

**Title: Technical Report Summary - Jansen
SEC S-K 229.1300 Technical Report Summary
Prefeasibility Study
Jansen Potash Project
Saskatchewan, Canada**

For the fiscal year ended: 30 June 2022

Report Prepared for

BHP Group Limited
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Note Regarding Forward Looking Statements

This Technical Report Summary (TRS) contains forward-looking statements, including: statements regarding trends in commodity prices and currency exchange rates; demand for commodities; resources, reserves and production forecasts; plans, strategies and objectives of management; operations or facilities (including associated costs); anticipated production or construction commencement dates; capital costs and scheduling; operating costs and supply of materials and skilled employees; anticipated productive lives of projects, mines and facilities; provisions and contingent liabilities; and tax and regulatory developments.

Forward-looking statements may be identified by the use of terminology including, but not limited to, 'intend', 'aim', 'project', 'see', 'anticipate', 'estimate', 'plan', 'objective', 'believe', 'expect', 'commit', 'may', 'should', 'need', 'must', 'will', 'would', 'continue', 'forecast', 'guidance', 'trend' or similar words. These statements discuss future expectations concerning the results of assets or financial conditions, or provide other forward-looking information.

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The production schedule data included in Sections 13 and 19 of this TRS has been prepared to demonstrate the economic viability of the mineral reserves of Jansen only and may differ from production guidance published by BHP from time to time in accordance with the relevant ASX Listing Rules. See Sections 11, 12, 16, 17, 18 and 19 for more information on the pricing and cost assumptions utilised to produce Jansen's production schedule data in this TRS.

Specifically, the production schedule data for the entire life of mineral reserves included in Sections 13 and 19 of this TRS has been prepared utilising the average of Nutrien's quarterly published offshore and onshore realised prices from Q1 2008 through Q4 2020 and annual costs sourced from bottom-up estimates, operational experience and benchmarking, budget quotes from potential vendors, design specifications, and currently contracted rates where applicable, whereas BHP's forward production and cost guidance published in accordance with the ASX Listing Rules are prepared utilising BHP's internally generated projected long-term commodity prices and cost assumptions. Therefore, the production schedule data included in this TRS may differ from BHP's production guidance published in accordance with the ASX Listing Rules.

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List of Abbreviations

The metric system has been used throughout this report. Tonnes are metric of 1,000 kg, or 2,204.6 lb. All currency is in U.S. dollars (US\$) unless otherwise stated.

Abbreviation	Unit or Term
A	ampere
AAS	atomic absorption spectroscopy
AES	atomic emission spectroscopy
AVDI	Annual visual dyke inspection
A/m ²	amperes per square metre
BMH	Bulk material handling
BP	Belle Plaine
BRZ	Brazilian Indirect Tensile Strength
°C	degrees Centigrade
CFR	Cost and Freight
Cm	centimetre
cm ²	square centimetre
cm ³	cubic centimetre
CMC	constant mean stress
CMR	Combined Magnetic Resonance
CSR	constant strain rate
CY	calendar year
°	degree (degrees)
DPM	Diesel Particulate Matter
DVS	Production Shaft
EBS	Extendable Belt System
EDF	Environmental Design Flood
EIA	Environmental Impact Assessment
EIS	Environmental Impact Statement
EMP	Environmental Management Plan
FMT	Formation Multi-tester
FOB	Free on Board
FOS	Factor of Safety
FTE	full-time equivalent
Ft	foot (feet)
FY	financial year
G	gram
Gal	gallon
GISTM	Global Industry Standard on Tailings Management
g/L	gram per litre
Gpm	gallons per minute
GPR	ground penetrating radar
GJ/year	gigajoules per year
Gpa	gigapascals
Ha	hectares
HDPE	High Density Polyethylene
Hp	horsepower
HRIA	Heritage Resource Impact Assessment
Hrs	hours
IA	Indigenous Agreement
ICP	inductively coupled plasma
IDF	Inflow Design Flood
IOC	Integrated Operations Centre
JEMP	Jansen Environment Management Plan
KCl	Potassium Chloride
Kg	kilograms
Km	kilometre
km ²	square kilometre
kPa	kilopascal
kV	kilovolt
kWh	kilowatt-hour
kWh/t	kilowatt-hour per metric tonne

Abbreviation	Unit or Term
L	litre
L/sec	litres per second
L/sec/m	litres per second per meter
L/y	litres per year
Lb	pound
LFA	Live Fluid Analyser
LHD	Long-Haul Dump truck
LLDDP	Linear Low Density Polyethylene Plastic
LoM	Life-of-Mine
LPL	Lower Patience Lake
LRMC	long run marginal cost
M	metre
m/s	metres per second
m ²	square metre
m ³	cubic metre
m ³ /y	cubic metres per year
m ³ /t	cubic metres per tonne
masl	metres above sea level
mD	milliDarcy
Ms	millisecond
MCM	Thousands of Circular Mills (thickness)
MDT	Modular Formation Dynamic Tester
mg/L	milligrams/litre
Mm	millimetre
MOE	Saskatchewan Ministry of Environment
MOP	Muriate of Potash
MPa	megapascals
Mt	million tonnes
Mtpa	million tonnes per year
MW	million watts
MWh/year	million watt hours per year
m.y.	million years
m/s	metres per second
NI 43-101	Canadian National Instrument 43-101
NMR	Nuclear Magnetic Resonance
NPI	Non – Process Infrastructure
OWL	Outer Welded Liner
%	per cent
PCS	Process Control System
PE	Prairie Evaporite
Psi	pounds per square inch
PVE	production volume estimate
QA/QC	Quality Assurance/Quality Control
RC	rotary circulation drilling
RoM	Run-of-Mine
RWW	Raw Water Well
SB	Shadow band
SS	Service Shaft
Sec	second
SER	Saskatchewan Ministry of Energy and Resources
SG	specific gravity
SME	subject matter expert
SRC	Saskatchewan Research Council
SRMC	short run marginal cost
SSEWS	Saskatoon Southeast Water Supply
STP	sewage treatment plant
T	tonne (metric ton) (2,204.6 pounds)
TCC	Tri-axial compression creep
TMA	tailing management area
Tph	tonnes per hour
TSF	Tailings Storage Facilities
UPL	Upper Patience Lake
US SEC	US Securities and Exchange Commission

Abbreviation	Unit or Term
UTM	Universal Transverse Mercator
V	volts
VIT	Vertical Interface Test
VFD	variable frequency drive
W	watt
WCSB	Western Canadian Sedimentary Basin
WRA	whole rock analysis
Y	year

1 Executive Summary

This report was prepared as a Prefeasibility Study-level Technical Report Summary in accordance with the US Securities and Exchange Commission (SEC) Regulation S-K (Title 17, Part 229, Items 601(b)(96) and S-K 1300) for BHP Group Limited on the Jansen Potash Project (Jansen) development stage property. BHP Group Limited has a 100 per cent ownership of Jansen.

