Nutrien Ltd.

Annual Information Form Year Ended December 31, 2023

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Following is a table of contents of this Annual Information Form ("AIF") referencing the applicable requirements of Form 51-102F2 – *Annual Information Form* of the Canadian Securities Administrators. Certain information required to be disclosed in this AIF is contained in Nutrien Ltd.'s management's discussion and analysis ("2023 MD&A"), and Consolidated Financial Statements for the years ended December 31, 2023 and 2022 ("2023 Consolidated Financial Statements") and is incorporated by reference herein to the extent noted below and throughout this AIF; these documents are available under Nutrien's corporate profile on the Canadian Securities Administrators' SEDAR+ website at sedarplus.ca and on the EDGAR section of the United States ("US") Securities and Exchange Commission's ("SEC") website at sec.gov.

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2 - Advisories

2.1 Forward-Looking Information

Certain statements and other information included in this AIF, including within the documents incorporated by reference, constitute "forward-looking information" or "forward-looking statements" (collectively, "forward-looking statements") under applicable securities laws (such statements are often accompanied by words such as "anticipate", "forecast", "expect", "believe", "may", "will", "should", "estimate", "project", "intend" or other similar words). All statements in this document, other than those relating to historical information or current conditions, are forward-looking statements, including, but not limited to:

- our business strategies, plans, prospects and opportunities, and our sustainability, climate change and Environmental, Social and Governance ("ESG") initiatives and proposed responses to climate change and ESG policies and regulations;
- expectations regarding performance of our operating segments;
- our projections for cash from operations and expectations regarding our growth and capital allocation intentions and strategies;
- our advancement of strategic growth initiatives;
- capital spending expectations;
- our market outlook for 2024 and our expectations for market conditions and fundamentals, including agriculture and crop nutrient
 markets, anticipated supply and demand for our products and services, expected market and industry and growing conditions
 with respect to crop nutrient application rates, planted acres, grower crop investment, crop mix, production volumes and
 expenses, shipments, natural gas costs and availability, consumption, prices, operating rates and the impact of seasonality,
 import and export volumes, economic sanctions, inventories, crop development and natural gas curtailments;
- expectations concerning future product offerings;
- expectations regarding continued natural gas curtailments at our Trinidad nitrogen facility and the expected improved natural gas availability and timing of completion of additional natural gas fields in Trinidad;
- expectations regarding changes in the agriculture space, including continued farm consolidation in the US and other developed markets and the continued advancement and adoption of technology and digital innovations, including the use and anticipated effects of more efficient mining, including remote-controlled mobile equipment, new crop input technologies and agronomic capabilities;
- expectations regarding acquisitions and divestitures;
- expectations regarding environmental compliance requirements and costs, including estimates of asset retirement obligations, federal and provincial carbon pricing, permits, approvals and site assessment and remediation costs;
- expectations regarding our sustainability, climate change and greenhouse gas ("GHG") emissions reduction strategy and related
 programs and initiatives, including our various sustainability performance goals, targets, costs, capital expenditures,
 commitments and aspirations as set out in our Feeding the Future Plan and the 2023 ESG Report;
- the expected timing for release of our Global Sustainability Report for the year ended December 31, 2023;
- our evaluation of future opportunities with respect to the suspended Geismar clean ammonia project;
- the negotiation of sales and other contracts, including the anticipated renegotiation and expiry of existing contracts;
- initiatives to promote innovative, sustainable and productive agriculture;
- expectations regarding future changes in our credit ratings; and
- expectations regarding our mineral reserve and resource estimates, and the annual nameplate capacity and annual operational capability of our mines and associated mine life estimates.

These forward-looking statements are subject to a number of assumptions, risks and uncertainties, many of which are beyond our control, which could cause actual results to differ materially from such forward-looking statements. As such, undue reliance should not be placed on these forward-looking statements.

All of the forward-looking statements are qualified by the assumptions that are stated or inherent in such forward-looking statements, including the assumptions referred to below and elsewhere in this document. Although we believe that these assumptions are reasonable, having regard to our experience and our perception of historical trends, the assumptions set forth below are not exhaustive of the factors that may affect any of the forward-looking statements and the reader should not place undue reliance on these assumptions and such forward-looking statements. Current conditions, economic and otherwise, render assumptions, although reasonable when made, subject to greater uncertainty.

In respect of our GHG emissions reduction and other sustainability and climate-related initiatives and targets, we have made assumptions with respect to, among other things: that such target is achievable by deploying capital into nitrous oxide (" N_2O ") abatement at our nitric acid production facilities, energy efficiency improvements, carbon capture, utilization and storage, use of natural gas to generate electricity and waste heat recovery; our ability to successfully deploy capital and pursue other operational measures, including the successful application to our current and future operations of existing and new technologies; the successful implementation by us of proposed or potential plans in respect thereof; projected capital investment levels, the flexibility of our capital spending plans and the associated sources of funding; our ability to otherwise implement all technology necessary to achieve our GHG emissions reduction and other sustainability and climate-related initiatives and targets; and the development, availability and performance of technology and technological innovations and associated expected future results.

Additional key assumptions that have been made in relation to the operation of our business as currently planned and our ability to achieve our business objectives include, among other things:

- assumptions with respect to our ability to successfully complete, integrate and realize the anticipated benefits of our already
 completed and future acquisitions and divestitures, and that we will be able to implement our standards, controls, procedures
 and policies in respect of any acquired businesses and realize the expected synergies on the anticipated timeline or at all;
- that future business, regulatory and industry conditions will be within the parameters expected by us, including with respect to
 prices, expenses, margins, demand, supply, product availability, shipments, consumption, weather conditions, supplier
 agreements, product distribution agreements, availability, inventory levels, exports, crop development and cost of labor and
 interest, exchange and effective tax rates;
- assumptions with respect to global economic conditions and the accuracy of our market outlook expectations for 2024 and in the future;
- assumptions related to our calculation of the Retail South America goodwill and intangible asset impairment;
- assumptions related to the impairment of our Nitrogen and Phosphate property, plant and equipment;
- assumptions related to the calculation of the recoverable amount of our Aurora and White Springs cash generating units, including internal sales and input price forecasts, discount rate, long-term growth rate and end of expected mine life;
- assumptions with respect to our intention to complete share repurchases under our normal course issuer bid programs, including
 Toronto Stock Exchange ("TSX") approval, the funding of such share repurchases, existing and future market conditions,
 including with respect to the price of our common shares, and compliance with respect to applicable limitations under securities
 laws and regulations and stock exchange policies;
- our expectations regarding the impacts, direct and indirect, of certain geopolitical conflicts, including the war between Ukraine and Russia and the conflict in the Middle East on, among other things, global supply and demand, including for crop nutrients, energy and commodity prices, global interest rates, supply chains and the global macroeconomic environment, including inflation;
- · assumption regarding future markets for clean ammonia;
- the adequacy of our cash generated from operations and our ability to access our credit facilities or capital markets for additional sources of financing;
- our ability to identify suitable candidates for acquisitions and divestitures and negotiate acceptable terms;
- our ability to maintain investment grade ratings and achieve our performance targets;
- our ability to successfully negotiate sales and other contracts; and
- our ability to successfully implement new initiatives and programs.

Events or circumstances could cause actual results to differ materially from those in the forward-looking statements.

With respect to our GHG emissions reduction and other sustainability and climate-related initiatives and targets, such events or circumstances include, but are not limited to: our ability to deploy sufficient capital to fund the necessary expenditures to implement the necessary operational changes to achieve these initiatives and targets; our ability to implement requisite operational changes; our ability to implement some or all of the technology necessary to efficiently and effectively achieve expected future results, including in respect of such GHG emissions reduction target; the availability and commercial viability and scalability of emissions reduction strategies and related technology and products; and the development and execution of implementing strategies to meet such GHG emissions reduction target.

With respect to our business generally and our ability to meet the other targets, commitments, goals, strategies and related milestones and schedules disclosed in this document, such events or circumstances include, but are not limited to:

- general global economic, market and business conditions;
- failure to complete announced and future acquisitions or divestitures at all or on the expected terms and within the expected timeline;
- climate change and weather conditions, including impacts from regional flooding and/or drought conditions;
- failure to execute on our strategies related to sustainability matters or to achieve our GHG emission and other related expectations, targets, goals and commitments;
- crop planted acreage, yield and prices;

- the supply and demand and price levels for our products;
- governmental and regulatory requirements and actions by governmental authorities, including changes in government policy (including tariffs, trade restrictions and climate change initiatives), government ownership requirements, and changes in environmental, tax, antitrust, and other laws or regulations and the interpretation thereof;
- political or military risks, including civil unrest, actions by armed groups or conflict and malicious acts including terrorism and industrial espionage;
- our ability to access sufficient, cost-effective and timely transportation, distribution and storage of products;
- the occurrence of a major environmental or safety incident or becoming subject to legal or regulatory proceedings;
- innovation and cybersecurity risks related to our systems, including our costs of addressing or mitigating such risks;
- counterparty and sovereign risk;
- delays in completion of turnarounds at our major facilities;
- interruptions of or constraints in availability of key inputs, including natural gas and sulfur;
- any significant impairment of the carrying amount of certain assets;
- the risk that rising interest rates and/or deterioration of business operating results may result in the further impairment of assets or goodwill attributed to certain cash generating units;
- risks related to reputational loss;
- certain complications that may arise in our mining processes;
- the ability to attract, engage and retain skilled employees, and strikes or other forms of work stoppages;
- geopolitical conflicts, including the war between Ukraine and Russia and the conflict in the Middle East, and their potential impact on, among other things, global market conditions and supply and demand, including for crop nutrients, energy and commodity prices, interest rates, supply chains and the global economy generally; and
- other risk factors detailed from time to time in Nutrien reports filed with the Canadian securities regulators and the SEC in the US.

For additional details regarding the risks listed above, see "Risk Factors" discussed in this AIF for a description of other risk factors affecting forward-looking statements.

The forward-looking statements in this document are made as of the date hereof and we disclaim any intention or obligation to update or revise any forward-looking statements in this AIF as a result of new information or future events, except as may be required under applicable Canadian securities legislation or applicable US federal securities laws.

2.2 Basis of Presentation

Nutrien's consolidated financial information for 2023, 2022 and 2021 presented and discussed in this AIF is prepared in accordance with International Financial Reporting Standards ("IFRS") as issued by the International Accounting Standards Board. This AIF is dated February 22, 2024, and the information contained herein is current as of such date, unless otherwise specified.

Unless expressly stated, the information contained on, or accessible from, our website or any other website or any other report or document we file with or furnish to applicable Canadian or US securities regulatory authorities is not incorporated by reference into this AIF.

3 - Corporate Structure

In this AIF, unless otherwise specified, the term "Nutrien" refers to Nutrien Ltd. and, unless the context requires otherwise, the terms "we", "us", "our", "Nutrien" and the "Company" refer to Nutrien and its direct and indirect subsidiaries, individually or in any combination, as applicable. Financial information in this AIF is presented in United States dollars and references to "dollars", "\$" and "US\$" are to United States dollars and references to "CAD\$" are to Canadian dollars.

3.1 Name, Address and Incorporation

Nutrien is a corporation incorporated under the Canada Business Corporations Act ("CBCA").

Nutrien's registered head office is Suite 1700, 211 19th Street East, Saskatoon, Saskatchewan, Canada S7K 5R6. We also have corporate offices at 13131 Lake Fraser Drive SE, Calgary, Alberta, Canada T2J 7E8 and 5296 Harvest Lake Drive, Loveland, Colorado, US 80538.

3.2 Intercorporate Relationships

	Jurisdiction of Incorporation, Formation	
Principal Subsidiaries 1	or Organization	Ownership
Potash Corporation of Saskatchewan Inc. ("PotashCorp")	Canada	100%
Nutrien (Canada) Holdings ULC ("Agrium")	British Columbia, Canada	100%
Agrium Canada Partnership	Alberta, Canada	100%
Agrium Potash Ltd.	Canada	100%
Nutrien US LLC	Colorado, US	100%
Cominco Fertilizer Partnership	Texas, US	100%
Loveland Products Inc.	Colorado, US	100%
Nutrien Ag Solutions (Canada) Inc.	Canada	100%
Nutrien Ag Solutions, Inc.	Delaware, US	100%
Nutrien Ag Solutions Limited	Western Australia, Australia	100%
PCS Nitrogen Fertilizer, L.P.	Delaware, US	100%
PCS Nitrogen Trinidad Limited	Trinidad	100%
PCS Phosphate Company, Inc.	Delaware, US	100%
PCS Sales (USA), Inc.	Delaware, US	100%
Nutrien Financial US LLC	Delaware, US	100%

¹ In aggregate, our remaining subsidiaries not listed herein accounted for less than 20 percent of our consolidated assets and less than 20 percent of our consolidated sales as at and for the year ended December 31, 2023.

4 - General Development of the Business

4.1 Three-Year History

Acquisitions

The table below provides information on our acquisitions of Nutrien Ag Solutions ("Retail") businesses, including Casa do Adubo S.A. ("Casa do Adubo"), completed during the last three fiscal years.

	Casa do Adubo	Other Acquisitions		
Acquisition date	October 1, 2022	2023	2022	2021
Purchase price, net of	268	153	176	88
cash and cash				
equivalents acquired, and				
amounts held in escrow				
(US\$ millions)				
Number of Retail	39 retail locations	23	43	36
operating locations	and 10			
	distribution			
	centers			
Description	Agriculture	Various retail	Various retail	Various retail digital agriculture
	retailer in Brazil	agricultural services	agricultural services	and proprietary products, and
		in North America,	in North America,	retail and agricultural services
		Australia and South	Australia and South	businesses in North America,
		America	America and one	South America and Australia
			wholesale	
			warehouse location	

Asset Impairment and Reversals

	Impairment (Reversals) (US\$	
Year	millions)	Description
2023	233	Phosphate White Springs non-cash impairment of property, plant and equipment due to the volatility of forecasted phosphate margins
2023	465	the impact of crop input price volatility, more moderate long-term growth assumptions and higher interest rates
2023	76	Nitrogen Trinidad non-cash impairment of property, plant and equipment due to a new natural gas contract and the resulting outlook for higher expected natural gas costs and constrained near-term availability. We expect improved natural gas availability in Trinidad as the development of additional gas fields is anticipated to add new supply starting in 2026.
2022	(450)	Phosphate Aurora non-cash impairment reversal of property, plant and equipment due to the volatility of forecasted phosphate margins
2022	(330)	Phosphate White Springs non-cash impairment reversal of property, plant and equipment due to the volatility of forecasted phosphate margins

Normal Course Issuer Bid ("NCIB")

The table below provides information on our share repurchase programs.

	Commencement		
	Date	Expiry	Maximum Shares for Repurchase
2024 NCIB ¹	March 1, 2024	February 28, 2025	24,728,159
2023 NCIB	March 1, 2023	February 29, 2024	24,962,194
2022 NCIB ²	March 1, 2022	February 7, 2023	55,111,110
2021 NCIB	March 1, 2021	February 28, 2022	28,468,448
2020 NCIB	February 27, 2020	February 26, 2021	28,572,458

¹ On February 21, 2024, our Board of Directors (the "Board") approved a share repurchase program for up to 5 percent of our outstanding common shares (the "2024 NCIB"). The 2024 NCIB, which is subject to acceptance by the TSX, will expire earlier than the date above if we acquire the maximum number of common shares allowable or otherwise decide not to make any further repurchases.

The table below sets forth the number of common shares we have repurchased during the last three fiscal years, in each case, under the applicable NCIB through open market purchases at market prices.

Common Shares Repurchased	2023	2022	2021
Total amount (US\$ millions)	1,000	4,496	1,105
Number of shares	13,378,189	53,312,559	15,982,154

Senior Notes Issuances and Repayments

In 2022, we filed a base shelf prospectus in Canada and the US qualifying the issuance of up to \$5 billion of common shares, debt securities and other securities during a period of 25 months from March 11, 2022. On March 27, 2023, we issued \$1.5 billion of senior notes and on November 7, 2022, we issued \$1.0 billion of senior notes as described below, each such offering pursuant to the base shelf prospectus and the applicable prospectus supplement.

The following tables summarize our long-term debt issuances and repayment activities during the last three fiscal years.

	Rate of Interest		Amount
Senior Notes Issued (Year)	(%)	Maturity Date	(US\$ millions)
2023	4.900	March 27, 2028	750
2023	5.800	March 27, 2053	750
2022	5.900	November 7, 2024	500
2022	5.950	November 7, 2025	500

² The original expiry date of the 2022 NCIB was February 28, 2023, but we acquired the maximum aggregate number of common shares allowable thereunder on February 7, 2023.

The senior notes issued in 2023 and 2022 are unsecured, rank equally with our existing unsecured debt and have no sinking fund requirements prior to maturity. Each series is redeemable and provide for redemption prior to maturity, at our option, at specified prices. We did not issue any senior notes in 2021.

			Principal Amount
	Rate of Interest		Repaid/Redeemed
Senior Notes Repaid (Year)	(%)	Maturity Date	(US\$ millions)
2023	1.900	May 13, 2023	500
2022	3.150	October 1, 2022	500
2021 ¹	3.500	June 1, 2023	500
2021 1	3.625	March 15, 2024	750
2021 ¹	3.375	March 15, 2025	550

¹ In 2021, we redeemed the entire outstanding principal amount of these senior notes in accordance with the optional redemption provisions provided in the indentures governing these senior notes.

In 2021, we also completed a cash tender offer to purchase the following debentures and senior notes up to a maximum aggregate purchase price of \$300 million.

			Principal Amount
	Rate of Interest		Redeemed
	(%)	Maturity Date	(US\$ millions)
Debentures	7.800	February 1, 2027	5
Senior Notes	7.125	May 23, 2036	88
Senior Notes	6.125	January 15, 2041	99
Senior Notes	5.250	January 15, 2045	11

The 2021 redemption and cash tender offer were funded by using cash on hand and proceeds from the issuance of commercial paper. The total cash spend for the early redemption and tender offer, including accrued interest was \$2.2 billion.

Credit Facilities

		Description
Year	New Facilities	Existing Facilities
2023		Unsecured revolving term credit facility
		- Amended the terms to extend the maturity date from
		September 13, 2023 to September 10, 2024
		- Reduced the facility limit from \$2.0 billion to \$1.5 billion
2022	Entered into \$2.0 billion non-revolving term credit	\$2.0 billion unsecured non-revolving term credit facilities
	facilities in July	 Repaid drawdowns in full and terminated these facilities in September 2022
	Entered into a \$2.0 billion unsecured revolving term	
	credit facility, with the same principal covenants and	Uncommitted revolving demand credit facility
	events of default as our existing \$4.5 billion unsecured revolving term credit facility	- Increased our credit limit by \$500 million to \$1.0 billion
		\$4.5 billion unsecured revolving term credit facility
		- Amended the terms to extend the maturity date from
		June 4, 2026 to September 14, 2027
2021		\$4.5 billion unsecured revolving term credit facility
		- Amended the terms to extend the maturity date from
		April 10, 2023 to June 4, 2026

5 - Description of the Business

We are an integrated provider of crop inputs and services, playing a critical role in helping growers around the globe increase food production in a sustainable manner. We supply growers through our leading global Retail network – including crop nutrients, crop protection products, seed and merchandise, as well as agronomic and application services. We operate more than 2,000 retail selling locations across the US, Canada, Australia and South America, servicing approximately 500,000 grower accounts.

Nutrien is the world's largest provider of crop inputs and services, producing potash, nitrogen and phosphate. We sold approximately 26 million metric tonnes of manufactured fertilizer in 2023 from our production facilities in Canada, the US and Trinidad.

As of December 31, 2023, we estimate our Potash operations represented 20 percent of global potash nameplate capacity, our Nitrogen operations represented 2 percent of global nitrogen nameplate capacity and our Phosphate operations represented approximately 3 percent of global phosphate nameplate capacity.

We report our results in four operating segments: Retail, Potash, Nitrogen and Phosphate. Our reporting structure reflects how we manage our business. Sales classified by operating segment and applicable category of products and services are provided in Note 3 of the 2023 Consolidated Financial Statements. Sales or transfers to certain entities in which the Company has an investment that is accounted for under the equity method are provided in Note 3 of the 2023 Consolidated Financial Statements.

Established in late 2022, our global commercial organization is a single point of accountability for delivering customer service, driving supply chain efficiencies, and leading margin optimization opportunities across our integrated network. The Executive Vice President & Chief Commercial Officer also oversees Nutrien's economics and market research team, as well as commercial development & integration activities, leading operational value creation initiatives across Nutrien's global network.

5.1 Nutrien Ag Solutions ("Retail") Operations

Overview

Our Retail segment markets crop nutrients, crop protection products, seed and merchandise, as well as agronomic application services and solutions, including Nutrien Financial, through more than 2,000 retail selling locations across North America, Australia and South America. In 2023, our total Retail sales represented 67 percent of our total consolidated sales (2022 – 56 percent). Retail's products and services are as follows:

	% of	
	Retail	
Product	Sales	Description
Crop	2023 – 43	- dry and liquid macronutrient products, which include potash, nitrogen and phosphate, and
nutrients	2022 - 47	proprietary liquid micronutrient products, sold globally:
		 custom blended to suit specific nutrient requirements for each grower's field typically
		based on soil fertility tests or plant tissue sampling
Crop	2023 – 34	- third-party supplier and proprietary products, primarily through our Loveland Products, Inc.
protection	2022 - 33	brands across North America, South America and Australia, designed to enhance crop quality
products		and manage diseases, weeds, and other pests
Seed	2023 – 12	- third-party supplier and proprietary seed product lines, including brands such as Dyna-Gro®,
	2022 – 10	Proven™, and Sementes Goiás, sold globally
		- seed treatments applied to seeds prior to planting to protect them from pests and disease
Nutrien	2023 – 2	- flexible financing solutions offered to our customers in the US and Australia:
Financial	2022 – 1	 extended payment terms, typically up to one year, to facilitate alignment of grower
		crop cycles with cash flows
		 programs are coordinated with both product suppliers and local branch network
Merchandise	2023 – 5	- livestock-related merchandise including fencing, feed supplements, animal identification
	2022 – 5	merchandise and various animal health products and services
		- storage and irrigation equipment and other products
		- primarily offered in Australia
Services	2023 – 4	- custom application services, crop scouting and precision agriculture services, soil fertility
and other	2022 – 4	testing and plant tissue sampling
		- precision application allowing nutrient application rates to be adjusted when required, based on
		global positioning system technology and grid soil fertility test results and other data
		- monitoring of crop disease conditions and irrigation requirements using a system of weather
		tracking stations
		- various other services, including wool sales and marketing, livestock marketing and auction
		services, water services, insurance products, and real estate agency services in Australia
		- primarily offered in North America and Australia

Transportation, Storage and Distribution

We have an extensive infrastructure system to store and transport our Retail products, strategically located across distribution points in regions where we operate to serve our customers across the US, Canada, Australia and South America.

Number	Nature	Description
98	Terminals	 used to receive large quantities of crop nutrients for redistribution to Retail centers and to growers directly
33	Distribution centers	- used to distribute crop protection products and seed
		- used to coordinate product supply to Retail centers and allow us to manage
		inventory levels across our distribution network
2,133	Branches, satellites,	- Retail locations used to provide growers with complete agriculture solutions,
	plants	including crop and soil nutrients, crop protection, seed, services and digital tools
		- manufacturing plants used for production of crop inputs
30,645	Vehicles and application	- variety of on-road and on-farm vehicles used in the distribution, support and
	equipment	application of crop inputs

Supply chain management, utilizing our extensive storage and distribution network and transportation capabilities, allows us to efficiently deliver crop nutrients and seed products to our customers. As growers have a short application and planting window, the precise timing of such deliveries is unpredictable due to both the seasonal nature of crop planting and the impact of weather. We regularly review our suppliers to maintain critical feedstocks, and we believe we can leverage our diverse retail distribution network and expansive fertilizer terminal network to effectively manage product logistic challenges.

Competitive Position

The market for Nutrien's Retail products and services is highly competitive in the countries in which we operate. The principal competitors in the retail distribution of crop inputs include agricultural cooperatives, other major agriculture retailers, and smaller independent retailers and distributors. Retail produces a range of high-quality proprietary crop protection, seed and crop nutrient products that generate higher margins for our Retail segment compared to non-proprietary products. Our digital platform supports our core business offering, enhances the customer experience, and includes access to services such as crop planning, customer account management, invoice payment and financing.

5.2 Potash Operations

Overview

Our Potash operations include the mining and processing of potash, which is predominantly used as fertilizer. The Saskatchewan Ministry of Energy and Resources has granted Nutrien the exclusive right to mine potash on approximately 383,000 hectares (or approximately 947,000 acres) of Crown land pursuant to subsurface mineral leases. Of the 383,000 hectares leased from the Crown, approximately 282,000 hectares comprise our Potash operations at the Allan, Cory, Lanigan, Patience Lake, Rocanville and Vanscoy mines. Leases also exist with freehold mineral rights owners within the Crown subsurface mineral lease areas and elsewhere in Saskatchewan.

Subsurface mineral leases with the Province of Saskatchewan are for 21-year terms, renewable at our option at each of our producing mines. Our subsurface mineral leases with other parties are also for 21-year terms. Such other leases are renewable at our option, provided generally that production is continuing and that there is continuation of the applicable lease with the Province of Saskatchewan.

The potash we produce in Canada for sale to destinations outside Canada and the US is sold exclusively to Canpotex Limited ("Canpotex"). Canpotex is owned in equal shares by Nutrien and another potash producer in Canada. Canpotex, which was incorporated in 1970 and commenced operations in 1972, acts as an export company providing integrated sales, marketing and distribution for all Canadian potash produced by its shareholders/producers that is exported to destinations outside the US and Canada. Each shareholder of Canpotex has an equal voting interest as a shareholder and a right to equal representation on the Canpotex board of directors. In 2023, our total Potash sales represented 14 percent of our total consolidated sales (2022 – 22 percent). Our total offshore sales in 2023 represented 50 percent of our total Potash sales (2022 – 66 percent).

In general, Canpotex sales volumes are allocated among Canpotex producers based on production capacity. In 2023, Nutrien supplied approximately 64 percent of Canpotex's product supply requirements (2022 – approximately 64 percent). Canpotex sells potash to buyers in export markets pursuant to term and spot contracts at agreed upon prices. Canpotex has a long history of being a reliable supplier of potash to international markets and of proven logistics and marketing capabilities. Other major potash exporting countries include Russia, Belarus, Israel and Germany.

Transportation, Storage and Distribution

Transportation costs can be a significant component of the total delivered cost of potash. Producers may have an advantage in serving markets close to their sources of supply depending on prevailing transportation costs. International shipping cost variances permit offshore producers to effectively compete with our potash production in many geographies.

Most of our potash for North American customers is shipped by rail. We believe we have a strategic advantage in this market with approximately 300 owned or leased potash distribution points and a fleet of approximately 5,900 owned or leased railcars as at December 31, 2023. We believe this is the most extensive domestic distribution network in the potash business. Shipments are also made by rail from each of our Saskatchewan mines to Thunder Bay, Ontario for shipment by lake vessel to our warehouses and storage facilities in Canada and the US.

In the case of our sales to Canpotex, Canpotex is responsible for managing and directing all aspects of its logistics infrastructure platform, including the transportation of its potash by way of rail to marine facilities where it is handled, stored and loaded onto ocean-going vessels. We have an equity interest in Canpotex Bulk Terminals Limited, which is a part owner of the marine facilities utilized by Canpotex in Vancouver, British Columbia. Canpotex also utilizes marine facilities in Portland, Oregon, Saint John, New Brunswick and Thunder Bay, Ontario. Other facilities may be utilized as required.

Production Methods

We produce potash primarily using conventional mining methods, except for our Patience Lake mine, which was originally a conventional underground mine, but began employing a solution mining method in 1989. In conventional operations, shafts are sunk to the ore body, which is approximately one kilometer below the surface. Mining machines cut the ore, which is then hoisted to the surface for processing. The ore is a mixture of potassium chloride, salt and insoluble particles. In solution mining, the potash is dissolved in warm brine and pumped to the surface for processing. Removing salt and insoluble particles through a milling process produces saleable potash. Six grades of potash (standard, granular, suspension, white granular, soluble and chicklets) are produced to suit different preferences of the agricultural, industrial and feed markets that we serve.

In 2023, our nameplate capacity represented 54 percent of the North American total nameplate capacity (see the table below for further information) and our potash production represented 56 percent of North American production. We allocate production among our mines on the basis of various factors, including cost efficiency and the grades of product that can be produced.

The following table sets forth, for each of the past two years, the production of ore, mill feed grade and finished product for each of our potash mines in Saskatchewan:

	Annual Nameplate	Annual Op Capak							
	Capacity 1	2024	2023	202	3 Produc	tion	202	2 Produc	tion
	Finished Product (millions of tonnes)	Finished Product (millions of tonnes)	Finished Product (millions of tonnes)	Ore	Grade % K₂O		Ore	Grade % K₂O	Finished Product (millions of tonnes)
Rocanville	6.5	5.1	5.2	16.45	21.9	4.97	16.34	21.7	4.89
Allan	4.0	2.4	3.0	6.70	25.1	2.39	6.96	25.0	2.50
Vanscoy	3.0	1.1	1.4	3.22	24.3	1.05	3.03	25.2	1.01
Lanigan	3.8	3.0	3.1	8.53	25.3	2.89	7.55	24.8	2.46
Cory	3.0	2.1	2.2	5.12	22.5	1.50	6.07	23.3	1.89
Patience Lake	0.3	0.3	0.3	_	_	0.20	_	_	0.26
Totals ³	20.6	14.0	15.2	40.02		13.00	39.95		13.01

¹ Represents estimates of capacity as of December 31, 2023. Estimates are based on capacity as per design specifications or Canpotex entitlements once determined. In the case of Patience Lake, estimate reflects current operational capability. Estimates for all other facilities do not necessarily represent operational capability.

² Estimated annual achievable production based on expected staffing and operational readiness (estimated at the beginning of year, and may vary during the year, and year-to-year, including between our facilities). Estimate does not include inventory-related shutdowns and unplanned downtime.

^{3 2023} average mineral grade of 23.4 percent potassium oxide ("K₂O") mined and an average grade of 60.9 percent K₂O produced. Averages are weighted proportionately to tonnes produced at our conventional mines.

The mining of potash is a capital-intensive business subject to the normal risks and capital expenditure requirements associated with mining operations. The production and processing of ore may be subject to delays and costs resulting from mechanical failures and hazards, such as unusual or unexpected geological conditions, subsidence, water inflows, and other conditions involved in mining potash ore.

Competitive Position

Potash is a commodity, characterized by minimal product differentiation, and, consequently, producers compete based on price, quality and service. We price competitively, sell high-quality products and provide high-quality service to our customers. Our service includes maintaining warehouses, leasing railcars and chartering vessels to enhance our delivery capabilities. The high cost of transporting potash affects competition in various geographic areas.

Major Competitors in 2023					
North American markets	EuroChem Group AG	The Mosaic Company ("Mosaic")			
	Intrepid Potash Inc.	ICL Group Ltd. ("ICL")			
	K+S Group	PJSC Uralkali			
Offshore markets – Canpotex	Arab Potash Company	PA Belaruskali			
	EuroChem Group AG	ICL			
	K+S Group	Sociedad Química y Minera de Chile S.A.			
	PJSC Uralkali	Asia-Potash (Laos)			

In 2022 and the first half of 2023, potash production and exports from Eastern Europe were constrained below 2021 levels due to sanctions on Belarus and restrictions on Russia relating to the war between Ukraine and Russia. In the second half of 2023, global potash prices stabilized as global trade flows adjusted to this disruption and supply from Eastern Europe began to gradually return to pre-war levels.

