. The Peruvian government, through the Ministry of Environment ("MINAM") conducts annual audits of the Company's Peruvian mining and metallurgical operations. Through these environmental audits, matters related to environmental obligation, compliance with legal requirements, atmospheric emissions, effluent monitoring and waste management are reviewed. The Company believes that it is in material compliance with applicable Peruvian environmental laws and regulations. Peruvian law requires that companies in the mining industry provide assurances for future mine closure and remediation. In accordance with the requirements of this law, the Company's closure plans were approved by MINEM. See Note 10 "Asset retirement obligation," for further discussion of this matter.

Air Quality Standards ("AQS"): In June 2017, MINAM enacted a supreme decree which defines new AQS for daily sulfur dioxide in the air. As of December 31, 2022, the Company maintains a daily average level of $\mu\text{g}/\text{m}^3$ of SO_2 , which falls below the requirement under the AQS.

Soil Environmental Quality Standards ("SQS"): In 2013, the Peruvian government enacted Soil Quality Standards. In accordance with the regulatory requirements of the law, the Company prepared Soil Descontamination Plans ("SDP") for environmentally impacted sites in each of its operation units (Toquepala, Cuajone and Ilo) with the assistance of consulting companies. The cost of these SDPs are not material, either individually or in aggregated form, for the financial statements of the Company.

Climate change: On April 17, 2018, the Peruvian government enacted Law N. 30754, which promulgates that it is in the national interest to promote public and private investments in climate change management and establishes a Climate Change Framework. The law proposes creating an institutional framework to address climate change in Peru and outlines new measures for climate change mitigation, such as provisions to address an increase in carbon capture and use of carbon sinks; afforestation and reforestation practices; land use changes; sustainable systems of transportation, solid waste management, and energy systems. This climate change framework law incorporates obligations from the Paris Agreement. Supreme Decree 013-2019 published on December 31, 2019, enacted statutory regulations, which are applicable to all Peruvian institutions and agencies. It is expected that additional Peruvian regulations will be applicable to non-governmental entities. However, no carbon pricing mechanism is currently applicable to the Company's operations in Peru.

Mexican operations: The Company's operations are subject to applicable Mexican federal, state and municipal environmental laws, to Mexican official standards, and to regulations for the protection of the environment, including regulations relating to water supply, water quality, air quality, noise levels and hazardous and solid waste.

The principal legislation applicable to the Company's Mexican operations is the Federal General Law of Ecological Balance and Environmental Protection (the "General Law"), which is enforced by the Federal Bureau of Environmental Protection ("PROFEPA"). PROFEPA monitors compliance with environmental legislation and enforces Mexican environmental laws, regulations and official standards. It may also initiate administrative proceedings against companies that violate environmental laws, which in the most extreme cases may result in the temporary or permanent shutdown of non-complying facilities, the revocation of operating licenses and/or other sanctions or fines.

In 2011, the General Law was amended to provide an individual or entity the ability to contest administrative acts, including environmental authorizations, permits or concessions granted, without the need to demonstrate the actual existence of harm to the environment as long as it can be argued that the harm may be caused. Additionally, amendments to the Civil Federal Procedures Code ("CFPC") were enacted in 2011 and established three categories of collective actions under which a group of 30 or more individuals can be considered sufficient to prove a "legitimate interest" to file civil actions for injuries arising out of alleged violations of environmental, consumer protection, financial services and economic competition laws. The group can seek restitution or economic compensation for the alleged injuries or suspension of the activities which allegedly caused the injuries in question. The amendments to the CFPC may result in more litigation, with plaintiffs seeking remedies, including suspension of the activities alleged to cause harm.

In 2013, the Environmental Liability Federal Law was enacted. The law establishes general guidelines for actions to be considered to likely cause environmental harm. If a possible determination regarding harm occurs, environmental clean-up and remedial actions sufficient to restore environment to a pre-existing condition should be taken. If restoration is not

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possible, compensation measures should be provided. Criminal penalties and monetary fines can be imposed under this law.

In February 2019, the Mexican Supreme Court confirmed the constitutionality of an ecological tax on extractive activities developed in the state of Zacatecas, which taxes the environmental remediation actions; emissions of certain gases to the atmosphere; emissions of polluting substances to the soil or water; and waste storage within the state. The Company has determined that this environmental regulation will have no impact on its financial position.

Guaymas sulfuric acid spill: On July 9, 2019, there was an incident at the Company's Marine Terminal in Guaymas, Sonora, that caused the discharge of approximately three cubic meters of sulfuric acid into the sea in the industrial port area.

The Guaymas bay has an estimated water volume of 340 million cubic meters. The spill, upon entering in contact with the sea's alkaline conditions, led to quick dilution of the discharge. Thus, the sulfuric acid was naturally and immediately neutralized. As a result, the discharge was considered harmless; the report from the Ministry of Navy found that neither the flora nor fauna of the port area were affected.

On July 10, 2019, PROFEPA made a first inspection of the area, concluding that the Company executed all the appropriate procedures in order to contain the discharge, and no reference was made to the existence of negative impacts on the environment resulting from the incident.

On Friday, July 19, 2019, PROFEPA revisited the facilities to carry out a second inspection and declared a partial temporary shutdown that only affected the storage process and transportation of sulfuric acid at the terminal, arguing the absence of an authorization of environmental impact. It is important to note that these facilities have been in operation since 1979, prior to the 1988 Mexican General Law of Ecological Balance and the Protection of the Environment. Companies that were operating before the aforementioned law are exempt from the permit requirement. In addition, in 2009, PROFEPA awarded a certification of "Clean Industry and Environmental Quality" to the facility which was subsequently renewed four times (for a two-year period each time).

The Company filed a lawsuit against the closure, which was dismissed by a ruling on August 25, 2021. This ruling has been challenged through a motion to reopen the case, which was submitted on September 28, 2021. On January 4, 2022, the challenge was resolved. The authority imposed two fines and ruled that the temporary closure would remain in place until the environmental impact statement is obtained. The Company intends to appeal this ruling.

The Company is not aware of the reasons or causes for this partial and temporary closure, but will continue working with the environmental authorities to provide certainty that the operation is in strict compliance with environmental regulations. The Company expects the environmental authorities to suspend the partial temporary shutdown, once they resolve their concerns. Currently, the Company does not expect any impact on its operations. As of December 31, 2022, the matter is pending resolution.

Climate change: Several taxes are applicable to the Company's mining operations in Mexico, including federal and state fossil fuel taxes, and the requirements associated with Mexico's emission trading scheme. These taxes range from \$1.2/tCO₂ to \$20/tCO₂, approximately. These refer to regional taxes applicable in the States of Baja California and Zacatecas, as well as a federal tax linked to the import of fuels. In addition, an emission trading scheme (ETS) is currently available to the Company. The requirements associated with this scheme are currently applicable only to two business units, the metallurgic and lime plants in Sonora, which generate annual GHG emissions levels above the threshold of 100,000 tCO₂e per year contemplated by the scheme. These two units are required to report and verify their emissions once a year with average costs of less than \$6,000 per unit. Units that emit more than 25,000 tonnes CO₂ equivalent per year (all our Mexican units) are required to report their emissions to the National Emissions Registry (RENE) every year and to verify the reported emissions every three years. As a result, the total expenses for ensure annual compliance with climate change regulations in Mexico were not material to the Company.

The Company believes that all of its facilities in Peru and Mexico are in material compliance with environmental, mining and other applicable laws and regulations. The Company also believes that continued compliance with

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environmental laws of Mexico and Peru will have no material adverse effects on the Company's business, properties, or operating results.

Litigation matters:Peruvian operations:*The Tia Maria Mining Project*

There are five lawsuits filed against the Peruvian Branch of the Company related to the Tia Maria project. The lawsuits seek (i) to declare null and void the resolution that approved the Environmental Impact Assessment of the project; (ii) the cancellation of the project and the withdrawal of mining activities in the area; (iii) to declare null and void the mining concession application for the Tia Maria project; and (iv) to declare null and void the resolution that approved the construction license. The lawsuits were filed by Messrs. Ernesto Mendoza Padilla (filed May 26, 2015), Juan Alberto Guillen Lopez (filed June 18, 2015), Junta de Usuarios del Valle del Tambo (filed April 30, 2015), Gobierno Regional de Arequipa (filed December 16, 2019) and Municipalidad Distrital de Dean Valdivia (filed in January 2020 but notified in August 2022).

The Mendoza Padilla case was initially rejected by the lower court on July 8, 2015. This ruling was confirmed by the Superior Court on June 14, 2016. On July 12, 2016, the case was appealed before the Constitutional Court. On November 20, 2018, the Constitutional Court reversed the previous decisions and remanded the case to the lower court for further action. In the third quarter of 2020, the Company was notified that the complaint had been reinstated. The Company answered the complaint on September 15, 2020. On December 2, 2020, the lower court issued a resolution, considering the complaint answered. On September 27, 2021, the Court ordered to temporarily archive the case. As of December 31, 2022, the case remains pending resolution.

The Guillen Lopez case is currently before the lower court. Oral arguments took place on July 19, 2019. On January 7, 2020, the Judge decided to suspend the proceeding until the del Carpio Lazo case is concluded. On March 3, 2022, SCC's Peruvian Branch informed the Court that the del Carpio Lazo case had concluded. As of December 31, 2022, the case remains pending resolution.

The Junta de Usuarios del Valle del Tambo case is currently before the lower court. In May 2016, the Company was included in the process, after the Ministry of Energy and Mines filed a civil complaint. On March 6, 2019, the Company was formally notified of the lawsuit and answered the complaint on March 20, 2019. On July 8, 2019, the Company requested the suspension of the proceeding until the del Carpio Lazo case is concluded. On March 11, 2022, SCC's Peruvian Branch informed the Court that the del Carpio Lazo case had concluded. As of December 31, 2022, the case remains pending resolution.

The Gobierno Regional de Arequipa case is currently before the lower court. The Company answered the complaint on September 15, 2020. On February 8, 2021, the Judge decided to suspend the proceeding until the del Carpio Lazo case is concluded. On March 24, 2022, SCC's Peruvian Branch informed the Court that the del Carpio Lazo case had concluded. On March 28, 2022, the Judge cancelled the suspension. On May 24, 2022, the parties presented their closing arguments and as of December 31, 2022, the case remains pending resolution.

The Municipalidad Distrital de Dean Valdivia case is currently before the lower court. On August 17, 2022, the Company was formally notified of the lawsuit and answered the complaint on September 2, 2022. As of December 31, 2022, the case remains pending resolution.

The Company asserts that these lawsuits are without merit and is vigorously defending against them. The potential contingency amount for these cases cannot be reasonably estimated by management at this time.

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Special Regional Pasto Grande Project (“Pasto Grande Project”)

In 2012, the Pasto Grande Project, an entity of the Regional Government of Moquegua, filed a lawsuit against SCC’s Peruvian Branch alleging property rights over a certain area used by the Peruvian Branch and seeking the demolition of the tailings dam where SCC’s Peruvian Branch has deposited its tailings from the Toquepala and Cuajone operations since 1995. The Peruvian Branch has had title to use the area in question since 1960 and has, since 1995, constructed and operated the tailings dams with proper governmental authorization. Following a motion filed by the Peruvian Branch, the lower court included MINEM as a defendant in this lawsuit. MINEM has answered the complaint and denied the validity of the claim. On July 2, 2022, the case was temporarily archived. As of December 31, 2022, the case remains pending resolution.

SCC’s Peruvian Branch asserts that the lawsuit is without merit and is vigorously defending against it. The amount of this contingency cannot be reasonably estimated by management at this time.

Mexican operations

The Accidental Spill at Buenavista Mine of 2014

In relation to the 2014 accidental spill of copper sulfate solution at a leaching pond in the Buenavista mine, the following legal procedures are pending against the Company:

On August 19, 2014, PROFEPA, as part of the administrative proceeding initiated after the spill, announced the filing of a criminal complaint against Buenavista del Cobre S.A. de C.V. (“BVC”), a subsidiary of the Company, in order to determine those responsible for environmental damages. During the second quarter of 2018, the criminal complaint was dismissed. This decision was appealed and was pending resolution as of December 31, 2022.

Through the first half of 2015, six collective action lawsuits were filed in federal courts in Mexico City and Sonora against two subsidiaries of the Company seeking economic compensation, clean up and remedial activities in order to restore the environment to its pre-existing conditions. Three of the collective action lawsuits have been dismissed by the court. As of December 31, 2022, three lawsuits were still pending: two were filed by Acciones Colectivas de Sinaloa, A.C. and one, by Defensa Colectiva, A.C.; requesting precautionary measures about construction of facilities for monitoring public health services and prohibiting the closure of the Rio Sonora Trust.

Similarly, during 2015, eight civil action lawsuits were filed against BVC in the state courts of Sonora seeking damages for alleged injuries and for moral damages as a consequence of the spill. The plaintiffs in the state court lawsuits are: Jose Vicente Arriola Nunez et al; Santana Ruiz Molina et al; Andres Nogales Romero et al; Teodoro Javier Robles et al; Gildardo Vasquez Carvajal et al; Rafael Noriega Souffle et al; Grupo Banamichi Unido de Sonora El Dorado, S.C. de R.L. de C.V; and Marcelino Mercado Cruz. In 2016, three additional civil action lawsuits, claiming similar damages, were filed by Juan Melquicedec Lebaron; Blanca Lidia Valenzuela Rivera et al and Ramona Franco Quijada et al. In 2017, BVC was served with thirty-three additional civil action lawsuits, claiming similar damages. The lawsuits were filed by Francisco Javier Molina Peralta et al; Anacleto Cohen Machini et al; Francisco Rafael Alvarez Ruiz et al; Jose Alberto Martinez Bracamonte et al; Gloria del Carmen Ramirez Duarte et al; Flor Margarita Sabori et al; Blanca Esthela Ruiz Toledo et al; Julio Alfonso Corral Dominguez et al; Maria Eduwiges Bracamonte Villa et al; Francisca Marquez Dominguez et al; Jose Juan Romo Bravo et al; Jose Alfredo Garcia Leyva et al; Gloria Irma Dominguez Perez et al; Maria del Refugio Romero et al; Miguel Rivas Medina et al; Yolanda Valenzuela Garrobo et al; Maria Elena Garcia Leyva et al; Manuel Alfonso Ortiz Valenzuela et al; Francisco Alberto Arvayo Romero et al; Maria del Carmen Villanueva Lopez et al; Manuel Martin Garcia Salazar; Miguel Garcia Arguelles et al; Dora Elena Rodriguez Ochoa et al; Honora Eduwiges Ortiz Rodriguez et al; Francisco Jose Martinez Lopez et al; Maria Eduwiges Lopez Bustamante; Rodolfo Barron Villa et al, Jose Carlos Martinez Fernandez et al, Maria de los Angeles Fabela et al; Rafaela Edith Haro et al; Luz Mercedes Cruz et al; Juan Pedro Montaña et al; and Juana Irma Alday Villa. In the first quarter of 2018, BVC was served with another civil action lawsuit, claiming similar damages. The lawsuit was filed by Alma Angelina Del Cid Rivera et al. In the last quarter of 2018, BVC was served with other three civil action lawsuits, claiming similar damages. These lawsuits were filed by Los Corrales de la Estancia, S.C. de R.L.; Jose Antonio Navarro; Jesus Maria

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Peña Molina, et al; these actions were dismissed by the court, because they have expired. As of December 31, 2022, forty-five cases remained pending resolution.