On the 17 August 2021, BHP Group Limited approved US\$5.7 billion (CA\$7.5 billion) in capital expenditure for the Jansen potash project. This document describes the first phase of operations at Jansen, known as Jansen Stage 1, noting all future staged production expansion as beyond the scope of the document.

The scope of Jansen Stage 1 is currently comprised of:

- fully lined service shaft with permanent hoists capable of 1,750 tph, equipped with steel guides and loading/unloading to accommodate two 50-tonne skips and a 90-person service cage;
- A fully lined production shaft, known as Dalla Valle (DV) shaft. The existing sinking arrangement will undergo a hoist and headframe changeover to accommodate the interim hoisting requirements for the lateral connection of the two shafts and subsequent shaft pillar development. The DV shaft will also serve as secondary personnel and materials movement as well as second egress and return air ventilation circuit. This shaft will be fully equipped in subsequent stages;
- A shaft pillar area with skip loading facilities, conveyor networks, raw ore storage bin, remote ore storage area, refuge stations, workshops, materials management areas, offices, principal refuge chambers, mobile equipment battery charging stations, and parking areas;
- Establishment of two mining districts that each contain two production panels and supporting development units, and are connected to the shaft infrastructure through conveyor networks;
- Production and development mining equipment, including MF460 borers, extendable belt systems, continuous miners, batch haulage equipment, and supporting fleet of underground personnel and service vehicles;
- A 1,483 tph ore processing plant including:
 - Raw ore handling, storage, and crushing;
 - Process mill building wet area comprising attrition scrubbing, desliming, flotation, and debrining;
 - Process mill building dry area comprising drying, screening, compaction, and glazing;
 - Tailings processing, crystallizer, and reagents;
 - Product handling, storage, screening, and loadout;

- Non-process infrastructure, including a tailings management area, administration building, warehousing, workshops, utilities, on-site rail, and financial support for port facility conversion to ship product to overseas markets.

1.1 Property Description and Ownership

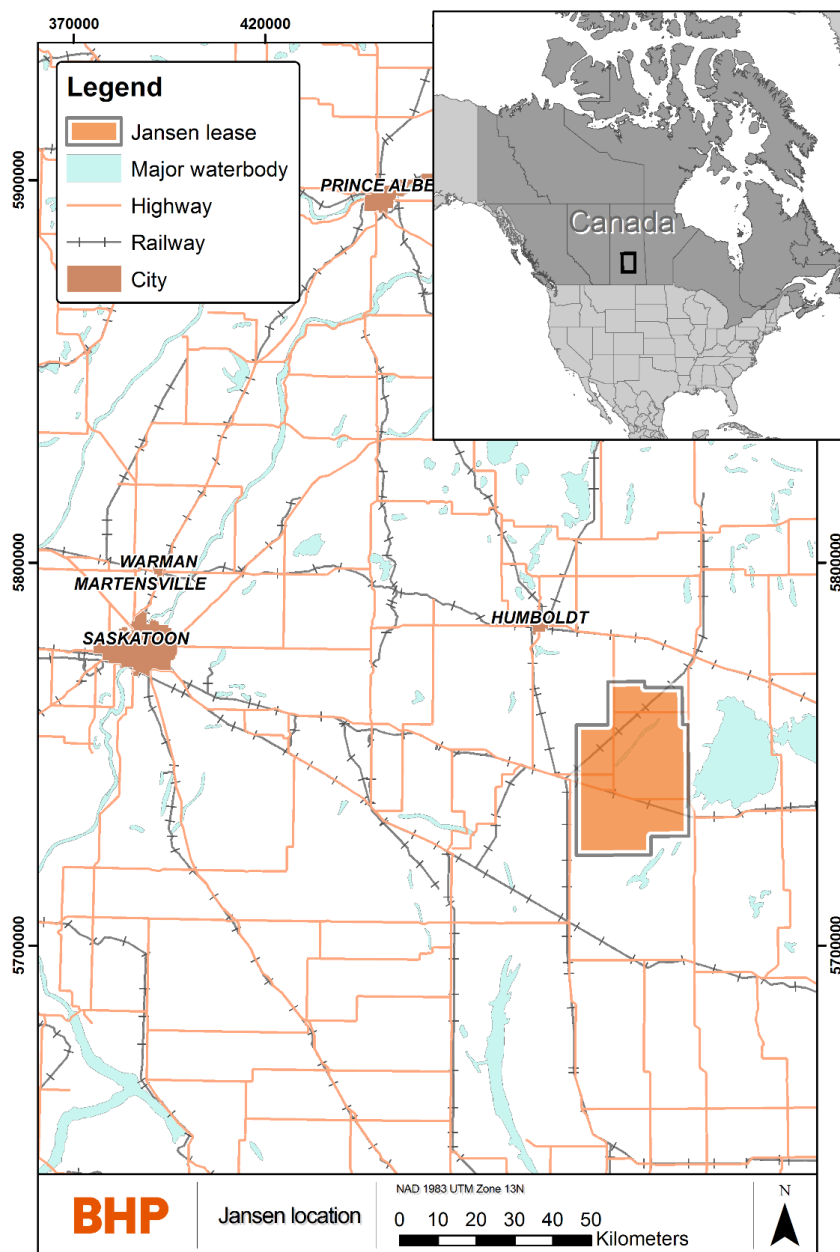


Figure 1-1: Location of the Jansen Potash Project

The Jansen Potash Project is located in the Province of Saskatchewan, Canada, approximately 150 kilometres east of the city of Saskatoon (Figure 1-1). The site is accessed by road from provincial Highway 16, approximately 12 kilometres to the south, and Highway 5, approximately 32 kilometres to the north. There is a commercial international airport located in Saskatoon.

The Jansen site is in a rural setting in Saskatchewan, Canada, with small farming communities located nearby. The closest city is Humboldt with a population of about 6,000, and is located approximately 60 kilometres away. The Jansen site is currently under active construction.

The Jansen project is located exclusively within the Subsurface Mineral Lease KLSA 011 ('KLSA 011'), which is wholly owned and operated by BHP Canada Inc. (BHP Canada). The KLSA 011 agreement gives BHP Canada the exclusive right to search for, dig, work, mine, extract, recover, process and carry away subsurface minerals under or within all of the Saskatchewan Crown mineral parcels. The term of the lease is twenty-one years, commencing on 23 November 2012, and is renewable at the option of BHP Canada for successive terms of twenty-one years each.