Sources of Raw Materials

The production of potash requires a sustained fresh water supply for the milling process, which comes from nearby sources including subsurface aquifers, reservoirs and the Saskatchewan River.

5.3 Nitrogen Operations

Overview

We own and operate ammonia production facilities at which we produce and, where applicable, upgrade the following nitrogen products:

Plant Locations	Nitrogen Products Produced		
Augusta, Georgia	Ammonia, urea, urea ammonium nitrate ("UAN"), urea solutions, nitric acid and		
	ammonium nitrate		
Borger, Texas	Ammonia, urea and urea solutions		
Carseland, Alberta	Ammonia, urea and Environmentally Smart Nitrogen® ("ESN®")		
Fort Saskatchewan, Alberta	Ammonia and urea		
Geismar, Louisiana	Ammonia, urea, UAN, urea solutions and nitric acid		
Joffre, Alberta	Ammonia		
Lima, Ohio	Ammonia, urea, UAN, urea solutions, nitric acid and ammonium nitrate		
Point Lisas, Trinidad	Ammonia and urea		
Redwater, Alberta	Ammonia, urea, ammonium nitrate liquor, UAN and ammonium sulfate		

We operate a number of facilities that upgrade ammonia and urea to other products such as UAN, ammonium nitrate, nitric acid and ESN[®].

Plant Locations	Nitrogen Products Produced		
Granum, Alberta	UAN		
Kennewick, Washington	UAN, ammonium nitrate liquor and nitric acid, calcium ammonium nitrate ("CAN")		
New Madrid, Missouri	ESN [®]		
Standard, Alberta	UAN		

Our owned and operated facilities have a combined annual gross ammonia nameplate capacity of approximately 7.1 million tonnes.

We also have a 50 percent joint venture ownership in Profertil S.A. ("Profertil"), a joint venture that owns a nitrogen facility in Bahia Blanca, Argentina.

Transportation, Storage and Distribution

We distribute our nitrogen products by vessel, barge, pipeline, railcar and truck to our customers and, in high-consumption areas, through our strategically located storage terminals. In North America, as at December 31, 2023, we owned or leased approximately 190 nitrogen distribution points, as well as a fleet of approximately 5,700 leased railcars. We also lease dry and liquid storage capacity in Europe. These locations provide a network of field and production site storage capacity sufficient to serve local dealers during the peak seasonal demand period and are also used to provide off-season storage.

We also distribute nitrogen products from Trinidad primarily to markets in the US, South America, Europe and North Africa. We employ five long-term chartered ocean-going vessels and utilize short-term and spot charters as necessary for the transportation of ammonia for our marine distribution operations in Trinidad. All bulk urea production from Trinidad is shipped through third-party carriers. In addition, Profertil's terminal on the Parana River includes a dedicated berth and two 100,000 tonne dry storage buildings in a key agricultural region of Argentina.

Production Methods

Ammonia is produced by taking nitrogen from the air and reacting it with a hydrogen source, usually natural gas reformed with steam. Carbon dioxide ("CO₂") is produced in ammonia production in two primary ways – first, as a product of the chemical reactions involved and, second, as a product of burning fuels that generate the heat required to make those chemical reactions occur. In most plants, the CO₂ produced as a chemical byproduct is captured and used as an input to urea production. Low-carbon ammonia is made with direct GHG emissions typically reduced by approximately 60 percent but up to 80 percent compared to a conventional process, produced by primarily using carbon capture, utilization and storage or other low-emission production technologies, excluding end product use. In 2023, Nutrien increased our low-carbon ammonia production capability to 1.2 million tonnes across our Geismar, Redwater and Joffre nitrogen facilities.

Ammonia is the feedstock used to produce a full line of upgraded products, including urea, ammonium nitrate, nitric acid and nitrogen solutions, including both UAN solutions and urea solution products, ammonium sulfate and ESN®. Urea is produced by combining ammonia with CO₂ and forming liquid urea, which can be further processed into a solid form. UAN solutions are liquid fertilizers that are produced by combining urea, liquid ammonium nitrate and water. Urea liquor is a urea liquid solution sold into the diesel exhaust fluid market. When combined with diesel in larger vehicles and machinery, it can improve fuel efficiency and reduce emissions. Urea liquid solutions are produced by combining liquid urea with water. Ammonium sulfate is produced by reacting ammonia and sulfuric acid, which is then granulated to form a solid granular product. We produce sulfuric acid from purchased sulfur at our Redwater facility. ESN® is a patented coated-fertilizer product that is made by coating the urea substrate with layers of polymers, allowing for more efficient delivery of nitrogen to the plant.

Ammonia, urea and nitrogen solutions are sold as fertilizers to agricultural customers and to industrial customers for various applications. Nitric acid and ammonium nitrate are sold to industrial customers for various applications. Urea is also sold for feed applications. ESN® is sold to agricultural customers. Urea solution is sold to industrial and agricultural customers.

Competitive Position

Nitrogen-based fertilizer is a global commodity, and customers, including end-users, dealers, and other fertilizer producers and distributors, base their purchasing decisions principally on the delivered price and availability of the product. The relative cost of, and availability of transportation for, raw materials and finished products to manufacturing facilities are also important competitive factors. Nitrogen is also an input into industrial production of a wide range of products. Many manufacturers want consistent quality and just-in-time delivery to keep their plants running.

Major Competitors in 2023						
North American markets	CF Industries Holdings, Inc.	LSB Industries, Inc.				
	CVR Partners, L.P.	Incitec Pivot Ltd.				
	Yara International ASA	OCI N.V.				
	Koch Industries, Inc.	Suppliers in the Middle East, North Africa,				
		Trinidad, China, Central and Eastern				
		Europe and Russia				
Offshore markets	Suppliers in the Middle East, North Africa, Trinidad, China, Central and Eastern					
	and Russia. We also compete with a wide range of offshore and domestic produce					

Our North American plants are geographically well positioned to service agriculture, industrial and feed customers across Canada and the US. Our robust North American distribution network provides in-market support, during seasonal peak demand, ensuring timely product availability. Trinidad mainly supplies our international fertilizer and industrial customers.

Our US production has continued to benefit from the low cost of natural gas and, to a greater extent, our Western Canadian production, which utilizes natural gas indexed to the Alberta Energy Company AECO Alberta benchmark natural gas price, has also benefited from the low cost of natural gas. In Trinidad, the price at which we purchase natural gas is linked to benchmark ammonia pricing, and annual escalating floor prices. Ammonia and urea predominate our offshore sales of nitrogen and originate primarily from Trinidad, with other sales coming from purchased product locations. In 2023, our total Nitrogen sales represented 16 percent of our total consolidated sales (2022 – 21 percent). For 2023, our offshore sales of nitrogen products represented 19 percent (2022 – 29 percent) of our total Nitrogen sales.

Sources of Raw Materials

Natural gas is the primary raw material used for producing ammonia, which is the base for virtually all nitrogen products. Our Joffre facility uses hydrogen as its raw material to produce ammonia.

In North America, we may enter into natural gas hedging transactions with the goal of minimizing risk from volatile gas prices. We purchase most of our natural gas from producers or marketers at the point of delivery of the natural gas into the pipeline system, then pay the pipeline company and, where applicable, the local distribution company to transport the natural gas to our nitrogen facilities. Over 90 percent of our North American consumption of natural gas by our Nitrogen operations is delivered pursuant to firm transportation contracts, which do not permit the pipeline or local distribution company to interrupt service to, or divert natural gas from, the plant.

Trinidad natural gas contracts	-	Renewed in 2023
		Gas supply contract using a pricing formula based on benchmark ammonia pricing
	-	Minimum take or pay arrangement providing for approximately 75 percent of the
		expected requirements of the Trinidad ammonia complex
	-	2022 and 2023 – force majeure notices received resulting in reduced operating rates
Profertil natural gas contracts	-	70 percent of the natural gas contracts are with YPF S.A., our joint venture partner in
		Profertil which were renewed in 2023 and are expiring in 2024
	-	30 percent of the natural gas sourced by other suppliers was renewed in 2023 and is
		expiring in 2028
Carseland power cogeneration	-	Expiring on December 31, 2026
agreement	-	Provides 60 megawatt-hours of power per hour
	-	Based on a fixed charge adjusted for inflation and a variable charge based on the cost
		of natural gas provided to the facility for power generation
Geismar natural gas pipeline	-	Entered in 2023 for various terms up to 10 years
transportation contracts	-	Take or pay arrangement providing for approximately 90 percent of the expected natural
		gas requirements of Geismar as well as other production sites in Eastern United States.

Geismar Clean Ammonia Project

In 2023, we suspended work on our proposed 1.2 million tonne Geismar clean ammonia project. This decision was due to an increase in expected capital costs compared to our initial estimates, continued uncertainty on the timing of emerging uses for clean ammonia, and prioritizing strategic capital allocation. This project is intended to manufacture clean ammonia using innovative technology. The new clean ammonia plant is expected to leverage low-cost natural gas, tidewater access to world markets, and high-quality carbon capture and sequestration infrastructure at the Company's Geismar facility and is intended to serve growing demand in agriculture, industrial and emerging energy markets. We continue to monitor how this emerging energy market evolves and will evaluate future options for the project with the objectives of preserving value and optionality for the project.

5.4 Phosphate Operations

Overview

Our Phosphate operations include the manufacture and sale of solid and liquid phosphate fertilizers, phosphate feed, and purified phosphoric acid, which is used in feed and industrial products. We have phosphate mines and mineral processing plant complexes in Aurora, North Carolina and White Springs, Florida. We also have three phosphate feed plants in the US.

Our Phosphate properties include:

Plant Locations	Primary Products Produced ¹
	MAP, purified acid, merchant grade phosphoric acid ("MGA"), low magnesium SPA
Aurora, North Carolina	("LOMAG") and ammonium polyphosphate ("POLY")
Cincinnati, Ohio	Blended purified acid products
Joplin, Missouri	Animal feed
Marseilles, Illinois	Animal feed
Weeping Water, Nebraska	Animal feed
White Springs, Florida	MAP and MAP+MST, MGA ² , SPA, LOMAG and POLY

¹ The following scientific terms have the following meanings:

MAP monoammonium phosphate, 52 percent P₂O₅ (solid)

MAP+MST sulfur enhanced MAP

SPA superphosphoric acid, 70 percent P₂O₅ (liquid)

We execute offshore marketing and sales of our phosphate fertilizer through PCS Sales (USA), Inc.

Transportation, Storage and Distribution

As at December 31, 2023, we had approximately 130 owned or leased phosphate distribution points and a fleet of approximately 5,500 owned or leased railcars. We have access to ocean-based shipping terminal capacity in North Carolina through which we internationally ship the Aurora facility's finished product. Most of our offshore Phosphate sales are shipped through the terminal at Morehead City, North Carolina. We use barges and tugboats to transport solid products and phosphoric acid between the Aurora facility and the Morehead City terminal. Raw materials and products, including sulfur, are also transported to and from the Aurora facility by rail and truck.

Sulfur is delivered to the White Springs facility by rail and truck from Canada and the US. Most of the phosphoric acid and chemical fertilizers produced at the White Springs facility are shipped to North American destinations by rail. Ammonia for the Aurora and White Springs facilities is supplied by rail and truck from our production facilities in Lima, Ohio and Augusta, Georgia.

Production Methods

We extract phosphate ore using surface mining techniques. At each mine site, the ore is mixed with recycled water to form a slurry, which is pumped from the mine site to our processing facilities. The ore is then screened to remove coarse materials, washed to remove clay and floated to remove sand to produce phosphate "rock". The annual production capacity of our mines is currently 7.4 million tonnes of phosphate rock. During 2023, the Aurora facility's total production of phosphate rock was 4.24 million tonnes and the White Springs facility's total production of phosphate rock was 1.27 million tonnes. The sequence for mining portions of the Aurora property was identified in the permit issued by the US Army Corps of Engineers in June 2009. The permit authorizes mining in excess of 20 years, although the mine life has been estimated at 19 years at current production rates. Phosphate rock is the major input in our phosphate processing operations. Substantially all the phosphate rock produced is used internally for the production of phosphoric acid, SPA, chemical fertilizers, purified phosphoric acid and animal feed products.

In addition to phosphate ore, the other principal raw materials we require are sulfur and ammonia. We produce sulfuric acid at the Aurora and White Springs facilities from purchased sulfur.

Our Phosphate operations purchase all their ammonia at market rates from or through our Nitrogen sales subsidiaries. Phosphoric acid is reacted with ammonia to produce MAP and MAP+MST as well as liquid fertilizers.

² All of the MGA from White Springs is consumed internally in the production of additional products.

We produce MGA at our Aurora and White Springs facilities. Some MGA from the Aurora facility is sold to foreign and domestic fertilizer producers and industrial customers. We further process the balance of the MGA to make solid fertilizers (MAP), liquid fertilizers, animal feed supplements for the poultry and livestock markets, and purified phosphoric acid for use in a wide variety of food, technical and industrial applications.

Competitive Position

Markets for phosphate fertilizer products are highly competitive and based largely on price, reliability, and deliverability. Significant low-cost capacity has been commissioned over the past few years, most notably in Morocco and Saudi Arabia. The additional capacity is needed to keep pace with steadily growing phosphate demand, both in agricultural and industrial sectors, and is serving to keep global supply and demand relatively balanced. Our principal advantages at the Aurora and White Springs facilities are that we produce higher-value, diversified products and that we operate integrated phosphate mine and phosphate processing complexes. Our inmarket distribution network ensures product supply during peak demand periods.

Major Competitors in 2023						
North American markets	Mosaic	Itafos, Inc.				
	J.R. Simplot Company	Importers from Mexico, Russia, Morocco,				
		Australia, Saudi Arabia, and various other				
		small importers				
Offshore markets	OCP S.A. ("OCP")	Producers from Africa, China, the Middle				
		East and Russia				

In 2021, the US Department of Commerce issued countervailing duty ("CVD") orders on imports of phosphate fertilizers from Morocco and Russia, which will remain in place for at least five years, resulting in an increase in phosphate fertilizer prices. In November 2023, after its first annual administrative review of the CVD, the US Department of Commerce increased the CVD rate on imports from Russia (from 9.19 percent to 28.50 percent) and decreased the CVD rate on imports from Morocco (from 19.97 percent to 2.12 percent). These decisions have been appealed and the review will continue into 2024. Within the animal feed supplement business in the Phosphate segment, opportunities exist to differentiate products based on nutritional content. We have a significant presence in the domestic feed supplement market segments. We compete with Mosaic, J.R. Simplot Company, OCP, and Chinese and Russian producers for feed sales.

Industrial products are the least commodity-like of the phosphate products as product quality is a more significant consideration for customer buying decisions. We market industrial phosphate products principally in the US and we compete with ICL, Innophos Holdings, Inc., Prayon Group, Emaphos and Chinese producers for North American industrial sales.

In 2023, our total Phosphate sales represented 8 percent of our total consolidated sales (2022 – 7 percent). For 2023, our offshore sales of phosphate products represented 12 percent (2022 – 20 percent) of our total Phosphate sales.

Sources of Raw Materials

Phosphate rock is the major input in our phosphate processing operations and is mined at our Aurora and White Springs facilities. In addition to phosphate ore, the other principal raw materials we require are sulfur and ammonia. The production of phosphoric acid requires substantial quantities of sulfur, which we purchase from third parties. Agreements for the purchase of sulfur for use in production of phosphoric acid provide for specified purchase quantities and prices based on market rates at the time of delivery. Any significant disruption in our sulfur supply to the phosphate facilities could adversely impact our Phosphate financial results. We produce sulfuric acid at the Aurora and White Springs facilities from purchased sulfur. Ammonia for our Aurora facility is primarily supplied by rail and truck from our nitrogen production facilities in Lima, Ohio and Augusta, Georgia. Ammonia for our White Springs facility is primarily supplied by truck from our nitrogen production facility in Augusta, Georgia.

5.5 Specialized Skill and Knowledge

We believe our success is dependent on the performance of our management and key operational employees, many of whom have specialized skills and knowledge relating to the retail, potash, nitrogen and phosphate industries, and to the conduct of the Retail, Potash, Nitrogen and Phosphate operations. We believe that we have adequate personnel with the specialized skills and knowledge to successfully carry out our business and operations.

5.6 Intangible Properties

We have registered and pending trademarks and patents in Canada, the US and other countries where our products are sold. In addition, it has been our practice to seek patent protection for inventions and improvements that are likely to be incorporated into our products, where appropriate, and to protect the freedom to use our inventions in our manufacturing processes. We consider several factors in assessing the materiality of our patents including, but not limited to, scope and breadth of claims, sales volumes of products incorporating the technology, strategic importance, and patent duration.

While these trademarks and patents constitute valuable assets, we do not regard any single trademark or patent as being material to our operations as a whole. See Note 14 of the 2023 Consolidated Financial Statements for disclosure on estimated useful lives of intangible assets.

5.7 Seasonality

Seasonality in our business results from increased demand for products during planting season. Crop input sales are generally higher in spring and fall application seasons. Crop input inventories are normally accumulated leading up to each application season. The results of this seasonality have a corresponding effect on receivables from customers and rebates receivables, inventories, prepaid expenses and other current assets and trade payables. Our short-term debt also fluctuates during the year to meet working capital needs. Our cash collections generally occur after the application season is complete, while customer prepayments made to us are typically concentrated in December and January and inventory prepayments paid to our vendors are typically concentrated in the period from November to January. Feed and industrial sales are more evenly distributed throughout the year. See "Risk Factors" below for a description of the risks related to seasonality.

5.8 Environmental Matters

Environmental Requirements, Permits, and Regulatory Approvals

Many of our operations and facilities are subject to a variety of environmental requirements under federal, provincial, state and local laws, regulations, permits, and approvals, all of which vary depending on the specific operation. Licenses, permits, and approvals at operating sites are obtained in accordance with applicable laws and regulations, which may limit or regulate: operating conditions, rates and efficiency; land, water, and raw material use and management; product storage, quality and transportation; waste storage and disposal; and emissions and other discharges. Additional legal requirements may apply where site impacts pre-date the current applicable regulatory framework, where remediation is ongoing or where there is otherwise evidence that historic remediation activities have not been successful in minimizing impacts to the environment. These additional requirements may result in an environmental remediation liability that must be mitigated.

We believe that we are currently in material compliance with existing regulatory requirements, permits, and approvals. Permits and approvals are typically required to be renewed or reissued periodically. We may also become subject to new laws or regulations that impose new requirements or require us to obtain new or additional permits or approvals; however, there can be no assurance that such permits or approvals will be issued in the ordinary course of operations. Further, the terms and conditions of future regulations, permits, and approvals may be more stringent and may require increased expenditures by the Company.

Future environmental capital expenditures are subject to a number of uncertainties, including changes to environmental laws and regulations and interpretations by regulatory authorities or changes in circumstances affecting the Company's operations. At this time, we are unable to estimate the capital expenditures we may make in future years to meet pollution prevention and emissions control objectives, as well as other environmental requirements.

Air Quality

With respect to air emissions, we anticipate that additional actions and expenditures may be required to meet increasingly stringent federal, provincial, and state regulatory and permit requirements in the areas in which we operate, including existing and anticipated regulations under the US federal *Clean Air Act*. We continue to monitor developments in these various programs and assess their potential impact on our operations. In 2015, we entered a consent decree with the US Environmental Protection Agency ("EPA") that requires reductions in sulfur dioxide emissions at specified sulfuric acid plants with the final compliance dates occurring in 2020. All such emission limits were met by the dates specified in the consent decree schedule. As such, we terminated the sulfuric acid consent decree on April 3, 2023.

In Canada, the *Multi-Sector Air Pollutant Regulations* ("MSAPR") established oxides of nitrogen ("NOx") emission standards for gasfired boilers, heaters, and stationary spark-ignition engines. Facilities must ensure regulated equipment meets mandated emission standards by either 2026 or 2036, depending on the equipment's baseline emission levels. Our Canadian Nitrogen and Potash facilities operate equipment subject to the regulations. We replaced a boiler at our Redwater nitrogen facility with a low-NOx alternative in 2022 and installed a new MSAPR-compliant ammonia loadout heater at the Fort Saskatchewan nitrogen facility in 2021. We also installed a medium pressure condensate stripper in the ammonia plant at our Carseland nitrogen facility in 2022, which virtually eliminated ammonia emissions from the ammonia reformer and reduced the facility's NOx emissions by over 40 percent. To meet the MSAPR standards, one of our Potash facilities completed a boiler upgrade in 2023.

Water Quality

There are international, federal, provincial, and state regulatory initiatives underway that may result in new regulatory restrictions on discharges of nutrients, including discharges of nitrogen and phosphorus to waters in the US ("Nutrient Criteria"). There are also ongoing litigation efforts in several jurisdictions of the US that seek to require US environmental agencies to develop new Nutrient Criteria. These litigation and regulatory proceedings may result in new Nutrient Criteria that apply to water discharges from several of the Company's facilities in the US. Some of the proposed restrictions imposed through Nutrient Criteria also have the potential to require our customers to reduce or eliminate their uses of the Company's products. These Nutrient Criteria could have a material effect on either the Company or our customers, but the impact is not currently predictable or quantifiable with reasonable certainty because many of these initiatives are in relatively early stages and compliance alternatives may be available that do not create material impacts. We are closely monitoring and evaluating the impact of these initiatives on our operations.

Waste Management

The US EPA is focused on the phosphate industry as part of its National Enforcement Initiative regarding the mineral processing industry. The purpose of the EPA's National Enforcement Initiative is to ensure that waste resulting from mineral processing is managed in accordance with regulations under *The Resource Conservation and Recovery Act*, which is the US federal statute that governs the generation, transportation, treatment, storage, and disposal of hazardous wastes. The EPA is also evaluating the mineral processing industry's compliance with the *Emergency Planning and Community Right to Know Act* and the *Comprehensive Environmental Response, Compensation and Liability Act of 1980* ("CERCLA").

Several of the Company's phosphoric acid production facilities have received notices of violation or entered orders with the EPA as a result of the EPA's National Enforcement Initiative. These facilities include the Aurora, North Carolina, White Springs, Florida, and Geismar, Louisiana phosphate facilities, as well as the Conda, Idaho phosphate production facility divested in 2018, for which we retain environmental liabilities attributable to our historic activities. Nutrien settled with the EPA and the Louisiana Department of Environmental Quality at our former Geismar phosphoric acid production facility in October 2022. We are engaged in ongoing negotiations with the EPA and the relevant state environmental agencies to resolve the outstanding matters relating to the other facilities. In these negotiations, we are seeking to minimize the costs and impacts to our future operations consistent with applicable legal requirements, including financial assurance for the future closure, maintenance and monitoring of phosphogypsum stack systems. The full scope of the costs that we may ultimately incur to bring these matters to a conclusion could be material to our operations but are not currently predictable or quantifiable with reasonable certainty. See Note 29 of the 2023 Consolidated Financial Statements for additional information.

GHG Emissions and Climate Change

Nutrien generates GHG emissions directly and indirectly through the production, distribution and use of our products. Some of these emissions are subject to climate change policies and regulations, all of which are developing in unique ways within various federal, provincial and state jurisdictions. Increasing regulation of GHG emissions may impact our operations by requiring changes to our production processes or increasing raw material, energy, production or transportation costs in order to ensure compliance. There are also significant differences in the climate change policies of countries where Nutrien operates as only some are parties to the 2015 Paris Agreement under the United Nations Framework Convention on Climate Change. Furthermore, even when Nutrien operates in countries that are parties to the Paris Agreement, different jurisdictions have different compliance obligations.

We estimate that our production operations accounted for approximately 95 percent of our overall Scope 1 and 2 GHG emissions in 2023. Sources of GHG emissions from our production operations include emissions from the combustion of natural gas, reforming of natural gas to produce hydrogen, which is used to synthesize ammonia, and process emissions from nitric acid production. Approximately two-thirds of the natural gas required to produce ammonia – the basic building block of all nitrogen fertilizer – is used to provide the necessary hydrogen for the process. The remaining approximately one-third is used as fuel to provide heat for the ammonia production process. We have taken steps and developed strategies in an effort to improve energy efficiency in our production operations, capture and export CO_2 , generate lower-carbon heat and electricity, and reduce the amount of N_2O emissions from our nitric acid facilities. We have also invested and continue to invest in initiatives focused on more efficient mining, including remote-controlled mobile equipment, and other advanced technologies expected to reduce our environmental impact, improve our safety

performance, lower our production costs, and optimize throughput. In our Retail operations, we continue to invest in the development of new crop input technologies and agronomic capabilities that are expected to improve nutrient use efficiency, which would increase cropping intensity on existing acres while helping to minimize the impact to the environment.

Canada

Our Canadian manufacturing facilities are primarily located in the provinces of Alberta and Saskatchewan and are subject to a variety of federal and provincial requirements to reduce GHG emissions ranging from carbon taxes to emissions intensity reduction requirements. We look to minimize our Canadian compliance costs through improving our energy efficiency and implementing process improvements that allow us to reduce GHG emissions at our facilities. We aim to improve our energy efficiency and at our Carseland facility we have partnered with a Canadian energy company for the supply of steam and electricity generated by their Carseland Cogeneration Plant. Cogeneration is a more efficient way of generating useful energy as it simultaneously produces steam and electricity from one energy input (natural gas), which minimizes fuel consumption and reduces emissions. SaskPower's Cory Cogeneration Station provides cogenerated steam to our Cory potash mine, reducing the need for less efficient, on-site, gas-fired boilers. Our Redwater nitrogen facility has been capturing and exporting CO₂ into the Alberta Carbon Trunk Line since late 2019. An additional project was completed in mid-2023 to tie in the remaining ammonia plant at our Redwater facility, increasing the export capability to over 800 tonnes of CO₂ per day. The Redwater facility sent approximately 245,000 tonnes of CO₂ into the Alberta Carbon Trunk Line in 2023.

In 2018, Canada enacted the *Greenhouse Gas Pollution Pricing Act* ("GGPPA"), which establishes minimum standards for carbon pricing and makes up part of Canada's strategy for meeting its commitments under the Paris Agreement. The GGPPA is designed to act as a backstop to apply in provinces and territories that do not establish their own carbon pricing systems that meet the minimum federal stringency criteria. The GGPPA is comprised of two parts: a federal fuel charge ("Federal Fuel Charge") and an output-based pricing system ("OBPS") for large industrial emitters. The Federal Fuel Charge applies to all carbon-based fuels in provincial jurisdictions that have not implemented their own provincial carbon pricing. Similarly, the federal OBPS applies in those provinces that have not enacted large emitter regimes deemed equivalent to the federal OBPS. Large emitting facilities regulated under an acceptable provincial or territorial OBPS are exempt from the Federal Fuel Charge. Pursuant to the provisions of the GGPPA the carbon price under the federal OBPS increases by CAD\$15 per CO₂e tonne per year for the years 2023 to 2030, resulting in a carbon price of CAD\$80 in 2024 and a final carbon price of CAD\$170 per CO₂e tonne in 2030.

Application of Federal Fuel Charge in Alberta and Saskatchewan

As of January 1, 2023, British Columbia, Quebec and the Northwest Territories have their own provincial/territorial carbon levy regimes. The Federal Fuel Charge applies to all remaining provinces and territories, including Alberta and Saskatchewan.

Application of Federal OBPS in Alberta and Saskatchewan

As of January 1, 2024, the federal OBPS applies in Manitoba, Prince Edward Island, Yukon and Nunavut, while the remaining provinces and territory have provincial/territorial systems that have been deemed equivalent to the federal OBPS. In 2023, the Province of Saskatchewan updated its Output-Based Performance Standard Program, which has been deemed equivalent to the federal OBPS under the GGPPA, which updates include modifications to existing standards and the issuance of new standards. Under the updated Saskatchewan framework, potash facilities must achieve a 15 percent emissions intensity reduction from a site-specific three-year baseline by 2030. Beginning in 2023, the facility intensity baseline benchmark will decline at a rate of 1.25 percent per year until the full 15 percent intensity reduction target is established in 2030. All six of our potash facilities submit emission returns as required by the provincial OBPS program. Emissions returns for the 2021 and 2022 emission years have been submitted and are currently being reviewed by the Province of Saskatchewan. Emissions for 2023 are still subject to final data collection and third-party verification. The aggregated compliance cost for 2023 GHG emissions associated with our potash facilities in Saskatchewan is estimated to be approximately CAD\$1 million, subject to third-party verification in the second quarter of 2024.

In Alberta, large emitters (industrial facilities emitting over 100,000 tonnes of CO₂e per year) have been subject to emissions reduction requirements and a GHG pricing system in various forms since 2007. The current large emitter regulation is the *Technology Innovation and Emissions Reduction* ("TIER") *Regulation*, which has been in place since January 1, 2020. Under this program, facilities that emit 100,000 tonnes or more of CO₂e per year are subject to the less stringent of a product-specific high-performance benchmark based on the emissions intensity of the most efficient facilities, or a facility-specific benchmark based on a 10 percent emissions intensity reduction relative to the facility's own historical baseline. The stringency of facility-specific benchmarks increased by 1 percent annually through 2022. Following a regulatory review and December 2022 amendment to the TIER Regulation, a 2 percent annual tightening rate was applied to facility-specific benchmarks and high-performance benchmarks beginning in 2023. The tightening rate does not apply to industrial process emissions, which are fixed by chemistry and cannot be reduced through efficiency improvements. The TIER Regulation has been deemed equivalent to the federal OBPS under the GGPPA. Emissions in excess of the facility emission benchmark allowance are subject to a compliance obligation, including use of provincially generated offset credits, performance

credits, sequestration credits or payment into a TIER fund. In 2023, the carbon price for TIER fund payments was CAD\$65 per CO₂e tonne. This cost increases by CAD\$15 per year to \$170 by 2030, consistent with the federal OBPS carbon charge rate schedule. By aligning TIER compliance costs with the federal OBPS carbon charge rate schedule, large emitting facilities in Alberta are not subject to the federal OBPS.

Under TIER, facilities that emit less than 100,000 tonnes of CO₂e per year but compete with facilities subject to TIER, or facilities that belong to an energy intensive trade exposed sector regulated under TIER, may opt into the TIER program. Nutrien's Joffre ammonia facility opted into the TIER program, which grants it an exemption from the Federal Fuel Charge on purchased fuels. Since the Joffre facility manufactures ammonia using a hydrogen byproduct feedstock supplied by an industrial neighbor rather than producing it on site from a natural gas feedstock using an emission intensive steam methane reforming process, Joffre is able to generate emission performance credits as its emissions intensity is below the Alberta TIER ammonia intensity benchmark. These credits can be banked and used to offset a portion of future TIER compliance obligations for Nutrien's other Alberta-based large emitter facilities. A further change resulting from the 2022 review of the TIER regulation included the requirement for facilities importing more than 10,000 tonnes of hydrogen per year to participate in TIER; however, as our Joffre facility had previously opted-in, there was no additional impact to Nutrien.