In 2015, four constitutional lawsuits (juicios de amparo) were filed before Federal Courts against various authorities and against a subsidiary of the Company, arguing; (i) the alleged lack of a waste management program approved by SEMARNAT; (ii) the alleged lack of a remediation plan approved by SEMARNAT with regard to the August 2014 spill; (iii) the alleged lack of community approval regarding the environmental impact authorizations granted by SEMARNAT to one subsidiary of the Company; and (iv) the alleged inactivity of the authorities with regard of the spill in August 2014. The plaintiffs of these lawsuits are: Francisca Garcia Enriquez, et al filed two lawsuits, Francisco Ramon Miranda, et al and Jesus David Lopez Peralta et al. In the third quarter of 2016, four additional constitutional lawsuits, claiming similar damages were filed by Mario Alberto Salcido et al; Maria Elena Heredia Bustamante et al; Martin Eligio Ortiz Gamez et al; and Maria de los Angeles Enriquez Bacame et al. In the third quarter of 2017, BVC was served with another constitutional lawsuit filed by Francisca Garcia Enriquez et al. In 2018, BVC was served with two additional constitutional lawsuits that were filed against SEMARNAT by Norberto Bustamante et al. With regard to the constitutional lawsuit filed by Maria Elena Heredia Bustamante et al; in which it was claimed the lack of community approval regarding the authorization granted by SEMARNAT to build the new BVC tailings dam, on September 5, 2018, the Supreme Court of Justice issued a resolution establishing that such authorization was granted to BVC in compliance with the applicable legislation. However, SEMARNAT must carry out a public meeting to inform the community of the technical aspects required to build the dam, potential impacts and prevention measures. This public meeting will have no material effects to BVC's operations. SEMARNAT has carried out the consultation ordered by the Supreme Court. As a result, it has informed the corresponding Judge about its compliance with the resolution, in which BVC was required to implement additional measures of environmental impact prevention, such as: (i) the building of at least three monitoring wells downstream from the curtain of the contingency dam in a period of six months; (ii) monitoring of the groundwater level and water quality every six months; (iii) carrying out rain collection work in order to restore water to the Sonora River basin, with six months granted to present the execution program; (iv) determine the location of wildlife conservation and protection areas and define the need to establish biological corridors; (v) obtain photographic or videographic evidence every six months; (vi) submitting to SEMARNAT two years before the closure and abandonment of the site, or earlier if necessary, the closure program that includes the cleaning and restoration of the soil including Mexican regulation NOM-141; (vii) include the measures in the Environmental Monitoring Program according to the environmental components impacted; and (viii) hiring an external environmental consultant to validate compliance with the current and new conditions imposed. The foregoing does not impact BVC's operations. Additionally, the lawsuits filed by Maria de los Angeles Enriquez Bacame and Norberto Bustamante have been dismissed and closed without prejudice to the Company. As of December 31, 2022, the remaining cases were still pending resolution.

It is currently not possible to determine the extent of the damages sought in these state and federal lawsuits but the Company believes that these lawsuits are without merit. Accordingly, the Company is vigorously defending against them. Nevertheless, the Company believes that none of the legal proceedings resulting from the spill, individually or in the aggregate, would have a material effect on its financial position or results of operations.

Corporate operations

Carla Lacey, on behalf of herself and all other similarly situated stockholders of Southern Copper Corporation, and derivatively on behalf of Southern Copper Corporation

In April 2019, a derivative lawsuit was filed against the Company, certain current and former Directors, and Grupo Mexico in the Delaware Court of Chancery relating to certain construction contracts, contracts for the purchase and sale of minerals, and transportation contracts entered into between the Company's subsidiaries and subsidiaries of Grupo Mexico.

In October 2019, the plaintiff amended the complaint to include claims related to certain administrative services contracts between the Company's subsidiaries and Grupo Mexico. The amended complaint alleges, among other things, that the construction, mineral, transportation and administrative services contracts were unfair as a result of breaches of fiduciary duties and the Company's charter. The amended complaint also added Americas Mining Corporation ("AMC")

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as a defendant, alleging that AMC breached its fiduciary duties as a controlling stockholder of the Company. The amended complaint seeks, among other things, unspecified monetary damages. In January 2020, the Company, the current and former Directors, and Grupo Mexico responded to the complaint by filing motions to dismiss. The Plaintiff filed a brief in response to the motions on March 13, 2020. On July 16, 2020, the Court denied the motions to dismiss the breach of fiduciary duty claims against the Directors. On October 6, 2020, the Court dismissed the Plaintiff's claims against Grupo Mexico for lack of personal jurisdiction. On February 11, 2021, the Court granted the Directors' motion to dismiss plaintiff's breach of contract claim. The Court also granted AMC's motion to dismiss all claims against AMC other than those related to the mineral contracts.

On July 12, 2021, the parties reached an agreement-in-principle to settle the lawsuit, subject to Court approval. On September 29, 2021, the parties filed a Stipulation and Agreement of Compromise, Settlement and Release with the Court. On February 1, 2022, the Judge approved the settlement and awarded certain fees to the plaintiff's attorneys. The Judge's order for this decision was registered on February 2, 2022. Under applicable law, there was a 30-day period for parties to appeal the Judge's order. This period expired on March 4, 2022 and therefore the Judge's order is considered final.

Labor matters:

Peruvian operations: 76.5% of the Company's 4,947 Peruvian employees were unionized at December 31, 2022. Currently, there are six separate unions, none of which represents the majority of workers, as defined by current Peruvian labor legislation.

During 2021, the Company hold talks with the six unions to sign collective agreements prior to their effective dates. As a result, between June and December 2021, the Company signed collective agreements with the six unions with durations between three to six years. All of them granted annual salary increases of 5%. Additionally, each agreement granted, among other things, a signing bonus of between S/45,000 (approximately \$11,780) and S/90,000 (approximately \$23,560), depending on the duration of the agreement. A long-term agreement bonus of S/10,000 (approximately \$2,618) was granted to the union that signed a six-year extension of the collective bargaining agreement. All these concepts were recorded as labor expense. In 2022, these collective agreements have been executed and the Company does not have any collective agreement pending to be negotiated with the unions. Additionally, the Company reached an agreement with one of the unions regarding compliance with an 2018-2019 Arbitration Award.

In the first half of 2022, the six unions came together to defend their rights to work in the Cuajone unit. This action was in response to the cut off of water supply and the obstruction of a railroad section carried out by a small group of residents from the community of Tumulaca, Pocata, Coscore and Tala, Moquegua, which directly affected the health and safety of workers and their families and the production process. The Federacion Nacional de Trabajadores Mineros Metalurgicos y Siderurgicos del Peru ("National Federation of Metallurgical and Steel Mining Workers of Peru") expressed firm disapproval of actions against the Cuajone unit and ratified its collective agreements.

Mexican operations: In recent years, the Mexican operations have experienced a positive improvement in their labor environment, as workers opted to change their affiliation from the Sindicato Nacional de Trabajadores Mineros, Metalurgicos y Similares de la Republica Mexicana (the "National Mining Union") to other less politicized unions.

The workers of the San Martin mine were on strike since July 2007. On February 28, 2018, the striking workers of the San Martín mine of IMMSA held an election to vote on the union that would hold the collective bargaining agreement at the San Martin mine. The Federacion Nacional de Sindicatos Independientes (the National Federation of Independent Unions) won the vote by a majority. Nevertheless, the vote was challenged by the National Mining Union. On June 26, 2018, the Federal Mediation and Arbitration Board issued a ruling recognizing the election results. Due to the agreement between workers and the Company to end the protracted strike, on August 22, 2018, the Federal Mediation and Arbitration Board authorized the restart of operations of the San Martin mine. Such authorization was challenged by the National Mining Union. On April 4, 2019, the Federal Mediation and Arbitration Board recognized, once again, the election results from February 28, 2018, by which the National Federation of Independent Unions won by a majority. In the last quarter of 2019, a Federal Court issued a resolution that established that the Labor Court should analyze the list of workers with the right to vote in the union election. The Company and the National Federation of Independent Unions

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challenged such determination before the Supreme Court of Justice. Such challenges were dismissed by the Supreme Court. As a consequence, on September 6, 2021, the Federal Mediation and Arbitration Board issued a new resolution determining that, based on the documents submitted by the National Federation of Independent Unions and given the status of the strike until 2018, it was not possible to create a registry of workers holding a right to vote. Therefore, in case of a strike, any economic collective proceedings shall remain suspended. The Federal Mediation and Arbitration Board shall decide on the request of the majority of workers to end the strike, despite the opposition of the National Mining Union. The Company expects that the conflict will be solved in accordance with the legal framework set by labor authorities and that any actions taken will respect the workers' will.

In the case of the Taxco mine, its workers have been on strike since July 2007. After several legal procedures, in August 2015, the Supreme Court decided to assert jurisdiction over the case and to rule on it directly. As of December 31, 2022, the case was pending resolution without further developments.

It is expected that operations at the Taxco mine will remain suspended until the labor issues are resolved. In view of the lengthy strike, the Company has reviewed the carrying value of the Taxco mine to ascertain whether impairment exists. The Company concluded that there is a non-material impairment of the assets located at this mine.

Other legal matters:

The Company is involved in various other legal proceedings incidental to its operations, but the Company does not believe that decisions adverse to it in any such proceedings, individually or in the aggregate, would have a material effect on its financial position or results of operations.

Other commitments:Peruvian Operations:*Michiquillay:*

In June 2018, the Company signed a contract for the acquisition of the Michiquillay copper project in Cajamarca, Peru, at a purchase price of \$400 million. Michiquillay is a world class mining project with estimated inferred mineral resources of 2,288 million tonnes with an estimated copper grade of 0.43%. It is expected to produce 225,000 tonnes of copper per year (along with by-products of molybdenum, gold and silver) for an initial mine life of more than 25 years.

As per the purchase agreement, the Company paid \$12.5 million at the signing of the contract and \$12.5 million in June 2021. The remaining balance of \$375.0 million will be paid if the Company decides to develop the project. Therefore, it is not a present obligation. In June 2022, the Company notified the Peruvian authorities the end of the suspension period and the start of the pre-operational period that lasts 12 years and it can be extended for three more years. The start of the pre-operational period does not imply a payment obligation. The Company must support an investment of \$20 million in the next five years which includes exploration activities as well as the development of social programs.

In 2021, the Company signed social agreements with the Michiquillay and La Encañada communities. In addition, in October 2021, the Peruvian Ministry of Energy and Mines approved the semi-detailed environmental impact study for the project. In the last quarter of 2022, the Company informed the MINEM that exploration activities had begun and that it had initiated the assessment of existing mineral resources at depth. In 2022, in accordance with the social agreements with the Michiquillay and La Encañada communities, the Company hired unskilled labor and paid for the use of surface land. The Company will continue to make surface land payments in 2023 and plans to support social programs in both communities as it rolls out additional exploration activities.

Social agreements with the Michiquillay and La Encañada communities represent an opportunity to improve quality of life of the residents through the Company's strong social programs and backed by a solid framework for technical work at the project level. The main commitments signed by the Company in the social agreements are related to providing support for agricultural and livestock activities, financial support for local initiatives, and social programs in favor of education, water management, waste disposal, and healthcare for vulnerable groups.

[Table of Contents](#)*Corporate Social Responsibility:*

The Company has a corporate social responsibility policy to maintain and promote the continuity of its mining operations while obtaining the best results. The main objective of this policy is to integrate the Company's operations with local communities in the areas of influence of its operations by creating permanent positive relationships to develop optimum social conditions and promote sustainable development in the area. Accordingly, the Company has made the following commitments:

Tacna Region: In connection with the Toquepala concentrator expansion, the Company has committed to fund various social and infrastructure improvement projects in Toquepala's neighboring communities. The total amount committed for these purposes is S/445.0 million (approximately \$116.5 million). In relation to this commitment, the Company has completed the construction of a school with an investment of S/18.8 million (approximately \$4.9 million), has co-financed the construction of the Cularjahuira dam for S/15.6 million (approximately \$4.1 million) and is preparing the engineering study for the Callazas dam for S/2.6 million (approximately \$0.7 million).

As the Toquepala expansion project has been completed, the Company considers that these commitments constitute present obligations of the Company and consequently has recorded a liability of \$31.2 million in its consolidated financial statements as of December 31, 2022.

In addition, the Company has committed S/97.7 million (approximately \$25.6 million) for the construction of a high-achievement school in the Tacna region under the "social investment for taxes" (obras por impuestos) program which allows the Company to use these amounts as an advance payment of taxes.

Moquegua Region: In the Moquegua region, the Company participates in a "development roundtable" with local municipal authorities and community representatives to discuss social needs and to determine the ways that the Company can contribute to sustainable development in the region. Although the development roundtable is not currently meeting, it was previously discussing the creation of a Moquegua Region Development Fund, for which the Company has offered a contribution of S/1,000 million (approximately \$261.8 million). While final funding is not yet settled, the Company has committed to contribute S/108.4 million (approximately \$28.4 million) as an advance, which was utilized to fund an educational project. In addition, there is a commitment to finance the construction of a residual water treatment plant in Ilo for S/105.5 million (approximately \$27.6 million). There was also a commitment to build three schools in Moquegua for S/ 18.2 million (approximately \$4.8 million) and to build tracks and sidewalks in Pacocha for S/6.4 million (approximately \$1.7 million), which have been completed.