Most mineral parcels inside the boundaries of KLSA 011 are owned by the Saskatchewan Crown (~1,033 square kilometres). The remaining mineral parcels (~123 square kilometres) are owned by individuals and/or corporations.

1.2 Geology and Mineralisation

Potash is the common name given to a group of minerals and chemicals that contain potassium (K) which is a basic nutrient for plants and an important ingredient in fertilizer. Potash is produced as potassium chloride (KCl) in Saskatchewan from sylvinite rock that is a mixture of Sylvite (KCl) and Halite (NaCl) minerals. The KCl content is measured and refer to it in terms of potassium oxide (%K₂O) equivalence. %K₂O grade is equivalent to KCl content using the mineralogical conversion factor of 1.583. Jansen potash deposit is composed of combinations of halite (NaCl), sylvite (KCl) with variable mounts of disseminated insolubles and clay seams.

The Jansen potash deposit is located within the Williston Basin, a large, intracratonic, horizontally bedded sedimentary basin. The geology of the basin and its geological formations are well known from extensive exploratory drilling for hydrocarbons and minerals and from geophysical data collected since 1952. This basin wide geological information is publicly available from the Saskatchewan Geological Survey in the form of maps, cross-sections, drill hole-based formation contact identification, core from historical drill holes, and other publications. Potash exploration drill hole information in Saskatchewan becomes publicly available five years after drilling under current Saskatchewan regulations.

The potash beds are hosted within the Prairie Evaporite (PE) formation, in regionally extensive, horizontal layers during the repeated, cyclical evaporation of a shallow, inland sea during the Devonian period.

In Jansen, the potash is at a depth of approximately 800 metres to approximately 1,050 metres. Two Potash members are present in Jansen those being the Patience Lake and Belle Plaine members. The Patience Lake member is further subdivided into Upper Patience Lake (UPL) and Lower Patience Lake (LPL) sub-members. The LPL sub-member is the potash horizon targeted for Jansen. The LPL sub-member is composed of sylvite (KCl), halite (NaCl) with variable amounts of disseminated insolubles and clay seams. Carnallite (KCl.MgCl₂.6H₂O), a mineral which can impact processing and ground stability, occasionally occurs in place of sylvite within the potash layer. Carnallite can typically be mapped using 3D seismic survey information.

The potash deposit extends from east to west in the province and, based on information available to date, shows relative uniformity, except where there are anomalies due to local dissolutions of the potash beds or clay seams. The main types of anomalies are called washout, leach and collapse anomalies.

1.3 Status of Exploration, Development and Operations

The Jansen Project is a Greenfield underground potash mine currently in construction.

Drilling and seismic surveys (2D and 3D) are the primary methods for potash exploration. The area was explored by various companies starting in the 1950s. Modern exploration started in 2006 and was completed in 2012, with a drilling program and acquisition of 3D seismic surveys over 70 per cent of the Jansen lease completed.

The US\$4.5 billion (pre-tax) of capital invested in the Jansen Project by BHP to date includes funds allocated for construction of the shafts and associated infrastructure, as well as engineering and procurement activities, and preparation works related to underground infrastructure. The construction of two shafts and associated shaft infrastructure at the site is expected to be completed in the 2022 calendar year. Approximately 50 per cent of all engineering expected to be required to commence production has been completed.

A substantial portion of the site grading, drainage and road network that is expected to be required to commence mining/production is in place.

The site is connected to off-site infrastructure, including natural gas, temporary electrical power, communication fiber and non-potable water.

Additionally, there have been several facilities for both permanent operations and temporary construction purposes that have been installed to date as part of Jansen Stage 1 including:

- The Discovery Lodge camp (2,600 beds) for housing the construction work force
- A modern water treatment plant and raw water well for provision of potable water
- A sanitary sewage treatment plant
- Service and Production headframes
- Permanent cold storage warehouse & laydown areas for material storage/staging
- Guard houses and site fencing
- Storm water ponds and effluent storage facilities
- Environmental monitoring equipment for ground water, air quality, noise and vibration levels

Additional operational work is expected to be necessary beyond 2022 in line with the current six year construction schedule of Jansen Stage 1 that began in 2021 after its approval by the BHP Board of Directors (Board). Further stages of development of Jansen (beyond Jansen Stage 1) have not yet been approved by the Board.

1.4 Mineral Resources and Mineral Reserves Estimates

1.4.1 Mineral Resources

The Jansen Project is located in the Saskatchewan Potash Basin, one of the world's top three producing potash basins, with seven producing conventional mines and three producing solution mines. Based on the information available to date, the resource characteristics of Jansen are

comparable to the other potash mines in the area: the resources include an extensive area of shallowly dipping, consistent, large tonnage, high grade, potash at a depth between approximately 800 metres and approximately 1,050 metres.

The Lower Patience Lake potash sub-member from the top of the 406 clay seam to 3.96 metres below the top of the 406 clay seam is defined as the resource. The resource model generated from the drilling data and spatially dense 3D seismic data provides detailed information on the geological domains and on the qualities of the resource. Only Measured Resources have been converted to Probable Reserves.

Due to the extensive data coverage of over 70 per cent of the Jansen lease, no further exploration from surface is planned to validate the reported Mineral Resources and Mineral Reserves.

The Mineral Resources are reported exclusive of the Mineral Reserves. Summary Mineral Resources estimates for Jansen at the end of the Fiscal Year Ended 30 June 2022 are provided in Table 1-1.

Table 1-1: Jansen - Summary of Potash (Exclusive) Mineral Resources (as at 30th June 2022)

Potash ⁽¹⁾⁽²⁾	Mining Method	Measured Resources				Indicated Resources				Measured + Indicated Resources				Inferred Resources				BHP Interest %	
		Tonnage		Qualities		Tonnage		Qualities		Tonnage		Qualities		Tonnage		Qualities			
		Mt	O ₂ K% Insul%	O ₂ K% Insul%	O ₂ K% Insul%	Mt	O ₂ K% Insul%	O ₂ K% Insul%	O ₂ K% Insul%	Mt	O ₂ K% Insul%	O ₂ K% Insul%	O ₂ K% Insul%	Mt	O ₂ K% Insul%	O ₂ K% Insul%	O ₂ K% Insul%		
Canada Jansen ^{(3)(4)(5)(6)(7) (8)(9)(10)(11)}																			
LPL	UG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100
Total potash		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,280 25.6 7.7 0.08

(1) Mineral resources are being first time reported in accordance with S-K 1300 and are presented for the portion attributable to BHP's economic interest. All tonnes and quality information have been rounded, small differences may be present in the totals.