Our TIER compliance reports and payment for 2023 are due by June 30, 2024. Emission quantification and compliance costs are subject to third-party verification prior to submission, and as such are not yet finalized; however, our aggregated TIER compliance costs for 2023 are estimated to be approximately CAD\$7.1 million. This estimate is based on the emissions information available at the time of this report. Actual final costs may vary following collection and verification of the full year emission and production data in the second quarter of 2024.

In June of 2022, the Canadian federal government implemented a federal Clean Fuel Standard through the enactment of the *Clean Fuel Regulations* ("CFR"). The CFR applied to liquid fuels beginning in 2023. The CFR has been designed to incentivize the development and use of lower-carbon fuels. Nutrien is tracking the development of the Federal Clean Fuel Standard, CFR and associated compliance obligations.

Application of Canadian Net-Zero Emissions Accountability Act

On June 29, 2021, the *Canadian Net-Zero Emissions Accountability Act* (the "Act") became law. Under the Act, the government must set an emissions reduction target for 2035 by December 1, 2024. To assist in setting the 2035 emissions target a virtual public engagement platform was launched on February 2, 2024 and is open until March 28, 2024 for comments. Nutrien is currently evaluating the impact of continually decreasing emission reduction targets between now and 2050, which could have a material impact to our consolidated financial statements.

United States

In the US, the EPA has issued GHG emissions regulations that establish a reporting program for emissions of CO_2 , methane and other GHGs, as well as a permitting program for certain large GHG emissions sources. Several legislative bills have passed or are proposed that offer incentives for clean hydrogen production and carbon sequestration, which could impact sustainability efforts. Some US states have also enacted laws concerning GHG emissions that we are monitoring for impacts on our operations.

The impacts of climate change and future restrictions on emissions of GHGs on the Company's operations could be material but cannot be determined with any certainty at this time.

Facility and Product Security

Our Global Security team, embedded within our Safety, Health and Environment team, actively evaluates and addresses actual and potential security issues while also ensuring regulatory compliance associated with our operations using approved security vulnerability methodologies and risk mitigation strategies. In accordance with our safety management process, additional actions and expenditures may be required in the future to address identified vulnerabilities, particularly those with the potential to violate applicable regulatory standards. In the US, chemical facilities are regulated under the *Maritime Transportation Security Act*, the Chemical Facility Anti-Terrorism Standards (expired as of July 28, 2023 and currently in the process of renewal), and *Food Safety Modernization Act* (*Mitigation Strategies to Protect Food Against Adulteration*), in addition to the regulations established by Transport Canada and US Transportation Security Administration. It is anticipated that the US Congress and other jurisdictions where Nutrien operates will continue to maintain legislation designed to reduce the risk of terrorist acts using chemicals produced and stored at our facilities, and to ensure food security. We believe that we are in material compliance with applicable security requirements and have developed and adopted security measures and enhancements beyond those presently required at both our regulated and non-regulated facilities. To date, neither the security regulations nor our expenditures on security matters have had a material adverse effect on our financial position or results of operations. We are unable to predict the potential future costs of any new governmental programs or voluntary initiatives.

Asset Retirement Obligations

The major categories of our asset retirement obligations include reclamation and restoration expenditures at our Potash and Phosphate mining operations (phosphate mining, in particular), including the management of materials generated by mining and mineral processing, such as: various mine tailings and phosphogypsum stacks; land reclamation and revegetation programs; decommissioning of underground and surface operating facilities; general clean-up activities aimed at returning the areas to an environmentally acceptable condition; and post-closure care and maintenance.

The estimation of the costs of asset retirement obligations depends on the development of environmentally acceptable closure and post-closure plans. In some cases, this may require significant research and development to identify preferred methods for such plans that are economically sound and that, in most cases, may not be implemented or completed for several decades. We continue to use appropriate technical resources, including outside consultants, to develop specific site closure and post-closure plans in accordance with the requirements of the various jurisdictions in which we operate.

Asset retirement obligations are generally incurred over an extended period. As of December 31, 2023, we had accrued a total of \$1,259 million for asset retirement obligations, the current portion of which totaled \$135 million. For additional information, see Note 22 of the 2023 Consolidated Financial Statements.

Site Assessment and Remediation

We are also subject to environmental statutes that may require investigation and, where appropriate, remediation of impacted properties. Canadian federal and provincial laws as well as CERCLA and other US federal and state laws impose liability on, among others, past and present owners and operators of properties or facilities at which hazardous substances have been released into the environment. Liability under these laws may be imposed jointly and severally and without regard to fault or the legality of the original actions, although such liability may be divided or allocated according to various equitable and other factors. We have incurred and expect to continue to incur costs and liabilities in respect of our current and former operations, including those of divested and acquired businesses. We have generated and, with respect to our current operations, continue to generate substances that could result in liability for us under these laws.

As at December 31, 2023, we had accrued environmental costs of \$395 million for expenditures associated with site assessment and remediation, including consulting fees, related to the clean-up of impacted sites currently or formerly associated with the Company or our predecessors' businesses. As at December 31, 2023, the current portion of these costs totaled \$30 million. The accrued amounts include the Company's and our subsidiaries' expected final share of the costs for the site assessment and remediation matters to the extent future outflow of resources is probable and can be reliably estimated. For additional information, see Note 22 of the 2023 Consolidated Financial Statements.

It is often difficult to estimate and predict all of the potential costs and liabilities, including natural resource damages, associated with our current and former operations, and there is no guarantee that we will not in the future be identified as potentially responsible for additional costs associated with our operations, either as a result of changes in existing laws and regulations or as a result of the identification of additional matters or properties subject to environmental costs. For certain matters, we are unable to make a reliable estimate of the amount and timing of any financial effect in excess of the amounts accrued for various reasons including: complexity of the matters; early phases of most proceedings; lack of information on the nature and timing of future actions in the matters; dependency on the completion and findings of investigations and assessments; and the lack of specific information as to the nature, extent, timing and cost of future remediation with respect to those matters. Until we have greater clarity as to our liability and the extent of our financial exposure, it is not practicable to make a reliable estimate of the financial effect. For additional information, see Note 29 of the 2023 Consolidated Financial Statements.

5.9 Employees

At December 31, 2023, we employed approximately 25,900 employees. The approximate breakdown of employees is as follows:

Business Unit	Number of Employees
Retail	17,000
Potash	3,200
Nitrogen	1,700
Phosphate	1,500
Corporate	2,100
Shared services group ¹	400
Total	25,900

¹ Our shared services group provides sales and logistics services to our Potash, Nitrogen and Phosphate operations.

We have entered into 13 collective bargaining agreements with labor organizations representing our employees. The following table sets forth the plant locations where we have entered into collective bargaining agreements and their respective expiry dates.

Plant Location	Collective Bargaining Agreement Expiry Date
Allan, Saskatchewan	April 30, 2025
Cory, Saskatchewan	April 30, 2025
Lanigan, Saskatchewan	January 31, 2024 ¹
Patience Lake, Saskatchewan	April 30, 2025
Regina, Saskatchewan (Access Distribution)	December 31, 2024
Regina, Saskatchewan (Sites and Office)	December 31, 2024
Rocanville, Saskatchewan	May 31, 2023 ¹
Vanscoy, Saskatchewan	April 30, 2023 ¹
Mulberry, Florida	May 31, 2024
White Springs, Florida	March 3, 2025
Greenville, Mississippi	August 27, 2025
Cincinnati, Ohio	November 1, 2024
Lima, Ohio	October 31, 2027

¹ The terms of this collective bargaining agreement, including new expiry date, remain under renegotiation as of the date hereof.

In jurisdictions such as Italy, Australia and Brazil, employees are self-represented through other forms of collective bargaining such as enterprise award agreements or work councils. We believe we have an effective working relationship with our employees, and the unions representing them.

5.10 Social and Environmental Policies

Sustainability

In 2021, we launched our Feeding the Future Plan, which highlighted our priority sustainability-related commitments, targets and goals. We believe we have the ability to create lasting change and sustainably feed a growing population by committing to working with growers to feed the planet sustainably, reducing our environmental footprint and taking climate action while promoting inclusive agriculture. We aim to drive innovation in agriculture and deliver positive value to our stakeholders and our planet. We believe Nutrien is uniquely positioned to drive sustainability across the agricultural value chain for economic, social and environmental outcomes.

In 2021, we set short- and mid-term reduction targets for Scope 1 and 2 GHG emissions. We continue to work with the World Business Council for Sustainable Development, fertilizer peers and the Science Based Targets initiative to produce a sectoral decarbonization approach for the fertilizer industry, which as of December 31, 2023 had not been published for public comment.

We continue to move forward on our sustainability-related commitments and targets and expect to provide additional and/or revised targets in the future for developing key issues applicable to Nutrien. Our sustainability strategy and the 2023 ESG Report for the year ended December 31, 2022, can be viewed on the Company's website at nutrien.com. We expect to release our Global Sustainability Report (previously ESG Report), which will focus on our relevant sustainability topics, performance and key initiatives for the year ended December 31, 2023, in March 2024.

See "Risk Factors" section below for a description of the risks related to our sustainability-related targets and initiatives.

Code of Conduct

Nutrien's most important assets are our employees, customers, shareholders, value-chain partners, suppliers and the communities in which we operate. It is critical that we maintain the trust of each of these stakeholders. Our Code of Conduct ("Code") helps us fulfill our responsibilities by: committing to the public and our stakeholders our uncompromising integrity in every aspect of our efforts; describing our values and principles of business conduct, including our own high standards and fundamental respect for the rule of law; guiding employees on how to engage in integrity-based decision making that demonstrates and sustains our commitment to doing business the right way in all our operations around the world; and outlining how our commitment supports our stakeholders. The Code also outlines our commitment to compliance with all applicable employment and human rights laws in any jurisdiction where we do business.

We actively promote integrity through the Code and numerous supporting policies, which are reinforced by risk assessments, due diligence procedures, training and our speaking up process. All Nutrien employees are required to receive formal training on the Code and other compliance-related topics. Our confidential 24-hour, 365 days a year, externally administered Integrity Helpline complements other methods of speaking up that enable employees and stakeholders to report any violations or suspected violations

of the Code and other associated Nutrien policies, or any behavior that does not comply with applicable laws. The Code also clearly sets out our no-retaliation policy, which is designed to enable employees to raise good faith issues in a safe environment without fear of retaliation.

Anti-Corruption Policy

We operate in a wide range of jurisdictions and are vigilant and proactive in detecting and preventing corruption. Our Anti-Corruption Policy requires those who work on behalf of Nutrien to ensure that their own conduct fulfills Nutrien's commitment to compliance with all applicable anti-bribery and anti-corruption laws. It applies to Nutrien's directors, officers, employees, representatives, consultants, and other agents of Nutrien and each of its subsidiaries and in every country where we do business.

Nutrien maintains an anti-corruption program that includes:

- identifying high-risk third parties, including acquisition targets and potential joint venture partners, and conducting appropriate diligence;
- incorporating anti-corruption clauses in contracts and/or obtaining certifications that include anti-corruption language for high-risk third parties;
- requiring anti-corruption training and other risk mitigation steps where appropriate, such as annual certification or continued monitoring to identify and address any potential issues; and
- maintaining appropriate books and records and an appropriate system of internal accounting controls.

Workplace Policies

We have adopted a robust Strategic Inclusion Plan with a workplace and workforce component that focuses on increasing equity, diversity and inclusion across the Company, with a particular focus on women and Indigenous Peoples. In order to realize the benefits of an inclusive work environment, we are focused on building capacity in our talent attraction and succession planning processes to ensure competency in our people to execute, particularly functional and people leaders. We are taking action to address potential physical and cultural barriers to ensure an inclusive workplace where all employees feel they are respected, valued and belong. We maintain a Respect in the Workplace Policy and an Equal Employment and Affirmative Action Policy. Implementation of our Strategic Inclusion Plan is supported by education and online courses, employee resource groups, and ongoing monitoring of internal and external employment trends (new hires, promotion and turnover) for current and potential employees. We are committed to playing a leadership role in our industries, contributing to more equitable outcomes delivering commercial value through opportunities not only in our workforce but also in other areas where we have opportunity for impact, including our supply chain and communities in which we operate. We benchmark our inclusion maturity using a comparison of our practices to the Global Diversity and Inclusion Benchmark model as a basis for continuous improvement.

Supplier Code of Conduct ("Supplier Code") and Procurement Policies

Nutrien is committed to responsible sourcing. In May 2023, Nutrien updated our Supplier Code, as a replacement for our Supplier Code of Ethics, which was implemented in 2019. Our Supplier Code was established to communicate Nutrien's requirements for suppliers of goods and contractors performing services for, or on behalf of, Nutrien. Our Supplier Code is intended to apply to all suppliers that provide goods and services to Nutrien, whether directly or indirectly. It includes requirements related to human rights and labour in our supply chains, including prohibitions on illegal, forced, compulsory, child labour and human trafficking, and requirements regarding health and safety, working conditions, wages, hours of work and others.

Our Supplier Code is aligned with our commitment to the 10 principles of the United Nations Global Compact and international standards as well as Nutrien's core values of Safety, Inclusion, Integrity and Results. The Supplier Code identifies the behaviors that we require our suppliers to demonstrate related to the products or services they provide to us around the world.

Commitment by our suppliers to the principles of the Supplier Code is an important part of our decision-making process. Within the Nitrogen, Phosphate, Potash and Corporate segments, our standard form supplier contract terms and conditions for the purchase of goods include terms requiring our suppliers and their employees and subcontractors to conduct their operations pursuant to the contract in accordance with our Supplier Code and we aim to maintain these provisions in final contracts and to include similar provisions in non-standard form contracts with our suppliers.

Our Procurement, Legal and Integrity teams provide guidance and support to the business regarding risk-based due diligence for suppliers, which includes ensuring that appropriate language is included in contracts with various suppliers and appropriate requirements regarding our Supplier Code are communicated. Where suppliers refuse to follow the principles of the Supplier Code or show signs that they are not committed to improving their practices to comply with its principles, Nutrien will review our relationship with the supplier. Where contractual commitments and applicable laws permit, this review may include termination of our relationship with the non-compliant supplier.

Nutrien is committed to supporting diversity and inclusion throughout the procurement process. Our procurement policies and procedures are designed to ensure that fair consideration is given to all potential suppliers. In 2023, Nutrien introduced an updated Procurement Policy, which establishes procurement rules of conduct for the Company. The policy now applies across all operating segments and regions and will help ensure we continue to work with suppliers who align with our values, while supporting the communities where we live and work.

We provide an Indigenous Content Playbook in Saskatchewan to assist suppliers in developing local Indigenous content in their own organizations and supply chains. We work with our supply network to ensure that all contracts include local Indigenous impact commitments. We continue to evolve our Potash Indigenous supply chain strategy to support and identify contract opportunities for Indigenous-owned companies. We believe in building and maintaining relationships of mutual respect with Indigenous communities through our procurement practices and extend this further by providing employment and training opportunities and community investments.

Safety, Health and Environment ("SH&E")

We are committed to the care and protection of our people, environment, community and customers. We honor that commitment by making safety a core value of our organization, as we grow our world from the ground up.

Under our SH&E Policy, our goals are to:

- protect our people, assets, facilities, communities and environment;
- proactively prevent incidents and minimize risk by continuously improving our safety, health and environmental performance;
- · promote employee physical and mental health and well-being; and
- drive excellence in safety, health and environment across our operations and supply chain.

We strive to accomplish these goals through our SH&E vision "Everyone home safe, every day," which brings our SH&E Strategy (Culture of Care) and Actions (Nutrien Way) to life, guiding daily actions and behaviors. Nutrien ensures leaders, and their teams, are well supported with SH&E expertise and resources to help everyone go home safe, every day.

Our SH&E culture continues to evolve, purposefully focused on sustaining our "Culture of Care" rallying around four pillars: Lead, Collaborate, Challenge and Trust as our consistent base. Nutrien's SH&E management further focuses on people, systems, processes and tools to accomplish continual improvement.

SH&E performance, measurement, analysis and continuous improvement occur with engagement at multiple organizational levels. The Safety and Sustainability Committee of the Board (the "S&S Committee") has responsibility for the oversight of the Company's activities as they relate to ensuring that appropriate policies, systems, and personnel are in place to support safe and sustainable operations and the long-term viability of the Company, including its consideration of stakeholders relevant to the creation and preservation of long-term value. This oversight includes the ongoing monitoring and development of the Company's sustainability strategy and incorporates safety, environmental stewardship, health, climate change-related risks and opportunities, cybersecurity, and data privacy. The S&S Committee directly reports to and advises the Board on these matters. The S&S Committee oversees the Company's general strategy, policies, resources and initiatives relating to safety as appropriate. The S&S Committee meets on a recurring basis to monitor performance against annual and longer-term performance goals, and discusses plans, strategies, and processes, in addition to reviewing our SH&E systems. Policies and strategies are reviewed annually for relevance and modified as appropriate. Committees meet on a recurring basis to monitor performance against annual and longer-term performance goals, and discuss plans, strategies and processes, in addition to evaluating opportunities for improving our SH&E systems.

Leadership, commitment, resource allocation, responsibility, communication, learning and technology are examples of our continually evolving SH&E systems. Nutrien provides further details in our defined SH&E policies, programs and processes addressing specific hazards, risks, operations and tasks.

We lead through the integration of an SH&E management system, including methods of governance, expectations, reference documentation and communication. This infrastructure provides consistency while permitting flexibility to encompass our diversity of operations, risks and geographies. Our business units and, where appropriate, individual facilities reinforce management system expectations through further evaluation, elimination, mitigation and controls necessary to manage risks unique to their operations. Development of SH&E systems, guidance, standards and continuous improvement occurs at the business unit level through operational committees integrated with the central SH&E teams. Performance and risk management conditions are continuously identified, evaluated, addressed and communicated throughout our organization.

Technical support and assurance for our operations are managed at multiple levels within the organization, including central, corporate, business unit, and site levels. We share responsibility for maintaining integrated systems, performance monitoring, providing technical expertise and conducting business unit SH&E and Process Safety Management audits. The use of an integrated and structured assurance program enables us to achieve continuous improvement and consistent management practices at our facilities and in our operations. In addition to a central SH&E team providing a consistent resource across our organization, we have established SH&E organizations in each business unit with clear lines of responsibility, accountability and visibility. This central and distributed structure enables us to focus on both oversight and governance as well as direct engagement in our operations and activities.

We maintain global, ongoing working relationships with multiple industry associations and regulatory agencies. These relationships ensure new or changing regulations are identified, understood, evaluated and communicated in advance of change. Industry association relationships enhance our risk management compliance with regulatory expectations and provide opportunities to share best practice, innovation and leading SH&E enhancement technologies.

5.11 Risk Factors

Our performance and our future operations are and may be affected by a wide range of risks. The following section describes our key risks and uncertainties. Any or all of these risks, or other risks not presently known to us or that we do not consider material, could have a material adverse effect on our business, financial condition, results of operations, cash flows, value of our common shares and debt securities and, in certain cases, our reputation.

Competition and shifting market fundamentals could impact our short-and-long-term profitability

Global macroeconomic conditions and shifting market fundamentals, including trade tariffs and restrictions, market volatility, and increased price competition, or a significant change in agriculture production or consumption trends, could lead to a sustained environment of reduced demand for our products, and/or low commodity prices and impact our short and long-term profitability.

We are subject to intense price competition from both domestic and foreign sources, including state-owned and government-subsidized entities. Crop nutrients, including potash, nitrogen and phosphate, are global commodities with little or no product differentiation, and customers make their purchasing decisions principally on the basis of delivered price and, to a lesser extent, on customer service and product quality. Historically, selling prices for our products have fluctuated in response to periodic changes in global and regional supply and demand conditions. Supply is affected by available capacity and operating rates, raw material costs and availability, government policies and global trade that could adversely affect our operating results.

Periods of high demand, high-capacity utilization and increasing operating margins tend to result in investment in production capacity, which may cause supply to exceed demand and capacity utilization and realized selling prices for our products to decline, resulting in possible reduced profit margins. Such conditions could also include writedowns in the value of our assets, and temporary or permanent curtailments of production. Competitors and potential new entrants in the markets for potash, nitrogen and/or phosphate have in recent years expanded capacity, begun construction of new capacity, or announced plans to expand capacity or build new facilities. The extent to which current global or local economic and financial conditions, changes in such conditions, or other factors may cause delays or cancellation of some of these ongoing or planned projects or result in the acceleration of existing or new projects, is uncertain. Future growth in demand for our products may not be sufficient to absorb excess industry capacity. Furthermore, our business is cyclical, which can result in periods of industry oversupply during which our results of operations may be negatively impacted, as the price at which we sell our products typically declines during such periods, resulting in possible reduced profit margins, and could include writedowns in the value of our assets and temporary or permanent curtailments of production.

We are impacted by global market, economic and geopolitical conditions that could adversely affect agriculture commodity trade flows and demand for crop nutrients or increase prices for, or decrease availability of, raw materials and energy necessary to produce our products. These conditions include international trade disputes (including withdrawal from or modification to existing trade agreements, negotiation of new trade agreements, non-tariff trade barriers, local content requirements, and the imposition of new or retaliatory tariffs), international crises or risks thereof (including volatility in the global market resulting from the ongoing Ukraine and Russia war and the conflict in the Middle East), rising incomes in developing countries, the relative value of the US dollar and its impact on the importation of fertilizers, foreign agricultural policies, and the existence of, or changes in, import or foreign currency exchange barriers in certain foreign markets, and other regulatory policies of foreign governments, as well as the laws and policies affecting foreign trade and investment.

The current war between Ukraine and Russia, and the conflict in the Middle East may continue to have potential wide-ranging consequences for global market volatility and economic conditions, including energy and commodity prices. Certain countries including Canada, the US, Australia and certain European countries have imposed strict financial and trade sanctions against Russia, with Russia and Belarus imposing retaliatory sanctions of their own, which have had, and may continue to have, far-reaching effects on the global economy, energy and commodity prices, food security, and crop nutrient supply and prices. The implications of the war in Ukraine and the conflict in the Middle East are difficult to predict with any degree of certainty at this time. While Nutrien does not have operations in Ukraine, Russia or the Middle East, there continues to remain uncertainty relating to the potential impact of the conflicts and their effect on global food security, growers, energy prices, supply chains, and the market outlook for crop nutrient market supply and demand fundamentals and nutrient prices, and they could have a material and adverse effect on our business, financial condition and results of operations.

Trade disputes, tariffs and other restrictions may lead to volatility in commodity prices, disruptions in historical trade flows and shifts in planting patterns that could have an adverse effect on our business, financial condition and results of operations. Additionally, some of our customers require access to credit to purchase our products and a lack of available credit to customers in one or more countries, due to this deterioration, could adversely affect demand for crop nutrients as there may be a reluctance to replenish inventories in such conditions.

Agricultural changes and trends could adversely impact our business

The agricultural landscape continues to evolve at an increasingly fast pace as a result of factors including, but not limited to, farm and industry consolidation, agricultural productivity, technology developments, sustainability practices, government programs and policies, climate change, and social trends, many of which vary from jurisdiction to jurisdiction.

Farm consolidation in the US and other developed markets has been ongoing for decades and is expected to continue as grower demographics shift and advancements in innovative technology and equipment enable growers to manage larger operations to create economies of scale in a lower-margin, more capital-intensive environment. Consolidation in the crop nutrient industry has resulted in greater resources dedicated to expansion, research and development opportunities, leading to increased competition in advanced product offerings and innovative technologies. Some of our competitors have greater total resources than us or are state-supported, which make them less vulnerable to industry downturns and better positioned to pursue new expansion and development opportunities.

The advancement and adoption of technology and digital innovations in agriculture and across the value chain have increased and are expected to further accelerate as grower demographics shift and pressures from consumer preferences, governments and climate change initiatives evolve. The development of seeds that require less crop nutrients, development of full or partial substitutes for our products, or developments in the application of crop nutrients such as improved nutrient use or efficiency through use of precision agriculture could also emerge, all of which have the potential to adversely affect the demand for our products and our financial condition, results of operations and cash flows.

Further, digital innovations and use of new technology in the agriculture market, among other things, by new or existing competitors could alter the competitive environment, resulting in existing business models being disrupted, which may adversely impact our Retail operations and financial performance.

Agriculture is dependent on a healthy ecosystem to sustain our global food supply. Growers are dealing with an increasing focus on sustainability in the agriculture industry including changing consumer behavior and preferences, food supply chain ethics and transparency and traceability, soil health and nutrient preservation, water use, regulatory requirements such as potential nutrient application, diminishing biodiversity, and GHG emissions, among other things.

The impact of climate change on our operations and those of our grower customers remains uncertain. The physical risks associated with climate change include changing rainfall patterns, water shortages, wildfires, rising sea levels, changing storm patterns and intensities, increasing temperature levels, drought, loss of biodiversity, and deforestation. These risks vary by geographic location and could include acute risks resulting from increased severity of extreme weather events and chronic risks resulting from longer-term changes in climate patterns. Climate change may also affect the availability and suitability of arable land and contribute to unpredictable shifts in the average growing season and types of crops produced.

These factors as well as other factors affecting long-term demand for our products and services (such as population growth and changes in dietary habits) could adversely impact our strategy, demand for our products and our financial condition, financial performance, results of operations and cash flows.

Our business may be adversely affected by changing regulations

We are subject to numerous federal, state, provincial and local environmental, health and safety laws and regulations, including laws and regulations relating to land, water and raw material use and management; the emission of contaminants to the air or water including GHG emissions; land reclamation; the generation, treatment, storage, transportation, disposal and handling of hazardous substances and wastes; the clean-up of hazardous substance releases; commercial transportation; royalties and taxes (including income taxes); and the demolition of existing plant sites upon permanent closure. Specifically, our mining and manufacturing processes release CO₂ and other GHGs and consume energy generated by processes that result in GHG emissions.

We incur significant costs and associated liabilities in connection with our compliance with these laws and regulations, and violations of environmental, health and safety laws or regulations can result in substantial penalties, court orders, civil and criminal sanctions, permit revocations, investigations, possible revocation of our authority to conduct our operations or transport our products, and facility shutdowns. There are substantial uncertainties as to the nature and timing of any future regulations with many of the laws and regulations continuing to become increasingly stringent, and the cost of compliance can be expected to increase over time. New or revised laws or regulations may result from pressure on lawmakers and regulators to address climate change, product stewardship or product use concerns, transition to a low-carbon economy, or to address concerns related to fertilizer and food prices, accidents, terrorism or transportation of dangerous goods. Increased or more stringent laws or regulations, including protectionist policies in certain jurisdictions or for the benefit of favored industries or sectors, if enacted, or re-interpretation of current laws and regulations, could impact our ability to produce, sell, apply, use or transport certain products, increase our raw material, energy, transportation, and compliance costs, reduce our efficiency, require us to make capital improvements to our facilities, and have a negative effect on our customer satisfaction, reputation and financial performance. Our costs to comply with, or any liabilities under such laws and regulations could have a material adverse effect on our business, financial condition, results of operations and cash flows. To the extent that such regulations, including GHG emissions restrictions, are not imposed in the countries where our competitors operate or are less stringent than regulations that may be imposed in the US, Canada or the other jurisdictions in which we operate, our competitors may have cost or other competitive advantages over us.

We hold numerous environmental, mining and other governmental permits and approvals authorizing operations at each of our facilities. Continuation and/or expansion of our operations is dependent upon renewing or securing the necessary environmental or other permits or approvals. A decision by a government agency to deny or delay issuing a new or renewed material permit or approval, or to revoke or substantially modify an existing permit or approval, could materially adversely affect our ability to continue operations at the affected facility.

Various stakeholders, including legislators and regulators, shareholders, and non-governmental organizations, as well as companies in many business sectors, including Nutrien, are continuing to examine ways to reduce GHG emissions. New or current regulation of GHG emissions could result in additional costs to Nutrien in the form of taxes or emission allowances, facilities improvements, energy costs, compliance costs or otherwise, which, in turn, could increase Nutrien's operational costs. In addition, the regulation of GHG emissions may cause increased input costs and compliance-related costs for agricultural customers, which could result in lower demand for our products and reduced revenues. Because the impact of any future GHG-related legislative or regulatory requirements on Nutrien's business and products is dependent on the timing and design of such requirements, in different jurisdictions, Nutrien is unable to predict with any certainty the potential impact on it at this time.

We are subject to antitrust laws in various countries throughout the world. A significant portion of our business activities is conducted in countries under existing trade agreements and regulations. Changes in antitrust laws, trade agreements or regulations may limit our operations or the operations of Canpotex and could negatively impact opportunities for future acquisitions or organic growth.

We are also subject to taxes in jurisdictions where we are organized or conduct business. Tax rates in the various jurisdictions in which we operate may be subject to significant change. Taxation matters, including changes in tax laws or rates, adverse determinations by taxing authorities, and imposition of new taxes could adversely affect our strategy, financial condition, results of operations and cash flows.

Climate change may have an adverse effect on our business

Our business and our customers are subject to risks related to or resulting from climate change, which are commonly grouped into physical risk and transition risk categories.

Physical risks include the impact that climate change could have on our operations, our grower customers, and our supply chain. Climate change may cause or result in, among other things, more frequent and severe weather events, such as storms, floods, heat waves, droughts, and/or changing weather factors such as changing temperatures, precipitation, wind, and water levels. Chronic physical impacts from climate change may also affect the availability and suitability of arable land, including crop quality and soil health, and contribute to loss of biodiversity and unpredictable shifts in the average growing season and types of crops produced and/or crop yields, which could impact the long-term demand for our products and services. The results of climate change or droughts

may also affect the water levels of certain waterways used in our supply chain network or availability of water (including water use restrictions) for use in our operations. Freshwater availability is critical to our operations and our grower customers, but localized challenges can exist regarding availability and quality of water, which may be intensified by the effects of climate change. Physical risks from climate change may also result in operational or other supply chain delays, depending on the nature of the event. These events may impact the demand for our products, availability and/or cost of transportation and distribution, resource inputs, materials or insurance, or increase the costs to our operations or capital projects.

Transition risks relate to the risk inherent in changing strategies, policies or investments as society and industry work to reduce the reliance on carbon and impact on the climate. Impacts of transition risks include, among other things, policy constraints on carbon emissions, imposition of carbon pricing mechanisms and carbon taxes, enhanced climate reporting obligations, risks associated with investments in new technologies, costs to transition to lower emissions technologies, stranded assets, diminished access to capital and financing, water restrictions, land use restrictions or incentives, changing consumer behavior and preferences, and market demand and supply shifts. There are also reputational risks associated with climate change including our stakeholders' perception of the agriculture industry and our role, strategies and capital allocation decisions relating to the transition to a lower-carbon economy.

There can be no assurance that our efforts to anticipate the costs associated with mitigating the physical risks of climate change and working with governments and industry on potential regulatory requirements associated with climate change will be effective or that climate change or related governmental policy action in response to climate change will not have an adverse impact on our business and negatively impact our strategy, financial condition, results of operations, and/or cash flows, and our reputation and stakeholders' support.

See the discussions under "Agricultural changes and trends could adversely impact our business", "Our business may be adversely affected by changing regulations" and "We may fail to meet our GHG emissions and/or other sustainability and climate targets" for further consideration of the potential impacts of climate-related events on demand for our products, on our operations and on the regulatory environment we operate within.