In addition, the Company has committed S/152.3 million (approximately \$39.9 million) to build four infrastructure projects in the Moquegua region under the "social investment for taxes" (obras por impuestos) program, which allows the Company to use these amounts as an advance payment of taxes.

Power purchase agreements:

- *Electroperu S.A.:* In June 2014, the Company entered into a power purchase agreement for 120 megawatt ("MW") with the state power company Electroperu S.A., under which Electroperu S.A. began supplying energy for the Peruvian operations for twenty years starting on April 17, 2017.
- *Kallpa Generacion S.A. ("Kallpa"):* In July 2014, the Company entered into a power purchase agreement for 120MW with Kallpa, an independent Israeli owned power company, under which Kallpa will supply energy for the Peruvian operations for ten years starting on April 17, 2017 and ending on April 30, 2027. In May 2016, the Company signed an additional power purchase agreement for a maximum of 80MW with Kallpa, under which Kallpa began supplying energy for the Peruvian operations related to the Toquepala Expansion and other minor projects starting on May 1, 2017 and ending on October 31, 2029.

[Table of Contents](#)Mexican operations*Power purchase agreements:*

- MGE: In 2012, the Company signed a power purchase agreement with MGE, an indirect subsidiary of Grupo Mexico, to supply power to some of the Company's Mexican operations through 2032. For further information, please see Note 18 "Related party transactions".
- Eolica el Retiro, S.A.P.I. de C.V.: In 2013, the Company signed a power purchase agreement with Eolica el Retiro, S.A.P.I de C.V. a windfarm energy producer that is an indirect subsidiary of Grupo Mexico, to supply power to some of the Company's Mexican operations. For further information, please see Note 18 "Related party transactions".
- *Parque Eolico de Fenicias, S. de R.L. de C.V.*: On February 20, 2020, the Company signed a power purchase agreement with Parque Eolico de Fenicias, S. de R.L. de C.V., an indirect subsidiary of Grupo Mexico, to supply 611,400 MWh of power per year to some of the Company's Mexican operations for 20 years. This agreement is expected to become effective in the first semester of 2023.

Corporate operations*Commitment for Capital projects:*

As of December 31, 2022, the Company has committed approximately \$405.5 million for the development of its capital investment projects.

Tax contingency matters:

Tax contingencies are provided for under ASC 740-10-50-15 Uncertain tax position (see Note 7 "Income taxes").

NOTE 14—STOCKHOLDERS' EQUITY*Treasury Stock:*

Activity in treasury stock in the years 2022 and 2021 was as follows (in millions):

	<u>2022</u>	<u>2021</u>
Southern Copper common shares		
Balance as of January 1,	\$ 2,767.2	\$ 2,767.5
Used for corporate purposes	(0.3)	(0.3)
Balance as of December 31,	<u>2,766.9</u>	<u>2,767.2</u>
Parent Company (Grupo Mexico) common shares		
Balance as of January 1,	306.8	296.0
Other activity, including dividend, interest and foreign currency transaction effect	33.9	10.8
Balance as of December 31,	<u>340.7</u>	<u>306.8</u>
Treasury stock balance as of December 31,	<u>\$ 3,107.6</u>	<u>\$ 3,074.0</u>

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Common Stock:

In September 2022, Grupo Mexico, through its wholly owned subsidiary AMC, purchased 350,000 shares of SCC's Common Stock. With this purchase and the Company's repurchase of shares of its Common Stock, the indirect ownership of Grupo Mexico increased to 88.92% at December 31, 2022.

SCC shares of common stock in treasury:

At December 31, 2022 and 2021, treasury stock holds 111,497,617 shares and 111,509,217 shares of SCC's common stock with a cost of \$2,766.9 million and \$2,767.2 million, respectively. The shares of SCC's common stock held in treasury are used for Director's stock award plans and available for general corporate purposes.

SCC share repurchase program:

In 2008, the BOD authorized a \$500 million share repurchase program that has since been increased by the BOD and is currently authorized to \$3 billion. Pursuant to this program, the Company has purchased 119.5 million shares of common stock at a cost of \$2.9 billion. These shares are available for general corporate purposes. The Company may purchase additional shares of its common stock from time to time, based on market conditions and other factors. This repurchase program has no expiration date and may be modified or discontinued at any time.

There has been no activity in the SCC share repurchase program since the third quarter of 2016. The NYSE closing price of SCC common shares at December 31, 2022 was \$60.39 and the maximum number of shares that the Company could purchase at that price was 1.4 million.

Grupo Mexico's direct and indirect ownership remains at 88.9% as of December 31, 2022.

Directors' Stock Award Plan:

The Company established a stock award compensation plan for certain directors who are not compensated as employees of the Company. Under this plan, participants received 1,200 shares of common stock upon election and 1,200 additional shares following each annual meeting of stockholders thereafter. 600,000 shares of Southern Copper common stock have been reserved for this plan. On April 26, 2018, the Company's stockholders approved a five-year extension of the Plan until January 28, 2023 and an increase of the shares award from 1,200 to 1,600. The fair value of the award is measured each year at the date of the grant. Commencing with the 2021 grant, the 1,600 shares shall be granted quarterly and conditioned upon the attendance of each director to each Board meeting. On May 27, 2022, the Company's stockholders approved a five-year extension of the Plan until January 27, 2028. The award is not subject to vesting requirements. The stock-based compensation expense under this plan equaled \$0.3 million for both years 2022 and 2021.

The activity of this plan for the years ended December 31, 2022 and 2021 was as follows:

	<u>2022</u>	<u>2021</u>
Total SCC shares reserved for the plan	600,000	600,000
Total shares granted at January 1,	(405,200)	(391,600)
Granted in the period	(11,600)	(13,600)
Total shares granted at December 31,	(416,800)	(405,200)
Remaining shares reserved	<u>183,200</u>	<u>194,800</u>

Parent Company common shares:

At December 31, 2022 and 2021, there were in treasury 74,367,673 and 79,800,655 of Grupo Mexico's common shares, respectively.

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Employee Stock Purchase Plan:

2015 Plan: In January 2015, the Company offered to eligible employees a new stock purchase plan through a trust that acquires series B shares of Grupo Mexico stock for sale to its employees, and employees of subsidiaries, and certain affiliated companies. The purchase price was established at 38.44 Mexican pesos (approximately \$2.63) for the initial subscription, which expires in January 2023. Every two years employees will be able to acquire title to 50% of the shares paid in the previous two years. The employees will pay for shares purchased through monthly payroll deductions over the eight-year period of the plan. At the end of the eight-year period, the Company will grant the participant a bonus of 1 share for every 10 shares purchased by the employee. Any future subscription will be at the average market price at the date of acquisition or the grant date.

If Grupo Mexico pays dividends on shares during the eight-year period, the participants will be entitled to receive the dividend in cash for all shares that have been fully purchased and paid as of the date that the dividend is paid. If the participant has only partially paid for shares, the entitled dividends will be used to reduce the remaining liability owed for purchased shares.

In the case of voluntary or involuntary resignation/termination of the employee, the Company will pay to the employee the fair market sales price at the date of resignation of the fully paid shares, net of costs and taxes. When the fair market sales value of the shares is higher than the purchase price, the Company will apply a deduction over the amount to be paid to the employee based on a decreasing schedule specified in the plan.

In case of retirement or death of the employee, the Company will render the buyer or his legal beneficiary, the fair market sales value as of the date of retirement or death of the shares effectively paid, net of costs and taxes.

The stock-based compensation expense for the years ended December 31, 2022, 2021 and 2020 and the unrecognized compensation expense under this plan were as follows (in millions):

	2022	2021	2020
Stock based compensation expense	\$ 0.6	\$ 0.6	\$ 0.6
Unrecognized compensation expense	\$ 0.2	\$ 0.8	\$ 1.4

The following table presents the stock award activity of this plan for the years ended December 31, 2022 and 2021:

	Shares	Unit Weighted Average Grant Date Fair Value
Outstanding shares at January 1, 2022	867,234	\$ 2.63
Granted	—	—
Exercised	(21,339)	\$ 2.63
Forfeited	—	—
Outstanding shares at December 31, 2022	<u>845,895</u>	<u>\$ 2.63</u>
Outstanding shares at January 1, 2021	1,264,410	\$ 2.63
Granted	—	—
Exercised	(397,176)	\$ 2.63
Forfeited	—	—
Outstanding shares at December 31, 2021	<u>867,234</u>	<u>\$ 2.63</u>

2018 Plan: In November 2018, the Company offered to eligible employees a new stock purchase plan (the "New Employee Stock Purchase Plan") through a trust that acquires series B shares of Grupo Mexico stock for sale to its employees, and employees of subsidiaries, and certain affiliated companies. The purchase price was established at 37.89 Mexican pesos (approximately \$1.86) for the initial subscription, which expires in October 2026. Every two years employees will be able to acquire title to 50% of the shares paid in the previous two years. The employees will pay for shares purchased through monthly payroll deductions over the eight-year period of the plan. At the end of the eight-year period, the Company will grant the participant a bonus of 1 share for every 10 shares purchased by the employee. Any future subscription will be at the average market price at the date of acquisition or the grant date.

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If Grupo Mexico pays dividends on shares during the eight-year period, the participants will be entitled to receive the dividend in cash for all shares that have been fully purchased and paid as of the date that the dividend is paid. If the participant has only partially paid for shares, the entitled dividends will be used to reduce the remaining liability owed for purchased shares.

In the case of voluntary or involuntary resignation/termination of the employee, the Company will pay to the employee the fair market sales price at the date of resignation of the fully paid shares, net of costs and taxes. When the fair market sales value of the shares is higher than the purchase price, the Company will apply a deduction over the amount to be paid to the employee based on a decreasing schedule specified in the plan.

In case of retirement or death of the employee, the Company will render the buyer or his legal beneficiary, the fair market sales value as of the date of retirement or death of the shares effectively paid, net of costs and taxes.

The stock-based compensation expense for the years ended December 31, 2022, 2021 and 2020 and the unrecognized compensation expense under this plan were as follows (in millions):

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Stock based compensation expense	\$ 0.7	\$ 0.7	\$ 0.7
Unrecognized compensation expense	\$ 2.4	\$ 3.1	\$ 3.8

The following table presents the stock award activity of this plan for the years ended December 31, 2022 and 2021:

	<u>Shares</u>	<u>Unit Weighted Average Grant Date Fair Value</u>
Outstanding shares at January 1, 2022	3,173,924	\$ 1.86
Granted	—	—
Exercised	(419,418)	\$ 1.86
Forfeited	—	—
Outstanding shares at December 31, 2022	<u>2,754,506</u>	\$ 1.86
Outstanding shares at January 1, 2021	3,918,458	\$ 1.86
Granted	—	—
Exercised	(744,534)	\$ 1.86
Forfeited	—	—
Outstanding shares at December 31, 2021	<u>3,173,924</u>	\$ 1.86

Executive Stock Purchase Plan:

Grupo Mexico also offers a stock purchase plan for certain members of its executive management and the executive management of its subsidiaries and certain affiliated companies. Under this plan, participants will receive incentive cash bonuses which are used to purchase shares of Grupo Mexico which are deposited in a trust.

Non-controlling interest:

For all the years presented, in the consolidated statement of earnings the income attributable to non-controlling interest is based on the earnings of the Company's Peruvian Branch.

The non-controlling interest of the Company's Peruvian Branch is for investment shares. These shares were generated by legislation in place in Peru from the 1970s through 1991; such legislation provided for the participation of mining workers in the profits of the enterprises for which they worked. This participation was divided between equity and cash. The investment shares included in the non-controlling interest on the consolidated balance sheets reflect outstanding equity distributions made to the Peruvian Branch's employees.

In prior years, the Company acquired some Peruvian investment shares in exchange for newly issued common shares of the Company and through purchases at market value. These acquisitions were accounted for as purchases of non-

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controlling interests. The excess paid over the carrying value was assigned to intangible assets and is being amortized based on production. As a result of these acquisitions, the remaining investment shareholders hold a 0.71% interest in the Peruvian Branch and are entitled to a pro rata participation in the cash distributions made by the Peruvian Branch. The shares are recorded as a non-controlling interest in the Company's financial statements.

NOTE 15 – DERIVATIVE INSTRUMENTS:

From time to time, the Company uses derivative instruments to manage its cash flows exposure to changes in commodity prices. The Company does not enter into derivative contracts unless it anticipates that the possibility exists that future activity will expose the Company's future cash flows to deterioration. Derivative contracts for commodities are entered into to manage the price risk associated with forecasted purchases of the commodities that the Company uses in its manufacturing process.

Cash Flow Hedges of Natural Gas

The Company's objective in using natural gas derivatives is to protect the stability of natural gas costs and manage exposure to natural gas price increases. To protect natural gas costs from estimated price increases in the past winter season, in the third quarter of 2021, the Company acquired two derivative instruments that began in November 2021 and end in March 2022.

The Company assessed these derivative instruments as Cash Flow Hedges. As such, the effective portions of said hedges were initially reported in Other Comprehensive Income (OCI) and were reclassified as earnings in the same line item associated with the forecasted transaction and in the same period or periods during which the hedged transaction affects earnings. The Company did not identify any ineffective portions of these derivatives.

As of December 31, 2022, the Company held no derivative instruments.

NOTE 16—FAIR VALUE MEASUREMENT:

Subtopic 820-10 of ASC "Fair value measurement and disclosures -Overall" establishes a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). The three levels of the fair value hierarchy under Subtopic 820-10 are described below:

Level 1 -Unadjusted quoted prices in active markets that are accessible at the measurement date for identical, unrestricted assets or liabilities.

Level 2 -Inputs that are observable, either directly or indirectly, but do not qualify as Level 1 inputs. (i.e., quoted prices for similar assets or liabilities).

Level 3 -Prices or valuation techniques that require inputs that are both significant to the fair value measurement and unobservable (i.e., supported by little or no market activity).

The carrying amounts of certain financial instruments, including cash and cash equivalents, accounts receivable (other than accounts receivable associated with provisionally priced sales) and accounts payable approximate fair value due to their short maturities. Consequently, such financial instruments are not included in the following table that provides

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information about the carrying amounts and estimated fair values of other financial instruments that are not measured at fair value in the consolidated balance sheet as of December 31, 2022 and December 31, 2020 (in millions):

	At December 31, 2022		At December 31, 2021	
	Carrying Value	Fair Value	Carrying Value	Fair Value
Liabilities:				
Long-term debt level 1	\$ 6,200.0	\$6,372.6	\$ 6,496.4	\$8,506.0
Long-term debt level 2	51.2	54.2	51.2	67.2
Total long-term debt	\$ 6,251.2	\$6,426.8	\$ 6,547.6	\$8,573.2

Long-term debt is carried at amortized cost and its estimated fair value is based on quoted market prices classified as Level 1 in the fair value hierarchy except for the case of the Yankee bonds, which qualify as Level 2 in the fair value hierarchy as they are based on quoted priced in market that are not active.