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

(3) Jansen, in which BHP has a 100% interest, is considered a material property for the purposes of item 1304 of S-K 1300.

(4) The point of reference for the mineral resources was in situ.

(5) Mineral resources estimate was based on a potash price of US\$338/t.

(6) Mineral resources are stated for the Lower Patient Lake (LPL) potash unit and using a seam thickness of 3.96 m from the top of 406 clay seam.

(7) Mineral resources are based on the expected metallurgical recovery of 92%.

(8) Potash or sylvite (KCl) content of the deposit is reported in potassium oxide form (K₂O). The conversion from KCl to K₂O uses a mineralogical conversion factor of 1.583, for example, 25.6% K₂O grade is equivalent to 40.5% KCl.

(9) % MgO is used as a measure of carnallite (KCl.MgCl₂.6H₂O) content where per cent carnallite equivalent = % MgO x 6.8918

(10) Mineral resources tonnages are reported on an in-situ moisture content basis and was estimated to be 0.3%.

(11) The sole purpose of the presented information above is to demonstrate the economic viability of the mineral reserves for the purposes of reporting in accordance with S-K 1300 only and should not be used for other purposes. The annual cash flow data was prepared based upon Pre-Feasibility-level studies and the historic average prices and costs described in this Technical Report Summary; it is subject to change as assumptions and inputs are updated. The information presented does not guarantee future financial or operational performance. The presented information contains forward-looking statements. Please refer to "Note Regarding Forward Looking Statements" at the front of this Technical Report Summary.

1.4.2 Mineral Reserves

Table 1-2: Jansen - Summary of Potash Mineral Reserves (as at 30th June 2022)

Potash ⁽¹⁾⁽²⁾	Mining Method	Proven Reserves				Probable Reserves				Total Reserves				BHP Interest %
		Tonnage		Qualities		Tonnage		Qualities		Tonnage		Qualities		
		Mt	%K ₂ O	%Insol	%MgO	Mt	%K ₂ O	%Insol	%MgO	Mt	%K ₂ O	%Insol	%MgO	
Canada														
Jansen														
(3)(4)(5)(6)(7)(8)(9)														
(10)														
LPL	UG	-	-	-	-	1,070	24.9	7.5	0.10	1,070	24.9	7.5	0.10	100
Total potash		-	-	-	-	1,070	24.9	7.5	0.10	1,070	24.9	7.5	0.10	

(1) Mineral reserves are being first time reported in accordance with S-K 1300 and are presented for the portion attributable to BHP's economic interest. All tonnes and quality information have been rounded, small differences may be present in the totals

(2) Jansen, in which BHP has a 100% interest, is considered a material property for the purposes of item 1304 of S-K 1300.

(3) The point of reference for the mineral reserves was ore as delivered to the mill for processing.

(4) Mineral reserves estimates were based on a potash price of US\$338/t.

(5) Mineral reserves estimates cut-off is a function of mining parameters and seam thickness. The calculated cut-off grade from economic modelling where the mine plan would be break-even is 11.6% K₂O.

(6) Mineral reserves are based on the expected metallurgical recovery of 92%.

(7) Potash or sylvite (KCl) content of the deposit is reported in potassium oxide form (K₂O). The conversion from KCl to K₂O uses a mineralogical conversion factor of 1.583, for example, 25.6% K₂O grade is equivalent to 40.5% KCl.

(8) % MgO is used as a measure of carnallite (KCl.MgCl₂.6H₂O) content where per cent carnallite equivalent = % MgO x 6.8918.

(9) Mineral reserves tonnages are reported on an in-situ moisture content basis and was estimated to be 0.3%.

(10) The sole purpose of the presented information above is to demonstrate the economic viability of the mineral reserves for the purposes of reporting in accordance with S-K 1300 only and should not be used for other purposes. The annual cash flow data was prepared based upon Pre-Feasibility-level studies and the historic average prices and costs described in this Technical Report Summary; it is subject to change as assumptions and inputs are updated. The information presented does not guarantee future financial or operational performance. The presented information contains forward-looking statements. Please refer to "Note Regarding Forward Looking Statements" at the front of this Technical Report Summary.

1.5 Mining Method

The Jansen Mine is expected to be an underground potash mine extracting the Lower Patience Lake sub-member within the Prairie Evaporite formation. The orebody gently undulates over large distances, has well defined boundary conditions, and has a reasonably consistent ore grade. Mining will take place on a single level in two separate districts.

The planned mining method is long room and pillar. Production mining rooms are expected to be excavated in two passes to a final width of 12 metres using track-mounted borer miners and extendable conveying systems. Mined ore is expected to be transported to the shaft area for hoisting using a roof or floor mounted conveyor network.

Pillars contribute to the mining room stability for safe working conditions and are derived from empirical and numerical models using expected geological conditions, depth, extraction ratio, extraction rates, and expected useful life of the entries. The mine has been designed with consideration of the expected geotechnical and hydrogeological conditions to manage the mining induced subsidence. Maintaining the integrity of the overlying shale, limestone and halite units act as a protective barrier from risk of brine inflow to the mine. The high density 3D seismic survey identifies the geological conditions that present an increased risk for fluid movement.

1.6 Processing and Recovery Methods

Unit operations that are expected to make up the Jansen processing facilities are common to conventional potash mines in Saskatchewan, and will include:

- Raw ore handling, storage, and crushing
- Process mill building wet area comprising attrition scrubbing, desliming, flotation, and debrining
- Process mill building dry area comprising drying, screening, compaction, and glazing
- Tailings processing, crystallizer, and reagents
- Product handling, storage, screening, and loadout

The Jansen Stage 1 process plant is designed to be a fit-for-purpose high-recovery facility, capable of processing 1,483 tonnes per hour wet basis (or 1,479 tph dry basis) of raw ore to produce red fertilizer grade potash (muriate of potash) sized for both standard and granular product types.

1.7 Infrastructure

Discovery Lodge, the Jansen construction camp, has been constructed, is currently in use and has a capacity of 2,600 people. Communications, power, water, and natural gas are provided by provincial crown corporations. The pipeline connection to the Saskatoon South East Water Supply system for Jansen's primary water use is complete. The natural gas supply pipeline has been installed and is in use at the on-site accommodation, sewage treatment plant, and concrete batch plant. Currently temporary construction power is provided by SaskPower with a 138 kV overhead line, with the permanent 230kV supply to be completed with mine construction.

Upgrades to the secondary roads to the Jansen mine site from the paved provincial highway network have been completed.

The Jansen project has two mine shafts, the service shaft (SS) and the production shaft (DVS). Both shafts have an internal diameter of 7.3 metres and are excavated to a depth of approximately 1,000 metres. Both shafts are lined with an integral hydrostatic concrete/steel composite design with waterproofing is provided by an integral outer welded liner from a depth of 835 metres.