Our information technology systems, infrastructure and data may become the target of cybersecurity attacks

Information technology systems and operational control systems are embedded in our business and as we advance our digital platform and capabilities, financial lending programs, and process automation systems, we may become more exposed to cyberattacks, which continue to become increasingly sophisticated and costly to defend. Further, increased reliance on third-party service providers, cloud-based platforms, and remote working arrangements have required adjusted tactics to respond to a changing threat landscape and may result in increased cybersecurity risk exposure. Cybersecurity risks include attacks on information technology and infrastructure by hackers, industrial espionage, terrorist attacks, damage or loss of information due to viruses, ransom events, the unintended disclosure of confidential information and/or personally identifiable information, the misuse or loss of control over computer control systems, power outages, business and/or supply chain disruptions, and related breaches (intentional or otherwise).

Targeted attacks on our systems (or on systems of third parties that we rely on), failure or non-availability of key information or operations technology systems (whether our own systems or systems of third parties that we rely on), or a breach in security measures designed to protect our technology systems could result in property damage, theft, misuse, modification and destruction of information, including trade secrets and confidential business information and/or personally identifiable information, and cause business disruptions, reputational damage, extensive personal injury, and third-party claims, which could negatively impact our operations and our financial performance.

Nutrien collects certain personally identifiable information and other data integral to parts of its business processes and activities. This information and other data is subject to a variety of US, Canadian, and foreign laws and regulations, including oversight by various regulatory or other governmental bodies, and laws and regulations concerning the collection and use of such information and other data obtained from their residents or by businesses operating within their jurisdictions. Any inability, or perceived inability, to adequately address privacy and data protection concerns, even if unfounded, or to comply with applicable laws, regulations, policies, industry standards, contractual obligations or other legal obligations (including at newly acquired companies) could result in additional cost and liability to Nutrien or its officials, damage our reputation, inhibit sales, and otherwise adversely affect our business.

Our operations may be affected by political, economic and social instability

We are a global business with significant operations in Canada and the US as well as operations outside of North America, including Australia, South America, European countries and Trinidad, with an expanding presence in Brazil. We also hold equity investments primarily in China and Argentina.

We are subject to numerous risks and uncertainties relating to international sales and operations, including: difficulties and costs associated with complying with a wide variety of complex laws, treaties and regulations; abrupt or unexpected changes in regulatory environments; conflicting cultural practices and business practices; increased government regulation of the economy and/or state ownership of enterprises; changes in tax or royalty laws and regulations; labor disruptions; forced divestitures or changes to or nullification of existing agreements, mining permits or leases; political and economic instability in areas in which we operate or elsewhere, including the possibility for civil unrest, military or political conflicts, inflation (including volatile and/or high inflation levels), supply chain disruptions and adverse economic conditions resulting from governmental attempts to reduce inflation, such as imposition of higher interest rates and wage and price controls; nationalization of properties or assets by foreign governments; the imposition of tariffs, limitations on the repatriation of earnings and exchange controls (including, but not limited to those in Argentina), international trade sanctions, embargoes, barriers or other restrictions; restrictions on monetary distributions; public health crises, and actions taken and measures imposed by government or regulatory bodies in connection therewith; and currency exchange rate fluctuations between the US dollar and foreign currencies.

The occurrence of any of the above risks and uncertainties in the countries in which we operate or elsewhere could jeopardize or limit our ability to transact business and could adversely affect our revenue, operating results, or the value of our assets located in such countries.

Our governance and compliance processes, which include the review of internal control over financial reporting and specific internal controls in relation to offers of things of value to government officials and representatives of state-owned enterprises, may not prevent potential violations of law including anti-corruption or anti-bribery laws, accounting, or governance practices. Our Code, together with our mandatory policies, such as our Anti-Corruption and Anti-Fraud Policies, may not prevent instances of fraudulent behavior and dishonesty nor guarantee compliance with legal or regulatory requirements. This may lead to regulatory fines, disgorgement of profits, litigation, loss of operating licenses or reputational damage.

We may fail to attract and retain talent and/or develop the right organizational culture and resources which could have an adverse effect on our business

Our ability to attract and retain qualified top talent, including for skillsets that are in high demand in certain regions, and provide the necessary organizational structure, programs, and culture to engage and develop our employees, including providing a respectful, inclusive and diverse workplace, is crucial to our growth and achieving our business results.

Although we strive to be an employer of choice, competition for skilled employees in certain geographical areas can be significant and we may not be successful in attracting, developing or retaining such skilled employees. We could experience increases in our recruiting and training costs, and decreases in our operating efficiency, productivity, and financial performance if we are not able to attract, hire and retain a sufficient number of skilled employees to support our operations. Our success also depends in part on certain skilled employees and the loss of their services could have a material adverse effect on our business, financial condition, and results of operations.

In addition, we invest significant time and expense in training and developing our employees, which increases their value to competitors, who may seek to recruit them. Failure to develop the right organizational structure or culture or promote and foster a respectful, diverse, and inclusive workplace could result in decreased productivity, reliability, efficiency and safety performance, higher costs, or reputational harm. It could also negatively impact our ability to attract and retain employees, take on new projects or acquisitions and sustain operations, or meet diversity and inclusion goals, which might negatively affect our operations or our ability to grow.

We may fail to maintain the support of our stakeholders for our business plans

The nature of our business makes it crucial to maintain a strong reputation and positive relationships with key stakeholders, including shareholders, customers, our employees, suppliers, landowners, local and Indigenous communities, and governments, among others. Damage to our reputation can occur from our actual or perceived actions or inactions and a range of events and circumstances, including through our supply chain, many of which are out of our control. This includes with the media and in social media, which has made it easier for individuals and groups to share their opinions of us and our activities, whether accurate or not, which could damage our reputation.

Our reputation as a company doing business with integrity is essential to building and maintaining trusting relationships with stakeholders, as well as reducing our legal and financial risk. Damage to our reputation could result in, among other things, a decrease in the value of our common shares and debt securities, decreased investor confidence, challenges in attracting and retaining talent, challenges in maintaining positive relations with the communities in which we operate and other important stakeholders, and increased risks in developing our resources, any of which could have a material adverse effect on our operations, projects and financial position.

Our stakeholders may place increasing importance on the structure of our business, our ability to execute on our strategy, the customers, growers, and suppliers we do business with, and our core sustainability, social, biodiversity, and product stewardship responsibilities. Underperformance due to weak market fundamentals or business issues, inadequate communication, engagement and/or collaboration with our stakeholders, perception gaps between consumers and the agriculture industry, inadequate management of climate change, biodiversity, or other environmental or social issues, inadequate management of our products or supply chain, or dissatisfaction with our practices or strategic direction, including our capital allocation priorities and those directed to address ESG matters, may lead to a lack of support for our business plans. Loss of stakeholder confidence impairs our ability to execute on our business plans, negatively impacts our ability to produce and/or sell our products, and may also lead to reputational and financial losses, and negatively impact our access to or cost of capital or shareholder action.

We may be unable to access sufficient, cost-effective or timely transportation, distribution, and storage of our products or our supply chains may be disrupted which could have an adverse effect on our business

We rely on dependable and efficient transportation services, the disruption of which could result in difficulties supplying materials to our facilities and/or impair our ability to deliver products to customers in a timely manner. We rely on railroad, trucking, pipeline, access to navigable rivers and waterways, and other transportation service providers to transport raw materials to our manufacturing facilities, to coordinate and deliver finished products to our storage and distribution system and our Retail centers, and to ship finished products to our customers.

Our ability (or the ability of the third parties upon which we rely) to provide sufficient, cost-effective or timely transportation and storage of product may be challenged due to a number of factors, including labor disputes, system failures, accidents (such as spills or derailments), delays, supply chain interruptions, adverse weather or other environmental events (including high or low river water conditions and others related to climate change), explosions, fires or other unexpected outages, adverse operating conditions (including aging transportation infrastructure, railroad capacity constraints, or changes to rail or ocean freight systems), swings in demand for our products, increased shipping demand for other products, adverse economic conditions, deliberate sabotage and terrorist incidents, labor difficulties and shortages, a change in our export, sales or marketing company relationships, or otherwise. This could result in delays and increased costs, lost revenue, and reputational damage with our customers.

If certain key raw materials, parts and/or supplies used in our processing operations are not available, our business could be disrupted. Certain factors which may impact the availability of raw materials and supplies are out of our control including, but not limited to, disruptions resulting from weather, economic conditions, geopolitical factors, regulatory instability and changes to tariffs, manufacturing delays or disruptions at suppliers' facilities or supplier operations, shortage of materials, interruption of energy supply, epidemics, pandemics, or other such crises, and unavailable or poor supplier credit conditions.

We may fail to effectively redeploy capital to achieve sustained growth

Challenges may arise in the capital allocation process due to changing market conditions, including the unavailability, due to geopolitical, market or other reasons, of appropriate capital deployment opportunities, and our ability to anticipate and incorporate such changes in our decision-making process. Inefficiencies in the capital allocation process or decisions that are not consistent with strategic priorities or that do not properly assess risk may also lead to inefficient deployment of capital. Failure to allocate capital in an effective manner may lead to reduced returns on capital invested, operational inefficiencies, damage to our reputation or limitations on our access to capital.

When we undertake any strategic initiatives, our ability to achieve the expected returns and other benefits will be affected by our degree of preparedness and ability to execute.

• We have undertaken and continue to undertake various projects including capital and business process improvement and transformation projects, including those intended to lower our GHG emissions intensity. These projects involve risks, including (but not limited to) changing market conditions, difficult environmental conditions, poor project prioritization and capital allocation, factors negatively impacting costs (such as escalating costs of labor and materials, unavailability and underperformance of skilled personnel, suppliers of materials or technology and other third parties we retain, design flaws or operational issues, or poor project management oversight) or poor transition through project stages. Any of the foregoing risks could impair our ability to realize the benefits we had anticipated from the projects and negatively impact our financial performance.

- With respect to any completed and future acquisitions, we are dependent upon our ability to successfully consolidate functions and integrate culture, operations, technology, systems, procedures, and personnel of acquired businesses in a timely and efficient manner. The integration of assets and operations requires the dedication of management effort, time and resources, which may divert management's focus and resources from other strategic opportunities or operational matters during the process. The integration process with respect to any completed or future acquisitions may result in the disruption of our existing business and customer relationships, which may adversely affect our ability to achieve the anticipated synergies and other benefits and may, in turn, negatively affect our financial performance, including the risk of impairment charges related to goodwill or other intangibles.
- We also continue to evaluate the potential disposition of assets and operations that may no longer help us meet our objectives. When we decide to sell assets or operations, we may encounter difficulty in finding buyers or executing alternative exit strategies on acceptable terms or in a timely manner, which could delay the accomplishment of our strategic objectives.

We may fail to maintain high levels of safety and health or to protect the environment

Our operations are subject to hazardous safety, health and environmental risks inherent in mining, manufacturing, transportation, storage and distribution of chemical fertilizers, and other chemical products, including ammonia and anhydrous hydrogen fluoride, which are highly toxic and corrosive. These risks include: incidents relating to operation of equipment and exposure by personnel to thermal, electrical, mechanical, chemical, gravitational, pneumatic and hydraulic operations, maintenance activities and road transportation/travel; underground water inflows at our potash mines; explosions; fires; severe weather and natural disasters; train derailments and collisions, vessel groundings and other transportation and maritime incidents; leaks and ruptures involving storage tanks, pipelines and railcars; spills, discharges, and releases of toxic or hazardous substances or gases; uncontrolled tailings, gypsum stack or other containment breaches; significant subsidence from mining activities; civil unrest; and deliberate sabotage and terrorist incidents. Additionally, other hazards specific to our Nitrogen and Phosphate operations include but are not limited to: engulfment; hydrogen sulfide ("H₂S") exposures; contact with electrical conductors; hazards associated with reclamation activities inclusive of work around bodies of water; and work at height hazards/fall protection exposure prevention. We also have personnel who work or travel in higher-risk countries and are subject to increased safety and security risks as a result.

The potash mining process is complex and subject to certain geological conditions and hazards, including the presence of certain gases, such as those containing H_2S , and the presence of water-bearing strata above and below many underground mines, which pose the risk of water inflows. It is not uncommon for water inflows of varying degrees to occur in potash mines. While it is difficult to predict if, when or to what degree such inflows could occur, we are able to better predict and prepare for mine-threatening inflows with the use of 3D seismic and accompanying mining guidance standards. At our Saskatchewan potash mines, we experienced water inflows that are being monitored and managed, as appropriate. An increase to the frequency and/or significance of inflows at our potash mines could result in increased operational costs, increased risk of personal injury, production delays or stoppages, the abandonment and closure of a mine, and/or damage to our reputation. The risk of underground water inflows, as with most other underground risks, is currently not insured.

Failure to identify, proactively mitigate or appropriately respond to a safety, health or security incident could result in injuries or fatalities among our employees, contractors or residents in communities near our operations. Such incidents may lead to civil and/or criminal liabilities arising out of personal injuries or death, operational interruptions, regulatory intervention, such as stop work orders, citations, restrictions or other enforcement actions, and shutdown or abandonment of affected facilities. Preventing or responding to incidents could require us to expend significant managerial time and effort, and financial resources to remediate safety issues, compensate injured parties or repair damaged facilities. Any of the foregoing could have an adverse impact on our ability to produce or distribute product, our financial results, and our reputation. Failure to prevent an environmental incident could impact the biodiversity, water resources, and related ecosystems near our operations, cause personal injury and significant environmental damage, and result in significant fines or penalties. Such incidents could also adversely impact our operations, financial performance or reputation.

We may fail to meet our GHG emissions and/or other sustainability and climate targets

We set a target to reduce our Scope 1 and 2 GHG emissions intensity of our operations by at least 30 percent by 2030 (based on a 2018 baseline year). Our ability to lower GHG emissions on an absolute or intensity basis (including the ability to maintain such GHG emission reductions into the future) is subject to numerous risks and uncertainties, and our actions taken in implementing these objectives may also expose us to certain additional and/or heightened financial and operational risks.

A reduction in GHG emissions is dependent on, among other things, our ability to deploy sufficient capital to fund the expenditures to implement the necessary operational changes required to achieve our target; our ability to implement requisite operational changes; our ability to implement some or all of the technology necessary to efficiently and effectively achieve expected future results, including in respect of our GHG emissions reduction targets; the availability of requisite technological advances; the commercial viability and scalability of GHG emissions reduction strategies and related technology and products; and the development and execution of implementing strategies to meet our GHG emissions reduction target.

With respect to our other climate and sustainability targets, our ability to achieve those targets is also subject to numerous risks and uncertainties and our actions taken in implementing our objectives may also expose us to certain additional and/or heightened financial and operational risks. Our ability to achieve our various sustainability commitments, performance goals and climate and sustainability targets relies on, among other things, our ability to deploy sufficient capital to fund the expenditures to implement the necessary operational changes to achieve these targets; our ability to realize expected operating rates; our ability to implement requisite operational changes; our ability to implement some or all of the technology necessary to efficiently and effectively achieve expected future results; the commercial viability and scalability of required technology and products; production mix; development and growth of end market demand for sustainable products and solutions; the performance of third parties; and the development and execution of implementing strategies to meet such targets.

In the event that we are unable to implement our GHG emissions reduction and/or other climate and sustainability strategies and technologies as planned or in the event that such strategies or technologies do not perform as expected, or production mix, operating rates and conditions are not as expected, we may be unable to meet our GHG emissions reduction targets or goals or other ESG, climate and sustainability targets on the current timelines, or at all. In addition, the costs associated with achieving our GHG emissions reduction targets and other climate and sustainability targets could be significant, and could require significant capital expenditures and resources, potentially including the acquisition of technology, with the potential that the costs required to achieve our targets could differ from our original estimates and expectations, which differences may be material. The overall cost of investing in and implementing an emissions reduction strategy and technologies in furtherance of such strategies, and the resultant change in the deployment of our resources and focus, could have a material adverse effect on our business, financial condition, and results of operations. There is also a risk that some or all of the expected benefits and opportunities of achieving the various GHG emissions reduction, climate and other sustainability goals, including as a result of a transition project or technology acquisition, may fail to materialize within the anticipated time periods or at all.

Failure to achieve our emissions, climate or sustainability targets could have a negative impact on our reputation, business, cash flows, results of operations, and on our access to, and cost of, capital.

An inability to successfully manage the implementation of our new enterprise resource planning system

As part of our digital transformation, we are implementing a new enterprise resource planning ("ERP") system. This system will replace many of our existing operating and financial systems. Such an implementation is a major undertaking, both financially and from a management and personnel perspective. Any disruptions, delays or deficiencies in the design and implementation of our new ERP system could adversely affect our ability to process orders, ship products, provide services and support, send invoices and track payments, fulfill contractual obligations, or otherwise operate our business and affect our internal controls over financial reporting.

Our business and operations are subject to other general and ongoing risks, most of which are outside our control which could have a material adverse effect on our business, financial condition, results of operations, cash flows, value of our common shares and debt securities and, in certain cases, our reputation

Adverse weather conditions and/or seasonality may impact demand for our products or delay grower purchases

Our business and our customers are impacted by weather patterns and conditions including storms, floods, heat waves, droughts and other events. Adverse conditions, including as a result of climate change, that can delay or intermittently disrupt fieldwork during the planting and growing seasons may cause agricultural customers to use different forms of crop nutrients and crop protection products, which may adversely affect demand for the forms of products that we sell, or may impede growers from applying our crop nutrients and crop protection products until the following growing season or in some cases not at all, resulting in lower demand for our products and reduced revenues.

We face the significant risk and cost of continuing to carry inventory should our customers' activities be curtailed during their normal application seasons. We must manufacture and distribute product throughout the year in order to meet peak season demand, as well as react quickly to unexpected changes in weather patterns that affect demand. Weather can also have an adverse effect on crop yields, which could lower the income of growers and impair their ability to purchase our crop nutrients, crop protection, and seed products and services. Adverse weather conditions could also impact transportation of fertilizer, which could disrupt our ability to deliver our products to our customers and growers on a timely basis. As a result, our quarterly financial results may vary significantly from one year to the next due to weather-related shifts in planting schedules and purchasing patterns, and losses due to adverse weather conditions in one quarter may not be recovered in the following season.

Additionally, our business is seasonal and varies based on several factors, including application rates, weather, soil conditions and crop mix. Growers tend to apply crop nutrients during short application periods, such as in the spring, before planting, and in the fall after harvest. As a result, the strongest demand for our products typically occurs during the spring and fall seasons. In contrast, we and other crop nutrient producers generally produce our products throughout the year, and, as a result, we generally build inventories during the low demand periods of the year to provide timely product availability during the peak sales seasons.

If sales significantly differ from our projections, our profitability, inventory levels, working capital, or liquidity may be negatively impacted. The degree of seasonality of our business can change significantly from year to year due to global weather patterns, conditions in the agriculture industry and other factors.

We may be subject to labor disruptions or disputes

A significant portion of our workforce is unionized or otherwise governed by collective bargaining or similar agreements. Five of our 13 collective bargaining agreements are subject to expiry and renegotiation in 2024. We have three collective bargaining agreements that remain under renegotiation. We are therefore subject to the possibility of organized labor disruptions. Adverse labor relations or contract negotiations that do not result in an agreement could result in strikes or slowdowns or impose additional costs to resolve these disruptions may negatively impact our ability to produce or sell our products and/or cost of production. These disruptions may also impact our ability to recruit and retain personnel and could negatively affect our financial performance.

Canpotex may be dissolved or its ability to operate impaired

Canpotex is the offshore marketing, transportation and distribution company we rely on to deliver our potash to customers outside Canada and the US. Unexpected changes in laws or regulations, market or economic conditions, our (or our venture partner's) business, or other unexpected developments could threaten the existence or effectiveness of Canpotex. In any of those circumstances, a trusted potash brand could be lost and our access to key offshore markets negatively impacted resulting in a less efficient logistics system, decreased sales, higher costs or lower net earnings from offshore sales.

We are exposed to various market risks that may impact our operating results

We are exposed to various market factors that may impact our operating results, including: changes in the price of, or ability to source, raw materials and energy, which could, among other things, impact our gross margins and profitability; commodity price volatility, including the possibility of asset impairment as a result thereof; currency volatility and devaluation risk, including as a result of the translation of foreign subsidiaries' financial statements to US dollars for consolidation at the Nutrien level; and fluctuations in interest rates, which could negatively impact our financial results given our use of floating rate debt, floating rate credit facilities and commercial paper, as well as the refinancing of long-term debt and anticipated future financing needs. We seek to manage a portion of the risks relating to changes in commodity prices and foreign currency exchange rates by using derivative instruments; however, such instruments may be ineffective in fully mitigating such risks.

Changes in the price of raw materials and energy required to produce our products, including natural gas, which is the principal raw material used to manufacture our nitrogen products and a significant energy source in the potash milling and mining process, could have a material impact on our business. The price of raw materials and energy can fluctuate widely for a variety of reasons, including changes in availability because of additional capacity or limited availability due to curtailments, regulatory changes, including changes related to production of certain raw materials or energy sources, or other operating problems. Other external factors beyond our control can also cause volatility in raw materials prices, including, without limitation, general economic conditions, including inflationary pressures, the level of business activity in the industries that use our products, weather conditions and forecasts, competitors' actions, trade sanctions, international events, such as the conflict in the Middle East and the current war between Ukraine and Russia, lingering impacts from the COVID-19 pandemic, and governmental regulation in the US and abroad. Because most of our products are commodities or derived from commodities, there can be no assurance that we will be able to recover increases in the price of such raw materials through an increase in the selling price of our related crop nutrient products. Conversely, when the market prices for these raw materials rapidly decrease, the selling prices for related crop nutrients can fall more rapidly than we are able to consume our raw material inventory that we purchased or committed to purchase at higher prices. As a result, our costs may not fall as rapidly as the selling prices of our products. Until we are able to consume the higher-priced raw materials, our gross margins and profitability may be adversely affected.

We generally benefit from relatively low North American natural gas prices, which can vary significantly compared to the price for natural gas in Europe and Asia. Significantly lower natural gas prices in Europe and/or Asia may give our competitors in those regions an advantage, which could, in turn, decrease international and domestic product prices and reduce our margins. In addition, higher natural gas prices, particularly in North America, during a period of low crop input selling prices could adversely affect our results of operations.

There is also a risk to production at our various facilities due to concerns over the availability of natural gas supplies. Nitrogen facilities in Argentina and Trinidad have all experienced supply strains or curtailments. Continued or increased natural gas shortages may result in reduced production available for sale and higher production costs per tonne.

We may be unable to access capital on a cost-effective or timely basis

We rely on access to debt capital markets to finance our day-to-day and long-term operations. Access to and cost of capital may be affected by factors not specific to Nutrien, such as adverse conditions in the credit markets, general and industry-specific market and economic conditions and interest rate fluctuations. Our access to and cost of capital will also be dependent on our short- and long-term credit ratings, which are determined by, among other things, the level and quality of our earnings and our ability to meet financial obligations. A credit rating downgrade could potentially limit our access to private and public credit markets and increase the costs of borrowing under our existing credit facilities. A downgrade could also limit our access to short-term debt markets and increase the cost of borrowing in the short and long-term debt markets. Inability to access capital on a cost-effective or timely basis may result in a loss of liquidity, an increase in the cost of capital or inability to execute on value-added transactions requiring significant capital, including our Nutrien Financial product offerings. Our reputation and financial performance may be impacted from being associated with carbon intensive activities and/or concerns regarding the contribution of our operations to climate change, which could include a reduction in investor confidence and constraints on our ability to access capital markets.

Our operations are exposed to counterparty risk

We are exposed to the risks associated with counterparty performance, including credit risk and performance risk. We extend trade credit and guarantee the financing for some of our growers and customers to purchase our products (and, in some cases, for extended periods of time). We may experience material financial losses in the event of customer payment default for our products or services (including Nutrien Financial) and/or financial derivative transactions. Increases in the prices of crop nutrients may exacerbate this risk.

We may incur non-cash charges affecting our consolidated financial statements if our assets or goodwill become impaired

We have significant investments in long-lived assets to be held and used and goodwill, and continually review the carrying amount of these assets for recoverability, considering changes in market conditions and if other events or circumstances indicate that their carrying amount may not be recoverable. If our long-lived assets or goodwill are determined to be impaired in the future, we may be required to record non-cash charges in our consolidated statement of earnings during the period in which the impairment is determined, which could be significant and have an adverse effect on our results of operations. We have, in the past, and may in the future, be required to write down the value of our goodwill or other long-lived assets, and such future writedowns could be material. See Notes 13 and 14 of the 2023 Consolidated Financial Statements for further information related to writedowns in 2023.

We also carry our inventories at the lower of cost and net realizable value. A decrease in forecasted prices of key production inputs could result in a writedown of our inventory, when the carrying amount exceeds net realizable value. Periods of a prolonged elevated commodity price environment increase the potential that prices could subsequently decrease rapidly. Other factors that could impact our estimates of net realizable value include inventory levels, global nutrient capacities, crop price trends, climate change initiatives and changes in regulations and standards employed. Any such writedown could have an adverse effect on our results of operations and the value of our assets.

We are subject to legal proceedings, the outcome of which may affect our business

We are, and may in the future be, involved in legal and regulatory proceedings, including matters arising from our activities or activities of predecessor companies, including climate-related activities. The outcome of these matters may be difficult to assess or quantify, and such matters may not be resolved in our favor. Such matters could result in unfavorable outcomes, including fines, sanctions, assessments of additional taxes (including interest and penalties), and other monetary damages against us or our directors, officers or employees. The defense of such matters may also be costly and time consuming and could divert the attention of management and key personnel from our operations. We may also be subject to adverse publicity associated with such matters, regardless of whether such allegations are valid or whether we are ultimately found liable.

Our insurance coverage may not adequately cover our losses

Nutrien maintains various insurance policies, including property, business interruption and liability insurance policies, but we are not fully insured against all potential hazards, perils and/or risks pertaining to our business. As a result, we may incur significant liability for which our insurance may not fully compensate or for which we may not have coverage, which could have a material adverse effect on our business, financial condition, results of operations and cash flows. Insurance policies are generally renewed on an annual basis and are subject to various deductibles, exclusions and conditions that could limit the nature of indemnification available to us. Insurance market conditions can change our premiums, limits, self-retentions and/or deductibles for certain insurance policies, and in some instances, the availability of some insurance coverage may be reduced or become unavailable entirely. Many factors are taken into consideration that could lead us to decide to increase our self-retentions or reduce, or possibly eliminate, coverage for certain hazards and risks.

Our reported mineral reserves and mineral resources are only estimates

Our mineral reserves have been estimated in accordance with National Instrument 43-101 – *Standards of Disclosure for Mineral Projects* ("NI 43-101") as required by Canadian securities regulatory authorities, and the Canadian Institute of Mining, Metallurgy and Petroleum Classification System and our mineral reserve disclosure is not required to adhere to US requirements. The estimated mineral reserves and mineral resources may not be recovered or may not be recovered at the rates estimated. There are varying levels of certainty of the mineral reserves and mineral resources estimates, depending on sampling and geophysical imaging and, consequently, these estimates may not be representative of actual resources. Mineral reserves and mineral resources estimates may require revision (either up or down) based on new data. Further, market fluctuations in the price of potash, as well as increased production costs or reduced recovery rates (including due to policy, legal, technological, market and societal responses to climate change), may render certain mineral reserves and mineral resources uneconomic and may ultimately result in a restatement of estimated resources and/or reserves.

5.12 Mineral Projects

See "Schedule B – Mineral Projects" for information regarding our Allan, Cory, Lanigan, Rocanville and Vanscoy Potash operations.

6 - Dividends

The declaration, amount and payment date of any dividend by Nutrien is at the discretion of the Board and will depend on numerous factors, including compliance with applicable laws and the financial performance, debt obligations, working capital requirements and future capital requirements of Nutrien and its subsidiaries. See "5 – Description of the Business – 5.11 Risk Factors". Other than pursuant to applicable corporate law, there is currently no restriction that could prevent Nutrien from paying dividends on the common shares.

Dividends declared by Nutrien for the years ended December 31 were as follows:

2023	3	2022		2021	
	Per Common		Per Common		Per Common
Date Declared	Share	Date Declared	Share	Date Declared	Share
February 15, 2023	0.53	February 16, 2022	0.48	February 17, 2021	0.46
May 10, 2023	0.53	May 18, 2022	0.48	May 17, 2021	0.46
August 2, 2023	0.53	August 4, 2022	0.48	August 9, 2021	0.46
November 1, 2023	0.53	November 3, 2022	0.48	November 1, 2021	0.46
Total	2.12	Total	1.92	Total	1.84

7 - Description of Capital Structure

7.1 General Description of Capital Structure

Authorized Capital

The authorized share capital of Nutrien consists of an unlimited number of common shares and an unlimited number of preferred shares issuable in series.

As at February 22, 2024, 494,563,180 common shares were issued and outstanding and no preferred shares were issued or outstanding. The following is a general description of the material rights, privileges, restrictions and conditions attached to the common shares and the preferred shares.

Common Shares

Each common share entitles the holder to: (i) vote at all meetings of holders of common shares (except meetings at which only holders of a specified class or series of shares of Nutrien are entitled to vote as provided in the CBCA) and to one vote for each common share held on all polls taken at such meetings; (ii) receive, subject to the rights of the holders of another class of shares of Nutrien, any dividend declared by the Board from time to time, in their absolute discretion, in accordance with applicable law; and (iii) receive, subject to the rights of holders of another class or series of shares of Nutrien, the remaining property of Nutrien on the liquidation, dissolution or winding up of Nutrien or any other distribution of the assets of Nutrien for the purposes of winding up its affairs, whether

voluntary or involuntary. There are no pre-emptive or conversion rights attaching to the common shares and the common shares are not subject to redemption. All common shares currently outstanding and to be outstanding upon exercise of outstanding options and other securities, as applicable, are, or will be, fully paid and non-assessable.

Our by-laws provide for certain rights of holders of our common shares in accordance with the provisions of the CBCA. Such by-laws may be amended either by a majority vote of the holders of common shares or by a majority vote of the Board. Any amendment of the by-laws by action of the Board must be submitted to the next meeting of our shareholders whereupon the by-law amendment must be confirmed, confirmed as amended or rejected by a majority vote of the shareholders voting on such matter.

Preferred Shares

The preferred shares may at any time and from time to time be issued in one or more series with the designation, rights, privileges, restrictions and conditions attaching to each series of the preferred shares to be determined by the Board.

The preferred shares of each series rank on a parity with the preferred shares of every other series, and are entitled to preference over the common shares and any other shares of the Company ranking junior to the preferred shares, with respect to (i) the payment of dividends; (ii) the distribution of property in the event of the liquidation, dissolution or winding up of Nutrien; and (iii) such other preferences as may be determined by the Board.

Except as specifically provided in the rights, privileges, restrictions and conditions attaching to any series of preferred shares and except as provided by the CBCA, the holders of preferred shares are not entitled to receive notice of or attend any meeting of the shareholders of the Company or to vote at any such meeting for any purpose.

The provisions attaching to the preferred shares as a class may be added to, changed or removed, and the Board may create shares ranking prior to the preferred shares, only with the approval of the holders of the preferred shares as a class, any such approval to be given by the holders of not less than $66^{2}/_{3}$ percent of the preferred shares in writing by the registered holders of the preferred shares or by resolution at a meeting of such holders.

7.2 Constraints

There are no constraints imposed on the ownership of Nutrien's securities to ensure that the Company has a required level of Canadian ownership.