Fair values of assets and liabilities measured at fair value on a recurring basis were calculated as of December 31, 2022 and 2021, as follows (in millions):

Description	Fair Value at Measurement Date Using:			
	Fair Value as of December 31, 2022	Quoted prices in active markets for identical assets (Level 1)	Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)
<i>Assets:</i>				
<i>Short term investment:</i>				
— Trading securities	\$ 208.0	\$ 208.0	\$ —	\$ —
— Available-for-sale debt securities:				
Asset backed securities	0.1	—	0.1	—
Mortgage backed securities	0.2	—	0.2	—
<i>Accounts receivable:</i>				
— Embedded derivatives—Not classified as hedges:				
Provisionally priced sales:				
Copper	1,052.0	1,052.0	—	—
Molybdenum	456.9	456.9	—	—
Total	\$ 1,717.2	\$ 1,716.9	\$ 0.3	\$ —

Description	Fair Value at Measurement Date Using:			
	Fair Value as of December 31, 2021	Quoted prices in active markets for identical assets (Level 1)	Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)
<i>Assets:</i>				
<i>Short term investment:</i>				
— Trading securities	\$ 486.5	\$ 486.5	\$ —	\$ —
— Available-for-sale debt securities:				
Corporate bonds	—	—	—	—
Asset backed securities	0.2	—	0.2	—
Mortgage backed securities	0.2	—	0.2	—
<i>Accounts receivable:</i>				
— Embedded derivatives-Not classified as hedges:				
Provisionally priced sales:				
Copper	876.2	876.2	—	—
Molybdenum	288.3	288.3	—	—
Total	\$ 1,651.4	\$ 1,651.0	\$ 0.4	\$ —

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The Company's short-term trading securities investments are classified as Level 1 because they are valued using quoted prices of the same securities as they consist of bonds issued by public companies and publicly traded. The Company's short-term available-for-sale investments are classified as Level 2 because they are valued using quoted prices for similar investments.

The Company's accounts receivables associated with provisionally priced copper sales are valued using quoted market prices based on the forward price on the LME or on the COMEX. Such value is classified within Level 1 of the fair value hierarchy. Molybdenum prices are established by reference to the publication Platt's Metals Week and are considered Level 1 in the fair value hierarchy.

In addition, in the third quarter of 2021, the Company acquired two derivative instruments to protect natural gas costs from estimated price increases in the past winter season. These derivative instruments covered the period from November 2021 through March 2022. For further information please refer to Note 15 "Derivative instruments."

NOTE 17—CONCENTRATION OF RISK:

The Company operates four open-pit copper mines, five underground poly-metallic mines, two smelters and nine refineries in Peru and Mexico and substantially all of its assets are located in these countries. No assurances can be made that any operations and assets of the Company that are subject to the jurisdiction of the governments of Peru and Mexico will not be adversely affected by future actions of such governments. Much of the Company's products are exported from Peru and Mexico to customers principally in the United States, Europe, Asia and South America.

Financial instruments, which potentially subject the Company to a concentration of credit risk, consist primarily of cash and cash equivalents, short-term investments and trade accounts receivable. The Company invests or maintains available cash with various banks, principally in the United States, Mexico, Europe and Peru, or in commercial papers of highly-rated companies. As part of its cash management process, the Company regularly monitors the relative credit standing of these institutions. At December 31, 2022, SCC had invested its cash and cash equivalents and short-term investments as follows:

<u>Country</u>	<u>\$ in million</u>	<u>% of total cash (1)</u>	<u>% in one institution</u>	
			<u>of country</u>	<u>of total cash</u>
United States	\$1,903.8	83.6 %	12.4 %	10.3 %
Switzerland	227.2	10.0 %	100.0 %	10.0 %
Peru	41.6	1.8 %	75.1 %	1.4 %
Mexico	105.4	4.6 %	56.4 %	2.6 %
Total cash and short-term investment	<u>\$2,278.0</u>	<u>100.0 %</u>		

(1) 96.4% of the Company's cash is in U.S. dollars.

During the normal course of business, the Company provides credit to its customers. Although the receivables resulting from these transactions are not collateralized, the Company has not experienced significant problems with the collection of receivables.

The Company's largest customers as percentage of accounts receivable and total sales were as follows:

	<u>2022</u>	<u>2021</u>	<u>2020</u>
<i>Accounts receivable trade as of December 31,</i>			
Five largest customers	34.2 %	31.3 %	35.3 %
Largest customer	10.4 %	11.8 %	12.9 %
<i>Total sales in year</i>			
Five largest customers	25.7 %	25.0 %	28.1 %
Largest customer	6.8 %	7.2 %	10.0 %

[Table of Contents](#)**NOTE 18—RELATED PARTY TRANSACTIONS:**

The Company has entered into certain transactions in the ordinary course of business with parties that are controlling shareholders or their affiliates. These transactions include the lease of office space, air and railroad transportation, construction services, energy supply, and other products and services related to mining and refining. The Company lends and borrows funds among affiliates for acquisitions and other corporate purposes. These financial transactions bear interest and are subject to review and approval by senior management, as are all related party transactions. Article Nine of the Amended and Restated Certificate of Incorporation of the Company prohibits the Company from engaging in a Material Affiliate Transaction that was not the subject of prior review by a committee of the Board of Directors with at least three members, each of whom is independent, and defines a Material Affiliate Transaction as a transaction or series of related transactions between Grupo Mexico or one of its affiliates (other than the Company or its subsidiaries), on the one hand, and the Company or one of its subsidiaries, on the other hand, that involves consideration of more than \$10.0 million in the aggregate. It is the Company's policy that (i) a Material Affiliate Transaction not be entered into or continued without the review and approval by the Audit Committee or its subcommittee of related party transactions comprised of independent directors, (ii) any potential related party transaction process with aggregate consideration between \$8.0 million and \$10.0 million be authorized by the General Counsel and Chief Financial Officer of the Company and (iii) all related party transactions, including any Material Affiliate Transaction, be reported to the Audit Committee of the Board of Directors or to its subcommittee of related party transactions.

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Receivable and payable balances with related parties are shown below (in millions):

	<u>At December 31,</u>	
	<u>2022</u>	<u>2021</u>
Related parties receivable current:		
Grupo Mexico and affiliates:		
Asarco LLC	\$ 9.2	\$ 10.0
Americas Mining Corporation ("AMC")	—	0.1
AMMINCO Apoyo Administrativo, S.A. de C.V. ("AMMINCO")	(*)	—
Compania Perforadora Mexico S.A.P.I. de C.V. and affiliates	0.3	0.3
Mexico Generadora de Energia S. de R.L. ("MGE")	23.4	38.4
Grupo Mexico Servicios de Ingenieria, S.A. de C.V.	0.2	0.2
Related to the controlling group:		
Boutique Bowling de Mexico S.A. de C.V.	0.1	0.1
Operadora de Cinemas S.A. de C.V.	0.1	(*)
	<u>\$ 33.3</u>	<u>\$ 49.1</u>
Related parties payable:		
Grupo Mexico and affiliates:		
AMMINCO	\$ 5.0	\$ 9.5
Asarco LLC	23.8	14.9
Eolica El Retiro, S.A.P.I. de C.V.	0.4	2.7
Ferrocarril Mexicano S.A. de C.V.	5.6	4.0
Grupo Mexico Servicios	20.2	11.1
MGE	57.5	57.2
Mexico Compania Constructora S.A de C.V.	5.9	2.0
Grupo Mexico Servicios de Ingenieria, S.A. de C.V.	1.2	0.9
Related to the controlling group:		
Boutique Bowling de Mexico S.A. de C.V.	0.3	0.3
Mexico Transportes Aereos S.A. de C.V. ("Mextransport")	0.1	0.5
Operadora de Cinemas S.A. de C.V.	0.2	0.2
	<u>\$ 120.2</u>	<u>\$ 103.3</u>

(*) Less than \$0.1 million.

[Table of Contents](#)**Purchase and sale activity:****Grupo Mexico and affiliates:**

The following table summarizes the purchase and sale activities with Grupo Mexico and its affiliates in 2022, 2021 and 2020 (in millions):

	<u>2022</u>	<u>2021</u>	<u>2020</u>
<i>Purchase activity</i>			
Asarco LLC	\$ 66.3	\$ 31.3	\$233.9
AMMINCO	10.0	8.9	18.6
Controladora de Infraestructura Energetica S.A. de C.V.	0.8	—	—
Eolica El Retiro, S.A.P.I. de C.V.	3.0	9.3	1.0
Ferrocarril Mexicano, S.A. de C.V.	42.9	41.8	45.8
Grupo Mexico	—	—	10.0
Grupo Mexico Servicios	20.1	20.1	—
Intermodal Mexico S.A. de C.V.	—	0.5	—
MGE	331.0	287.3	213.3
Mexico Compania Constructora S.A de C.V.	43.8	44.5	42.6
Grupo Mexico Servicios de Ingenieria, S.A. de C.V.	16.7	10.3	11.1
Peru Mining Exploration & Development Company	—	0.4	—
Total purchases	<u>\$ 534.6</u>	<u>\$ 454.4</u>	<u>\$576.3</u>
<i>Sales activity</i>			
Asarco LLC	\$ 48.0	\$ 33.4	\$ 77.9
AMMINCO	(*)	0.1	0.1
AMC	—	0.1	—
MGE	<u>165.0</u>	<u>126.9</u>	<u>54.9</u>
Total sales	<u>\$ 213.0</u>	<u>\$ 160.5</u>	<u>\$132.9</u>

(*) Less than \$0.1 million

Grupo Mexico, the parent and the majority indirect stockholder of the Company, and its affiliates provide various services to the Company. These services are primarily related to accounting, legal, tax, financial, treasury, human resources, price risk assessment and hedging, purchasing, procurement and logistics, sales and administrative and other support services. The Company pays AMMINCO and Grupo Mexico Servicios, both subsidiaries of Grupo Mexico, for these services and expects to continue requiring these services in the future.

In 2022, 2021 and 2020, the Company donated \$3.5 million, \$0.9 million and \$7.1 million, respectively, to Fundacion Grupo Mexico, A.C., an organization dedicated to promote the social and economic development of the communities close to the Company's Mexican operations.

The Company's Mexican operations paid fees for freight services provided by Ferrocarril Mexicano, S.A de C.V. and, in 2021, for construction services provided by Intermodal Mexico, S.A. de C.V., which are all subsidiaries of Grupo Mexico. Additionally, the Company's Mexican operations paid fees for specialized technical and environmental services to obtain the energy license for El Arco project provided by Controladora de Infraestructura Energetica S.A. de C.V., a subsidiary of Infraestructura y Transportes Mexico S.A. de C.V., which is a subsidiary of Grupo Mexico.

In addition, the Company's Peruvian and Mexican operations paid fees for engineering services provided by Grupo Mexico Servicios de Ingenieria, S.A. de C.V., and the Company's Mexican operations paid fees for construction services provided by Mexico Compania Constructora S.A. de C.V. Both companies are subsidiaries of Mexico Proyectos y Desarrollos, S.A. de C.V., which is a subsidiary of Grupo Mexico.

In addition, in 2021, the Company's Peruvian operations purchased three mining concessions from Peru Mining Exploration & Development Company, a subsidiary of Grupo Mexico.

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The Company's Mexican operations purchased copper concentrates and rod from Asarco LLC and also paid fees for tolling services. Additionally, the Company's Mexican operations purchased power from MGE. Both companies are subsidiaries of Grupo Mexico.

In 2012, the Company signed a power purchase agreement with MGE, whereby MGE will supply some of the Company's Mexican operations with power through 2032. MGE has two natural gas-fired combined cycle power generating units, with a net total capacity of 516.2 megawatts and has been supplying power to the Company since December 2013. Currently, MGE is supplying 1.4% of its power output to third-party energy users; compared to 2.0% at December 31, 2021.

In 2014, Mexico Generadora de Energia Eolica, S. de R.L. de C.V, an indirect subsidiary of Grupo Mexico, located in Oaxaca, Mexico, acquired Eolica el Retiro, a windfarm with 37 wind turbines. This company started operations in January 2014 and began to sell power to Industrial Minera Mexico, S.A. de C.V. and subsidiaries (IMMSA) and other subsidiaries of Grupo Mexico in the third quarter of 2014. Currently, Eolica el Retiro is supplying approximately 27% of its power output to IMMSA and Mexcobre; compared to 61.0% at December 31, 2021.

The Company sold starter sheets, rod, sulfuric acid and lime to Asarco LLC. In addition, the Company's Mexican operations received rental fees from AMMINCO.

In September 2019, Asarco LLC signed a promissory agreement to pay to the Company's Mexican operations \$62.0 million plus interest no later than October 31, 2021, with quarterly payments of \$0.5 million. The annual interest rate of the note was Libor plus 200 basis points, which would be reviewed annually. In November 2020, Asarco repaid this agreement. Related to this agreement, the Company recorded interest income of \$2.2 million in 2020.

The Company also received fees for natural gas and services provided to MGE, a subsidiary of Grupo Mexico. In May 2020, MGE signed a promissory note to pay to the Company's Mexican operations 97.2 million Mexican pesos (approximately \$5.1 million) plus interest. The annual interest rate of the note was 8.28% with monthly payments. MGE repaid this note in December 2020.

Companies with relationships with the controlling group:

The following table summarizes the purchase and sales activities with other Larrea family companies in 2022, 2021 and 2020 (in millions):

	<u>2022</u>	<u>2021</u>	<u>2020</u>
<i>Purchase activity</i>			
Boutique Bowling de Mexico S.A. de C.V.	\$ 0.4	\$ 0.3	\$ 0.4
Mextransport	2.1	1.8	3.5
Operadora de Cinemas S.A. de C.V.	0.2	0.4	0.2
Total purchases	<u>\$ 2.7</u>	<u>\$ 2.5</u>	<u>\$ 4.1</u>
<i>Sales activity</i>			
Boutique Bowling de Mexico S.A. de C.V.	\$ 0.1	\$ 0.1	\$ 0.1
Mextransport	1.9	1.8	1.7
Operadora de Cinemas S.A. de C.V.	0.1	0.1	0.1
Total sales	<u>\$ 2.1</u>	<u>\$ 2.0</u>	<u>\$ 1.9</u>

The Larrea family controls a majority of the capital stock of Grupo Mexico, and has extensive interests in other businesses, including transportation, real estate and entertainment. The Company engages in certain transactions in the ordinary course of business with other entities controlled by the Larrea family relating to the lease of office space, air transportation and entertainment.