The service shaft hoist system will use ground mounted Koepe hoists (friction hoists). The service shaft headframe is a typical A-Frame steel construction. The Service shaft permanent headframe, hoist houses, and collar house are constructed. The production shaft sinking headframe and ground mounted drum winders are installed and in use.

A third party rail provider will transport the potash produced from the Jansen site to the port terminal, located in Delta, British Columbia, Canada, which is owned and operated by a third party provider. The port facility will unload the railcars, store the product, and load shipping vessels.

1.8 Market Studies

Potassium content is commonly measured in units of potassium oxide (K_2O), (a notional substance), rather than units of K. MOP used in agricultural application is typically ~95 % KCl, which is equivalent to ~60 % K_2O ; this is in general the threshold required to qualify product in

most major agricultural markets. Jansen plans to sell two agricultural potash grades, red standard (~60 % K₂O equivalent, ~0.5 to 1 millimetres in size) and red granular (~60 % K₂O equivalent, ~3-4 millimetres in size) potash, to retain simplicity while seeking sufficient market access.

Global demand for potash fertilizers is driven by the need for higher crop production to feed a growing and more affluent, global population. It is also driven by the need to reduce reliance on native soil potassium, which in many places may be unable to support the necessary increase in crop yields. Historically, the relationship between population growth, crop production and potash demand has been reliable and therefore considered to provide a reasonable basis for projecting future fertiliser needs.

According to independent market analyst CRU, it estimates that about three-quarters of MOP production comes from underground ores – mainly located in Canada, Russia and Belarus. It is simple and established technology, low-cost and energy efficient. Much of the remainder is extracted from natural brines in China and the Dead Sea. Ore is most commonly processed through flotation that yields a product that is pink or red and usually about 95 per cent pure. Jansen is designed to employ conventional underground mining and flotation.

Most potash operations produce between 1 and 4 Mtpa. Most of the potash mines in Canada date back to a period of rapid development in the 1960s and 1970s, while much of the capacity in Russia and Belarus was built in the Soviet era. The potash industry structure is presently characterized by a small number of large suppliers. In terms of supply concentration, four producers (Nutrien, Mosaic, Uralkali and Belaruskali) are estimated to have accounted for ~65 per cent of global production in 2020.

It is expected that BHP will market directly to customers via a network of regional offices, leveraging BHP's existing global footprint and capabilities.

BHP is expected to focus on upstream Cost and Freight (CFR) sales and may benefit from being able to direct-rail to North American customers. Jansen is expected to have logistics optionality and flexible granular processing capacity that may enable a shift of sales between export regions and North America, depending on the market.

1.9 Capital and Operating Cost Estimates

The Capital Cost Estimate (Capex) and Operating Cost Estimate (OPEX) were developed by BHP Canada, its consultants and engineering service providers using processes to quantify, cost, and price the resource estimates that is included within the Jansen Stage 1 scope.

The Jansen Stage 1 scope includes a lined service and production shaft with the service shaft capable of hoisting 1,750 tph, mining equipment, underground development, and infrastructure necessary to support operations. A 1,483 tph processing plant and non-processing infrastructure, including a tailings management area. The total installed costs for Jansen Stage 1 is estimated to be Real CA\$5,513M inclusive of up to but not exceeding 15 per cent contingency, and an accuracy range of +/-25 per cent.

The OPEX for the Jansen project Stage 1 was developed to capture costs defined as Mine gate. This includes all costs spanning from the mining face underground to the loading of product to rail at site.

The Operating Cost Estimate includes all personnel and activities within the battery limits of the scope, and includes operational and statutory management, administration, and support personnel associated with the operation.

The average operating cost over the life of Jansen Stage 1 is estimated to be US\$61/tonne KCl. Cash operating cost includes a mixture of fixed and variable costs and are aligned with an assumed Mine gate sales point therefore exclude Port and off-site Rail cost.

1.10 Economic Analysis

The analysis that supports the Jansen Mineral Resource economic viability testing is an excel model based on annual cash flow projections. Annual cash flows projections include sales revenue (sales point FOB Mine), operating and closure costs, capital expenditures, royalties, income and production taxes.

The Jansen annual cash flow projections, utilizing the assumptions detailed within this report, result in a discounted after-tax cash flow of US\$5.5B, utilizing a 6.5 percent discount rate, and a IRR of 15.2 per cent. The Jansen project remains economically viable under a range of scenarios including deviations in price, production, foreign exchange rates, capital expenditures and operating costs.

1.11 Permitting Requirements

The Jansen Project Environmental Impact Statement (EIS), which BHP Canada submitted to the Saskatchewan Ministry of Environment in 2010, received Ministerial Approval on 29 June 2011.

Since the EIS approval, further engineering and project optimization was completed that resulted in changes to the mine plan, site layout, and schedule. To maintain Ministerial Approval, two submissions were made in November 2017 to the MOE Environment Assessment and Stewardship Branch under Section 16 of The Environmental Assessment Act. Approval was received for both submissions on 19 April 2018.

Following the Approval of the EIS, Jansen required federal, provincial and municipal permits and approval for construction and operation. Jansen maintains an electronic permit register that lists all permits for the Project. BHP Canada has received all permits that have been applied for to-date and expects to be able to obtain the required construction and operation permits for Jansen.

BHP Canada currently has a terminal services and development agreement in place with Westshore for this development and shipping services. All required permits for the facility development have not been issued.

1.12 Qualified person's conclusions and recommendations

It is the opinion of the Qualified Person, based on the available data, the known limitations of the data, interpretations, and methodologies, the Jansen Mineral Resource estimate is considered fit for purpose in supporting and forming the basis of the Mineral Reserves estimate.

No recommendations for further exploration have been identified during project execution and later in operations, geological mapping, interpretation and sampling programs implemented as part of the reconciliation process are expected to be sufficient to address the identified Mineral Resource uncertainties.

Uncertainties that affect the reliability or confidence in the Mineral Resource and Mineral Reserve estimate include but are not limited to:

- Future macro-economic environment, including product prices and foreign exchange rate
- Changes to operating cost assumptions, including labour costs
- Ability to continue sourcing water from the Saskatoon South East Water Supply
- Changes to mining, hydrogeological, geotechnical parameters and assumptions reflected in mining recovery
- Ability to maintain environmental and social license to operate
- Integrity of the shaft liner beyond the design life of 70 to 80 years.

Confidence in the Mineral Reserve is reflected in the applied reserve classifications in accordance with the US SEC S-K 1300 with factors influencing classification including but not limited to mining methods, processing methods, economic assessment and other life of asset and closure assessments.