7.3 Debt Ratings

The following information relating to Nutrien's credit ratings is provided as it relates to Nutrien's financing costs, liquidity and operations and to satisfy disclosure requirements under applicable Canadian securities rules. Our ability to access reasonably priced debt in the capital markets is dependent, in part, on the quality of our credit ratings. We continue to maintain investment-grade credit ratings for our long-term debt. A downgrade of the credit rating of our long-term debt could increase the interest rates applicable to future borrowings.

Commercial paper markets are normally a source of same-day cash for the Company. Our access to the US commercial paper market primarily depends on maintaining our current short-term credit ratings as well as general conditions in the money markets.

Credit ratings are intended to provide investors with an independent measure of credit quality of an issue of securities. A credit rating is not a recommendation to buy, sell or hold securities and does not address the market price or suitability of a specific security for a particular investor. Such ratings may be subject to revision or withdrawal at any time by the respective credit rating agency and each rating should be evaluated independently of any other rating.

The following table sets out ratings the Company has received in respect of its outstanding debt securities from the ratings agencies as at the date of this AIF. The Company has paid each of S&P Global Ratings ("S&P") and Moody's Investors Service, Inc. ("Moody's") their customary fees in connection with the provision of the following ratings. The Company has not made any payments to S&P or Moody's in the past two years for services unrelated to the provision of such ratings.

	S&P Rating	Moody's Rating
Nutrien senior notes	BBB	Baa2
US\$ commercial paper	A-2	P-2
Ratings outlook	Stable	Stable

S&P 1

The BBB rating assigned by S&P is the fourth highest rating of S&P's 10 rating categories for long-term debt, which range from AAA to D. Issues of debt securities rated BBB are judged by S&P to exhibit adequate protection parameters. However, adverse economic conditions or changing circumstances are more likely to weaken the obligor's capacity to meet its financial commitments on the obligation. The ratings from AA to CCC may be modified by the addition of a plus (+) or minus (-) sign to show relative standing within the major rating categories.

The A-2 rating assigned by S&P is the second highest rating of S&P's six rating categories for short-term debt, which range from A-1 to D. A short-term obligation rated A-2 is somewhat more susceptible to the adverse effects of changes in circumstances and economic conditions than obligations in higher rating categories. However, the obligor's capacity to meet its financial commitments on the obligation is satisfactory.

S&P's stable outlook on Nutrien's credit ratings means that the ratings are not likely to change (generally up to two years).

Moody's 2

The Baa2 rating assigned by Moody's is the fourth highest rating of Moody's nine rating categories for long-term debt, which range from Aaa to C. Moody's appends numerical modifiers from one to three on its long-term debt ratings from Aa to Caa to indicate where the obligation ranks within a particular ranking category, with the two modifier indicating a mid-range ranking. A modifier of one indicates that the obligation ranks on the higher end of its generic rating category and a modifier of three indicates that the obligation ranks on the lower end of its generic rating category. Obligations rated Baa are defined by Moody's as being subject to moderate credit risk. They are considered medium-grade and as such may possess speculative characteristics.

The P-2 rating assigned by Moody's is the second highest rating of Moody's four rating categories for short-term debt, which range from P-1 to NP. Issuers rated P-2 are defined by Moody's as having a strong ability to repay short-term debt obligations.

Moody's stable outlook on Nutrien's credit ratings indicates a low likelihood of a rating change over the medium term.

8 - Market for Securities

8.1 Trading Price and Volume

During 2023, Nutrien's common shares traded on the TSX and the New York Stock Exchange ("NYSE") under the symbol "NTR".

The following table sets out the trading price range and volume of our common shares traded on the TSX and the NYSE for 2023 on a monthly basis:

	TSX			NYSE		
	High Price	Low Price		High Price	Low Price	
Month (2023)	(CAD\$)	(CAD\$)	Volume	(US\$)	(US\$)	Volume
January	110.85	96.10	27,377,823	83.09	71.01	40,868,109
February	113.32	99.87	25,127,544	85.16	73.88	43,822,072
March	113.27	97.28	29,771,449	83.29	70.68	53,347,014
April	101.31	91.08	19,336,659	75.29	67.52	32,179,549
May	94.88	71.17	30,709,804	70.07	52.35	80,770,111
June	80.85	70.69	39,941,286	61.32	52.23	61,127,004
July	91.15	77.38	31,757,965	69.12	57.91	40,331,298
August	92.48	80.93	21,042,139	69.09	59.65	44,533,915
September	89.37	82.86	19,801,385	65.69	61.39	26,670,625
October	85.48	74.25	21,663,283	62.53	53.51	39,842,159
November	79.97	72.03	19,719,988	58.48	52.54	38,879,305
December	77.21	70.89	33,329,100	57.87	52.29	30,560,300

¹ S&P Global Ratings Definition - June 9, 2023

² Moody's Rating Symbols and Definitions – November 9, 2023

8.2 Prior Sales

During the year ended December 31, 2023, Nutrien issued 683,814 common shares pursuant to the exercise and settlement of outstanding share-based compensation award plans. During 2023, Nutrien also granted 301,168 stock options under its stock option plan. See Note 5 and Note 23 of the 2023 Consolidated Financial Statements for additional information.

9 – Escrowed Securities and Securities Subject to Contractual Restriction on Transfer

To the knowledge of the Company, none of the securities of the Company are subject to escrow or contractual restriction on transfer.

10 - Directors and Officers

10.1 Name, Occupation and Security Holding

Information is given below with respect to each of the directors and executive officers of Nutrien as at February 22, 2024, including names, municipality and country of residence, all current positions held with the Company, present principal occupation, and principal occupations held during the last five years. The current directors will hold office until the earlier of their resignation, our next annual meeting of shareholders at which directors are elected or until such directors cease to hold office pursuant to the provisions of the CBCA.

Directors (Name and Municipality of Residence) Russell K. Girling Calgary, Alberta, Canada	Director Since 2018 (Agrium from	Present Principal Occupation or Employment Corporate Director; Board Chair of Nutrien	Prior Principal Occupation or Employment Within the Preceding Five Years President and Chief Executive Officer of TransCanada PipeLines
	2006 – 2017)		Limited and TC Energy Corporation, a North American energy infrastructure company
Christopher M. Burley ^{1, 3} Calgary, Alberta, Canada	2018 (PotashCorp from 2009 – 2017)	Corporate Director	Corporate Director
Maura J. Clark ^{2,4} New York, New York, US	2018 (Agrium from 2016 – 2017)	Corporate Director	Corporate Director
Michael J. Hennigan ^{1, 3} Malvern, Pennsylvania, US	2022	President and Chief Executive Officer of Marathon Petroleum Corporation, a petroleum refining, natural gas processing and midstream logistics company Chairman, President and Chief Executive Officer of MPLX LP, a natural gas processing and midstream logistics company	Same as present
Miranda C. Hubbs ^{2, 4} Toronto, Ontario, Canada	2018 (Agrium from 2016 – 2017)	Corporate Director	Corporate Director
Raj S. Kushwaha ^{2, 4} Sunny Isles Beach, Florida, US	2021	Managing Director, Co-Head of Value Creation, and Chief Digital Officer of Warburg Pincus LLC, a private equity firm specializing in consumer, energy, financial services, health care, industrial and business services, real estate, and technology	Same as present

Directors (Name and Municipality of Residence) Alice D. Laberge 1, 3	Director Since	Present Principal Occupation or Employment Corporate Director	Prior Principal Occupation or Employment Within the Preceding Five Years Corporate Director
Vancouver, British Columbia, Canada	(PotashCorp from 2003 – 2017)		·
Consuelo E. Madere 1, 3 Destin, Florida, US	2018 (PotashCorp from 2014 – 2017)	President and Founder of Proven Leader Advisory, LLC, a management consulting and executive coaching firm	Same as present
Keith G. Martell ⁴ Eagle Ridge, Saskatchewan, Canada	2018 (PotashCorp from 2007 – 2017)	Corporate Director	President & Chief Executive Officer and Director of First Nations Bank of Canada, a Canadian chartered bank providing financial services with a focus on the Indigenous marketplace
Aaron W. Regent ^{1, 2} Toronto, Ontario, Canada	2018 (PotashCorp from 2015 – 2017)	Corporate Director; Founder, Chairman and Chief Executive Officer of Magris Performance Materials Inc., a leading North American-based industrial mineral company	Same as present
Nelson L.C. Silva ^{2, 4} Rio de Janeiro, Brazil	2020	Corporate Director; Advisor to Appian Capital Advisory LLP, investment advisor in the mining sector and HSB Solomon Associates LLC, strategic advisor in the energy sector	Executive Director of Petróleo Brasileiro S.A., an oil and gas exploration and production company; Chief Executive Officer of BG Group, a multinational oil and gas company in South America
Ken A. Seitz Saskatoon, Saskatchewan, Canada	2022	President and Chief Executive Officer of Nutrien	Interim President and Chief Executive Officer, Nutrien; Executive Vice President and Chief Executive Officer of Potash, Nutrien; President and Chief Executive Officer, Canpotex Limited, a potash exporter

¹ Member of the Audit Committee of the Board.

	Present Position With the	
Executive Officers	Company and Principal	Prior Principal Occupation or Employment
(Name and Municipality of Residence)	Occupation	Within the Preceding Five Years
Ken A. Seitz	President and Chief Executive	Interim President and Chief Executive Officer,
Saskatoon, Saskatchewan, Canada	Officer of Nutrien	Nutrien; Executive Vice President and Chief
		Executive Officer of Potash, Nutrien;
		President and Chief Executive Officer,
		Canpotex Limited, a potash exporter
Noralee M. Bradley	Executive Vice President, External	Executive Vice President and Chief Legal
Saskatoon, Saskatchewan, Canada	Affairs and Chief Sustainability and	Officer, Nutrien; Partner at Blake, Cassels &
	Legal Officer of Nutrien	Graydon LLP, a law firm

Member of the Human Resources & Compensation Committee of the Board.
 Member of the Corporate Governance & Nominating Committee of the Board.
 Member of the Safety & Sustainability Committee of the Board.

	Present Position With the	
Executive Officers	Company and Principal	Prior Principal Occupation or Employment
(Name and Municipality of Residence)	Occupation	Within the Preceding Five Years
Pedro Farah	Executive Vice President and	Executive Vice President and Treasurer,
Calgary, Alberta, Canada	Chief Financial Officer of Nutrien	Walmart, a multinational retail company; Executive Vice President and Chief Financial Officer, Walmex (Walmart Mexico), a multinational retail chain
Andrew J. Kelemen Calgary, Alberta, Canada	Executive Vice President, Corporate Development and Chief Strategy Officer of Nutrien	Senior Vice President, Corporate Development, Nutrien; Vice President, Corporate Development, Nutrien
Chris P. Reynolds Saskatoon, Saskatchewan, Canada	Executive Vice President and President, Potash of Nutrien	Senior Vice President, Sales, Nutrien
Jeff M. Tarsi Collierville, Tennessee, US	Executive Vice President and President, Global Retail of Nutrien	Interim President of Global Retail, Nutrien; Senior Vice President of North American Retail Operations, Nutrien
Mark Thompson Calgary, Alberta, Canada	Executive Vice President, Chief Commercial Officer of Nutrien	Executive Vice President, Chief Strategy and Sustainability Officer, Vice President of Business Development, Vice President of Strategy, Special Assistant to CEO, Nutrien
Trevor Williams Calgary, Alberta, Canada	Executive Vice President and President, Nitrogen and Phosphate of Nutrien	Interim Executive Vice President, Nitrogen and Phosphate, Senior Vice President of Nitrogen Operations, Nutrien

As at February 22, 2024, the directors and executive officers of the Company as a group beneficially own, or control or direct, directly or indirectly, 174,588 common shares, representing less than 1 percent of the outstanding common shares.

10.2 Cease Trade Orders, Bankruptcies, Penalties or Sanctions

Except as set out below, no director or executive officer of the Company was, as at the date hereof, or has been within the 10 years prior to the date hereof, a director, chief executive officer or chief financial officer of any company (including the Company), that:

- was subject to an order that was issued while the director or executive officer was acting in the capacity as director, chief executive officer or chief financial officer; or
- was subject to an order that was issued after the director or executive officer ceased to be a director, chief executive officer or chief financial officer and which resulted from an event that occurred while that person was acting in the capacity as director, chief executive officer or chief financial officer.

For the purposes of the above, "order" means any of the following that was in effect for a period of more than 30 consecutive days:

- a cease trade order;
- an order similar to a cease trade order; or
- an order that denied the relevant company access to an exemption under securities legislation.

Except as set out below, no director or executive officer of the Company, or, to the knowledge of the Company, a shareholder holding a sufficient number of securities of the Company to affect materially the control of the Company:

- was, as at the date hereof, or has been within the 10 years prior to the date hereof, a director or executive officer of any company
 (including the Company) that, while that person was acting in that capacity, or within a year of that person ceasing to act in that
 capacity, became bankrupt, made a proposal under any legislation relating to bankruptcy or insolvency, or was subject to or
 instituted any proceedings, arrangement, or compromise with creditors, or had a receiver, receiver manager or trustee appointed
 to hold its assets; or
- has, within the 10 years before the date hereof, become bankrupt, made a proposal under any legislation relating to bankruptcy
 or insolvency, or become subject to or instituted any proceedings, arrangement, or compromise with creditors, or had a receiver,
 receiver manager, or trustee appointed to hold the assets of the director, executive officer, or shareholder.

Mr. Burley was a director of Parallel Energy Inc., administrator of Parallel Energy Trust ("Parallel Energy"). On or about November 9, 2015, Parallel Energy and its affiliates filed applications for protection under the *Companies' Creditors Arrangement Act* (Canada) and voluntary petitions for relief under Chapter 11 of Title 12 of the *United States Bankruptcy Code*. Mr. Burley resigned from the board of directors of Parallel Energy Inc. on March 1, 2016. The Canadian entities of Parallel Energy each filed an assignment in bankruptcy under the *Bankruptcy and Insolvency Act* (Canada) on March 3, 2016. In 2015, securities regulators for the Provinces of Alberta, British Columbia, Manitoba, Ontario, Quebec, Saskatchewan and New Brunswick issued cease trade orders in relation to the securities of Parallel Energy for the failure by Parallel Energy to timely file financial statements as well as related continuous disclosure documents. Such cease trade orders continue to be in effect. The TSX delisted the trust units and debentures of Parallel Energy at the close of business on December 11, 2015.

Ms. Clark served as a director of Garrett Motion Inc. ("Garrett Motion") from October 2018 until April 2021. In September 2020, Garrett Motion and certain affiliated companies filed voluntary petitions under Chapter 11 of Title 11 of the *United States Bankruptcy Code*. On April 30, 2021, Garrett Motion announced that it emerged from its Chapter 11 proceedings, successfully completing the restructuring process and implementing the plan of reorganization that was confirmed by the United States Bankruptcy Court for the Southern District of New York on April 23, 2021.

Mr. Reynolds served as a director of Fertilizantes Heringer S.A. ("Heringer") from August 2015 until December 2018. In February 2019, Heringer filed for judicial reorganization in the Judicial District of the City of Paulínia in the State of São Paulo, Brazil, pursuant to article 51 et seq. of Law No. 11, 101/05 and article 122, sole paragraph, of the Brazilian Corporations Law. On December 14, 2019, the judicial reorganization was approved at the General Meeting of Creditors and ratified by the competent court on February 14, 2020.

Mr. Seitz served as a director of Source Energy Services Ltd. ("Source") from May 2018 until January 2022. In December 2020, Source effected a recapitalization transaction pursuant to a plan of arrangement under the CBCA. The recapitalization transaction extended the maturity under Source's credit facility and exchanged approximately CAD\$158 million aggregate principal amount of senior secured notes of Source for approximately CAD\$142 million aggregate principal amount of senior secured first lien notes and new common shares in the capital of Source. Concurrently with the completion of the arrangement, Source entered into a new term loan facility and amended its existing credit facility to enable Source to access incremental liquidity under its existing credit facility.

10.3 Conflicts of Interest

To the knowledge of the Company, no director or officer of the Company has an existing or potential material conflict of interest with the Company or any of its subsidiaries, joint ventures or partnerships.

11 - Promoters

During the two most recently completed financial years, no person or company has been a promoter of the Company.

12 - Legal Proceedings and Regulatory Actions

The information under "Environmental Remediation, Legal and Other Matters" of Note 29 of the 2023 Consolidated Financial Statements is incorporated by reference herein. For further discussion of certain environmental proceedings in which we are involved, see "Environmental Matters" above.

In the normal course of business, we are also, and expect to continue to be, subject to various other legal proceedings being brought against us. While it is not possible to determine the ultimate outcome of such actions at this time, and inherent uncertainties exist in predicting such outcomes, it is the Company's belief that the ultimate resolution of any such known actions is not reasonably likely to have a material adverse effect on its consolidated financial statements.

13 – Interest of Management and Others in Material Transactions

To the knowledge of the Company, as of the date hereof, there were no directors or executive officers of the Company or any associate or affiliate of a director or executive officer of the Company with any material interest, direct or indirect, in any transaction within the three most recently completed financial years or during the current financial year that has materially affected or is reasonably expected to materially affect the Company.

14 - Transfer Agent, Registrar and Trustees

The registrar and transfer agent for the common shares is Computershare Trust Company of Canada, at its principal offices in Calgary, Alberta and Toronto, Ontario.

The trustee for the Nutrien senior notes is the Bank of New York Mellon at its principal offices in New York, New York.

15 - Material Contracts

To the knowledge of the Company, no material contracts require disclosure under this section.

16 – Interests of Experts

KPMG LLP are the auditors of the Company and have confirmed with respect to the Company that they are independent within the meaning of the relevant rules and related interpretations prescribed by the relevant professional bodies in Canada and any applicable legislation or regulations and also that they are independent accountants with respect to the Company under all relevant US professional and regulatory standards.

Craig Funk, B.Sc., M.Sc., P.Eng., P.Geo., an employee of the Company, supervised the preparation of and approved the Allan Technical Report, the Cory Technical Report, the Lanigan Technical Report, the Rocanville Technical Report and the Vanscoy Technical Report (each, as defined in Schedule B hereto). Mr. Funk is a qualified person under NI 43-101 and has reviewed and approved the scientific and technical information in this AIF relating to the Company's Allan, Cory, Lanigan, Rocanville and Vanscoy Potash operations. Mr. Funk holds beneficially, directly or indirectly, less than 1 percent of any class of the securities of the Company or of any of the Company's associates or affiliates.

17 – Audit Committee

17.1 Audit Committee Charter

Attached, as Schedule A, is the charter for the Company's Audit Committee.

17.2 Composition of the Audit Committee

Members of the Audit Committee are Christopher M. Burley, Michael J. Hennigan, Alice D. Laberge, Consuelo E. Madere, and Aaron W. Regent as of February 22, 2024.

Each member of the Audit Committee is independent and financially literate (as such terms are defined in National Instrument 52-110 – *Audit Committees* ("NI 52-110")).

17.3 Relevant Education and Experience of Members of the Audit Committee

Name	
(Director Since)	Principal Occupation and Full Biography
Mr. Christopher Burley (2018)	Mr. Burley is a Corporate Director and former Managing Director and Vice
(Audit Committee Chair)	Chairman of Energy for Merrill Lynch Canada Inc., an investment banking
B.Sc., M.B.A. Calgary, Alberta, Canada	firm. He has over two decades of experience in the investment banking industry. He is the Chairman and a director of WestJet Airlines Ltd., an Onex

Name	
(Director Since)	Principal Occupation and Full Biography
Other Public Directorships	Corporation portfolio company. Mr. Burley is a graduate of the Institute of
None	Corporate Directors' Education Program and holds the ICD.D designation. Mr. Burley is a Member of the Institute of Corporate Directors Climate Strategy Advisory Board for the Canadian Chapter Zero of the WEF Climate Governance Initiative. Mr. Burley holds a Bachelor of Science with a Certificate of Honours Standing (Geophysics) and a Master of Business Administration from Western University.
Michael J. Hennigan B. Sc. Malvern, Pennsylvania, US Other Public Directorships Marathon Petroleum Corporation, energy company (NYSE) MPLX GP LLC, operates midstream energy infrastructure and provides fuel distribution services (NYSE)	Mr. Hennigan is the President and Chief Executive Officer of Marathon Petroleum Corporation, a petroleum refining, natural gas processing and midstream logistics company. He is also President and Chief Executive Officer of MPLX LP, a natural gas processing and midstream logistics company. He currently serves as a director of Marathon Petroleum Corporation and as chair of the board of MPLX LP. He previously served as a director of Andeavor Logistics, Energy Transfer Partners, Niska Gas Storage Management, Philadelphia Energy Solutions and SunCoke Energy. Mr. Hennigan holds a Bachelor of Science (Chemical Engineering) from Drexel University.
Ms. Alice D. Laberge (2018) B.Sc., M.B.A. Vancouver, British Columbia, Canada Other Public Directorships Mercer International Inc., producer of pulp and wood products and producer of bioelectricity (NASDAQ) Russel Metals Inc., a North American metal distribution company (TSX)	Ms. Laberge is a Corporate Director and the former President and Chief Executive Officer of Fincentric Corporation, a global provider of software solutions to financial institutions. She was previously Senior Vice President and Chief Financial Officer of MacMillan Bloedel Ltd. She is a director of Mercer International Inc., Russel Metals Inc., and the Canadian Public Accountability Board and has served as a director of the Royal Bank of Canada and the B.C. Cancer Foundation. She was recognized as a Fellow of the Institute of Corporate Directors in 2015. Ms. Laberge holds a Bachelor of Science (Speech Pathology & Audiology) from the University of Alberta and a Master of Business Administration from the University of British Columbia.
Consuelo E. Madere B. Sc., M.B.A. Destin, Florida, US Other Public Directorships Lindsay Corporation, producer of irrigation, transportation, and industrial solutions (NYSE)	Ms. Madere is the President and Founder of Proven Leader Advisory, LLC, a management consulting and executive coaching firm. Previously she was Vice President, Global Vegetables and Asia Commercial of Monsanto Company, a global provider of agricultural products. Ms. Madere serves as a director of Lindsay Corporation, and previously served as a director of S&W Seed Company. She is a member of the Dean's Advisory Council at the Louisiana State University Ogden Honors College. Ms. Madere is a National Association of Corporate Directors Board Leadership Fellow and holds a CERT certificate in Cybersecurity Oversight from the Software Engineering Institute at Carnegie Mellon University. She holds a Bachelor of Science (Chemical Engineering) from Louisiana State University and a Master of Business Administration from the University of Iowa.
Mr. Aaron W. Regent (2018) B.A., FCPA, FCA Toronto, Ontario, Canada Other Public Directorships The Bank of Nova Scotia, a global financial services provider (TSX, NYSE)	Mr. Regent is Corporate Director and the Founder, Chairman and Chief Executive Officer of Magris Performance Materials Inc., a leading North American-based materials company. Mr. Regent serves as the Chair of the Board of The Bank of Nova Scotia, serves on the board of the C.D. Howe Institute and previously served on the board of Plan International Canada. Mr. Regent has acquired significant financial experience during his time as President and Chief Executive Officer of Barrick Gold Corporation, Senior Managing Partner of Brookfield Asset Management and Co-Chief Executive Officer of the Brookfield Infrastructure Group, and as President and Chief Executive Officer of Falconbridge Limited. He is the Co-Founder and Co-Chair of Mining4Life and previously served as the Governor of the Trails Youth Initiatives. Mr. Regent is a member of the Chartered Professional Accountants of Ontario and holds a Bachelor of Arts (History) from the University of Western Ontario.

17.4 Pre-approval Policies and Procedures

Subject to applicable law, the Audit Committee is directly responsible for the compensation and oversight of the work of the independent auditors. The Audit Committee has implemented a Pre-Approval Policy for Audit and Non-Audit Services for the pre-approval of services performed by our auditors. The objective of this policy is to specify the scope of services permitted to be performed by our auditors and to ensure that the independence of our auditors is not compromised through engaging them for other services. Subject to the Pre-Approval Policy for Audit and Non-Audit Services, our Audit Committee pre-approves all audit services and all permitted non-audit services provided by our external auditors and reviews on a quarterly basis whether these services affect our external auditors' independence.

17.5 External Auditor Service Fees (by Category)

The following table sets out the fees billed to us by KPMG LLP and its affiliates for professional services rendered during the years ended December 31, 2023 and 2022. During these years, KPMG LLP was the Company's only external auditor.

Category	Years Ended D	ecember 31 (US\$)
	2023	2022
Audit fees 1	9,481,000	8,777,700
Audit-related fees ²	26,600	63,000
Tax fees ³	74,900	168,100
All other fees ⁴	305,100	302,400
Total	9,887,600	9,311,200

¹ For professional services rendered by KPMG LLP for the integrated audit of the Company's annual financial statements; interim review of the Company's interim financial statements; audits of statutory financial statements of controlled subsidiaries; attestation reporting in accordance with US environmental agency requirements and consent orders; attestation reports over various Nutrien subsidiaries for the purpose of compliance with local laws and regulations; and work in connection with the renewal of the Company's base shelf prospectus in 2022 and the Company's prospectus supplements relating to the offering of senior notes in 2023 and 2022.

18 - Additional Information

Additional financial information is provided in the 2023 Consolidated Financial Statements and the 2023 MD&A. Further, additional information, including historical information concerning directors' and officers' remuneration and indebtedness, principal holders of the Company's securities, and securities authorized for issuance under equity compensation plans is contained in the Company's management proxy circular dated March 20, 2023 for the annual meeting of the Company's shareholders that took place on May 10, 2023.

Additional information related to Nutrien may be found on the Company's website at nutrien.com, on SEDAR+ at sedarplus.ca and on EDGAR at sec.gov.

² For professional services rendered by KPMG LLP for translation of the Company's annual and quarterly reports in 2022, and in connection with an audit of the financial statements of an employee benefit plan.

³ For professional services rendered by KPMG LLP for assistance with preparation and review of tax fillings and related tax compliance, assistance in responding to tax authorities, including reassessments and tax audits, routine tax planning and advice. These amounts include fees paid to KPMG LLP specifically for tax compliance and preparation services rendered in 2023 and 2022 in the amounts of \$74,900 and \$168,100, respectively.

⁴ For professional services rendered by KPMG LLP for the preparation of subsidiary statutory financial statements; an assessment of the Company's cyber security maturity level against a globally recognized framework and a readiness assessment for assurance over the Company's report on cyber security key performance indicators, and subsequent assurance engagements over key performance indicators; and limited assurance over Nutrien Scope 1 and 2 GHG emissions.

Schedule A

AUDIT COMMITTEE CHARTER

Introduction

The Audit Committee (the "Committee") is established to assist the Board of Directors (the "Board") of Nutrien Ltd. (the "Corporation") in fulfilling its oversight responsibilities with respect to the accounting and financial reporting processes and the reviews and audits of the financial statements of the Corporation by monitoring: (i) the quality and integrity of the Corporation's financial statements and related disclosures; (ii) the Corporation's internal control systems, including internal control over financial reporting; (iii) specific elements of risk management (including all financial risk management) delegated to the Committee by the Board; (iv) the qualifications and independence of the external auditors of the Corporation and the recommendation of the Board to shareholders for the appointment thereof; (v) the performance of the Corporation's Internal

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Audit function and external auditors; and (vi) the Corporation's compliance with legal and regulatory requirements with respect to matters within the Committee's mandate and the Code of Conduct. Such oversight is all with a view to supporting the long-term viability of the Corporation, including its consideration of stakeholders relevant to the creation and preservation of long-term value.

Management is responsible for preparing the consolidated financial statements of the Corporation and the external auditors are responsible for auditing those financial statements. Nothing in this Charter is intended, or may be construed, to impose on any member of the Committee a standard of care or diligence that is in any way more onerous or extensive than the standard to which all directors are subject under applicable laws or regulatory requirements.

In this Charter, "Committee Chair" means the Chair of the Committee; "Chair" means the Board Chair; and "CEO" means the Chief Executive Officer of the Corporation.

Composition

The members of the Committee shall be appointed by the Board, on the recommendation of the Corporate Governance & Nominating Committee. Any member of the Committee may be removed or replaced at any time by the Board and shall cease to be a member of the Committee on ceasing to be a director. Subject to the above, each member of the Committee shall serve as a member of the Committee until the next annual meeting of shareholders after his or her appointment.

The Committee shall consist of not less than three and not more than eight members. Each Committee member shall be independent according to the independence standards set out in the Corporate Governance Framework, including applicable independence requirements of stock exchanges on which the Corporation is listed and securities laws, rules and regulations.

Each member of the Committee shall be "financially literate", and at least one member of the Committee shall be designated as the "audit committee financial expert" and shall have "accounting or related financial management expertise", in each case, as such qualification is interpreted by the Board in its business judgment and as defined by applicable requirements of stock exchanges on which the Corporation is listed and securities laws, rules and regulations.

No member of the Committee shall serve on the audit committees of more than two other publicly listed companies, unless the Board determines that such simultaneous service would not impair the ability of such member to effectively serve on the Committee and discloses such determination in the Corporation's annual management proxy circular.

The Board may fill vacancies on the Committee from among its members, on the recommendation of the Corporate Governance & Nominating Committee. If and whenever a vacancy shall exist on the Committee, the remaining members may exercise all its powers so long as a quorum remains in place.

The members of the Committee shall be entitled to receive such remuneration for acting as members of the Committee as the Board may from time to time determine.

The Corporate Secretary or such other person acceptable to the members shall act as Secretary to the Committee.

Committee Chair

The Board, upon recommendation of the Corporate Governance & Nominating Committee, shall appoint a Committee Chair. The Committee Chair may be removed and replaced by the Board.

If the Committee Chair is not present at any meeting of the Committee, one of the other members of the Committee present at the meeting shall be chosen by the Committee to chair the meeting.

The Committee Chair shall have the duties and responsibilities set forth in Annex 1 which is incorporated by reference herein.

Quorum

Fifty percent of the members of the Committee shall constitute a quorum. All determinations of the Committee shall be made by a majority of its members present at a meeting duly called and held.

Meetings

All Committee members are expected to attend, in person or via teleconference, video conference, or other electronic communications facilities that permits all participants to communicate adequately, all meetings of the Committee, to come prepared for the meeting, and to remain in attendance for the duration of the meeting. The powers of the Committee may be exercised by resolution in writing signed by all members of the Committee who would have been entitled to vote on that resolution at a meeting of the Committee.

The Committee may invite such directors, officers, employees and external advisors of the Corporation as it may see fit from time to time to attend meetings of the Committee and assist in the discussion and consideration of the duties of the Committee.

The time at which and place where the meetings of the Committee shall be held, and the calling of meetings and the procedure at such meetings, shall be determined by the Committee in accordance with the Corporation's articles, by-laws, and applicable laws.

The Committee shall meet at each Committee meeting alone without Management present, and shall meet separately with applicable senior Management, the external auditors, and the Chief Audit Executive.

Responsibilities

The Committee, to the extent required by applicable laws or rules, or otherwise considered by the Committee to be necessary or appropriate, is responsible for the oversight in respect of the Corporation's financial disclosure and accounting practices, internal control systems (including internal control over financial reporting), specific elements of risk management (including all financial risk management) delegated to the Committee by the Board, the external auditors, the Internal Audit function, and legal and regulatory compliance with respect to matters within the Committee's mandate and the Code of Conduct.