The Company's Mexican operations paid fees for entertainment services provided by Boutique Bowling de Mexico S.A. de C.V. and Operadora de Cinemas S.A. de C.V. Both companies are controlled by the Larrea family. MexTransport provides aviation services to the Company's Mexican operations. This is a company controlled by the Larrea family.

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In addition, the Company received fees for building rental and maintenance services provided to Boutique Bowling de Mexico S.A de C.V. and Operadora de Cinemas S.A. de C.V. The Company's Mexican operations received fees from Mextransport for reimbursement of maintenance expenses and for rental services.

Equity Investment in Affiliate: The Company has a 44.2% participation in Compañía Minera Coimolache S.A. ("Coimolache"), which it accounts for on the equity method. Coimolache owns Tantahuatay, a gold mine located in northern Peru.

In addition, the Company has a 30.0% participation in Apu Coropuna S.R.L. ("Apu Coropuna"), which it accounts for on the equity method. Apu Coropuna is a company, which undertakes exploration activities in the Pucay prospect, located in Arequipa, Peru.

It is anticipated that in the future the Company will enter into similar transactions with these same parties.

NOTE 19—SEGMENT AND RELATED INFORMATION:

Company management views Southern Copper as having three reportable segments and manages it on the basis of these segments. The reportable segments identified by the Company are: the Peruvian operations, the Mexican open-pit operations and the Mexican underground mining operations segment identified as the IMMSA unit.

The three reportable segments identified are groups of mines, each of which constitute an operating segment, with similar economic characteristics, type of products, processes and support facilities, similar regulatory environments, similar employee bargaining contracts and similar currency risks. In addition, each mine within the individual group earns revenues from similar type of customers for their products and services and each group incurs expenses independently, including commercial transactions between groups.

Intersegment sales are based on arm's length prices at the time of sale. These may not be reflective of actual prices realized by the Company due to various factors, including additional processing, timing of sales to outside customers and transportation cost. Added to the segment data is information regarding the Company's sales. The segments identified by the Company are:

1. Peruvian operations, which include the Toquepala and Cuajone mine complexes and the smelting and refining plants, including a precious metals plant, industrial railroad and port facilities that service both mines. The Peruvian operations produce copper, with production of by-products of molybdenum, silver and other material.
2. Mexican open-pit operations, which include La Caridad and Buenavista mine complexes and the smelting and refining plants, including a precious metals plant and a copper rod plant and support facilities that service both mines. The Mexican open-pit operations produce copper, with production of by-products of molybdenum, silver and other material.
3. Mexican underground mining operations, which include five underground mines that produce zinc, copper, silver and gold, and a zinc refinery. This group is identified as the IMMSA unit.

The Peruvian operations include two open-pit copper mines whose mineral output is transported by rail to Ilo, Peru where it is processed at the Company's Ilo smelter and refinery, without distinguishing between the products of the two mines. The resulting product, anodes and refined copper, are then shipped to customers throughout the world. These shipments are recorded as revenue of the Company's Peruvian mines.

The Mexican open-pit segment includes two copper mines whose mineral output is processed in the same smelter and refinery without distinguishing between the products of the two mines. The resultant product, anodes and refined copper, are then shipped to customers throughout the world. These shipments are recorded as revenues of the Company's Mexican open-pit mines.

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The Company has determined that it is necessary to classify the Peruvian open-pit operations as an operating segment that is separate from the Mexican open-pit operations due to the very distinct regulatory and political environments in which they operate. The Company's Chief Operating Decision Maker ("CODM") must consider the operations in each country separately when analyzing results of the Company and making key decisions. The open-pit mines in Peru must comply with stricter environmental rules and must deal with a political climate that has a very distinct vision of the mining industry than that seen in Mexico. In addition, the collective bargaining agreement contracts are negotiated differently in each of the countries. These key differences result in the Company taking varying decisions with regard to open-pit operations in the two countries.

The IMMSA segment includes five mines whose minerals are processed in the same refinery. Sales of product from this segment are recorded as revenues of the Company's IMMSA unit. While the Mexican underground mines are subject to a regulatory environment that is very similar to that applicable to Mexican open-pit mines, the nature of the products and processes of the two Mexican operations vary considerably. These differences cause the Company's CODM to take a very different approach when analyzing results and making decisions regarding the two Mexican operations.

Financial information is regularly prepared for each of the three segments and the results of the Company's operations are regularly reported to the CODM on the segment basis. The CODM of the Company focuses on operating income and on total assets as measures of performance to evaluate different segments and to make decisions to allocate resources to the reported segments. These are common measures in the mining industry.

Financial information relating to Company's segments is as follows:

	Year Ended December 31, 2022				
	(in millions)				
	Mexican Open-pit	Mexican IMMSA Unit	Peruvian Operations	Corporate, other and eliminations	Consolidated
Net sales outside of segments	\$ 5,610.9	\$ 528.5	\$ 3,908.5	\$ —	\$ 10,047.9
Intersegment sales	161.7	138.0	—	(299.7)	—
Cost of sales (exclusive of depreciation, amortization and depletion)	2,371.9	532.8	2,061.3	(316.9)	4,649.1
Selling, general and administrative	65.9	10.2	39.2	9.7	125.0
Depreciation, amortization and depletion	377.0	57.6	321.7	40.0	796.3
Exploration	3.1	5.4	18.5	14.7	41.7
Operating income	<u>\$ 2,954.7</u>	<u>\$ 60.6</u>	<u>\$ 1,467.8</u>	<u>\$ (47.3)</u>	<u>4,435.8</u>
Less:					
Interest, net					(305.1)
Other income (expense)					117.1
Income taxes					(1,596.1)
Equity earnings of affiliate					(3.7)
Non-controlling interest					(9.5)
Net income attributable to SCC					<u>\$ 2,638.5</u>
Capital investment	\$ 422.7	\$ 161.8	\$ 355.0	\$ 9.0	\$ 948.5
Property and mine development, net	\$ 4,512.6	\$ 678.5	\$ 3,659.3	\$ 746.2	\$ 9,596.6
Total assets	\$ 8,835.9	\$ 1,100.7	\$ 4,870.8	\$ 2,470.0	\$ 17,277.4

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	Year Ended December 31, 2021				
	(in millions)				
	Mexican Open-pit	Mexican IMMSA Unit	Peruvian Operations	Corporate, other and eliminations	Consolidated
Net sales outside of segments	\$ 6,109.0	\$ 454.3	\$ 4,370.8	\$ —	\$ 10,934.1
Intersegment sales	—	145.9	—	(145.9)	—
Cost of sales (exclusive of depreciation, amortization and depletion)	1,953.5	440.9	1,662.0	(162.0)	3,894.4
Selling, general and administrative	62.8	10.0	40.1	12.3	125.2
Depreciation, amortization and depletion	392.6	54.8	321.0	37.6	806.0
Exploration	2.3	5.7	14.5	20.9	43.4
Operating income	<u>\$ 3,697.8</u>	<u>\$ 88.8</u>	<u>\$ 2,333.2</u>	<u>\$ (54.7)</u>	<u>\$ 6,065.1</u>
Less:					
Interest, net					(349.9)
Other income (expense)					(18.4)
Income taxes					(2,299.2)
Equity earnings of affiliate					13.6
Non-controlling interest					(14.1)
Net income attributable to SCC					<u>\$ 3,397.1</u>
Capital investment	\$ 463.6	\$ 98.3	\$ 320.9	\$ 9.5	\$ 892.3
Property and mine development, net	\$ 4,463.2	\$ 571.0	\$ 3,707.3	\$ 722.9	\$ 9,464.4
Total assets	\$ 8,559.8	\$ 998.2	\$ 4,932.7	\$ 3,806.9	\$ 18,297.6

	Year Ended December 31, 2020				
	(in millions)				
	Mexican Open-pit	Mexican IMMSA Unit	Peruvian Operations	Corporate, other and eliminations	Consolidated
Net sales outside of segments	\$ 4,412.4	\$ 418.9	\$ 3,153.6	\$ —	\$ 7,984.9
Intersegment sales		111.0		(111.0)	—
Cost of sales (exclusive of depreciation, amortization and depletion)	1,991.6	383.0	1,679.5	(124.3)	3,929.8
Selling, general and administrative	70.5	9.5	37.6	8.6	126.2
Depreciation, amortization and depletion	366.7	42.5	328.7	37.7	775.6
Exploration	2.5	8.6	9.4	12.1	32.6
Operating income	<u>\$ 1,981.1</u>	<u>\$ 86.3</u>	<u>\$ 1,098.4</u>	<u>\$ (45.1)</u>	<u>\$ 3,120.7</u>
Less:					
Interest, net					(347.4)
Other income (expense)					(27.5)
Income taxes					(1,174.4)
Equity earnings of affiliate					6.4
Non-controlling interest					(7.4)
Net income attributable to SCC					<u>\$ 1,570.4</u>
Capital investment	\$ 317.1	\$ 72.1	\$ 195.0	\$ 8.0	\$ 592.2
Property and mine development, net	\$ 4,470.5	\$ 548.2	\$ 3,735.1	\$ 704.9	\$ 9,458.7
Total assets	\$ 7,236.1	\$ 967.2	\$ 5,169.9	\$ 3,573.3	\$ 16,946.5

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The following table presents information regarding the opening and closing balances of receivables by reporting segment of the Company for the two years ended December 31, 2022 (in millions):

	<u>Mexican Open-Pit</u>	<u>Mexican IMMSA Unit</u>	<u>Peruvian Operations</u>	<u>Corporate & Elimination</u>	<u>Consolidated</u>
<i>As of December 31, 2022:</i>					
Trade receivables	\$ 788.1	\$ 60.0	\$ 546.0	\$ —	\$ 1,394.1
Related parties, current	31.1	0.1	0.1	2.0	33.3
<i>As of December 31, 2021:</i>					
Trade receivables	\$ 656.0	\$ 51.2	\$ 651.5	\$ —	\$ 1,358.7
Related parties, current	46.9	0.2	—	2.0	49.1

SALES VALUE PER SEGMENT:

The following table presents information regarding the sales value by reporting segment of the Company's significant products for the three years ended December 31, 2022 (in millions):

	<u>Year Ended December 31, 2022</u>				
	<u>Mexican Open-pit</u>	<u>Mexican IMMSA Unit</u>	<u>Peruvian Operations</u>	<u>Corporate, Other & Eliminations</u>	<u>Total Consolidated</u>
Copper	\$ 4,579.2	\$ 83.6	\$ 3,096.0	\$ (220.0)	\$ 7,538.8
Molybdenum	705.3	—	487.4	—	1,192.7
Zinc	—	373.8	—	0.4	374.2
Silver	241.9	133.8	95.3	(68.4)	402.6
Other	246.3	75.3	229.8	(11.7)	539.7
Total	<u>\$ 5,772.6</u>	<u>\$ 666.5</u>	<u>\$ 3,908.5</u>	<u>\$ (299.7)</u>	<u>\$ 10,047.9</u>
	<u>Year Ended December 31, 2021</u>				
	<u>Mexican Open-pit</u>	<u>Mexican IMMSA Unit</u>	<u>Peruvian Operations</u>	<u>Corporate, Other & Eliminations</u>	<u>Total Consolidated</u>
Copper	\$ 5,182.1	\$ 94.9	\$ 3,625.4	\$ (74.1)	\$ 8,828.3
Molybdenum	538.4	—	514.7	—	1,053.1
Zinc	—	289.0	—	0.5	289.5
Silver	252.8	152.7	133.0	(64.1)	474.4
Other	135.7	63.6	97.7	(8.2)	288.8
Total	<u>\$ 6,109.0</u>	<u>\$ 600.2</u>	<u>\$ 4,370.8</u>	<u>\$ (145.9)</u>	<u>\$ 10,934.1</u>
	<u>Year Ended December 31, 2020</u>				
<i>(in millions)</i>	<u>Mexican Open-pit</u>	<u>Mexican IMMSA Unit</u>	<u>Peruvian Operations</u>	<u>Corporate, Other & Eliminations</u>	<u>Total Consolidated</u>
Copper	\$ 3,762.1	\$ 72.1	\$ 2,727.3	\$ (48.4)	\$ 6,513.1
Molybdenum	275.2	—	235.1	—	510.3
Zinc	—	247.8	—	1.6	249.4
Silver	235.5	155.8	112.0	(55.5)	447.8
Other	139.6	54.2	79.2	(8.7)	264.3
Total	<u>\$ 4,412.4</u>	<u>\$ 529.9</u>	<u>\$ 3,153.6</u>	<u>\$ (111.0)</u>	<u>\$ 7,984.9</u>

[Table of Contents](#)**NET SALES AND GEOGRAPHICAL INFORMATION:**

The geographic breakdown of the Company's sales for the three years ended December 31, 2022 was as follows (in millions):

	Year Ended December 31, 2022				
	Mexican Open-Pit	Mexican IMMSA Unit	Peruvian Operations	Corporate & Elimination	Consolidated
<i>The Americas:</i>					
Mexico	\$ 1,962.0	\$ 464.7	\$ —	\$ (138.0)	\$ 2,288.7
United States	1,486.2	54.0	370.2		1,910.4
Peru	162.2	—	614.5	(161.7)	615.0
Brazil	—	41.3	410.7		452.0
Chile	19.9	—	424.6		444.5
Other American countries	35.4	2.6	27.7		65.7
<i>Europe:</i>					
Switzerland	693.7	44.6	739.5		1,477.8
Italy	2.1	19.3	240.0		261.4
Spain	420.7	—	37.5		458.2
Other European countries	124.3	31.1	207.4		362.8
<i>Asia:</i>					
China	517.6	—	54.9		572.5
Singapore	103.9	8.4	176.1		288.4
Japan	88.0	—	528.2		616.2
Other Asian countries	156.6	0.5	77.2		234.3
Total	<u>\$ 5,772.6</u>	<u>\$ 666.5</u>	<u>\$ 3,908.5</u>	<u>\$ (299.7)</u>	<u>\$ 10,047.9</u>