In the opinion of the Qualified Person the confidence in the modifying factors is reasonably translated to the Probable Mineral Reserves characterisation and their derivation from Measured Resource estimates.

2 Introduction

2.1 Registrant for Whom the Technical Report Summary was Prepared

This Technical Report Summary was prepared in accordance with the new US Securities and Exchange Commission (US SEC) S-K regulations (Title 17, Part 229, Items 601 and 1300 through 1305) for BHP Group Limited (BHP) to support its declaration of Potash Mineral Resources and Mineral Reserves on its Jansen Potash Project (Jansen) for the fiscal year ended on 30 June 2022.

2.2 Terms of Reference and Purpose of the Report

This report covers Mineral Resources and Mineral Reserves and is issued in support of the BHP Canada Jansen Potash Project declaration. This document describes the first phase of operations at Jansen, known as Jansen Stage 1, noting all future staged production expansion as beyond the scope of the document.

This Technical Report Summary was prepared to support the disclosure of Mineral Resources and Mineral Reserves for the fiscal year ended on 30 June 2022 in compliance with the new US SEC S-K regulations (which came into effect on 1 January 2021). This report does not include any exploration results that are not part of Jansen's Mineral Resources or Mineral Reserves.

2.3 Sources of Information

This report is based on internal technical reports, studies, and field programs, published government reports, published government and historical data, and public information as cited throughout this report and listed in the Section 24., available at the time of writing this TRS.

Unless otherwise stated, all figures and images were prepared by BHP Canada. Units of measurement referenced in this report are based on local convention in use at the property and currency is expressed in US dollars.

Reliance upon information provided by the registrant is listed in Section 25 when applicable.

2.4 Details of Inspection

BHP has relied on the Qualified Persons listed in Table 2-1 to prepare the information and this report supporting its disclosure of Mineral Resources and Mineral Reserves at a Preliminary Feasibility Study-level. All Qualified Persons, except one, are full time employees of BHP, with the chapters and sections noted for which each Qualified Person is responsible for.

Table 2-1: List of Qualified Persons

QP Name	Relation to Registrant and their Role	Qualification	Professional Organization and Membership level	Years of Relevant Experience	Responsible for disclosure of
Balazs Nemeth	Full-time Employee / Principal Geophysicist	PhD Geophysics	MAUSIMM	20	Mineral Tenure & Mineral Resources – Section 1, 2, 3, 7 (excluding 7.3), 11, 20, 22.1, 24
Ozen Turkekul	Full-time Employee / Principal Geologist	B.Eng. Geological Engineering M.A.Sc. Economic Geology	APEGS	21	Mineral Resources – Section 1, 2, 4, 5, 6, 8, 9, 21, 22.1, 24
Johannes Sondergaard	Full-time Employee / Manager Resource Engineering	Bachelor of Science in Mining Engineering	MAUSIMM	18	Mineral Reserves – Section 1, 2, 12, 13, 15 (excluding 15.6, 15.9), 16, 17.4-17.7, 19, 22.2, 23, 24, 25
Cameron McKinnon	Full-time Employee / Manager Process Engineering	BEng Metallurgical Engineering	APEGS	26	Metallurgy, Processing - Section 1, 2, 10, 14
Darren Madsen	Full-time Employee / Principal Mining Engineer	B.Sc. Geological Engineering	APEGS	14	Mineral Reserves, Geotechnical – Section 1, 2, 7.4, 13.2.1
Bibek Shrestha	Full-time Employee / Specialist Hydrogeology	M.Sc. Hydrogeology	MAUSIMM	20	Hydrogeology - Section 1, 2, 7.3, 13.2.2
Greg Gauld	Full-time Employee / Head of Production	Bachelor of Applied Science	APEGS	19	Operating Costs - Section 1, 2, 18.1
Manjula Dissanayake	Full-time Employee /	BSc (honors) Quantity Surveying Masters Finance and Economics PhD Construction Engineering & Management	MRICS	18	Capital Costs - Section 1, 2, 18.2
Melanie Failler	Full-time Employee / Superintendent Environment	Bachelor of Science	ASPB	21	Environmental studies, Permitting - Section 1, 2, 17 introduction, 17.1, 17.2 (excluding 17.2.1, 17.2.2.), 17.3
Jacques Ouellet	Full-time Employee / Principal Shaft & Hoisting	B.Sc. A. Engineering, M.Sc. A. Ph.D.	APEGS	32	Shafts & Hoisting - Section 15.9
SNC Lavalin					Tailings disposal - Section 15.6, 17.2.1 17.2.2

Table 2-2 summarizes the details of the personal inspections on the property by each qualified person or, if applicable, the reason why a personal inspection has not been completed.

Table 2-2: Qualified Persons Site Visits

QP Name	Details of Inspection
J. Sondergaard	Focus on the early construction associated with the shafts and headframes, camp construction, water supply and treatment facilities, temporary and permanent utilities and offsite road infrastructure. (2018)
Cameron McKinnon	Many visits over 7 years for site familiarization and collaboration with site execution teams. I have also been involved with water treatment, freeze plant, and sewage treatment plant operations.
Jacques Ouellet	Completed several visits of site to inspect headframe and conduct shaft inspections during the period of 2015 to 2020. Due to COVID 19 restrictions, have not conducted physical on-site visits over the 2021 to 2022 period.
Greg Gauld	Site visit to review the installation of the Mining System in Germany was completed in the fall of 2019. No other physical site inspections were completed as the operations costs are based on the as designed and planned operations that are not present at this time. Any inspection of the current site would not reflect the future operations drivers.
Ozen Turkekul	Multiple underground visits especially around the potash zone during shaft sinking and station cutting for geological characterization and sampling in 2018.
M. Failler	Frequent site visits since January 2019, including environmental field programs and supporting external inspections and audits
D. Madsen	Underground visit and inspection of clay seams at shaft station level during sinking.
B. Nemeth	Exploration drilling and seismic 2008-2010
B. Shrestha	Annual site visits since 2015 to inspect monitoring wells and download data.

2.5 Report Version Update

This Technical Report Summary is not an update of a previously filed Technical Report Summary.

3 Property Description

3.1 Property Location

The Jansen Potash Project is located in the Rural Municipalities of Leroy and Prairie Rose in Central Saskatchewan, Canada, approximately 150 kilometres east of the city of Saskatoon. The Legal Land Description of the Shafts and future surface plant is Section 12 Township 34 Range 20 West of 2nd Meridian. The project is easily accessible by public highways. The general location is shown on the map in Figure 3-1.

The Jansen Mine Service Shaft location details are found in Table 3-1.