To fulfill its duties and responsibilities, the Committee shall:

Financial Disclosure and Accounting

- meet with Management and the external auditors to review and discuss, and to recommend to the Board for approval prior
 to public disclosure, the annual audited financial statements and the specific disclosures in "Management's Discussion and
 Analysis of Financial Condition and Results of Operations" ("MD&A");
- meet with Management and the external auditors to review and discuss, and to approve prior to public disclosure, the
 unaudited quarterly financial statements, including the specific disclosures in the MD&A and quarterly interim reports
 (including annual guidance);
- review and discuss with Management and the external auditors prior to public disclosure each press release that contains significant financial information respecting the Corporation or contains estimates or information regarding the Corporation's future financial performance or prospects; and the type and presentation of information to be included in such press releases (in particular, the use of "pro forma" or "adjusted" information that is not in accordance with International Financial Reporting Standards as issued by the International Accounting Standards Board ("IFRS")):
- review and discuss with Management and the external auditors, and recommend to the Board for approval prior to public disclosure:
 - o the portions of the Annual Information Form containing significant information within the Committee's mandate;

- the portions of the Corporation's annual management proxy circular containing significant information within the Committee's mandate;
- all financial statements included in prospectuses or other offering documents;
- all prospectuses and all documents which may be incorporated by reference in a prospectus, other than any pricing supplement issued pursuant to a shelf prospectus; and
- significant financial information, including "pro forma" or "adjusted" non-IFRS information respecting the Corporation contained in a publicly disclosed document (other than routine investor relations or similar communications);
- review and discuss with Management and the external auditors (including those of the following that are contained in any report of the external auditors): (1) any analyses prepared by Management and/or the external auditors setting forth significant financial reporting issues and judgments made in connection with the preparation of the financial statements, including analyses of the effects of alternative accounting principles in accordance with IFRS; (2) all critical accounting policies and practices to be used by the Corporation in preparing its financial statements; (3) all material alternative treatments of financial information within IFRS that have been discussed with Management, ramifications of the use of these alternative treatments, and the treatment preferred by the external auditors; and (4) other material communications between the external auditors and Management, such as any Management Representation Letter or Schedule of Unadjusted Differences:
- review and discuss with Management and the external auditors significant accounting and reporting issues and understand
 their impact on the financial statements, including complex or unusual transactions and areas involving significant
 assumptions; major issues regarding accounting principles and financial statement presentation, including any significant
 changes in the Corporation's selection or application of accounting principles, and the effect of regulatory and accounting
 initiatives, as well as off balance sheet structures, on the financial statements of the Corporation, any significant issues as
 to the adequacy of the Corporation's internal controls and any special audit steps adopted in light of significant control
 deficiencies;
- review and discuss with Management and the external auditors non-IFRS financial measures, as well as financial information and earnings guidance provided externally, including to analysts and rating agencies;
- review with Management and the external auditors the results of the annual audit, including any restrictions on the scope of
 the external auditors' activities or on access to requested information, and the resolution of any significant disagreements
 with Management;
- review Management's Internal Control Report and the related attestation by the external auditors of the Corporation's internal controls over financial reporting; and
- review with Management and the external auditors and, if necessary, legal counsel, any litigation, claim or contingency, including tax assessments, or material reports or inquiries from regulators or governmental agencies, that could have a material effect upon the financial position of the Corporation, and the manner in which these matters have been disclosed in the financial statements.

Internal Controls

- assess the effectiveness of the Corporation's internal control systems, including internal control over financial reporting and information technology strategy, risks and, in consultation with the Safety & Security Committee, cyber security controls and related matters;
- understand the scope of Internal Audit's and the external auditors' review of internal controls over financial reporting, and obtain reports on significant findings and recommendations, together with Management's responses;
- annually review the Corporation's disclosure controls and procedures, including any significant deficiencies in or material non-compliance with such controls and procedures:
- receive and review reports from the Corporation's Disclosure Committee and periodically review the Corporation's Disclosure Policy;
- review and discuss with the CEO and Chief Financial Officer their disclosures made during their annual and quarterly
 certification processes about significant deficiencies or material weaknesses in the design or operation of internal controls
 or any fraud that involves Management or other employees who have a significant role in the Corporation's internal controls;

- discuss with Management the Corporation's material financial risk exposures and the steps Management has taken to monitor and control such exposures; and
- review executive officers' expenses and aircraft usage reports and periodically report to the Corporate Governance & Nominating Committee thereon, as appropriate.

Risk Management

- regularly review with Management the Corporation's material risks within the Committee's scope (i.e., the principal financial
 risks facing the Corporation and any other risks specifically delegated to the Committee by the Board), the assessment of
 those risks, and how they are being managed or mitigated, including, reviewing the mid-year update report from the
 Corporation's Enterprise Risk Management team; and
- monitor and review at least annually Management processes and controls designed to identify, assess, monitor and manage the risks referred to above.

Internal Audit

- review with Management, the external auditors, and Internal Audit (and if appropriate, approve) the Charter, plans, activities, and organizational structure of the Internal Audit function;
- review the significant findings prepared by Internal Audit and recommendations issued by any external party relating to Internal Audit issues, together with Management's response thereto;
- take reasonable steps to ensure there are no unjustified or inappropriate restrictions or limitations on the functioning of the Internal Audit function, or on access to requested information;
- review the adequacy of the resources of Internal Audit to satisfy itself as to the effectiveness, objectivity and independence of the Internal Audit function;
- review and concur on the appointment, replacement, or dismissal of the Chief Audit Executive (or such individual in a similar capacity or position who performs a substantially similar function); and
- review the performance and effectiveness of the Internal Audit function.

External Audit

- meet with the external auditors prior to the annual audit to review (and if appropriate, approve) the proposed audit scope, approach and staffing (including coordination of audit efforts with Internal Audit) and budget;
- · monitor the progress of the annual audit;
- obtain feedback about the conduct of the external audit from key employees engaged in the process;
- when applicable, review the annual post-audit letter from the external auditors and Management's response thereto and follow-up in respect of any identified weakness;
- at least annually, obtain and review a report by the external auditors describing: (i) the external auditors' internal quality
 control procedures, and (ii) any material issues raised by the most recent internal quality control review, or peer review, of
 the external auditors, or by any inquiry or investigation by governmental or professional authorities, within the preceding five
 years, respecting one or more independent audits carried out by the external auditors, and any steps taken to deal with any
 such issues;
- annually receive from the external auditors, and review, a report on items required to be communicated to the Committee by applicable rules and regulations;
- annually review the independence of the external auditors, including their formal written statement of independence
 delineating all relationships between the external auditors and the Corporation, review all such relationships, and consider
 applicable auditor independence standards and take any decisions and actions that are necessary and appropriate where
 the Committee becomes aware of the potential for a conflict (or the reasonable perception of a conflict) between the interests
 of the external auditors and the interests of the Corporation;

- annually evaluate the performance of the external auditors, including the lead audit partner, and report to the Board on its
 conclusions regarding the external auditors and recommendation to shareholders for appointment of the external auditors;
- investigate and consider whether any action is required if the external auditors resign;
- ensure the rotation of the lead audit partner having primary responsibility for the audit as required by applicable law; and
- set clear hiring policies for partners, employees and former partners and employees of the present and former external
 auditors.

Oversight in Respect of Audit and Non-Audit Services

- subject to confirmation by the external auditors of their compliance with Canadian and US regulatory requirements, be directly
 responsible (subject to Board confirmation) for the appointment of the external auditors for the purpose of preparing or issuing
 any audit report or performing other audit, review or attest services for the Corporation, such appointment to be confirmed
 by the Corporation's shareholders at each annual meeting;
- be directly responsible (subject to Board confirmation) for the approval of fees to be paid to the external auditors for audit services, and shall pre-approve the retention of the external auditors for any permitted non-audit service to the Corporation;
- be directly responsible for the retention and oversight of the services of the external auditors (including resolution of disagreements between Management and the external auditors regarding financial reporting) for the purpose of preparing or issuing an audit report or performing other audit, review or attest services for the Corporation (with the external auditors reporting directly to, and being accountable to, the Committee);
- have the sole authority to pre-approve all audit services and all permitted non-audit services to the Corporation, provided that the Committee need not approve in advance non-audit services where:
 - the aggregate amount of all such non-audit services provided to the Corporation constitutes not more than 5% of the total amount of fees paid by the Corporation to the external auditors during the fiscal year in which the non-audit services are provided; and
 - o such services were not recognized by the Corporation at the time of the engagement to be non-audit services; and
 - such services are promptly brought to the attention of the Committee and approved prior to the completion of the audit by the Committee or by one or more members of the Committee to whom authority to grant such approvals has been delegated by the Committee.
- have the sole authority to delegate to one or more designated members of the Committee the authority to grant pre-approvals
 required by this section, provided that the decision of any member to whom authority is delegated to pre-approve a service
 shall be presented to the Committee at its next scheduled meeting. If the Committee approves an audit service within the
 scope of the engagement of the external auditors, such audit service shall be deemed to have been pre-approved for
 purposes of this section.

Compliance

- establish procedures for: (i) the receipt, retention and treatment of complaints received by the Corporation regarding
 accounting, internal accounting controls or auditing matters; and (ii) the confidential, anonymous submission by employees
 of the Corporation of concerns regarding questionable accounting or auditing matters, and institute and oversee any special
 investigations as needed;
- provide the Chief Integrity Officer the authority to communicate directly to the Committee about actual and alleged violations
 of the Code of Conduct, its associated policies, or the law, including any matters involving criminal or potential criminal
 conduct;
- review with the Chief Integrity Officer or Chief Legal Officer (or such individual in a similar capacity or position who performs
 a substantially similar function) the Corporation's significant compliance policies and any legal matters or reports or inquiries
 received from regulators or governmental agencies that could have a material effect upon the financial position of the
 Corporation and that are not subject to the oversight of another committee of the Board;
- review the effectiveness of the system for monitoring compliance with laws and regulations (including those with respect to anti-fraud and anti-bribery) and the results of Management's investigations and follow-up of any instances of non-compliance

that could have a material effect upon the financial position of the Corporation and that are not subject to the oversight of another committee of the Board:

- review the process for communicating the Corporation's Code of Conduct to the Corporation's personnel and monitoring compliance therewith; and
- report annually to shareholders describing the Committee's composition, responsibilities and how they were discharged, and
 any other information required by applicable legislation or regulation, including approval of non-audit services.

The Committee may perform such other functions as the Committee deems necessary or appropriate for the performance of its responsibilities and duties.

Delegation

The Committee may from time to time delegate any of its responsibilities to a subcommittee comprised of one or more members of the Committee and shall also carry out such other duties that may be delegated to it by the Board from time to time.

Other Matters

At the Corporation's expense, the Committee may retain, when it considers it necessary or desirable, outside consultants and advisors to advise the Committee independently on any matter. The Committee shall have the sole authority to retain and terminate any such consultants or advisors, including sole authority to establish or review a consultant's or advisor's fees and other retention terms, and to direct the payment thereof.

The Corporation will provide appropriate funding, as determined by the Committee, for payment of ordinary administrative expenses of the Committee that are necessary or appropriate in carrying out its duties.

Authority to make minor technical amendments to this Charter is hereby delegated to the Corporate Secretary, who will report any amendments to the Committee at its next meeting.

The Committee's performance and effectiveness shall be evaluated annually, in accordance with a process developed by the Corporate Governance & Nominating Committee and approved by the Board. The results of that evaluation, including progress on adopted recommendations, shall be reported to the Corporate Governance & Nominating Committee and to the Board.

On an annual basis, this Committee Charter shall be reviewed and assessed, and any proposed changes shall be submitted to the Corporate Governance & Nominating Committee for review and recommendation, and then to the Board for approval.

Date of Last Revision: November 3, 2022

AUDIT COMMITTEE CHAIR POSITION DESCRIPTION

The Committee Chair shall provide overall leadership to enhance the effectiveness of the Committee and be responsible to:

- set the "tone" for the Committee and its members to foster ethical and responsible decision making, appropriate oversight of Management and appropriate corporate governance practices;
- encourage free and open discussion at meetings of the Committee;
- schedule and set the agenda for Committee meetings with input from other Committee members, the Chair and Management as appropriate;
- facilitate the timely, accurate and proper flow of information to and from the Committee, and arrange sufficient time during Committee meetings to fully discuss agenda items;
- report to the Board following each meeting of the Committee on the activities, findings and any recommendations of the Committee;
- provide advice and counsel to the senior members of Management in the areas covered by the Committee's mandate;
- proactively encourage training and education of the Committee and its members in areas falling within the Committee's mandate;
- take reasonable steps to ensure that Committee members understand the boundaries between the Committee and Management responsibilities;
- organize the Committee to function independently of Management and take reasonable steps to ensure that the Committee
 has an opportunity at each of its meetings to meet in separate closed sessions without Management present, and with or
 without internal personnel or external advisors as needed or appropriate;
- lead the Committee in monitoring and evaluating, in consultation with the Corporate Governance & Nominating Committee, the performance and effectiveness of the Committee as a whole and the contributions to the Committee of individual directors; and
- take all other reasonable steps to ensure that the responsibilities and duties of the Committee, as outlined in its Charter, are well understood by the Committee members and executed as effectively as possible.

SCHEDULE B MINERAL PROJECTS

For the purposes of NI 43-101, our Allan, Cory, Lanigan, Rocanville and Vanscoy potash operations are the properties material to Nutrien.

a) Material Potash Operations

Certain scientific and technical information regarding our:

- a) Allan potash operations is based on the technical report titled "National Instrument 43-101 Technical Report on Allan Potash Deposit (KL 112R B), Saskatchewan, Canada" dated effective December 31, 2021 ("Allan Technical Report"),
- b) Cory potash operations is based on the technical report titled "National Instrument 43-101 Technical Report on Cory Potash Deposit (KL 103C), Saskatchewan, Canada" dated effective December 31, 2020 ("Cory Technical Report"),
- Lanigan potash operations is based on the technical report titled "National Instrument 43-101 Technical Report on Lanigan Potash Deposit (KLSA 001 C), Saskatchewan, Canada" dated effective December 31, 2021 ("Lanigan Technical Report"),
- d) Rocanville potash operations is based on the technical report titled "National Instrument 43-101 Technical Report on Rocanville Potash Deposit (KL 305), Saskatchewan, Canada" dated effective December 31, 2021 (the "Rocanville Technical Report"), and
- e) Vanscoy potash operations is based on the technical report titled "National Instrument 43-101 Technical Report on Vanscoy Potash Deposit (KL 114C) Saskatchewan, Canada" dated effective December 31, 2020 ("Vanscoy Technical Report").

Collectively, these reports comprise the "Technical Reports" for the Nutrien mines. They were prepared under the supervision of Craig Funk, B.Sc., M.Sc., P.Eng., P.Geo., who is a "qualified person" as defined in NI 43-101. The Technical Reports have been filed with the securities regulatory authorities in each of the provinces of Canada and furnished to the SEC. Portions of the following information are based on assumptions, qualifications and procedures that are not fully described herein. References should be made to the full text of the Technical Reports, as applicable.

i) Mineral Rights

Mineral rights at all mines in Saskatchewan are mined pursuant to mining leases with the Province of Saskatchewan, Canada ("Crown"), and with non-Crown ("Freehold") mineral rights owners. Crown mineral rights are governed by *The Subsurface Mineral Tenure Regulations, 2015* (Saskatchewan), and Crown leases are approved and issued by the Saskatchewan Ministry of Energy and Resources ("MER").

ii) History

Ten potash mines were brought into production in Saskatchewan between 1962 to 1970. With over 50 years of production history, most potash mines have contracted or expanded production in response to the demand for potash. No new mines had been commissioned until 2017. Most of the operating mines are conventional underground mines, while three operate using solution mining methods.

Exploration drilling for potash at each of the mines was carried out in the 1950s and 1960s. Potash production began at Allan, Cory and Lanigan in 1968, at Vanscoy in 1969, and at Rocanville in 1970. With the exception of the 1970 inflow which halted Vanscoy production for two years, each of the mines have run on a continuous basis other than short-term shutdowns taken for inventory management purposes, occasional plant maintenance and construction work, or other outages that are typical for operations of this nature.

The mines were built by numerous companies in the 1960's (a) the Allan mine was built by a consortium of companies (U.S. Borax, Homestake Potash Company, and Swift Canadian Company), (b) the Cory mine was built by a company called Duval Sulphur and Potash Company, (c) the Lanigan mine was built by a company named Alwinsal Potash of Canada Ltd., a consortium of German and French mining and fertilizer companies, (d) the Rocanville mine was built by a company called Sylvite of Canada Ltd. (a division of Hudson's Bay Mining and Smelting Ltd.), and (e) the Vanscoy mine was built by Cominco Ltd. (formerly the Consolidated Mining and Smelting Company of Canada Limited).

PotashCorp acquired (a) a 60% ownership of the Allan mine in 1978 (through purchase of the U.S. Borax and Swift Canadian interests), became the operator of the mine in 1981, and in 1990, PotashCorp purchased the remaining 40% interest, (b) the Cory mine in 1976, (c) the Lanigan mine in 1976; and (d) the Rocanville mine in 1977. With respect to the Vanscoy mine, in 1993, Cominco Fertilizers Ltd. was formed as a separate entity from Cominco Ltd. In 1995 all Cominco Ltd., involvement in Cominco Fertilizers Ltd., who built the Vanscoy mine, ceased and shares were transferred to the new entity, Agrium.

Major refurbishments and expansions of the Allan and Cory mines were completed in 2013, of the Vanscoy mine in 2015, and of the Rocanville mine in 2016, increasing nameplate capacity to (a) 4.0 million tonnes for the Allan mine, (b) 3.0 million tonnes for the Cory mine, (c) 3.0 million tonnes for the Vanscoy mine, and (d) 6.5 million tonnes for the Rocanville mine of finished potash products per year. Mill rehabilitation, mine expansion and hoist improvement projects were completed at Lanigan mine between 2005 and 2010. As of December 31, 2023, the annual nameplate capacity at Lanigan is 3.8 million tonnes. The expansion construction at each of these mines was carried out without significant disruption to existing potash production from the site.

At Allan, Cory and Lanigan, potash ore has been mined and concentrated to produce saleable quantities of high-grade finished potash products since 1968, at Vanscoy since 1969 and at Rocanville since 1970.

iii) Geological Setting, Mineralization and Deposit Types

Geological Setting and Mineralization

Much of southern Saskatchewan is underlain by the Prairie Evaporite Formation, a layered sequence of salts and anhydrite which contains the world's largest deposits of potash. The potash extracted from the predominantly sylvinite ore has its main use as a fertilizer.

The 100 m to 200 m thick Prairie Evaporite Formation is overlain by approximately 400 m of Devonian carbonates followed by 100 m of Cretaceous sandstone, 400 m of Cretaceous shales, and 100m of recent Pleistocene glacial tills to surface. The Prairie Evaporite Formation is underlain by Devonian carbonates. The Phanerozoic stratigraphy of Saskatchewan is remarkable in that units are flat-lying and relatively undisturbed over very large areas.

Potash mineralization in this region of Saskatchewan is predominantly sylvinite, which is comprised mainly of the minerals sylvite ("KCI") and halite or rock salt ("NaCI"), with trace carnallite ("KMgCl₃ 6H₂O") and minor water insolubles. Potash fertilizer is concentrated, nearly pure KCl (i.e., greater than 95% pure KCl), but ore grade is traditionally reported on a % K₂O equivalent basis. The "% K₂O equivalent" gives a standard measurement of the nutrient value of different potassium-bearing rocks and minerals. To convert from % K₂O equivalent tonnes to actual KCl tonnes, multiply by 1.58. Ore grade for the mines are summarized as follows.

Summary of Ore Grade Measurements:

Mine		Average C from Dr		Average Ore Grade from Mill Feed ²	_	Ore Grade ne Samples ³
		%K₂O Equivalent	Number of Drillholes	%K₂O Equivalent	%K₂O Equivalent	Number of Samples
Allan (A	Zone)	26.7%	18	25.12%	24.7%	7,584
Cory (A	Zone)	25.5%	11	22.82%	21.9%	5,762
Lanigan	(A Zone) (B Zone)	25.4% 23.2%	20	24.66%	24.3% 20.2%	3,692 21,479
Rocar	ville	22.3%	32	21.80%	23.1%	49,580
Vanscoy	(A Zone)	24.9%	36	25.24%	24.2%	3,173

Deposit Type

There are three mineable potash members within the Prairie Evaporite Formation of Saskatchewan. Stratigraphically highest to lowest, these members are: Patience Lake, Belle Plaine and Esterhazy. Potash mineralization at each mine is flat-lying and continuous and the mines operate as conventional underground potash mines.

Potash mined at Allan, Cory, Lanigan, and Vanscoy mines lies within the Patience Lake Member of Prairie Evaporite Formation. There are two potash seams named A Zone and B Zone within this member. At present, only the A Zone is being mined in the Allan, Cory, and Vanscoy areas; some test mining has been carried out in the B Zone, but no mining is done in this layer at present. Both the zones are being mined at Lanigan. Neither the Esterhazy nor the White Bear Potash Members are present in the Allan, Cory, and Vanscoy area; the Belle Plaine Potash Member is not well-developed, and therefore is not mined. The Belle Plaine

¹ Average ore grade from drillholes within respective Crown Subsurface Mineral Leases per the Technical Reports, as applicable.

² The listed potash ore grade from the mill feed was the average measured over the last three years (2021, 2022, 2023).

³ Average ore grade from in-mine samples per the Technical Reports, as applicable.

potash member is present at Lanigan but is not economically mineable, while the Esterhazy Member is poorly developed and not economically mineable.

Potash mined at the Rocanville mine lies within the Esterhazy Member of the Prairie Evaporite Formation. The Patience Lake Member potash beds are not present in the Rocanville Area. The Belle Plaine and White Bear Members are present, but not conventionally mineable in the Rocanville area. The potash zone at Rocanville is approximately 2.4 meters thick and occurs near the top of the Prairie Evaporite Formation. Salt cover from the ore zone to overlying units is approximately 30 meters.

Potash mineralization at Allan, Cory Lanigan, and Vanscoy occurs at about 1,000 meters depth below surface. The A Zone is approximately 3.35 meters thick and occurs near the top of the Prairie Evaporite Formation salts. Salt cover from the ore zone to overlying units is approximately 12 meters in the Allan, Cory, and Vanscoy areas. Salt cover from the top of the A Zone mining horizon at Lanigan is approximately 7 meters thick, while the salt cover from the top of the B Zone mining horizon to overlying units is approximately 14 meters thick.

iv) Exploration

Before the mines were established, all exploration consisted of drilling from surface and analysis of core from these drillholes. Since mining began, exploration drilling has been infrequent at the mines. In most of southern Saskatchewan, potash mineralization is in place wherever Prairie Evaporite Formation salts exist, are flat-lying and are undisturbed. Since the surface seismic exploration method is an excellent tool for mapping the top and bottom of Prairie Evaporite salts, this has become the main potash exploration tool in any existing Saskatchewan Subsurface (potash) Mineral Lease. Historically, 2D seismic, and now the more accurate and full coverage 3D seismic methods are used to map continuity and extent of potash beds in flat-lying potash deposits. Seismic data are relied upon to identify collapse structures that must be avoided in the process of mine development since these structures can act as conduits for water ingress to the mine. Isolation pillars or mining buffer zones are left around these anomalous features. This practice reduces the overall mining extraction ratio, but the risk of inflow to mine workings is effectively mitigated. Localized and relatively small ore zone anomalies do occur and typically are not discernable (or imaged) by the seismic method and so are not mapped. When such anomalies are encountered they are dealt with in the normal course of mining and extraction through these anomalous areas is typically minimized. Where there is uncertainty in seismic interpretations, drilling is often used to confirm or refine the seismic interpretation.

Seismic coverage is outlined in the Technical Reports.

Experience has shown that the potash mining zone is continuous when seismic data are undisturbed and flat-lying. Surface seismic data are generally collected years in advance of mining. Any area recognized as seismically unusual is identified early and mine plans are adjusted to avoid these regions.

v) Drilling

The primary objective of the original potash test holes drilled in the 1950s and 1960s at each of the operations was to sample the potash horizons and establish basic mining parameters. The seismic method was still novel and crude at that time and as such, 2D seismic surveys were done sparingly, so the drillhole information was relied upon heavily to evaluate potash deposits. Test holes would penetrate the evaporite section with a hydrocarbon-based drilling mud (oil-based or diesel fuel) to protect the potash mineralization from dissolution. Basic geophysical well-logs were acquired, and in many cases, drill stem tests were run on the Dawson Bay Formation to help assess water-make mine inflow potential of the caprock. Core samples from the targeted potash intersections were split or quartered, crushed, and analysed to establish potash ore grades.

Due to the remarkably consistent mineralogy and continuity of the resource as experienced through decades of mine production, very little potash exploration drilling has been done at our operations since the 1960s. Since each drillhole is a potential conduit for subsurface groundwater from overlying (or underlying) water-bearing formations into future mine workings, it is also important to minimize the amount of cross-formational drilling. Every potash test drillhole from surface sterilizes potash mineralization as a safety pillar is required around every surface drillhole once underground mining commences.

All new drilling efforts have targeted areas of geological uncertainty. Although normal ore zone conditions may occur in the tested areas, they are not targeted specifically. For this reason, and because ore grade is known to be locally variable, assays from drilling are not relied upon for ore grade estimation. Instead, grade determined from routinely collected in-mine ore zone samples are found to be most reliable. The long-term average from in-mine tends to best represent the larger ore zone as it normalizes local variability.

vi) Sampling Preparation, Analyses and Security

Basic Approach

Drillhole sampling methods have remained essentially the same over the years. Short segments of core usually about 0.3 meters (1 foot) in length are labeled based on visible changes in mineralization, and sometimes based on fixed intervals. Each segment of core is then split using some type of rock or masonry saw. The split portion of core is then bagged and labeled and sentto a laboratory for chemical analysis. Historical potash samples remain stored at the Subsurface Geological Laboratory (Regina, Saskatchewan) of the Saskatchewan Ministry of Energy & Resources.

All in-mine samples from our operations were analysed in the mill laboratories using analysis techniques that were up to date for the era in which the sample was collected.

Regarding quality assurance for analytical results of in-mine samples, the Company participates in the Canpotex Producer Sample Exchange Program using methods developed by the Saskatchewan Potash Producers Association ("SPPA"). The Sample Exchange Program monitors the accuracy of analytical procedures used in its labs. In the early 1970s, the SPPA initiated a round-robin Sample Exchange Program, the purpose of which was to assist the potash laboratories in developing a high level of confidence in analytical results. This program, now named the *Canpotex Producer Sample Exchange Program using SPPA Methods* (CPSEP) has continued up to the present. Current participants include all Canpotex member potash mine site labs, the Nutrien Pilot Plant Lab, and independent third-party surveyor labs. The CPSEP provides participants with three unknown potash samples for analysis quarterly. Results for the unknown sample analysis are correlated by an independent agency that distributes statistical analysis and a summary report to all participants. Completed exchange program samples can be used for control standards as required in QA/QC sections of standard analytical procedures.

The Nutrien Pilot Plant is secured in the same way as modern office buildings are secured. Authorized personnel have access and visitors are accompanied by staff. No special security measures are taken beyond that. Currently, no external laboratory certification is held by the Nutrien Pilot Plant. On occasion, product quality check samples are sent to the Saskatchewan Research Council, a fully certified analytical facility.

In the opinion of the authors of the Technical Reports, the sample preparation, security, and analytical procedures are acceptable, are consistent with industry- standard practices, and are adequate for Mineral Resource and Reserve estimation purposes.

Assay Data Verification

The original 1950s, 1960s, and 1970s drillhole assays were studied by independent consultants chosen by the well licensee or potash operator at the time. Original assay results for core samples from historical drillholes were taken as accurate in these studies as there is no way to reliably reanalyze these samples. Most of the remaining core in storage have long since deteriorated to the point where they are not usable. More recent drillhole assay results have been analyzed by Company staff.

Ore grades of in-mine samples are measured in-house at the Allan, Cory, Lanigan, Rocanville and Vanscoy mines laboratory by Company staff using modern, standard chemical analysis tools and procedures; an independent agency does not verify these results. However, check sampling through the CPSEP does occur.

It should be noted that assay results from historical drillholes match in-mine sample results reasonably well – within 1% – even though drillhole sample spacing is much greater. This correlation is further validation of the in-mine sampling methodology. Mean mineral grade determined from in-mine samples taken over decades of mining at Allan, Cory, Lanigan, Rocanville and Vanscoy is thought to provide the most accuratemeasurement of potash grade for these mines, also providing a good basis for estimating ore grade in areas of future mining.

Exploration Data Verification

The purpose of any mineral exploration program is to determine extent, continuity, and grade of mineralization to a certain level of confidence and accuracy. Assay of physical samples (drillhole cores and/or in-mine samples) is the only way to gain information about mineral grade, but extent and continuity of mineralization are correctly determined using data collected from seismic surveys correlated with historic drilling information. To date surface seismic data collected at our mines have been analysed and verified by Company staff, at times in cooperation with an independent consultant.

Data for the mineral resource and reserve estimates for Allan, Cory, Lanigan, Rocanville and Vanscoy mines were verified by Company staff as follows:

- Review of potash assay sample information (drillholes and in-mine grade samples);
- Review of surface geophysical exploration results (3D and 2D seismic data);

- Crosscheck of mined tonnages reported by mine site technical staff with tonnages estimated from mine survey information; and
- Crosscheck of mineral resource and reserve calculations carried out by corporate technical staff.

In the opinion of the authors of the Technical Reports, this approach to data verification of potash mineral grade and surface seismic information is in accordance with generally accepted industry practice for areas adjacent and contiguous to an existing operating potash mine.

Potash Ore Density from In-Mine Mineral Grade Measurements

An estimate of in-situ rock density is used to calculate potash mineralization volumes in Mineral Resource and Reserve assessments. A common approach, and the one used by Nutrien, is to determine in-place Mineral Resource and Reserve volumes (m³), then multiply this number by in-situ bulk-rock density (tonnes / m³) to give in-place Mineral Resource and Reserve tonnes.

Well-log data from drillholes can be used to calculate bulk density if accurate and calibrated well-logs are acquired during exploration drilling. In practical terms, modern well-logs tend to meet these criteria, but historic well-logs (collected before the 1990s) do not. In Saskatchewan, almost all potash exploration drilling took place in the 1950s and 1960s, well before density logs were accurate and reliable.

Another approach, and the one used by Nutrien, is to look up density values for the minerals which constitute potash rock – values determined in a laboratory to a high degree of accuracy and published in reliable scientific journals / textbooks – then apply these densities to the bulk rock. Given that the density of each pure mineral is quantified and known, the only variable is what proportion of each mineral makes up the bulk rock. An obvious benefit of this approach is that a mean value computed on in-mine samples has a much greater confidence interval than a mean value computed from just a few drillhole assays.

The four main mineralogical components of the ore zones of Saskatchewan's Prairie Evaporite Formation with their respective mineral densities are:

<u>Mineral</u>	Density (kg / m ³)	<u>Components</u>
Halite	2,170	NaCl
Sylvite	1,990	KCI
Carnallite	1,600	$KMgCl_3 \cdot 6(H_2O)$
Insolubles	2,510 - 2,870	Anhydrite, dolomite, quartz, muscovite, and other minor mineral components (<i>Nutrien Pilot Plant, 2018</i>)

All Nutrien potash mines measure and record the in-mine % K_2O grade and insoluble content of the mined rock. Magnesium content is only measured at Lanigan and Rocanville since carnallite is sometimes a component of the ore at these two mines. From this set of measurements, density of the ore can be calculated.