	Year Ended December 31, 2021				
	Mexican Open-Pit	Mexican IMMSA Unit	Peruvian Operations	Corporate & Elimination	Consolidated
<i>The Americas:</i>					
Mexico	\$ 1,893.3	\$ 387.6	\$ 5.0	\$ (145.9)	\$ 2,140.0
United States	1,648.1	52.3	233.1	—	1,933.5
Peru	—	(0.3)	586.6	—	586.3
Brazil	—	30.7	406.4	—	437.1
Chile	3.3	—	381.2	—	384.5
Other American countries	31.3	0.7	10.7	—	42.7
<i>Europe:</i>					
Switzerland	1,097.2	55.1	544.7	—	1,697.0
Italy	0.7	8.8	298.3	—	307.8
Spain	410.2	—	91.8	—	502.0
Other European countries	275.8	45.5	410.9	—	732.2
<i>Asia:</i>					
China	189.7	—	25.0	—	214.7
Singapore	441.9	19.4	496.5	—	957.8
Japan	23.6	—	605.5	—	629.1
Other Asian countries	93.9	0.4	275.1	—	369.4
Total	<u>\$ 6,109.0</u>	<u>\$ 600.2</u>	<u>\$ 4,370.8</u>	<u>\$ (145.9)</u>	<u>\$ 10,934.1</u>

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	Year Ended December 31, 2020				
	Mexican Open-Pit	Mexican IMMSA Unit	Peruvian Operations	Corporate & Elimination	Consolidated
<i>The Americas:</i>					
Mexico	\$ 1,296.6	\$ 341.1	\$ —	\$ (111.0)	\$ 1,526.7
United States	1,182.8	27.2	153.4	—	1,363.4
Peru	—	13.0	322.0	—	335.0
Brazil	—	18.7	214.3	—	233.0
Chile	18.8	—	202.3	—	221.1
Other American countries	36.8	2.9	2.7	—	42.4
<i>Europe:</i>					
Switzerland	898.2	69.9	475.2	—	1,443.3
Italy	0.1	9.5	262.0	—	271.6
Spain	199.4	—	—	—	199.4
Other European countries	199.9	40.2	281.6	—	521.7
<i>Asia:</i>					
China	132.6	—	12.9	—	145.5
Singapore	319.9	6.9	536.9	—	863.7
Japan	46.9	—	532.6	—	579.5
Other Asian countries	80.4	0.5	157.7	—	238.6
Total	<u>\$ 4,412.4</u>	<u>\$ 529.9</u>	<u>\$ 3,153.6</u>	<u>\$ (111.0)</u>	<u>\$ 7,984.9</u>

PROVISIONAL SALES PRICE:

At December 31, 2022, the Company has recorded provisionally priced sales of copper at average forward prices per pound, and molybdenum at the year-end market price per pound. These sales are subject to final pricing based on the average monthly copper prices on the London Metal Exchange (“LME”) or New York Commodities Exchange (“COMEX”) and Dealer Oxide molybdenum prices in the future month of settlement.

Following are the provisionally priced copper and molybdenum sales outstanding at December 31, 2022:

	Sales volume (million lbs.)	Priced at (per pound)	Month of settlement
Copper	276.5	3.81	January through June 2023
Molybdenum	14.3	31.85	January through April 2023

Provisional sales price adjustments included in accounts receivable and net sales were as follows at December, 31 (in millions):

	At December 31,	
	2022	2021
Copper	\$ 49.9	\$ 1.2
Molybdenum	167.2	(9.0)
Total	<u>\$ 217.1</u>	<u>\$ (7.8)</u>

Management believes that the final pricing of these sales will not have a material effect on the Company’s financial position or results of operations.

LONG-TERM SALES CONTRACTS:

The following are the significant outstanding long-term contracts:

In 2022, a three-year copper cathodes sales agreement was signed with Mitsui, with shipments beginning in 2023. Mitsui and the Company will negotiate market terms and conditions for annual contracts no later than November 30 of the year prior to shipment. The contract considers the following annual volumes of copper cathodes; 48,000 tonnes for each of

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the years from 2023 through 2025. Failure to reach an agreement on market terms would cancel the annual contract but not the long-term agreement. Under the terms of the agreement all shipments would be to Asia and no exclusivity rights for Mitsui or commissions are included. This contract may be renewed for additional years, upon the agreement of both parties.

Under the terms of a sales contract with Molymet Group (Molibdenos y Metales, S.A., Complejo Industrial Molynor S.A. and Molymet Belgium N.V), SPCC Peru Branch is required to supply approximately 70% of the molybdenum concentrates production from 2023 through 2025. The sale price of the molybdenum concentrate is based on the average of the High and Low “Daily Dealer Oxide” as published in “Platt’s Metals Daily”. The roasting charge deduction is agreed based on international market terms.

Under the terms of a sales contract with Molymex, S.A. de C.V., Operadora de Minas de Nacozari, S.A. de C.V. and Operadora de Minas e Instalaciones Mineras, S.A. de C. V. are required to supply at least the 80% of their molybdenum concentrates production from 2020 through 2023. The sale price of the molybdenum concentrate is based on the average of the High and Low “Daily Dealer Oxide” as published in “Platt’s Metals Daily.” The roasting charge deduction is negotiated based on international market terms.

In 2019, a five-year sulfuric acid sales agreement was signed between SPCC Peru Branch and Marcobre, with shipments scheduled to begin in 2020. Marcobre and the Company will negotiate market terms and conditions for annual contracts no later than the last day of October of the year prior to shipment. The contract considers the annual volumes that could place Marcobre as the most important customer of sulfuric acid. Failure to reach an agreement on market terms would trigger a mechanism that force both parties to accept the Annual Benchmark for the region as the agreed price. This contract may be renewed for additional years, upon the agreement of both parties.

NOTE 20—SUBSEQUENT EVENTS:**DIVIDENDS:**

On January 26, 2023, the Board of Directors authorized a dividend of \$1.0 per share to be paid on March 1, 2023, to shareholders of record at the close of business on February 14, 2023.

[Table of Contents](#)**OTHER COMPANY INFORMATION:****ANNUAL MEETING**

The annual stockholders meeting of Southern Copper Corporation will be held on Friday, May 26, 2023, at 9:00 am, Mexico City time. This year's meeting will be held via a live audio webcast.

TRANSFER AGENT, REGISTRAR AND STOCKHOLDERS' SERVICES

Computershare
480 Washington Boulevard
Jersey City, NJ 07310-1900
Phone: (866) 230-0172

DIVIDEND REINVESTMENT PROGRAM

SCC stockholders can have their dividends automatically reinvested in SCC common shares. SCC pays all administrative and brokerage fees. This plan is administered by Computershare. For more information, contact Computershare at (866) 230-0172.

STOCK EXCHANGE LISTING

The principal markets for SCC's common stock are the NYSE and the Lima Stock Exchange (BVL). SCC's common stock symbol is SCCO on both the NYSE and the Lima Stock Exchange.

OTHER SECURITIES

The Branch in Peru has issued, in accordance with Peruvian Law, "investment shares" (formerly named labor shares) that are quoted on the Lima Stock Exchange under symbols SPCCPI1 and SPCCPI2. Transfer Agent, registrar and stockholders services are provided by Credicorp Capital, Avenida EI Derby 055, Torre 4, Piso 10, Santiago de Surco, Cod postal 15039, Peru.

Telephone (51-1) 416-3333, Extensions 32478 and 32441.

OTHER CORPORATE INFORMATION

For other information on the Company or to obtain, free of charge, additional copies of the Annual Report on Form 10-K, contact the Investor Relations Department at:

7310 North 16th St, Suite 135 Phoenix, AZ 85020, USA
Telephone: (602) 264-1375

SOUTHERN COPPER CORPORATION

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Email address: southerncopper@southernperu.com.pe

[Table of Contents](#)**ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANT ON ACCOUNTING AND FINANCIAL DISCLOSURE**

Not applicable.

ITEM 9A. CONTROLS AND PROCEDURES

As of December 31, 2022, the Company conducted an evaluation under the supervision and with the participation of the Company's disclosure committee and the Company's management, including the Chief Executive Officer and Chief Financial Officer, of the effectiveness and the design and operation of the Company's disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)). Based on that evaluation, the Chief Executive Officer and the Chief Financial Officer have concluded that the Company's disclosure controls and procedures are effective as of December 31, 2022, to ensure that information required to be disclosed in reports filed or submitted under the Exchange Act is:

1. Recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and
2. Accumulated and communicated to management, including the Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

CHANGES IN INTERNAL CONTROL OVER FINANCIAL REPORTING

There were no changes in the Company's internal control over financial reporting (as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Securities Exchange Act of 1934, as amended) that occurred during the fourth quarter ended December 31, 2022 that have materially affected, or are reasonably likely to materially affect, the Company's internal controls over financial reporting,

MANAGEMENT'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING

Management is responsible for establishing and maintaining adequate internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the Company.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness for future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies or procedures may deteriorate.

Under the supervision and with the participation of the Company's management, including the Chief Executive Officer and Chief Financial Officer, the Company conducted an evaluation of the effectiveness of its internal control over financial reporting based on the framework in Internal Control—Integrated Framework (2013) issued by the Committee of Sponsoring Organization of the Treadway Commission. Based on the evaluation made under this framework, management concluded that as of December 31, 2022 such internal control over financial reporting is effective.

Our internal control over financial reporting as of December 31, 2022 has been audited by Galaz, Yamazaki, Ruiz Urquiza, S.C. member of Deloitte Touche Tohmatsu Limited, an independent registered public accounting firm, as stated in their report which is provided below.

[Table of Contents](#)**REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

To the Board of Directors and Stockholders of Southern Copper Corporation

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Southern Copper Corporation and subsidiaries (the “Company”) as of December 31, 2022, based on criteria established in Internal Control—Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022, based on the criteria established in Internal Control—Integrated Framework (2013) issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements and financial statement schedule as of and for the year ended December 31, 2022 of the Company and our report dated February 28, 2023, expressed an unqualified opinion on those financial statements and financial statement schedule.

Basis for Opinion

The Company’s management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying “Management’s Report on Internal Control over Financial Reporting” appearing in Item 9A. Our responsibility is to express an opinion on the Company’s internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A Company’s internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A Company’s internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the Company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the Company are being made only in accordance with authorizations of management and directors of the Company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the Company’s assets that could have a material effect on the financial statements.

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

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Galaz, Yamazaki, Ruiz Urquiza, S.C.
Member of Deloitte Touche Tohmatsu Limited

/s/ PAULINA RAMOS RAMIREZ

C.P.C. Paulina Ramos Ramirez

Mexico City, Mexico

February 28, 2023

ITEM 9B. OTHER INFORMATION

None.

ITEM 9C. DISCLOSURE REGARDING FOREIGN JURISDICTIONS THAT PREVENT INSPECTIONS.

Not applicable.

[Table of Contents](#)**PART III****ITEM 10, 11, 12, 13 AND 14****INFORMATION ABOUT OUR EXECUTIVE OFFICERS**

Set forth below are the executive officers of the Company, their ages as of February 28, 2023 and their positions.

<u>Name</u>	<u>Age</u>	<u>Position</u>
German Larrea Mota-Velasco	69	Chairman of the Board and Director
Oscar Gonzalez Rocha	84	President, Chief Executive Officer and Director
Raul Jacob Ruisanchez	64	Vice President, Finance, Treasurer and Chief Financial Officer
Julian Jorge Lazalde Psihas	54	Secretary
Andres Carlos Ferrero Ghislieri	54	General Counsel
Lina Vingerhoets Vilca	61	Comptroller
Edgard Corrales Aguilar	67	Vice President, Exploration
Raul Vaca Castro	63	General Auditor

German Larrea Mota-Velasco has served as our Chairman of the Board since December 1999, Chief Executive Officer from December 1999 to October 2004 and as a member of our Board of Directors since November 1999. He has been Chairman of the board of directors, President and Chief Executive Officer of Grupo Mexico (holding) since 1994. Mr. Larrea has been Chairman of the board of directors and Chief Executive Officer of Grupo Ferroviario Mexicano S.A. de C.V. (railroad company) since 1997. Mr. Larrea was previously Executive Vice Chairman of Grupo Mexico and has been a member of the board of directors since 1981. He is also Chairman of the board of directors and Chief Executive Officer of Empresarios Industriales de Mexico, S.A. de C.V. (holding) and Fondo Inmobiliario (real estate company), since 1992. He founded Grupo Impresa, a printing and publishing company in 1978, remaining as the Chairman and Chief Executive Officer until 1989 when the company was sold. He is a director of the Consejo Mexicano de Negocios since 1999, was a director of Banco Nacional de Mexico, S.A. (Citigroup) from 1992 to 2015 and Grupo Televisa, S.A.B. from 1999 to 2014.

Oscar Gonzalez Rocha has served as our President since December 1999 and our President and Chief Executive Officer since October 21, 2004. He has been our Director since November 1999. Mr. Gonzalez Rocha has been the President and Chief Executive Officer of Americas Mining Corporation since November 1, 2014 and the Chief Executive Officer and a director of Asarco LLC (integrated U.S. copper producer), an affiliate of the Company, since August 2010. Previously, he was our President and General Director and Chief Operating Officer from December 1999 to October 20, 2004. He has been a director of Grupo Mexico since 2002. He was General Director of Mexicana de Cobre, S.A. de C.V. from 1986 to 1999 and of Buenavista del Cobre S.A. de C.V. (formerly Mexicana de Cananea, S.A. de C.V.) from 1990 to 1999. He was an alternate director of Grupo Mexico from 1988 to April 2002. Mr. Gonzalez Rocha is a civil engineer with a degree from the Autonomous National University of Mexico (“UNAM”) in Mexico City, Mexico. Mr. Gonzalez Rocha has been recognized as Copper man of the year 2015 and was inducted into the American Mining Hall of Fame in December 2016 in Tucson, Arizona and into the Mexican Mining Hall of Fame in October 2017 in Guadalajara, Mexico.