Table 3-1: Jansen Service Shaft Coordinates

Longitude -	104°42'53.44"W
Latitude -	51°53'56.62"N
Elevation –	544 meters metres above sea level
Northing -	5749850
Easting -	519620
Projection –	UTM
Datum –	NAD83
Zone -	

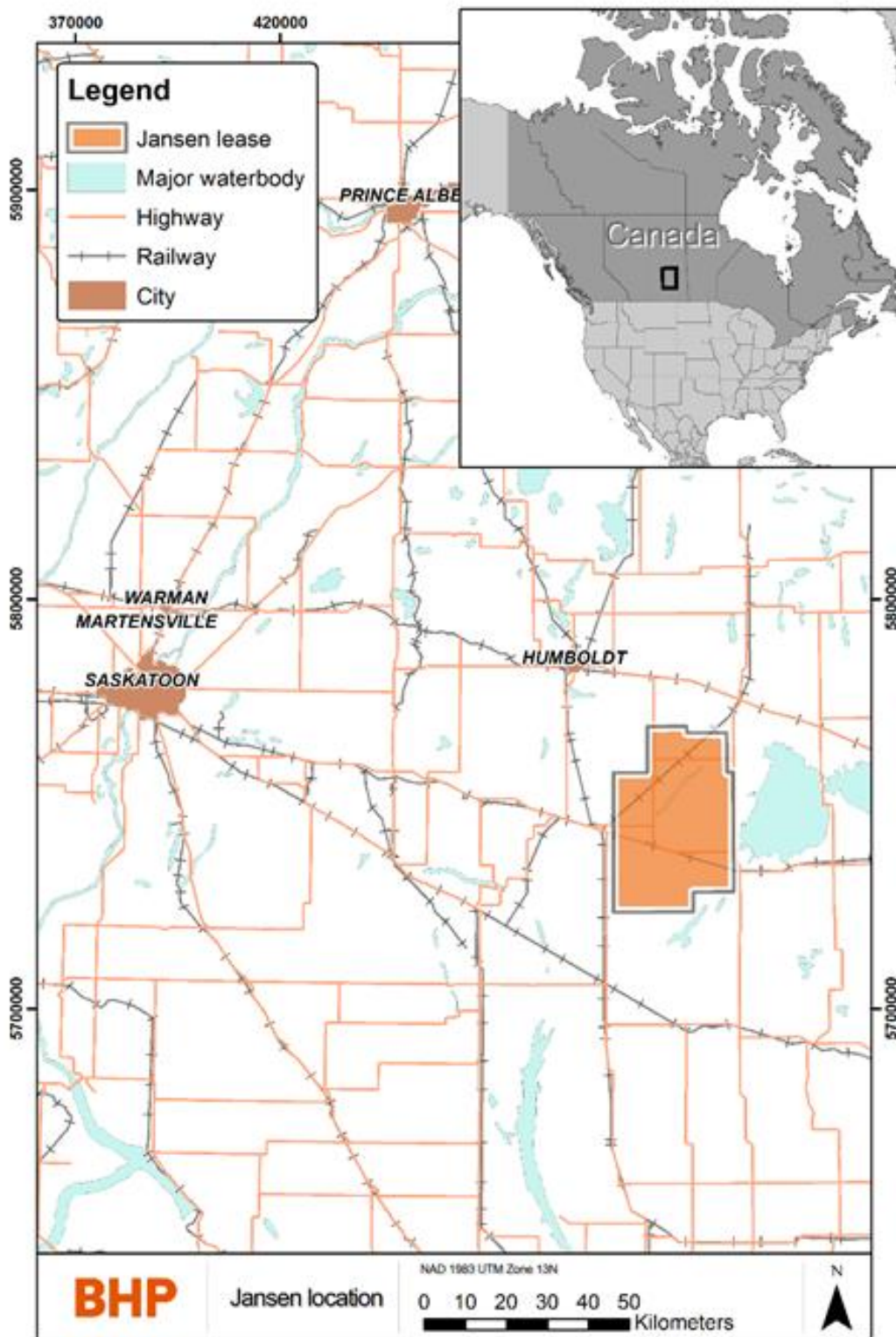


Figure 3-1: Location Map of Jansen

3.2 Mineral Tenure

The total area of the Jansen Project lease is approximately 1,156 square kilometres. Most mineral rights parcels are owned by the Saskatchewan Crown, the remaining mineral parcels are owned by individuals and/or corporations (Figure 3-2). The annual mineral lease rental payments

payable to the Government of Saskatchewan and private individuals or corporations are listed in Table 3-2.