The value for insoluble density is based on known densities of the constituent parts of the insoluble components of the mineralization and the average occurrence of these insoluble components, which is known from over 50 years of mining experience at each of our operations. Assuming the lowest plausible density of insolubles known for Saskatchewan potash deposits of this nature, the effect upon overall bulk-rock ore density and Mineral Resource and Reserve calculations would be negligible.

From thousands of in-mine samples taken at Allan, bulk density for the Allan A Zone has been determined to be:

```
= (halite density * % halite) + (sylvite density * % sylvite) + (insolubles density * % insolubles) = (2,170 \text{ kg} / \text{m}^3 * 58.1\%) + (1,990 \text{ kg} / \text{m}^3 * 39.3\%) + (2,510 \text{ kg} / \text{m}^3 * 2.7\%) = 2,116 \text{ kg} / \text{m}^3
```

RHO_{bulk-rock} (Allan A Zone) = 2,116 kg / m³ = 2.11 tonnes / m³

From thousands of in-mine samples taken at Vanscoy, bulk density for the Vanscoy A Zone has been determined to be:

```
= (halite density * % halite) + (sylvite density * % sylvite) + (insolubles density * % insolubles) = (2,170 \text{ kg} / \text{m}^3 * 57.3\%) + (1,990 \text{ kg} / \text{m}^3 * 38.3\%) + (2,510 \text{ kg} / \text{m}^3 * 4.4\%) = 2,110 \text{ kg} / \text{m}^3
```

RHO_{bulk-rock} (Vanscoy A Zone) = 2,110 kg / m³ = 2.12 tonnes / m³

Historical Cory in-mine mineral grade analyses did not include measurements of the insoluble content, so potash bulk-rock density is calculated using thousands of in-mine samples from the adjacent Vanscoy A Zone.

RHO_{bulk-rock} (Cory A Zone) = RHO_{bulk-rock} (Vanscoy A Zone) = 2,116 kg / m³ = 2.12 tonnes / m³

From thousands of in-mine samples taken at Lanigan, bulk density for the Lanigan A Zone has been determined to be:

```
= (halite density * % halite) + (sylvite density * % sylvite) + (insolubles density * % insolubles) + (carnallite density * % carnallite) = (2,170 \text{ kg} / \text{m}^3 * 54.64\%) + (1,990 \text{ kg} / \text{m}^3 * 38.21\%) + (2,510 \text{ kg} / \text{m}^3 * 6.12\%) + (1,600 \text{ kg} / \text{m}^3 * 1.03\%) = 2,138 \text{ kg} / \text{m}^3
```

RHO_{bulk-rock} (Lanigan A Zone) = 2,138 kg / m³ = 2.14 tonnes / m³

From thousands of in-mine samples taken at Lanigan, bulk density for the Lanigan B Zone has been determined to be:

```
= (halite density * % halite) + (sylvite density * % sylvite) + (insolubles density * % insolubles) = (2,170 \text{ kg}/\text{m}^3 \text{ * } 59.45\%) + (1,990 \text{ kg}/\text{m}^3 \text{ * } 30.77\%) + (2,870 \text{ kg}/\text{m}^3 \text{ * } 4.84\%) + (1,600 \text{ kg}/\text{m}^3 \text{ * } 4.94\%) = 2,120 \text{ kg}/\text{m}^3
```

RHO_{bulk-rock} (Lanigan B Zone) = 2,120 kg / m³ = 2.12 tonnes / m³

To date, not enough B Zone mining has been carried out at Allan, Cory and Vanscoy to permit a bulk density calculation based on in-mine grade samples. If further test mining of the B Zone at these mines are conducted in future, there may be enough samples with all constituent minerals measured to warrant a change from what is reported. It is expected that any such change would have only a minimaleffect on bulk-rock density used in tonnage calculations. Instead, we use the potash bulk-rock density calculated using thousands of in-mine grade samples from Lanigan B Zone:

```
RHO<sub>bulk-rock</sub> (Allan, Cory, Vanscoy B Zone) = RHO<sub>bulk-rock</sub> (Lanigan B Zone) = 2,120 kg / m<sup>3</sup> = 2.12 tonnes / m<sup>3</sup>
```

This estimate is considered acceptable since the B Zone at Allan, Cory and Vanscoy are the same potash seam as the Lanigan B Zone.

From thousands of in-mine samples taken at Rocanville, bulk density has been determined to be:

```
= (halite density * % halite) + (sylvite density * % sylvite) + (insolubles density * % insolubles) + (carnallite density * % carnallite) 
* % carnallite) = (2,170 \text{ kg}/\text{m3} * 57.5\%) + (1,990 \text{ kg}/\text{m3} * 35.4\%) + (2,790 \text{ kg}/\text{m3} * 1.0\%) + (1,600 \text{ kg}/\text{m3} * 6.1\%) = 2,078 \text{ kg}/\text{m3}
```

RHO_{bulk-rock} (Rocanville) = 2,078 kg / m³ = 2.08 tonnes / m³

This method is as accurate as the ore grade measurements and mineral density estimates.

vii) Mineral Resource and Mineral Reserve Estimates

Definitions of Mineral Resource

The Canadian Institute of Mining and Metallurgy and Petroleum ("CIM") has defined mineral resource in *The CIM Definition Standards for Mineral Resources and Reserves* (2014) as:

- Inferred Mineral Resource: that part of a mineral resource for which quantity and grade or quality are estimated on the basis of limited geological evidence and sampling. Geological evidence is sufficient to imply but not verify geological and grade or quality continuity.
- 2. Indicated Mineral Resource: that part of a mineral resource for which quantity, grade or quality, densities, shape and physical characteristics are estimated with sufficient confidence to allow the application of modifying factors in sufficient detail to support mine planning and evaluation of the economic viability of the deposit. Geological evidence is derived from adequately detailed and reliable exploration, sampling and testing and is sufficient to assume geological and grade quality continuity between points of observation.

3. Measured Mineral Resource: that part of a mineral resource for which quantity, grade or quality, densities, shape, and physical characteristics are estimated with confidence sufficient to allow the application of modifying factors to support detailed mine planning and final evaluation of the economic viability of the deposit. Geological evidence is derived from detailed and reliable exploration, sampling and testing and is sufficient to confirm geological and grade or quality continuity between points of observation.

CIM defines Modifying Factors as "considerations used to convert mineral resources into mineral reserves. These include, but are not restricted to, mining, processing, metallurgical, infrastructure, economic, marketing, legal, environmental, social and governmental factors."

In south-central Saskatchewan, where geological correlations are straightforward, and within a (potash) subsurface mineral lease at an operating potash mine, mineral resource categories are generally characterized by the Company as follows:

- 1. **Inferred Mineral Resource**: areas of limited exploration, such as areas that have been investigated through regional geological studies, or areas with 2D regional surface seismic coverage, little or no drilling, at some distance from underground workings, and within the applicable Crown lease.
- 2. **Indicated Mineral Resource**: areas of adequate exploration, such as areas with 3D surface seismic coverage, little or no drilling, at some distance from underground workings, and within the applicable Crown lease.
- 3. **Measured Mineral Resource**: areas of detailed, physical exploration through actual drilling or mine sampling, near existing underground workings, and within the applicable Crown lease.

Exploration information used to calculate reported Mineral Resource tonnages at each of our operations consist of both physical sampling (drillhole and in-mine) and surface seismic (2D and 3D). Based on the definitions and guidelines above, all mineral rights leased or owned by the Company, and within respective Crown Lease, are assigned to one of the three mineral resource categories. Mineral resources are reported as mineralization in-place and are exclusive of Mineral reserves.

The tonnage reported in the A Zone Measured Resource (Allan, Cory, Lanigan, and Vanscoy) is comprised of the potash that is within 1.6 km (1 mile) of a physically sampled location (i.e., drillholes or mine workings). Likewise, the tonnage reported in the Lanigan B Zone and Rocanville Measured Resource is comprised of the potash that is within 1.6 km (1 mile) of a physically sampled location (i.e., drillholes or mine workings). Also included as Measured Resource is the potash in the pillars of mined-out areas as there is the possibility of retrieving ore from the remnant mining pillars at some point in the future. An example of this is the Patience Lake mine which was successfully converted from a conventional mine to a solution mine after being lost to flooding in 1989. Since mining of remnant mining pillars is not anticipated in the near future at the Nutrien mines, in-place pillar mineralization remains as a Mineral Resource rather than a Mineral Reserve at this time.

Mineral Resource for each mine is updated when the corresponding NI43-101 Technical Report is issued. In between Technical Reports, it remains unchanged. Mineral resources are reported as mineralization in-place and are exclusive of mineral reserves. In-place tonnes were calculated for each of the Nutrien mine mineral resource categories using the following parameters.

Parameters used for Computing Resource and Reserve

Mine		Mining Height	Ore Density (tonnes / meter³)	
Allan	A Zone	3.35 meters (11 feet)	2.11	
	B Zone	3.35 meters (11 feet)	2.12	
Cory	A Zone	3.35 meters (11 feet)	2.12	
	B Zone	3.35 meters (11 feet)	2.12	
Lanigan	A Zone	3.66 meters (12 feet)	2.14	
	B Zone	4.88 meters (16 feet)	2.12	
Rocanville		2.51 meters (8.25 feet)	2.08	
Vanscoy	A Zone	3.35 meters (11 feet)	2.12	
	B Zone	3.35 meters (11 feet)	2.12	

The mineral resource per the corresponding Technical Reports are as follows:

Inferred, Indicated and Measured Mineral Resource

Mine		Inferred Mineral Resource		Indicated Mineral Resource		Measured Mineral Resource		Total Mineral Resource
		(millions of tonnes)		(millions of tonnes)		(millions of tonnes)		(millions of tonnes)
Allan	A Zone	1,164	2,333	2,533	5,078	1,183	2,890	10,301
Allali	B Zone	1,169	2,333	2,545	5,076	1,707		
Cory	A Zone	1,284	2,570 612 1,225	1,056	2,452	6.247		
Cory	B Zone	1,286	2,570	613	1,225	1,396	2,432	0,247
Lanigan	A Zone	348	808	1,458	3,384	2,299	5,211	9,403
Lanigan	B Zone	460	808	1,926	3,364	2,912		
Rocanville		90	902		1,575		17	4,494
Vanscoy	A Zone	932	1,865	1,850	3,703	1,975	4,644	10,212
Valiscoy	B Zone	933		1,853		2,669		10,212

Definitions of Mineral Reserve

CIM defined mineral reserve in The CIM Definition Standards for Mineral Resources and Reserves (2014) as:

- Probable Mineral Reserve: the economically mineable part of an indicated, and in some circumstance, a measured, mineral resource. The confidence in the modifying factors applying to a probable mineral reserve is lower than that applying to a proven mineral reserve.
- 2. **Proven Mineral Reserve**: the economically mineable part of a measured mineral resource. A proven mineral reserve implies a high degree of confidence in the modifying factors.

CIM defines Modifying Factors as "considerations used to convert Mineral Resources into Mineral Reserves. These include, but are not restricted to, mining, processing, metallurgical, infrastructure, economic, marketing, legal, environmental, social and governmental factors."

For Saskatchewan, in regions adjacent and contiguous to an operating potash mine and within a (potash) subsurface mineral lease, mineral reserve categories are characterized by the Company as follows:

- Probable Mineral Reserve: identified recoverable potash mineralization classified as a measured resource, within a 1.6 km (1 mile) radius of a sampled mine entry or exploration drillhole contiguous to mine workings, and within the applicable Crown lease.
- 2. **Proven Mineral Reserve**: identified recoverable potash mineralization classified as a measured resource, delineated on at least three sides by sampled mined entries or exploration drillholes to a maximum of 3.2 km (2 miles) apart, and within the applicable Crown lease.

Using the definitions outlined above, a portion of the Allan, Cory, Lanigan, and Vanscoy A Zone Measured Resource has been converted to Mineral Reserve. Likewise, a portion of the Lanigan B Zone Measured Resource and a portion of the Rocanville Measured Resource has been converted to Mineral Reserve. The assigned Mineral Reserve category is dependent on proximity to sampled mined entries also described above. An overall extraction ratio for each of the mines has been applied to the qualifying areas outlined as Measured Resource.

Currently at Allan, Cory, Lanigan, and Vanscoy where there are two potash ore zones, in any specific mining block, only one of the two ore zones is mined (i.e., bi-level mining is not in practice). As such, Mineral Reserve is assigned only to the ore zone that will be mined in the future so that A Zone Mineral Reserve and B Zone Mineral Reserve do not overlap. At Allan, Cory, and Vanscoy, and certain portions of Lanigan, the B Zone potash mineralization directly underlying the defined A Zone Mineral Reserve is classified as B Zone Measured Resource. In the same way, because mining occurs in both zones at Lanigan, certain portions of the A Zone potash mineralization directly underlying the defined B Zone Mineral Reserve is classified as A Zone Measured Resource.

Since an extraction ratio has been applied to each of these Mineral Reserve categories, Mineral Reserves are considered recoverable ore, and are reported as such. Note that only drillholes whose 1.6 km radii are contiguous to mine workings or the 1.6 km radius placed around mine workings are used to compute probable mineral reserve. The remaining non-contiguous drillholes remain in the measured resource category.

Mineral Reserve for each mine is updated when the corresponding NI43-101 Technical Report is issued. In between Technical Reports, annual production tonnages are subtracted from the Proven Mineral Reserve. The mineral reserves as of December 31, 2023 are as follows:

Probable and Proven Mineral Reserve

Mine		Probable Mineral Reserve (millions of tonnes)		Proven Mineral Reserve (millions of tonnes)		Total Mineral Reserve (millions of tonnes)
Allan	A Zone	244	244	94	94	338
Allali	B Zone	Nil	244	Nil	34	330
Cory	A Zone	141	141	56	56	197
Cory	B Zone	Nil	141	Nil	50	197
Lonigon	A Zone	194	432	38	117	549
Lanigan	B Zone	238		79	117	549
Rocanville		293		156		449
Vanscov	A Zone	326	326	174	174	500
valiscoy	B Zone	Nil		Nil		

viii) Capital and Operating Costs

The Allan, Cory and Lanigan mines have been in operation since 1968, the Vanscoy mine has been in operation since 1969, and the Rocanville mine has been in operation since 1970. Since then, capital expenditures were made on a regular and ongoing basis to sustain production and to expand production from time to time. All construction was carried out without significant disruption to existing potash production from the sites.

Major Refurbishment and Expansion

Mine	Year of Major Refurbishment and Expansion	Increase in Nameplate Capacity of Finished Potash Products Per Year	Description of Work Completed	
Allan	2013	4.0 million tonnes	Enhancement of hoists and shaft conveyances, major expansions of both mine and mill, improvements to loadout facilities and some infrastructure improvements.	
Cory	2013	3.0 million tonnes	Increased hoist capacity, infrastructure improvements, major expansions of mine and mill, and improvements to loadout facilities.	
Lanigan	2005 -2010	3.8 million tonnes	Mill rehabilitation, mine expansion and hoist improvement projects	
Rocanville 2013 - 2017		6.5 million tonnes	Construction of a third shaft, enhancement of hoists and shaft conveyances, major expansions of both mine and mill, improvements to loadout facilities and some infrastructure improvements.	
Vanscoy 2015		3.0 million tonnes	Increased hoist capacity, infrastructure improvements, major expansions of mine, mill, and TMA.	

ix) Exploration, Development and Production

Potash production in any given year at our potash mines is a function of many variables, so actual production in any given year can vary dramatically from tonnages produced in previous years. The mineral reserve tonnage and historic average production are used to estimate remaining mine life. The table below summarizes mine life for each Nutrien site from December 31, 2023, assuming the average mining rate seen over the past three years (potash ore mined and hoisted per year) is sustained, and that the mineral reserves remain unchanged.

Mine	Average Yearly Mining Rate	Mineral Reserve (Total)	Mine Life	
Allan	7.132 million tonnes	338	47 years	
Cory	5.648 million tonnes	197	35 years	
Lanigan	8.434 million tonnes	549	A Zone: 28 years B Zone: 38 years	
Rocanville	16.476 million tonnes	449	27 years	
Vanscoy 3.076 million tonnes		500	163 years	

x) Mining Operations

All conventional potash mines in Saskatchewan operate at 900 m to 1,200 m below surface within 9 m to 30 m of the top of the Prairie Evaporite Formation. Over the scale of any typical Saskatchewan potash mine, potash beds are tabular and regionally flatlying, with only moderate local variations in dip. Potash ore is mined using conventional mining methods, whereby:

- Shafts are sunk to the potash ore body;
- Continuous mining machines cut out the ore, which is hoisted to surface through the production shaft;
- · Raw potash is processed and concentrated in a mill on surface; and
- Concentrated finished potash products (near-pure KCI) are sold and shipped to markets in North America and offshore.

At Allan, Cory, Lanigan and Vanscoy (the Saskatoon area mines), sinking of the two original shafts (production and ventilation shafts) from surface to the potash zone was completed in early 1968, and the first potash ore was hoisted that year. The two original Rocanville shafts were completed in 1970. The mines have run on a continuous basis other than short-term shutdowns taken for inventory management purposes, occasional plant maintenance and construction work, or other outages that are typical for operations of this nature. The exception to this was Vanscoy where a major inflow in 1970 halted production for two years (described in technical report).

At Allan, Cory, Lanigan and Vanscoy, the A Zone of the Patience Lake Member is mined. Additionally, at Lanigan both the A Zone and the B Zone are mined. The seams are separated by approximately 4 m to 6 m of tabular salt. Currently, in any specific mining block at Lanigan, only one zone is mined (i.e., bi-level mining is not in practice). Per the Technical Reports, mine elevations in the A Zone range from 940 m to 1,120 m at the Saskatoon area mines. These depths to A Zone potash mineralization are anticipated over most of the lease area for these mines. Mine workings are protected from aquifers in overlying formations by approximately 12 m of overlying salt and potash beds at Allan, Cory and Vanscoy, and by approximately 7 m (A Zone) to 14 m (B Zone) at Lanigan. Furthermore, the salt plugged porosity in the Dawson Bay Formation, a carbonate layer lying immediately above potash hosting salt beds at these mines provides further protection from overlying aquifers.

Virtually all Rocanville underground mining rooms are in the Esterhazy Member of the Prairie Evaporite Formation. Per the Rocanville Technical Report, mine elevations range from approximately 895 m to 1,040 m. Within the Rocanville Crown Lease, depths to the top of the ore zone can reach up 1,250 m (the deepest potash exploration drillhole) but are expected to be shallower than 1,200 m over most of the lease area. Mine workings are protected from aquifers in overlying formations by approximately 30 m of overlying salt and potash beds, along with salt plugged porosity in the Lower Dawson Bay Formation, a carbonate layer lying immediately above potash hosting salt beds.

The highest mineral grade section at the Saskatoon area mines A Zone potash seam is approximately 3.35 m (11 feet) thick, with gradations to lower grade salts immediately above and below the mining horizon. The actual mining thickness at these mines are dictated by the height of continuous boring machines used to cut the ore which is typically either 3.35 m (11 feet) or 3.66 m (12 feet) (as described in the Technical Reports). The thickness of the B Zone mining horizon at Lanigan varies somewhat and there is some flexibility in the thickness of the potash ore that is extracted there. Production mining machines have a fixed mining height of 2.74 m (9 feet). In a normal production room ore is extracted in two lifts resulting in a mining height of approximately 4.88 m (16 feet).

Carnallite sometimes occurs in minor amounts in the basal part of the B Zone. Carnallite is an undesirable mill feed material. It is common at Lanigan to find carnallite in pod-like deposits and the larger pods can be mapped with seismic and avoided. If more than minor amounts of carnallite are detected in the floor, through physical sampling or with Ground Penetrating Radar, after the first lift of a production room in the B Zone, it is left in the floor (i.e., a second lift is not cut). In these instances, the B Zone mining height is just 2.74 m (9'). Carnallite is found in trace amounts in the A Zone; however, due to its low occurrence, mining practices remain unchanged when it is encountered.

The highest mineral grade section of the Rocanville potash seam is approximately 2.3 m (7.5 feet) thick, with gradations to lower grade sylvinite salts immediately above and below the mining horizon. The actual mining thickness at Rocanville is also dependent on the boring machine heights there, being either 2.44 m (8 feet) or 2.51 m (8.25 feet). Mining machines at Rocanville use potassium sensing technology to ensure that rooms are always cut in the best available potash ore.

All mines in the Saskatoon area, cuts to a marker (clay) seam that is slightly above the high-grade mineralized zone to establish a safe and stable mine roof. The top marker seam is slightly overcut by 10 to 20 cm. Clay seams are often planes of weakness, and if they are undercut, material immediately below the clay seam becomes a hazard as it may separate and fall. Since the hazard must be remediated prior to proceeding, thus slowing production, the moderately diluted mineral grade that results from the overcutting is preferable from a safety point of view.

Conservative local extraction ratios (never exceeding 45% in any mining block) are employed at all Saskatchewan mines in order to minimize potential detrimental effects of mining on overlying strata; this is common practice in flat-lying, tabular ore bodies overlain by water-bearing layers.

From the shaft-bottom, potash ore is hoisted approximately 1,000 m from the potash level through the vertical shafts to a surface mill. In addition to hoisting potash ore to surface, the production shaft also provides fresh air ventilation to the mine and serves as asecondary egress. The service shaft is used for service access, and exhaust ventilation from the mine.

xi) Environmental Studies, Permitting and Social or Community Impact

The tailings management strategy at all Nutrien potash mines in Saskatchewan, is one of sequestering solid mine tailings in an engineered and provincially licensed Tailing Management Area (TMA) near the surface plant site. Emissions to air consisting primarily of particulate matter are kept below regulatory limits through various modern air pollution abatement systems (e.g. dust collection systems built into mill processes) that are provincially licensed. This same procedure is followed at all of our mines in Saskatchewan.

In Saskatchewan, all potash tailings management activities are carried out under an "Approval to Operate" granted by the Saskatchewan Ministry of Environment (MOE), the provincial regulator. Staff at the mines actively monitor and inspect operations and routinely report the observations and measurements to the Environmental Protection Branch of MOE. The current Approval to Operate for our mines has been granted to July 1, 2028, the renewal date.

In terms of long-term decommissioning, environmental regulations of the Province of Saskatchewan require that all operating potash mines in Saskatchewan create a long-term decommissioning and reclamation plan that will ensure all surface facilities are removed, and the site is left in a chemically and physically stable condition once mine operations are complete. The Company has conducted numerous studies of this topic, and the most recent decommissioning and reclamation plan was approved by MOE technical staff in January 2022. Because the current expected mine life for the sites is many decades into the future, it is not meaningful to come up with detailed engineering designs for decommissioning annually. Instead, decommissioning plans are reviewed every five years, and updated to accommodate new concepts, technological change, incorporation of new data, and adjustments of production forecasts and cost estimates. Any updated decommissioning and reclamation reports generated by this process are submitted to provincial regulatory agencies. A revised decommissioning and reclamation plan is due in June 2026 for MOE review.

In addition to the long-term decommissioning plan, provincial regulations require that every potash producing company in Saskatchewan setup an Environmental Financial Assurance Fund, which is to be held in trust for the decommissioning, restoration and rehabilitation of the plant site after mining is complete. This fund is for all mines we operate in the Province of Saskatchewan (i.e., Allan, Cory, Lanigan, Patience Lake, Rocanville, and Vanscoy).

xii) Taxes Relating to Potash Operations

Royalties are paid to the Province of Saskatchewan in connection with the Company's Potash operations, which holds most of the mineral rights in the lease areas, and royalties from Freehold lands are paid to various freeholders of mineral rights in the area. The Crown royalty rate is 3 percent and is governed by *The Subsurface Mineral Royalty Regulations, 2017.* The actual amount paid is dependent on selling price and production tonnes.

Municipal taxes are paid based on site property values to the applicable municipality in Saskatchewan. Saskatchewan potash production is taxed at the provincial level under *The Mineral Taxation Act, 1983*. This tax, governed by *The Potash Production Tax Regulations*, consists of a base payment and a profit tax, collectively known as the potash production tax. As a resource corporation in the Province of Saskatchewan, the Company is also subject to a resource surcharge equal to a percentage of the value of its resource sales (as defined in *The Corporation Capital Tax Act of Saskatchewan*). In addition to this, the Company pays federal and provincial income taxes based on corporate profits from all of its operations in Canada.

b) Allan Potash Operations

i) Project Description, Location and Access

General

The Allan mine is located in central Saskatchewan, approximately 45 kilometers east of the city of Saskatoon, Saskatchewan. The Legal Land Description (Saskatchewan Township/Range) of the Allan surface plant is Section 22 Township 34 Range 01 West of 3rd Meridian. More precisely, the Allan Shaft #2 collar is located at:

Latitude: 51 degrees 55 minutes 55.56 seconds North
Longitude: 106 degrees 04 minutes 18.84 seconds West

• Elevation: 524.26 meters above mean Sea Level (SL)

Easting: 426,303.225 mNorthing: 5,754,028.978 m

Projection: UTMDatum: NAD83

Zone: 13

Per the Allan Technical Report, the Company owns approximately 3,404 hectares (8,411 acres) of surface rights required for current Allan mine operations, including all areas covered by the existing surface plant and TMA, and all surface lands required for anticipated future Allan mine and expanded milling operations.

Besides the proximity to Saskatoon, the Allan mine is served by a number of villages within 50 kilometers of the mine site. Allan is situated near the northern extent of the Great Plains of North America. Topography is relatively flat, with gently rolling hills and occasional valleys. There are no rivers or other major watercourse channels near the Allan mine site.

Mineral Rights

The original Allan Crown Subsurface Mineral Lease, numbered KL 112, was entered into in September 1962. In the following years, minor amendments were made to the Lease, resulting in Crown Subsurface Mineral Lease KL 112R. In October 2017, a large area of land was added to the Lease resulting in Crown Subsurface Mineral Lease KL 112R A. In January 2020, an additional area of land was added to KL 112R A, resulting in Crown Subsurface Mineral Lease KL 112R B (the "Allan Crown Lease") which covers an area of approximately 80,950 hectares (200,032 acres).

Per the Allan Technical report, the Company has leased potash mineral rights for 50,688 hectares (125,253 acres) of Crown Land and owns or has leased approximately 26,298 hectares (64,984 acres) of Freehold Land within the lease boundary. The Allan Crown Lease term is for a period of 21 years from September 2004, with renewals (at the Company's option) for 21-year periods. Freehold Lands also remain under lease providing, generally, that production is continuing and that there is a continuation of the Crown Lease.

Within the Allan Crown Lease area, 19,183 hectares (47,403 acres) are mined pursuant to unitization agreements with mineral rights holders (Crown and Freehold) within two unitized areas.

ii) Sampling Preparation, Analyses and Security

Mean Potash Mineral Grade From In-Mine Samples

At Allan, in-mine grade samples are taken by collecting fine "muck" from the floor of the mine approximately once per week per active mining face. This is roughly equivalent to a sample taken every 68 m to 74 m in production panels, and a sample taken every 85 m to 128 m in development panels. Per the Allan Technical Report, in-mine potash mineral grade samples collected from the Allan A Zone were analysed in the Allan mill laboratory using analysis techniques that were up to date for the era in which the sample was collected.

The median ore grade for this family of in-mine samples is 25.4% K₂O equivalent and the mean ore grade is 24.7%.

Per the Allan Technical Report, the B Zone mineral grade at Allan is reported to be 20.2% K₂O equivalent, the grade observed from the in-mine samples at the Lanigan mine where the B Zone has been extensively mined. Even though Allan mine is some distance from Lanigan, this is considered to be the best estimate of expected mineral grade for this potash layer because the

deposit is known to be regionally continuous from west of Vanscoy to east of Lanigan. Although it is possible that once mining proceeds into the B Zone the reported grade could change from what is reported, it is expected that any such change would be minimal.

iii) Mineral Processing and Metallurgical Testing

Since opening in 1968, 185.640 million tonnes of potash ore have been mined and hoisted at Allan to produce 65.593 million tonnes of finished potash products. Given this level of sustained production for over several decades, basic mineralogical processing and prospective metallurgical testing of Allan potash is not considered relevant.

iv) Mining Operations

In recent years, the Allan mine underwent a major expansion which brought the nameplate capacity up to 4.0 million tonnes of finished potash products per year. In 2023, operational capability at the Allan facility was 2.4 million tonnes per year. Operational capability may vary during the year and year-to-year including as between our potash operations.

The life of mine concentration ratio (raw-ore/finished potash products) is 2.83 and the overall extraction ratio over this period is 33%.

v) Processing and Recovery Operations

At Allan, potash ore has been mined and concentrated to produce saleable quantities of high grade finished potash products since 1968. Raw potash ore is processed on surface and concentrated finished potash products (near-pure KCI) are sold and shipped to markets in North America and offshore.

Over the past three years, production of finished potash products at Allan was:

- 2021: 2.781 million tonnes finished potash products at 61.17% K₂O (average grade)
- 2022: 2.501 million tonnes finished potash products at 61.18% K₂O (average grade)
- 2023: 2.392 million tonnes finished potash products at 61.20% K₂O (average grade)

Over the past decade actual mill recovery rates have been between 85.63% and 87.99%, averaging 86.59%. Given the long-term experience with potash geology and actual mill recovery at Allan, no fundamental potash milling problems are anticipated in the foreseeable future.

Quality control testing and monitoring geared towards fine-tuning and optimizing potash milling and concentrating processes are conducted on a continual basis at all our mine sites and research facilities. At Allan, this is no exception; test work to optimize circuit performance and ensure product quality is carried out on an ongoing basis.

vi) Infrastructure, Permitting and Compliance Activities

Project Infrastructure

Infrastructure is in place to meet current and projected requirements for transportation, energy (electricity and natural gas), water and process materials at Allan.

Surface facilities are accessed by existing paved roads and highways that are part of the Saskatchewan Provincial Highway System. All finished potash products are shipped by rail over existing track.

As per the Allan Technical Report, high-voltage power capacity at Allan is 44 MVA. The ten-year projection of power utilization indicates that the utility can meet all foreseeable future demand.

The Allan operation requires a sustained fresh water supply for the milling process which is provided from a local reservoir called the Bradwell Reservoir operated by SaskWater (approximately 6 km distant). This water supply provides a sustainable source of process water for Allan milling operations with no known impact on other users of water in the area.

Environmental Studies, Permitting and Social or Community Impact

The Allan TMA currently covers an area of approximately 600 hectares (1,483 acres) of land owned by the Company. Solid potash mine tailings typically consist of 85% to 95% rock salt (NaCl) and 5% to 15% insoluble (carbonate mud = CaCO3, anhydrite mud = CaSO4, and clays like chlorite, illite and so on). An engineered slurry-wall (in some portions, a compacted earth trench barrier) has been constructed where required around approximately half of the Allan TMA. In future years this wall can be expanded if required for operational needs. The slurry- wall provides secondary containment for any saline mine waters, minimizing brine impacts from the TMA to surrounding surface water bodies and near-surface aquifers. Areas surrounding the TMA are closely monitored: this includes everything from daily visual perimeter inspections to annual investigations and inspections of surrounding groundwater and aquifers.