Raul Jacob Ruisanchez has served as our Vice President, Finance and Chief Financial Officer since April 18, 2013. He was appointed Treasurer of the Company on April 28, 2016. He was our Comptroller from October 27, 2011 until April 18, 2013. He has held various positions focused primarily in financial planning, treasury, corporate finance, investor relations and project evaluation with the Company since 1992. In September 2011, he was appointed Director of Controller and Finance of the Company’s Peruvian Branch and Vice President and Chief Financial Officer of Southern Peru Limited, one of our subsidiaries. In 2021, Mr. Jacob was chosen by Institutional Investor as the top Chief Financial Officer in the Latin America mining industry. In 2010, he was ranked among the top three Investor Relations executives of the mining industry of Latin America by the same publication. Mr. Jacob was President of the Peruvian National Mining, Oil and Energy Association from January 2021 to January 2023 and is currently member of the Executive Committee and Board of the National Confederation of Private Business Association. Mr. Jacob is a member of the consulting board of the MBA program (Finance) of the Universidad del Pacifico in Lima, Peru. He was President of the Strategic Studies Center of IPAE, an entrepreneurial association from February 2007 to March of 2010. Between 2004 and 2006, he was the President of the Finance Affairs Committee of the American Chamber of Commerce of Peru.

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Mr. Jacob holds an economics degree from Universidad del Pacifico, a Master's Degree from the University of Texas (Austin), a Degree in International Business Management from the Stockholm School of Economics and a Senior Manager Degree by the Instituto de Empresa Business School (IE) in Madrid.

Julian Jorge Lazalde Psihas, our Secretary, has been a Director, Executive Vice President and General Counsel of Asarco LLC since December 2009. Since October 2015 he is also General Counsel of Americas Mining Corporation, both subsidiaries of Grupo Mexico, S.A.B. de C.V., the parent company of the Company. Mr. Lazalde was General Counsel of Asarco Inc., the predecessor of Asarco LLC, from September 2006 until December 2009. Mr. Lazalde holds a law degree from the Autonomous Institute of Mexico, known as ITAM, and has degrees from the Panamerican University in two special areas, tax law and commercial law.

Andres Carlos Ferrero Ghislieri, our General Counsel, has been a member of the Legal Department of our Peruvian Branch since December 1995. Prior to this, he served as a Technical Advisor to the World Bank's Energy and Mines Technical Assistance Loan Project (EMTAL) assigned to the National Society of Mining, Energy and Petroleum. He has also worked as a mining law consultant for the South African Government from May to October 2001. He was elected Superintendent of the Legal Affairs and Legal Manager of the Peruvian Branch in March 2008 and July 2016 respectively. He is a member of the Board of Compañía Minera Los Tolmos, S.A. and Secretary of the Board of Ocoña Hydro, S.A., which are subsidiaries of the Company. He is also a Board member of Inversiones Tulipan, S. A., which is an affiliate of the Company. He holds a law degree from the University of Lima, Peru and a Master of Law or LLM degree in Resources Law and Policy from Dundee University, United Kingdom.

Lina Vingerhoets Vilca, our Comptroller, has been the Assistant Comptroller of the Company since April 2015 and Controller of the Peruvian Branch of the Company since July 2015. Ms. Vingerhoets has worked for the Company's Peruvian Branch in various capacities since 1991. From 2013 to 2015, she was in charge of Internal Control. From 2006 to 2015, she was in charge of Accounting Quality and SEC reporting. In addition, she has held other positions in Financial Planning, Finance and Accounting with the Company's Peruvian Branch. Ms. Vingerhoets is a Peruvian certified public accountant and holds Accounting and MBA degrees from the Universidad del Pacifico, in Lima, Peru.

Edgard Corrales Aguilar has served as Vice President, Exploration since July 18, 2013. Mr. Corrales has been working with the Peruvian Branch of SCC since 1983 in various positions, including as senior geologist of the Toquepala mine, head of the geology department of the Cuajone mine and manager of the exploration department of the Peruvian Branch of SCC. Currently he is Exploration Director of the Peruvian Branch of SCC and general manager of SCC's Branch in Chile. Mr. Corrales has a degree in geology and engineering from the Universidad Nacional San Agustin, Arequipa, Peru and has followed specialized studies at the Catholic University of Caracas, Venezuela and the MacKay School of Mines at the University of Reno, Nevada. He has also completed extensive studies in management at various universities in Peru.

Raul Vaca Castro was elected as General Auditor, effective July 18, 2019. He has 35 years of experience with Grupo Mexico. Mr. Vaca Castro has been Director of Internal Audit of Minera México, a subsidiary of SCC since 2018. Previously, he was Director of Internal Audit of the infrastructure division of Grupo Mexico, as well as Deputy Director of Internal Control for the mining division of Grupo México. He was also comptroller of Minera Mexico Internacional and before this, he held several positions in different companies of Grupo Mexico. Mr. Vaca holds a bachelor's degree in Accounting from the Universidad Nacional Autonoma de Mexico (UNAM). He holds an MBA from the Universidad del Valle de México, with a specialization in finance, having earned an honorable mention award, when receiving his diplomas in finance and taxes. Mr. Vaca is also an active member of the Colegio de Contadores Publicos de Mexico and the Institute of Internal Auditors of Mexico. He is also member of the Technical Commission of Internal Audit of the Colegio de Contadores Publicos de Mexico. He is a professor at the Facultad de Contaduria y Administracion of Universidad Nacional Autonoma de Mexico (UNAM).

Information in response to the additional disclosure requirements specified by Part III, Items 10, 11, 12, 13 and 14 will be included in a definitive proxy statement, which will be filed pursuant to Regulation 14A of the 1934 Securities Exchange Act, as amended, prior to April 30, 2023, or will be provided by amendment to this Form 10-K, also to be filed no later than April 30, 2023.

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The information contained in such definitive proxy statement is incorporated herein by reference, excluding the information under the caption "Compensation Committee Report," which shall not be deemed filed.

PART IV.

ITEM 15. EXHIBITS, FINANCIAL STATEMENTS, SCHEDULE.

The following documents are filed as part of this report:

1. Financial Statements

The following financial statements of Southern Copper Corporation and its subsidiaries are included at the indicated pages of the document as stated below:

	Form 10- K Pages
Report of Independent Registered Public Accounting Firm (PCAOB ID 1153)	121
Consolidated statements of earnings for the years ended December 31, 2022, 2021 and 2020	123
Consolidated statements of comprehensive income for the years ended December 31, 2022, 2021 and 2020	124
Consolidated balance sheets at December 31, 2022 and 2021	125
Consolidated statements of cash flows for the years ended December 31, 2022, 2021 and 2020	126
Consolidated statements of changes in equity for the years ended December 31, 2022, 2021 and 2020	1277
Notes to the consolidated financial statements	128 - 176

2. Exhibits:

- 3.1 (a) Amended and Restated Certificate of Incorporation, filed on October 11, 2005.
- (b) Certificate of Amendment of Amended and Restated Certificate of Incorporation dated May 2, 2006.
- (c) Certificate of Amendment of Amended and Restated Certificate of Incorporation dated May 28, 2008.
- 3.2 By-Laws, as last amended on January 27, 2022.
- 4.1 (a) Indenture governing \$600 million 7.500% Notes due 2035, by and among Southern Copper Corporation, The Bank of New York and The Bank of New York (Luxembourg) S.A.
- (b) Indenture governing \$400 million 7.500% Notes due 2035, by and among Southern Copper Corporation, The Bank of New York, and The Bank of New York (Luxembourg) S.A.
- 4.2 Form of 6.375% Note (included in Exhibit 4.1).
- 4.3 Form of New 7.500% Note (included in Exhibit 4.2(a)).
- 4.4 Form of New 7.500% Note (included in Exhibit 4.2(b)).
- 4.5 Indenture, dated as of April 16, 2010, between Southern Copper Corporation and Wells Fargo Bank, National Association, as trustee, pursuant to which \$1.1 billion of 6.750% Notes due 2040 were issued.
- 4.6 Second Supplemental Indenture, dated as of April 16, 2010, between Southern Copper Corporation and Wells Fargo Bank, National Association, as trustee, pursuant to which the 6.750% Notes due 2040 were issued.
- 4.7 Form of 6.750% Notes due 2040.
- 4.8 Fourth Supplemental Indenture, dated as of November 8, 2012, between Southern Copper Corporation and Wells Fargo Bank, National Association, as trustee, pursuant to which the 5.250% Notes due 2042 were issued.
- 4.9 Form of 5.250% Notes due 2042.
- 4.10 Fifth Supplemental Indenture dated as of April 23, 2015, between Southern Copper Corporation and Wells Fargo Bank, National Association, as trustee, pursuant to which the 3.875% Notes due 2025 were issued.
- 4.11 Sixth Supplemental Indenture, dated as of April 23, 2015, between Southern Copper Corporation and Wells Fargo Bank, National Association, as trustee, pursuant to which the 5.875% Notes due 2045 were issued.
- 4.12 Form of 3.875% Notes due 2025.

4.13 Form of 5.875% Notes due 2045.

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- 4.14 Description of the Company's securities registered pursuant to Section 12 of the Securities Exchange Act of 1934, as amended.
- 10.1 Directors' Stock Award Plan of the Company, as amended through January 27, 2028.
- 10.2 Agreement and Plan of Merger, dated as of October 21, 2004, by and among Southern Copper Corporation, SCC Merger Sub, Inc., Americas Sales Company, Inc., Americas Mining Corporation and Minera Mexico S.A. de C.V.
- 10.3 Tax Agreement entered into by the Company and Americas Mining Corporation, effective as of February 20, 2017.
- 14.0 Code of Business Conduct and Ethics adopted by the Board of Directors on May 8, 2003 and amended on July 21, 2022.
- 21.1 Subsidiaries of the Company.
- 23.1 Consent of Registered Public Accounting Firm (Galaz, Yamazaki, Ruiz Urquiza, S.C., Member of Deloitte Touche Tohmatsu, Limited) (PCAOB ID 1153).
- 23.2 Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for the Cuajone Mine.
- 23.3 Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for the Toquepala Mine.
- 23.4 Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for the Tia Maria Project.
- 23.5 Consent of Qualified Persons for Technical Report Summary of Mineral Resources for the Los Chancas Project.
- 23.6 Consent of Qualified Persons for Technical Report Summary of Mineral Resources for the Michiquillay Project.
- 23.7 Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for Buenavista del Cobre.
- 23.8 Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for the La Caridad Mine.
- 23.9 Consent of Qualified Persons for Technical Report Summary of Mineral Resources for the Pilares Project.
- 23.10 Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for the El Pilar Project.
- 23.11 Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for the El Arco Project.
- 23.12 Consent of Qualified Persons for Technical Report Summary of Mineral Resources for the Charcas Mine.
- 23.13 Consent of Qualified Persons for Technical Report Summary of Mineral Resources for the Santa Barbara Mine.
- 23.14 Consent of Qualified Persons for Technical Report Summary of Mineral Resources for the San Martin Mine.
- 31.1 Certification Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 31.2 Certification Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 32.1 Certification Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, 18 U.S.C., Section 1350. This document is being furnished in accordance with SEC Release No. 33-8328.
- 32.2 Certification Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, 18 U.S.C., Section 1350. This document is being furnished in accordance with SEC Release No. 33-8328.
- 96.1 Technical Report Summary of Mineral Reserves and Mineral Resources for the Cuajone Mine.
- 96.2 Technical Report Summary of Mineral Reserves and Mineral Resources for the Toquepala Mine.
- 96.3 Technical Report Summary of Mineral Reserves and Mineral Resources for the Tia Maria Project.
- 96.4 Technical Report Summary of Mineral Resources for the Los Chancas Project.
- 96.5 Technical Report Summary of Mineral Resources for the Michiquillay Project.
- 96.6 Technical Report Summary of Mineral Reserves and Mineral Resources for Buenavista del Cobre.
- 96.7 Technical Report Summary of Mineral Reserves and Mineral Resources for the La Caridad Mine.
- 96.8 Technical Report Summary of Mineral Resources for the Pilares Project.

- 96.9 Technical Report Summary of Mineral Reserves and Mineral Resources for the El Pilar Project.
- 96.10 Technical Report Summary of Mineral Reserves and Mineral Resources for the El Arco Project.
- 96.11 Technical Report Summary of Mineral Resources for the Charcas Mine.

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96.12	Technical Report Summary of Mineral Resources for the Santa Barbara Mine.
96.13	Technical Report Summary of Mineral Resources for the San Martin Mine.
101.INS	XBRL Instance Document (submitted electronically with this report). The instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document.
101.SCH	XBRL Taxonomy Extension Schema Document (submitted electronically with this report).
101.CAL	XBRL Taxonomy Calculation Linkbase Document (submitted electronically with this report).
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document (submitted electronically with this report).
101.LAB	XBRL Taxonomy Label Linkbase Document (submitted electronically with this report).
101.PRE	XBRL Taxonomy Presentation Linkbase Document (submitted electronically with this report).
104	Cover page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)

The exhibit listed as 10.1 is the management contract or compensatory plan or arrangement required to be filed pursuant to Item 15(b) of Form 10-K.

Attached as Exhibit 101 to this report are the following documents formatted in Inline XBRL (Inline Extensible Business Reporting Language): (i) the Consolidated Statements of Earnings for the years ended December 31, 2022, 2021 and 2020; (ii) the Consolidated Statements of Comprehensive Income for the years ended December 31, 2022, 2021 and 2020; (iii) the Consolidated Balance Sheets at December 31, 2022 and 2021; (iv) the Consolidated Statements of Cash Flows for the years ended December 31, 2022, 2021 and 2020; (v) the Consolidated Statements of changes in equity for the years ended December 31, 2022, 2021 and 2020, and (vi) the Notes to Consolidated Financial Statements tagged in detail. Users of this data are advised pursuant to Rule 406T of Regulation S-T that this interactive data file is deemed not filed or part of a registration statement or prospectus for purposes of sections 11 or 12 of the Securities Act of 1933, is deemed not filed for purposes of section 18 of the Securities Exchange Act of 1934, and otherwise is not subject to liability under these sections.