Allan currently operates two brine disposal wells near the surface plant of the Allan mine where clear salt brine (i.e., no silt, clay slimes, or other waste) is borehole injected into the Winnipeg / Deadwood Formations, deep subsurface aquifers approximately 1,500 m to 1,700 m below the surface. The disposal wells are provincially licensed and formation water in these extensive deep aquifers is naturally saline.

c) Cory Potash Operations

i) Project Description, Location and Access

General

The Cory mine is located in central Saskatchewan, approximately 7 kilometers west of the city of Saskatcon, Saskatchewan. The Legal Land Description (Saskatchewan Township/Range) of the Cory surface operation is Section 18 Township 36 Range 06 Westof 3rd Meridian. More precisely, the Cory service shaft collar is located at:

Latitude: 52 degrees 05 minutes 30.15 seconds North
Longitude: 106 degrees 51 minutes 16.32 seconds West

Elevation: 503 meters above mean SL

Easting: 372,951 m
Northing: 5,772,861 m
Projection: UTM
Datum: NAD83
Zone: 13

Per the Cory Technical Report, the Company owns approximately 2,109 hectares (5,212 acres) of surface rights required for current Cory mine operations, including all areas covered by the existing surface plant and TMA, and all surface lands required for anticipated future Cory mine and expanded milling operations.

Besides the proximity to Saskatoon, the Cory mine is served by a number of villages within 50 kilometers of the mine site. Cory is situated near the northern extent of the Great Plains of North America. Topography is relatively flat, with gently rolling hills and occasional valleys. The Cory surface plant lies approximately 10 km northwest of the South Saskatchewan River, a major continental drainage channel.

Mineral Rights

The original Cory Crown Subsurface Mineral Lease, numbered KL 103, was signed and executed in September 1962. In the following years, minor amendments were made to the Lease, resulting in Crown Subsurface Mineral Lease KL 103B. In December 2020, inaccessible land in the northern part of Nutrien's adjacent Vanscoy Crown Lease were transferred into the Cory Crown Subsurface Mineral Lease KL103C (the "Cory Crown Lease") where they could be developed, KL 103C covers an area of approximately 51,438 hectares (127,107 acres).

Per the Cory Technical Report, the Company has leased potash mineral rights for 28,507 hectares (70,412 acres) of Crown Land and owns or has leased approximately 18,351 hectares (45,346 acres) of Freehold Land within the lease boundary. The Cory Crown Lease term is for a period of 21 years from September 15, 2004, with renewals (at the Company's option) for 21-year periods. Freehold Lands also remain under lease providing, generally, that production is continuing and that there is a continuation of the Crown Lease.

Within the Cory Crown Lease area, 29,772 hectares (73,569 acres) are mined pursuant to a unitization agreement with mineral rights holders (Crown and Freehold) within one unitized area.

ii) Sampling Preparation, Analyses and Security

Mean Potash Mineral Grade From In-Mine Samples

It has been the practice at Cory for the past several years to acquire two in-mine grade samples at the start of every cutting sequence and is done by collecting fine "muck" from the floor of the mine. The sampling frequency is equivalent to two samples taken approximately every 25 m in production panels, and two samples taken approximately every 50 m in development panels. In-mine grade sampling practices at Cory have varied over the years resulting in an irregular sample set. It is the belief of the authors that the average grade reported from these in-mine samples will become increasingly representative of Cory A Zone potash mineralization as standardized sampling continues. It will also lead to a normalized data distribution. At Cory, mill feed grade data collected over the years suggests a higher average grade than is found in the in-mine sample set.

Per the Cory Technical Report, in-mine potash mineral grade samples collected from the Cory A Zone were analysed in the Cory mill laboratory using analysis techniques that were up to date for the era in which the sample was collected.

The median ore grade for this family of in-mine samples is 23.0% K₂O equivalent and the mean ore grade is 21.9%.

Per the Cory Technical Report, the B Zone mineral grade at Cory is reported to be 20.3% K_2O equivalent, which is the grade observed from 20,030 in-mine samples at the Lanigan mine where the B Zone has been extensively mined. Even though Cory mine is some distance from Lanigan, this is considered to be the best estimate of expected mineral grade for this potash layer because thedeposit is known to be regionally continuous from west of Vanscoy to east of Lanigan. Although it is possible that once mining proceeds into the B Zone the reported grade could change from what is reported, it is expected that any such change would be minimal.

iii) Mineral Processing and Metallurgical Testing

Since opening in 1968, 140.453 million tonnes of potash ore have been mined and hoisted to produce 43.822 million tonnes of finished potash products. Given this level of sustained production over several decades, basic mineralogical processing and prospective metallurgical testing of Cory potash is not considered relevant.

iv) Mining Operations

In recent years, the Cory mine underwent a major expansion which brought the nameplate capacity up to 3.0 million tonnes of finished potash products per year. In 2023, operational capability at the Cory facility was 2.1 million tonnes per year. Operational capability may vary during the year and year-to-year including as between our potash operations.

The life-of-mine concentration ratio (raw ore / finished potash products) is 3.21 and the overall extraction ratio over this period is 27%.

v) Processing and Recovery Operations

At Cory, potash ore has been mined and concentrated to produce saleable quantities of high grade finished potash products since 1968. Raw potash ore is processed on surface and concentrated finished potash products (near-pure KCI) are sold and shipped to markets in North America and offshore.

Over the past three years, production of finished potash products at Cory was:

- 2021: 1.768 million tonnes finished potash products at 61.48% K2O (average grade)
- 2022: 1.888 million tonnes finished potash products at 61.58% K2O (average grade)
- 2023: 1.493 million tonnes finished potash products at 61.74% K2O (average grade)

Over the past decade, actual mill recovery rates have been between 71.07% and 82.97%, averaging 76.63%. Historically, mill recoveries at Cory were lower than at other Nutrien plants because a larger portion, and at one point all, of Cory's total production was made through the crystallization process. Given the long-term experience with potash geology and actual mill recovery atCory, no fundamental potash milling problems are anticipated in the foreseeable future.

Quality control testing and monitoring geared towards fine-tuning and optimizing potash milling and concentrating processes are conducted on a continual basis at all our mine sites and research facilities. At Cory, this is no exception; test work to optimize circuit performance and ensure product quality is carried out on an ongoing basis.

vi) Infrastructure, Permitting and Compliance Activities

Project Infrastructure

Infrastructure is in place to meet current and projected requirements for transportation, energy (electricity and natural gas), water and process materials at Cory.

Surface facilities are accessed by an existing paved road that is part of the Saskatchewan Provincial Highway System. Most finished potash products are shipped by rail over existing track, with some product shipped by truck over the North American highway system.

As per the Cory Technical Report, high-voltage power capacity at Cory is 52 MVA. The ten-year projection of power utilization indicates that the utility can meet all foreseeable future demand.

The Cory operation requires a sustained fresh water supply for the milling process which is provided by a waterline from the South Saskatchewan River (approximately 10 km distant). This water supply is provincially licensed and provides a sustainable source of process water for Cory milling operations with no known impact on other users of water in the area.

Environmental Studies, Permitting and Social or Community Impact

The Cory TMA currently covers an area of approximately 416 hectares (1,027 acres) of land owned by the Company. Solid potash mine tailings typically consist of 85% to 95% rock salt (NaCl) and 5% to 15% insolubles (carbonate mud = CaCO₃, anhydrite mud = CaSO₄, and clays like chlorite, illite, and so on). An engineered slurry-wall has been constructed on the north, west, and south sides of the Cory TMA in the areas where near-surface aquifers could be impacted by mine waters. Near-surface geology to the east of the TMA limits the possibility ofbrine migration into these areas. The slurry-wall provides secondary containment of any saline mine waters, stopping these brines from reaching surrounding near-surface aquifers. Areas surrounding the TMA are closely monitored: this includes everything from daily visual perimeter inspections to annual investigations and inspections of surrounding groundwater and aquifers.

Cory currently operates four brine disposal wells near the surface plant of the Cory mine where clear salt brine (i.e., no silt, clay slimes, or other waste) is borehole-injected into the Winnipeg / Deadwood Formations, deep subsurface aquifers approximately 1,500 m to 1,700 m below the surface. The disposal wells are provincially licensed and formation waters in these extensive deep aquifers is naturally saline.

d) Lanigan Potash Operations

i) Project Description, Location and Access

General

The Lanigan mine is located in central Saskatchewan, approximately 100 kilometers east of the city of Saskatcon, Saskatchewan. The Legal Land Description (Saskatchewan Township/Range) of the Lanigan surface operation is Section 28 Township 33 Range 23 West of 2nd Meridian. More precisely, the Lanigan Shaft #2 collar is located at:

Latitude: 51 degrees 51 minutes 20.48 seconds North

Longitude: 105 degrees 12 minutes 34.79 seconds West

Elevation: 535.34 meters above mean SL

Easting: 485,560.306 mNorthing: 5,745,008.726 m

Projection: UTMDatum: NAD83Zone: 13

Per the Lanigan Technical Report, the Company owns approximately 3,980 hectares (9,836 acres) of surface rights required for current Lanigan mine operations, including all areas covered by the existing surface plant and TMA, and all surface lands required for anticipated future Lanigan mine and expanded milling operations.

Lanigan is situated near the northern extent of the Great Plains of North America. Topography is relatively flat, with gently rolling hills and occasional valleys. There are no rivers or other major watercourse channels near the Lanigan mine site.

Mineral Rights

The original Lanigan Crown Subsurface Mineral Lease, numbered KL 100, was entered into in March 1964. A minor amendment to this lease in September 1989 resulted in KL 100R. In November 2009, a large area of land was added to the lease resulting in KLSA 001. Shortly after that, in June 2011, a minor amendment to the lease resulted in KLSA 001 A. KLSA 001 B was issued in September 2014 when portions of the adjacent exploration permits, granted in September 2011, were added to the lease. Finally, in November 2015, a minor change to the lease resulted in KLSA 001 C (the "Lanigan Crown Lease"). The Lanigan Crown Lease covers an area of approximately 56,328 hectares (139,190 acres),

Per the Lanigan Technical Report, the Company has leasedpotash mineral rights for 38,188 hectares (94,365 acres) of Crown land and owns or has leased approximately 17,913 hectares (44,265 acres) of Freehold land within the lease boundary. It should be noted that there was an increase to the Crown lease in 2022. The Lanigan Crown lease term is for a period of 21 years from March 2006, with renewals (at the Company's option) for 21-year periods. Freehold lands also remain under lease providing, generally, that production is continuing and that there is a continuation of the Crown lease.

Within the Lanigan Crown Lease area, 55,950 hectares (138,256 acres) are mined pursuant to unitization agreements with mineral rights holders (Crown and Freehold) within two unitized areas.

ii) Sampling Preparation, Analyses and Security

Mean Potash Mineral Grade From In-Mine Samples

In the Lanigan A Zone, in-mine grade samples are taken by collecting fine "muck" from the floor of the mine at the start of every cutting sequence. This is equivalent to a sample taken every approximately 23 m (76 feet) in production panels, and a sample taken every approximately 47 m (155 feet) in development panels. Per the Lanigan Technical Report, in-mine potash mineral grade samples collected from the Lanigan A Zone were analysed in the Lanigan mill laboratory using up-to-date analysis techniques.

The median ore grade for this family of in-mine samples is 25.2% K₂O equivalent and the mean ore grade is 24.3%.

In the Lanigan B Zone, in-mine grade samples are taken from the floor every 60 m (200 feet) in newly mined rooms. Per the Lanigan Technical Report, in-mine potash mineral grade samples collected from the Lanigan B Zone were analysed in the Lanigan mill laboratory using analysis techniques that were up to date for the era in which the sample was collected.

The median ore grade for this family of in-mine samples is 20.8% K₂O equivalent and the mean ore grade is 20.2%.

In 2013, Lanigan modified its cutting practices in the B Zone to improve mine roof stability. This modification involved cutting in a slightly higher, but more stable horizon. The goal of improved mine roof stability was achieved; however, less potash and more saltis now being mined resulting in a slightly lower reported ore grade for B Zone.

iii) Mineral Processing and Metallurgical Testing

Since opening in 1968, 246.184 million tonnes of potash ore have been mined and hoisted to produce 72.612 million tonnes of finished potash products. Given this level of sustained production over several decades, basic mineralogical processing, and prospective metallurgical testing of Lanigan potash is not considered relevant.

iv) Mining Operations

In recent years, the Lanigan mine underwent a major expansion which brought the nameplate capacity to 3.8 million tonnes per year. In 2023, operational capability at the Lanigan facility was 3.0 million tonnes per year. Operational capability may vary during the year and year-to-year including as between our potash operations.

The life of mine concentration ratio (raw ore/finished potash products) is 3.39 and the overall extraction ratio over this period is 26%.

v) Processing and Recovery Operations

At Lanigan, potash ore has been mined and concentrated to produce saleable quantities of high-grade finished potash products since 1968. Raw potash ore is processed on surface and concentrated red potash products are sold and shipped to markets in North America and offshore.

Over the past three years, production of finished potash products at Lanigan was:

- 2021: 2.912 million tonnes finished potash products at 61.00% K₂O (average grade)
- 2022: 2.457 million tonnes finished potash products at 60.99% K₂O (average grade)
- 2023: 2.889 million tonnes finished potash products at 61.03% K₂O (average grade)

Over the past decade, actual mill recovery rates have been between 80.10% and 85.90%, averaging 82.71%. Given the long-term experience with potash geology and actual mill recovery at Lanigan, no fundamental potash milling problems are anticipated in the foreseeable future.

Quality control testing and monitoring geared towards fine-tuning and optimizing potash milling and concentrating processes are conducted on a continual basis at all our mine sites and research facilities. At Lanigan, this is no exception; test work to optimize circuit performance and ensure product quality is carried out on an ongoing basis.

vi) Infrastructure, Permitting and Compliance Activities

Project Infrastructure

Infrastructure is in place to meet current and projected requirements for transportation, energy (electricity and natural gas), water and process materials at Lanigan.

Surface facilities are accessed by existing paved roads and highways that are part of the Saskatchewan Provincial Highway System. All finished potash products are shipped by rail over existing track.

As per the Lanigan Technical Report, high voltage power capacity at Lanigan is 52 MVA. The ten-year projection of power utilization indicates that the utility can meet all foreseeable future demand.

The Lanigan operation requires a sustained fresh water supply for the milling process which is provided by a waterline from the Dellwood Reservoir (approximately 10 km distant) and from a regional aquifer called the Hatfield Valley Aquifer. This water supply is provincially licensed and provides a sustainable source of process water for Lanigan milling operations with no known impact on other users of water in the area.

Environmental Studies, Permitting and Social or Community Impact

The Lanigan TMA currently covers an area of approximately 708 hectares (1,750 acres) of land owned by the Company. Solid potash mine tailings typically consist of 85% to 95% rock salt (NaCl) and 5% to 15% insolubles (carbonate mud = CaCO₃, anhydrite mud = CaSO₄, and clays like chlorite, illite, and so on). An engineered slurry-wall has been constructed on the south and southwest sides of the Lanigan TMA in the areas where near-surface aquifers could be impacted by mine waters. Near-surface geology on all other sides of the TMA limits the possibility of brine migration into these areas. The slurry-wall provides secondary containment of any saline mine waters, stopping these brines from reaching surrounding near-surface aquifers. Areas surrounding the TMA are closely monitored; this includes everything from daily visual perimeter inspections to annual investigations and inspections of surrounding groundwater and aquifers.

Lanigan currently operates three brine disposal wells near the surface plant of the Lanigan mine where clear salt brine (i.e., no silt, clay-slimes, or other waste) is borehole-injected into the Winnipeg / Deadwood Formations, deep subsurface aquifers approximately 1,500 m to 1,700 m below surface. The disposal wells are provincially licensed and formation water in these extensive deep aquifers is naturally saline.

e) Rocanville Potash Operations

i) Project Description, Location and Access

General

The Rocanville mine is located in southeastern Saskatchewan near the Saskatchewan-Manitoba Provincial Boundary, approximately 15 kilometers northeast of the town of Rocanville, Saskatchewan. The Legal Land Description (Saskatchewan Township/Range) of the Rocanville surface plant is Section 22 Township 17 Range 30 West of the 1st Meridian. More precisely, the Rocanville #2 Shaft collar is located at:

- Latitude: 50 degrees 28 minutes 19.54 seconds North
- Longitude: 101 degrees 32 minutes 42.58 seconds West

Elevation: 480.36 meters above mean SL

Easting: 745,137.307 mNorthing: 5,596,826.122 m

Projection: UTMDatum: NAD83Zone: 13

The legal description (Saskatchewan Township / Range) of the Rocanville Scissors Creek Shaft is Section 13 Township 17 Range 32 West of the 1st Meridian and is approximately 12 kilometers north-west of the town of Rocanville, Saskatchewan. More precisely, the Shaft collar is located at:

Latitude: 50 degrees 27 minutes 7.0632 seconds North
 Longitude: 101 degrees 46 minutes 13.58 seconds West

• Elevation: 525.35 metres above mean SL

Easting: 729,253.35 mNorthing: 5,593,868.30 m

Projection: UTMDatum: NAD83Zone: 13

Per the Rocanville Technical Report, the Company owns approximately 3,244 hectares (8,016 acres) of surface rights required for current Rocanville mine operations, including all areas covered by the existing surface plant and TMA, and all surface lands required for anticipated future Rocanville mine and expanded milling operations.

The Rocanville mine is served by a number of towns and villages within 50 kilometers of the mine site. The nearest towns are Rocanville (15 km distant), Moosomin and Esterhazy (both 50 km distant). The nearest city is Yorkton (100 km distant). Rocanville is situated near the north extent of the Great Plains of North America. Topography is relatively flat, with gently rolling hills and occasional valleys.

Mineral Rights

The original Rocanville Crown Subsurface Mineral Lease KL 111 was entered into in June 1966. In the following years various minor amendments were made to this Crown lease, resulting in Crown Subsurface Mineral Lease KL 111R. A new Crown Subsurface Mineral Lease numbered KLSA 002 was issued in February 2010 incorporating all Crown mineral rights within the existing Crown Lease KL 111R and approximately two-thirds of Crown mineral rights covered in KP 338A. The portion of the lands that were not part of the Lease amalgamation remained as Crown Exploration Permit KP 338B until December 2016 when they were converted to a Crown Subsurface Mineral Lease numbered KL 249. In October 2017, KL 305 was formed by the amalgamation of Crown Subsurface Leases KLSA 002 (KLSA 002B, following minor amendments) and KL 249. KL 305 covers an area of approximately 113,975 hectares (281,639 acres). In May 2020, a Crown Subsurface Mineral Lease numbered KL 279, was acquired from North Atlantic Potash. KL 279 covers an area of approximately 56,540 hectares (139,712 acres).

Per the Rocanville Technical Report, the Company has leased potash mineral rights for 54,184 hectares (133,892 acres) of Crown Land and owns or has leased approximately 45,612 hectares (112,710 acres) of Freehold Land within KL 305. The Rocanville Crown Lease terms are for a period of 21 years from October 2017 and May 2017, with renewals at the Company's option for 21-year periods. Freehold Lands also remain under lease providing, generally, that production is continuing and that there is a continuation of the Crown Lease.

Within the current Rocanville Crown Lease area, 80,181 hectares (198,132 acres) are mined pursuant to unitization agreements with mineral rights holders (Crown and Freehold) within two unitized areas.

ii) Sampling Preparation, Analyses and Security

Mean Potash Mineral Grade From In-Mine Samples

In-mine grade samples are taken by collecting fine "muck" from the floor of the mine at 60 m intervals in every underground mine room at Rocanville. Per the Rocanville Technical Report, in-mine ore grade samples were collected and analysed in the Rocanville mill laboratory using analysis techniques that were up to date for the era in which the sample was collected.

The mean ore grade for this family of in-mine samples is 23.1% K2O equivalent, while the median ore grade for this family of in-mine samples is 23.3% K2O.

iii) Mineral Processing and Metallurgical Testing

Since opening in 1970, 330.604 million tonnes of potash ore have been mined and hoisted at to produce 106.256 million tonnes of finished potash product. Given this level of sustained production over several decades, basic mineralogical processing and prospective metallurgical testing of Rocanville potash is not considered relevant.

iv) Mining Operations

In recent years the Rocanville mine has undergone a major expansion which brought the nameplate capacity to 6.5 million tonnes of finished potash products per year. In 2023, operational capability at the Rocanville facility was 5.1 million tonnes per year. Operational capability may vary during the year and year-to-year including as between our potashoperations.

The life-of-mine average concentration ratio (raw ore/finished potash products) is 3.11 and the overall extraction ratio over this period is 31%.

v) Processing and Recovery Operations

At Rocanville, potash ore has been mined and concentrated to produce saleable quantities of high-grade finished potash products since 1970. Raw potash ore is processed on surface and concentrated finished potash products (near-pure KCI) are sold and shipped to markets in North America and offshore.

Over the past three years, production of finished potash products at Rocanville was:

- 2021: 5.001 million tonnes finished potash products at 60.52% K₂O (average grade)
- 2022: 4.886 million tonnes finished potash products at 60.51% K₂O (average grade)
- 2023: 4.972 million tonnes finished potash products at 60.47% K₂O (average grade)

Over the past decade actual mill recovery rates have been between 82.41% and 84.44%, averaging 83.38%. Given the long-term experience with potash geology and actual mill recovery at Rocanville no fundamental potash milling problems are anticipated in the foreseeable future.

Quality control testing and monitoring geared towards fine-tuning and optimizing potash milling and concentrating processes are conducted on a continual basis at all our mine sites and research facilities. At Rocanville, this is no exception; test work to optimize circuit performance and ensure product quality is carried out on an ongoing basis.

vi) Infrastructure, Permitting and Compliance Activities

Project Infrastructure

Infrastructure is in place to meet current and projected requirements for transportation, energy (electricity and natural gas), water and process materials at Rocanville.

Surface facilities are accessed by an existing paved road that is part of the Saskatchewan Provincial Highway System. Most finished potash products are shipped by rail over existing track, with some product shipped by truck over the North American highway system.

As per the Rocanville Technical Report, high voltage power utilization at the Rocanville mine is 84 MVA (i.e., 72 MVA to the Rocanville Plant site plus 12 MVAto the Scissors Creek site). The ten-year projection of power utilization indicates that the utility can meet foreseeable future demand.

The Rocanville operation requires a sustained fresh water supply for the milling process which is sourced from two subsurface reservoirs called the Welby Plains Surficial Aquifer and the Welby Plains Middle Aquifer. These aquifers provide a sustainable source of process water for Rocanville milling operations, with no known impact on other users of water drawn from these aquifers.

Environmental Studies, Permitting and Social or Community Impact

The Rocanville TMA currently covers an area of approximately 567 hectares (1,400 acres) of land owned by the Company. Solid potash mine tailings typically consist of 85% to 95% rock salt (NaCl) and 5% to 15% insolubles (carbonate mud = CaCO₃, anhydrite mud = CaSO₄, and clays like chlorite, illite, and so on). An engineered slurry-wall has been constructed around the entire Rocanville TMA. The slurry-wall provides secondary containment for any saline mine waters, minimizing brine impacts from the TMA to

surrounding surface water bodies and near-surface aquifers. Areas surrounding the TMA are closely monitored: this includes everything from daily visual perimeter inspections to annual investigations and inspections of surrounding subsurface aquifers.

Rocanville currently operates two brine disposal wells near the surface plant of the Rocanville mine where clear salt brine (i.e., no silt, clay slimes or other waste) is drillhole-injected into the Interlake Carbonates, at a depth of approximately 1,200 m to 1,400 m below surface. The disposal wells are provincially licensed and formation water in these extensive deep aquifers is naturally saline.

f) Vanscoy Potash Operations

i) Project Description, Location and Access

General

The Vanscoy mine is located in central Saskatchewan, approximately 26 kilometers west of the city of Saskatoon, Saskatchewan. The Legal Land Description (Saskatchewan Township / Range) of the Vanscoy surface plant is Section 16 Township 35 Range 08 West of 3rd Meridian. More precisely, the Vanscoy service shaft collar is located at:

Latitude: 52 degrees 00 minutes 28.74 seconds North
Longitude: 107 degrees 05 minutes 25.18 seconds West

Elevation: 505 meters above mean SL

Easting: 356,531 m
Northing: 5,763,989 m
Projection: UTM
Datum: NAD83
Zone: 13

Per the Vanscoy Technical Report, the Company owns approximately 2,740 hectares (6,771 acres) of surface rights required for current Vanscoy mine operations, including all areas covered by the existing surface plant and TMA, and all surface lands required for anticipated near-future Vanscoy mine and expanded milling operations.

The Vanscoy mine is served by a number of villages within 50 kilometers of the mine site. The nearest city is Saskatoon (26 km distant). Vanscoy is situated near the northern extent of the Great Plains of North America. Topography is relatively flat, with gently rolling hills and occasional valleys. The Vanscoy surface plant lies approximately 20 km north-west of the South Saskatchewan River, a major continental drainage channel.

Mineral Rights

The original Vanscoy Crown Subsurface Mineral Lease, numbered KL 114, was entered into in January 1969. In the following years, minor amendments were made to the Lease, resulting in Crown Subsurface Mineral Lease KL 114B. In March 2008, the SMER approved the conversion of Agrium's Potash Exploration Permit KP 313 to a new Crown Subsurface Mineral Lease numbered KL 204. In December 2020, after additional geological studies were completed, Vanscoy Crown Subsurface Mineral Lease KL 114C (the "Vanscoy Crown Lease") was executed incorporating most of the lands held previously under KL 204.

Per the Vanscoy Technical Report, KL 114C covers an area of approximately 82,115 hectares (202,910 acres). At Vanscoy, the Company has leased potash mineral rights for 63,973 hectares (158,081 acres) of Crown land and owns or has leased from freeholders approximately 13,669 hectares (33,777 acres) within the lease boundary. The Vanscoy Crown Lease term is for a period of 21 years from July 1, 2012, with renewals (at the Company's option) for 21-year periods. Freehold lands also remain under lease providing, generally, that production is continuing and that there is a continuation of the Crown Lease.

Within the Vanscoy Crown Lease area 12,671.59 hectares (31,312.17 acres) are mined pursuant to a unitization agreement with mineral rights holders (Crown and Freehold) within one unitized area.

ii) Sampling Preparation, Analyses and Security

Mean Potash Mineral-Grade From In-Mine Samples

At Vanscoy, in-mine grade samples have been acquired by 1) sampling ore from the beltline, 2) channel samples from the sidewall, or 3) collecting fine "muck" from the floor of the mine. At present, fine muck sampling from the floor is most common, and each mining room is sampled at a frequency of approximately 95 m to 125 m. Since start-up in 1969 through to the end of December 2020, a total of 3,173 useable in-mine potash mineral grade samples were collected from the A Zone. All samples were analysed in the Vanscoy mill laboratory using analysis techniques that were up to date for the era in which the sample was collected.

The median ore grade for this family of in-mine samples is 25.5% K₂O equivalent and the mean ore grade is 24.2%.

Per the Vanscoy Technical Report, the B Zone at Vanscoy, mineral grade is reported to be 20.3% K₂O equivalent, the grade observed from 20,230 in-mine samples at the Lanigan mine where the B Zone has been extensively mined. Even though Vanscoy mine is some distance from Lanigan, this is considered the best estimate of expected mineral grade for this potash layer because the deposit is known to be regionally continuous from west of Vanscoy to east of Lanigan. Although it is possible that if mining proceeds into the B Zone, the reported grade could change from what is reported. It is expected that any such change would be minimal.

iii) Mineral Processing and Metallurgical Testing

Since opening in 1969, 189.335 million tonnes of potash ore have been mined and hoisted to produce 63.993 million tonnes of finished potash product. Given this level of sustained production for over several decades, basic mineralogical processing and prospective metallurgical testing of Vanscoy potash is not considered relevant.

iv) Mining Operations

In recent years, the Vanscoy mine underwent a major expansion which brought the nameplate capacity up to 3.0 million tonnes of finished potash products per year. In 2023, operational capability at the Vanscoy facility was 1.1 million tonnes per year. Operational capability may vary during the year and year-to-year including as between our potash operations.

The life-of-mine average concentration ratio (raw ore / finished potash products) is 2.96 and the overall extraction ratio over this period is 28%.

v) Processing and Recovery Operations

At Vanscoy, potash ore has been mined and concentrated to produce saleable quantities of high grade finished potash products since 1969. Raw potash ore is processed on surface and concentrated finished potash products (near-pure KCI) are sold and shipped to markets in North America and offshore.

Over the past three years, production of finished potash products at Vanscoy was:

- 2021: 1.047 million tonnes finished potash products at 60.07% K2O (average grade)
- 2022: 1.010 million tonnes finished potash products at 59.98% K2O (average grade)
- 2023: 1.052 million tonnes finished potash products at 60.97% K2O (average grade)

Over the past decade, actual mill recovery rates have been between 76.00% and 83.20%, averaging 80.36%. Given the long-term experience with potash geology and actual mill recovery at Vanscoy, no fundamental potash milling problems are anticipated in theforeseeable future.

Quality control testing and monitoring geared towards fine-tuning and optimizing potash milling and concentrating processes are conducted on a continual basis at our mine sites and research facilities. At Vanscoy, this is no exception; test work to optimize circuit performance and ensure product quality is carried out on an ongoing basis.

vi) Infrastructure, Permitting and Compliance Activities

Project Infrastructure

Infrastructure is in place to meet current and projected requirements for transportation, energy (electricity and natural gas), waterand process materials at Vanscoy.

Surface facilities are accessed by an existing paved road that is part of the Saskatchewan Provincial Highway System. Most finished potash products are shipped by rail over existing track, with some product shipped by truck over the North American highway system.

As per the Vanscoy Technical Report, high voltage power capacity at Vanscoy is 57 MVA. The ten-year projection of power utilization indicates that the utilitycan meet all foreseeable future demand.

The Vanscoy operation requires a sustained fresh water supply for the milling process which is provided by a waterline from the Saskatchewan River (approximately 20 km distant). This water supply is provincially licensed and provides a sustainable source of process water for Vanscoy milling operations with no known impact on other users of water in the area.

Environmental Studies, Permitting and Social or Community Impact

The Vanscoy TMA currently covers an area of approximately 610 hectares (1,507 acres) of land owned by the Company. Solid potash mine tailings typically consist of 85% to 95% rock salt (NaCl) and 5% to 15% insolubles (carbonate mud = CaCO₃, anhydrite mud = CaSO₄, and clays like chlorite, illite, and so on). An engineered slurry-wall (bentonite cut-off wall) has been constructed around the Vanscoy TMA. In future years this wall can be expanded if required for operational needs. The slurry-wall provides secondary containment for any saline mine waters, minimizing brine impacts from the TMA to surrounding surface water bodies and near-surface aquifers. Areas surrounding the TMA are closely monitored: this includes everything from daily visual perimeter inspections to annual investigations and inspections of surrounding groundwater and aquifers.

Vanscoy currently operates two brine disposal wells near the surface plant of the Vanscoy mine where clear salt brine (i.e., no silt, clay slimes, or other waste) is borehole-injected into the Winnipeg / Deadwood Formations, deep subsurface aquifers approximately 1,500 m to 1,700 m below the surface. The disposal wells are provincially licensed, and groundwater in these extensive deep aquifers is naturally saline.