3. Schedule II

Valuation and Qualifying Accounts and Reserves (in millions):

	Balance at beginning of period	Charged to costs and expenses	Additions		Balance at end of period
			Additions	Deduction/ Application	
Reserve deducted in balance sheet to which applicable:					
<i>Accounts Receivable:</i>					
2022	\$ 8.7	0.1	—	—	\$ 8.8
2021	\$ 8.8	—	—	(0.1)	\$ 8.7
2020	\$ 0.5	8.5	—	(0.2)	\$ 8.8
<i>Notes issued under par:</i>					
2022	\$ 65.6	2.2	—	—	\$ 63.4
2021	\$ 67.6	2.0	—	—	\$ 65.6
2020	\$ 69.6	2.0	—	—	\$ 67.6
<i>Valuation allowance:</i>					
2022	\$ 1,820.0	233.7	—	—	\$ 2,053.7
2021	\$ 1,343.2	476.8	—	—	\$ 1,820.0
2020	\$ 1,097.0	246.2	—	—	\$ 1,343.2

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**Supplemental information
Southern Copper Corporation
Exhibit Index**

Sequential Exhibit Number	Document Description	Page Number
3.1	<p>(a) Amended and Restated Certificate of Incorporation, filed on October 11, 2005. (Filed as Exhibit 3.1 to the Company's Quarterly Report on Form 10-Q for the third quarter of 2005 and incorporated herein by reference).</p> <p>(b) Certificate of Amendment of Amended and Restated Certificate of Incorporation dated May 2, 2006. (Filed as Exhibit 3.1 to Registration Statement on Form S-4, File No. 333-135170, filed on June 20, 2006 and incorporated herein by reference).</p> <p>(c) Certificate of Amendment of Amended and Restated Certificate of Incorporation dated May 28, 2008. (Filed as Exhibit 3.1 to the Company's Quarterly Report on Form 10-Q for the second quarter of 2008 and incorporated herein by reference).</p>	
3.2	By-Laws, as last amended on January 27, 2022. (Filed as Exhibit 3.2 to the Company's Form 8-K filed on January 31, 2022 and incorporated herein by reference).	
4.1	<p>(a) Indenture governing \$600 million 7.500% Notes due 2035, by and among Southern Copper Corporation, The Bank of New York and The Bank of New York (Luxembourg) S.A. (Filed as Exhibit 4.2 to the Company's Current Report on Form 8-K filed on August 1, 2005 and incorporated herein by reference).</p> <p>(b) Indenture governing \$400 million 7.500% Notes due 2035, by and among Southern Copper Corporation, The Bank of New York, and The Bank of New York (Luxembourg) S.A. (Filed as Exhibit 4.2 to the Company's Current Report on Form 8-K filed on August 1, 2005 and incorporated herein by reference).</p>	
4.2	Form of 6.375% Note (included in exhibit 4.1).	
4.3	Form of New 7.500% Note (included in Exhibit 4.2(a)).	
4.4	Form of New 7.500% Note (included in Exhibit 4.2(b)).	
4.5	Indenture, dated as of April 16, 2010, between Southern Copper Corporation and Wells Fargo Bank, National Association, as trustee, pursuant to which \$1.1 billion of 6.750% Notes due 2040 were issued. (Filed as Exhibit 4.1 to the Company's Current Report on Form 8-K filed on April 19, 2010 and incorporated herein by reference).	
4.6	Second Supplemental Indenture, dated as of April 16, 2010, between Southern Copper Corporation and Wells Fargo Bank, National Association, as trustee, pursuant to which the 6.750% Notes due 2040 were issued. (Filed as an Exhibit to the Company's Current Report on Form 8-K filed on April 19, 2010 and incorporated herein by reference).	
4.7	Form of 6.750% Notes due 2040. (Filed as an Exhibit to the Company's Current Report on Form 8-K filed on April 19, 2010 and incorporated herein by reference).	
4.8	Fourth Supplemental Indenture, dated as of November 8, 2012, between Southern Copper Corporation and Wells Fargo Bank, National Association, as trustee, pursuant to which the 5.250% Notes due 2042 were issued. (Filed as an Exhibit to the Company's Current Report on Form 8-K filed on November 9, 2012 and incorporated herein by reference).	
4.9	Form of 5.250% Notes due 2042. (Filed as an Exhibit to the Company's Current Report on Form 8-K filed on November 9, 2012 and incorporated herein by reference).	
4.10	Fifth Supplemental Indenture dated as of April 23, 2015, between Southern Copper Corporation and Wells Fargo Bank, National Association, as trustee, pursuant to which the 3.875% Notes due 2025 were issued. (Filed as an Exhibit to the Company's Current Report on Form 8-K filed on April 24, 2015 and incorporated herein by reference).	
4.11	Sixth Supplemental Indenture, dated as of April 23, 2015, between Southern Copper Corporation and Wells Fargo Bank, National Association, as trustee, pursuant to which the 5.875% Notes due 2045 were issued. (Filed as an Exhibit to	

[the Company's Current Report on Form 8-K filed on April 24, 2015 and incorporated herein by reference\).](#)

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- 4.12 [Form of 3.875% Notes due 2025. \(Filed as Exhibit A to Exhibit 4.1 to the Company's Current Report on Form 8-K filed on April 24, 2015 and incorporated herein by reference\).](#)
- 4.13 [Form of 5.875% Notes due 2045. \(Filed as Exhibit A to Exhibit 4.2 to the Company's Current Report on Form 8-K filed on April 24, 2015 and incorporated herein by reference\).](#)
- 4.14 [Description of the Company's securities registered pursuant to Section 12 of the Securities Exchange Act of 1934, as amended \(Filed herewith\).](#)
- 10.1 [Directors' Stock Award Plan of the Company, as amended through January 27, 2028. \(Filed as an exhibit to the Company's Current Report on Form S-8 filed on January 27, 2023 and incorporated herein by reference\). The plan expired by its terms on January 28, 2023. A 5-year extension of the plan was approved by the Company's stockholders at the 2022 Annual Meeting of Stockholders.](#)
- 10.2 [Agreement and Plan of Merger, dated as of October 21, 2004, by and among Southern Copper Corporation, SCC Merger Sub, Inc., Americas Sales Company, Inc., Americas Mining Corporation and Minera Mexico S.A. de C.V. \(Filed as an Exhibit to Current Report on Form 8-K filed on October 22, 2004 and incorporated herein by reference\).](#)
- 10.3 [Tax Agreement entered into by the Company and Americas Mining Corporation, effective as of February 20, 2017. \(Filed as Exhibit 10.4 to the Company's Quarterly Report on Form 10-Q for the first quarter of 2017 and incorporated herein by reference\).](#)
- 14.0 [Code of Business Conduct and Ethics adopted by the Board of Directors on May 8, 2003 and amended on July 21, 2022. \(Filed as Exhibit 14.1 to the Company's Current Report on Form 8-K filed July 26, 2022 and incorporated herein by reference\).](#)
- 21.1 [Subsidiaries of the Company \(Filed herewith\).](#)
- 23.1 [Consent of Registered Public Accounting Firm \(Galaz, Yamazaki, Ruiz Urquiza, S.C.—Member of Deloitte Touche Tohmatsu, Limited\).\(PCAOB ID 1153\).\(Filed herewith\).](#)
- 23.2 [Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for the Cuajone Mine \(Filed herewith\).](#)
- 23.3 [Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for the Toquepala Mine \(Filed herewith\).](#)
- 23.4 [Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for the Tia Maria Project \(Filed herewith\).](#)
- 23.5 [Consent of Qualified Persons for Technical Report Summary of Mineral Resources for the Los Chancas Project \(Filed herewith\).](#)
- 23.6 [Consent of Qualified Persons for Technical Report Summary of Mineral Resources for the Michiquillay Project \(Filed herewith\).](#)
- 23.7 [Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for Buenavista del Cobre \(Filed herewith\).](#)
- 23.8 [Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for the La Caridad Mine \(Filed herewith\).](#)
- 23.9 [Consent of Qualified Persons for Technical Report Summary of Mineral Resources for the Pilares Project \(Filed herewith\).](#)
- 23.10 [Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for the El Pilar Project \(Filed herewith\).](#)
- 23.11 [Consent of Qualified Persons for Technical Report Summary of Mineral Reserves and Mineral Resources for the El Arco Project \(Filed herewith\).](#)
- 23.12 [Consent of Qualified Persons for Technical Report Summary of Mineral Resources for the Charcas Mine \(Filed herewith\).](#)
- 23.13 [Consent of Qualified Persons for Technical Report Summary of Mineral Resources for the Santa Barbara Mine \(Filed herewith\).](#)
- 23.14 [Consent of Qualified Persons for Technical Report Summary of Mineral Resources for the San Martin Mine \(Filed herewith\).](#)
- 31.1 [Certification Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 \(Filed herewith\).](#)
- 31.2 [Certification Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 \(Filed herewith\).](#)

- 32.1 [Certification Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, 18 U.S.C., section 1350. This document is being furnished in accordance with SEC Release No. 33-8238.](#)

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- 32.2 [Certification Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, 18 U.S.C., section 1350. This document is being furnished in accordance with SEC Release No. 33-8238.](#)
- 96.1 Technical Report Summary of Mineral Reserves and Mineral Resources for the Cuajone Mine (To be filed by Amendment).
- 96.2 Technical Report Summary of Mineral Reserves and Mineral Resources for the Toquepala Mine (To be filed by Amendment).
- 96.3 [Technical Report Summary of Mineral Reserves and Mineral Resources for the Tia Maria Project \(Filed as an Exhibit to the Company's Report on Form 10-K/A filed on March 7, 2022 and incorporated herein by reference\).](#)
- 96.4 [Technical Report Summary of Mineral Resources for the Los Chancas Project \(Filed as an Exhibit to the Company's Report on Form 10-K/A filed on March 7, 2022 and incorporated herein by reference\).](#)
- 96.5 [Technical Report Summary of Mineral Resources for the Michiquillay Project \(Filed as an Exhibit to the Company's Report on Form 10-K/A filed on March 7, 2022 and incorporated herein by reference\).](#)
- 96.6 Technical Report Summary of Mineral Reserves and Mineral Resources for Buenavista del Cobre (To be filed by Amendment).
- 96.7 Technical Report Summary of Mineral Reserves and Mineral Resources for the La Caridad Mine (To be filed by Amendment).
- 96.8 [Technical Report Summary of Mineral Resources for the Pilares Project \(Filed as an Exhibit to the Company's Report on Form 10-K/A filed on March 7, 2022 and incorporated herein by reference\).](#)
- 96.9 [Technical Report Summary of Mineral Reserves and Mineral Resources for the El Pilar Project \(Filed as an Exhibit to the Company's Report on Form 10-K/A filed on March 7, 2022 and incorporated herein by reference\).](#)
- 96.10 [Technical Report Summary of Mineral Reserves and Mineral Resources for the El Arco Project \(Filed as an Exhibit to the Company's Report on Form 10-K/A filed on March 7, 2022 and incorporated herein by reference\).](#)
- 96.11 Technical Report Summary of Mineral Resources for the Charcas Mine (To be filed by Amendment).
- 96.12 Technical Report Summary of Mineral Resources for the Santa Barbara Mine (To be filed by Amendment).
- 96.13 Technical Report Summary of Mineral Resources for the San Martin Mine (To be filed by Amendment).
- 101.INS XBRL Instance Document (submitted electronically with this report). The instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document.
- 101.SCH XBRL Taxonomy Extension Schema Document (submitted electronically with this report).
- 101.CAL XBRL Taxonomy Calculation Linkbase Document (submitted electronically with this report).
- 101.DEF XBRL Taxonomy Extension Definition Linkbase Document (submitted electronically with this report).
- 101.LAB XBRL Taxonomy Label Linkbase Document (submitted electronically with this report).
- 101.PRE XBRL Taxonomy Presentation Linkbase Document (submitted electronically with this report).
- 104 Cover Page Interactive Data File (formatted in Inline XBRL and contained in Exhibit 101)

The exhibit listed as 10.1 is the management contract or compensatory plan or arrangement required to be filed pursuant to Item 15(b) of Form 10-K.

Attached as Exhibit 101 to this report are the following documents formatted in Inline XBRL (Inline Extensible Business Reporting Language): (i) the Consolidated Statements of Earnings for the years ended December 31, 2022, 2021 and 2020; (ii) the Consolidated Statements of Comprehensive Income for the years ended December 31, 2022, 2021 and 2020; (iii) the Consolidated Balance Sheets at December 31, 2022 and 2021; (iv) the Consolidated Statements of Cash Flows for the years ended December 31, 2022, 2021 and 2020; (v) the Consolidated Statements of changes in equity for the years

ended December 31, 2022, 2021 and 2020, and (vi) the Notes to Consolidated Financial Statements tagged in

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detail. Users of this data are advised pursuant to Rule 406T of Regulation S-T that this interactive data file is deemed not filed or part of a registration statement or prospectus for purposes of sections 11 or 12 of the Securities Act of 1933, is deemed not filed for purposes of section 18 of the Securities Exchange Act of 1934, and otherwise is not subject to liability under these sections.

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, as amended, the Registrant has duly caused this Report on Form 10-K to be signed on its behalf by the undersigned, thereunto duly authorized.

SOUTHERN COPPER CORPORATION
(Registrant)

By: /s/ OSCAR GONZALEZ ROCHA

Oscar Gonzalez Rocha
President and Chief Executive Officer

Date: February 28, 2023

Pursuant to requirements of the Securities Exchange Act of 1934, this Report on Form 10-K has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

<u> /s/ GERMAN LARREA MOTA-VELASCO </u> German Larrea Mota-Velasco	Chairman of the Board, and Director
<u> /s/ OSCAR GONZALEZ ROCHA </u> Oscar Gonzalez Rocha	President, Chief Executive Officer and Director
<u> /s/ RAUL JACOB RUISANCHEZ </u> Raul Jacob Ruisanchez	Vice President, Finance, Treasurer and Chief Financial Officer (Principal Financial Officer)
<u> /s/ LINA A. VINGERHOETS VILCA </u> Lina A. Vingerhoets Vilca	Comptroller (Principal Accounting Officer)

DIRECTORS

<u> /s/ GERMAN LARREA MOTA-VELASCO </u> German Larrea Mota-Velasco	<u> /s/ OSCAR GONZALEZ ROCHA </u> Oscar Gonzalez Rocha
<u> /s/ LEONARDO CONTRERAS LERDO DE TEJADA </u> Leonardo Contreras Lerdo de Tejada	<u> /s/ VICENTE ARIZTEGUI ANDREVE </u> Vicente Ariztegui Andreve
<u> /s/ XAVIER GARCIA DE QUEVEDO </u> Xavier Garcia de Quevedo	<u> /s/ L. MIGUEL PALOMINO BONILLA </u> L. Miguel Palomino Bonilla
<u> /s/ GILBERTO PEREZALONSO CIFUENTES </u> Gilberto Perezalonso Cifuentes	<u> /s/ ENRIQUE CASTILLO SANCHEZ MEJORADA </u> Enrique Castillo Sanchez Mejorada
<u> /s/ CARLOS RUIZ SACRISTAN </u> Carlos Ruiz Sacristan	

Date: February 28, 2023