Table 3-2: Jansen Main Lease Areas and associated payments

Lease Number	Lease Holder	Expiration Date	Area (Ha)	Annual Rental Payment CA\$
KLSA 011	BHP Canada Inc.	22/11/2033	105,662.36	1,056,623.66
DSP-MRA-JANSEN-ML-000649	BHP Canada Inc.	15/08/2033	129.69	640.94
DSP-MRA-JANSEN-ML-000366	BHP Canada Inc.	07/11/2033	63.94	316
DSP-MRA-JANSEN-ML-000512	BHP Canada Inc.	13/06/2033	97.88	483.7
DSP-MRA-JANSEN-ML-000556	BHP Canada Inc.	23/07/2033	129.36	639.3
DSP-MRA-JANSEN-ML-000703	BHP Canada Inc.	05/11/2033	128.89	636.96
DSP-MRA-JANSEN-ML-000557	BHP Canada Inc.	23/07/2033	129.74	641.16
DSP-MRA-JANSEN-ML-000686	BHP Canada Inc.	07/05/2033	64.67	319.58
DSP-MRA-JANSEN-ML-000603	BHP Canada Inc.	24/09/2030	56.66	280
DSP-MRA-JANSEN-ML-000606	BHP Canada Inc.	24/09/2030	56.66	280
DSP-MRA-JANSEN-ML-000516	BHP Canada Inc.	03/06/2033	16.09	79.52
DSP-MRA-JANSEN-ML-000665	BHP Canada Inc.	27/02/2034	0.40	2
DSP-MRA-JANSEN-ML-000518	BHP Canada Inc.	30/04/2033	16.18	79.96
DSP-MRA-JANSEN-ML-000491	BHP Canada Inc.	30/04/2033	16.18	79.96
DSP-MRA-JANSEN-ML-000502	BHP Canada Inc.	27/05/2033	64.67	319.58
DSP-MRA-JANSEN-ML-000662	BHP Canada Inc.	13/02/2034	60.76	300.3
DSP-MRA-JANSEN-ML-000673	BHP Canada Inc.	04/04/2033	2714.80	13416.56
DSP-MRA-JANSEN-ML-000195	BHP Canada Inc.	10/05/2032	32.17	159
DSP-MRA-JANSEN-ML-000196	BHP Canada Inc.	10/05/2032	32.17	159
DSP-MRA-JANSEN-ML-000191	BHP Canada Inc.	10/05/2032	32.17	159
DSP-MRA-JANSEN-ML-000192	BHP Canada Inc.	10/05/2032	32.17	159
DSP-MRA-JANSEN-ML-000193	BHP Canada Inc.	10/05/2032	32.17	159
DSP-MRA-JANSEN-ML-000194	BHP Canada Inc.	10/05/2032	32.17	159
DSP-MRA-JANSEN-ML-000525	BHP Canada Inc.	25/07/2033	64.81	320.3
DSP-MRA-JANSEN-ML-000504	BHP Canada Inc.	14/06/2033	64.94	320.92
DSP-MRA-JANSEN-ML-000680	BHP Canada Inc.	13/03/2035	258.18	1275.94
DSP-MRA-JANSEN-ML-000593	BHP Canada Inc.	20/11/2033	12.72	62.88
DSP-MRA-JANSEN-ML-000363	BHP Canada Inc.	23/04/2033	10.84	53.58
DSP-MRA-JANSEN-ML-000604	BHP Canada Inc.	30/05/2031	64.75	320
DSP-MRA-JANSEN-ML-000561	BHP Canada Inc.	24/09/2033	63.81	315.34
DSP-MRA-JANSEN-ML-000501	BHP Canada Inc.	15/06/2033	193.61	956.84
DSP-MRA-JANSEN-ML-000608	BHP Canada Inc.	14/10/2033	64.84	320.44
DSP-MRA-JANSEN-ML-000492	BHP Canada Inc.	19/04/2033	10.84	53.58
DSP-MRA-JANSEN-ML-000514	BHP Canada Inc.	05/04/2033	64.41	318.32
DSP-MRA-JANSEN-ML-000655	BHP Canada Inc.	16/04/2033	31.95	157.88
DSP-MRA-JANSEN-ML-000520	BHP Canada Inc.	15/06/2033	130.00	642.44
DSP-MRA-JANSEN-ML-000759	BHP Canada Inc.	16/01/2034	32.44	160.32
DSP-MRA-JANSEN-ML-000650	BHP Canada Inc.	05/01/2034	0.40	2
DSP-MRA-JANSEN-ML-000656	BHP Canada Inc.	03/01/2034	0.40	2
DSP-MRA-JANSEN-ML-000653	BHP Canada Inc.	05/01/2034	0.40	2
DSP-MRA-JANSEN-ML-000847	BHP Canada Inc.	20/06/2034	63.19	312.28
DSP-MRA-JANSEN-ML-000651	BHP Canada Inc.	12/12/2033	16.09	79.52
DSP-MRA-JANSEN-ML-000503	BHP Canada Inc.	03/06/2033	16.09	79.52
DSP-MRA-JANSEN-ML-000370	BHP Canada Inc.	23/05/2033	64.72	319.86
DSP-MRA-JANSEN-ML-000559	BHP Canada Inc.	23/04/2033	129.75	641.24
DSP-MRA-JANSEN-ML-000449	BHP Canada Inc.	05/03/2033	129.74	641.16
DSP-MRA-JANSEN-ML-000685	BHP Canada Inc.	09/04/2035	60.59	299.44
DSP-MRA-JANSEN-ML-000447	BHP Canada Inc.	03/05/2033	126.96	627.46
DSP-MRA-JANSEN-ML-000657	BHP Canada Inc.	28/03/2033	65.11	321.76
DSP-MRA-JANSEN-ML-000508	BHP Canada Inc.	23/07/2033	64.88	320.64
DSP-MRA-JANSEN-ML-000658	BHP Canada Inc.	12/12/2033	12.72	62.88
DSP-MRA-JANSEN-ML-000506	BHP Canada Inc.	01/05/2033	65.03	321.36

DSP-MRA-JANSEN-ML-000497	BHP Canada Inc.	30/04/2033	32.48	160.5
DSP-MRA-JANSEN-ML-000496	BHP Canada Inc.	17/02/2033	63.86	315.6
DSP-MRA-JANSEN-ML-000740	BHP Canada Inc.	19/03/2033	159.86	790.04
DSP-MRA-JANSEN-ML-000605	BHP Canada Inc.	16/09/2031	11.53	57
DSP-MRA-JANSEN-ML-000777	BHP Canada Inc.	06/08/2033	16.22	80.14
DSP-MRA-JANSEN-ML-000535	BHP Canada Inc.	19/07/2033	48.67	240.52
DSP-MRA-JANSEN-ML-000616	BHP Canada Inc.	19/08/2033	16.22	80.14
DSP-MRA-JANSEN-ML-000494	BHP Canada Inc.	18/03/2033	63.82	315.42
DSP-MRA-JANSEN-ML-000513	BHP Canada Inc.	19/03/2033	0.84	4.14
DSP-MRA-JANSEN-ML-000737	BHP Canada Inc.	06/11/2035	0.57	2.8
DSP-MRA-JANSEN-ML-000711	BHP Canada Inc.	03/04/2034	128.78	636.44
DSP-MRA-JANSEN-ML-000510	BHP Canada Inc.	26/03/2033	32.46	160.44
DSP-MRA-JANSEN-ML-000742	BHP Canada Inc.	19/04/2033	32.46	160.4
DSP-MRA-JANSEN-ML-000536	BHP Canada Inc.	22/07/2033	16.09	79.52
DSP-MRA-JANSEN-ML-000601	BHP Canada Inc.	13/05/2031	32.38	160
DSP-MRA-JANSEN-ML-000602	BHP Canada Inc.	13/05/2031	32.38	160
DSP-MRA-JANSEN-ML-000652	BHP Canada Inc.	17/12/2033	12.72	62.88
DSP-MRA-JANSEN-ML-000668	BHP Canada Inc.	24/03/2034	32.46	160.4
DSP-MRA-JANSEN-ML-000738	BHP Canada Inc.	21/02/2034	12.72	62.88
DSP-MRA-JANSEN-ML-000715	BHP Canada Inc.	12/12/2033	12.72	62.88
DSP-MRA-JANSEN-ML-000564	BHP Canada Inc.	15/04/2033	64.58	319.16
DSP-MRA-JANSEN-ML-000365	BHP Canada Inc.	15/04/2033	32.28	159.54
DSP-MRA-JANSEN-ML-000666	BHP Canada Inc.	27/02/2034	0.40	2
POT-Jansen-ML-000848	BHP Canada Inc.	17/05/2033	65.05	321.46

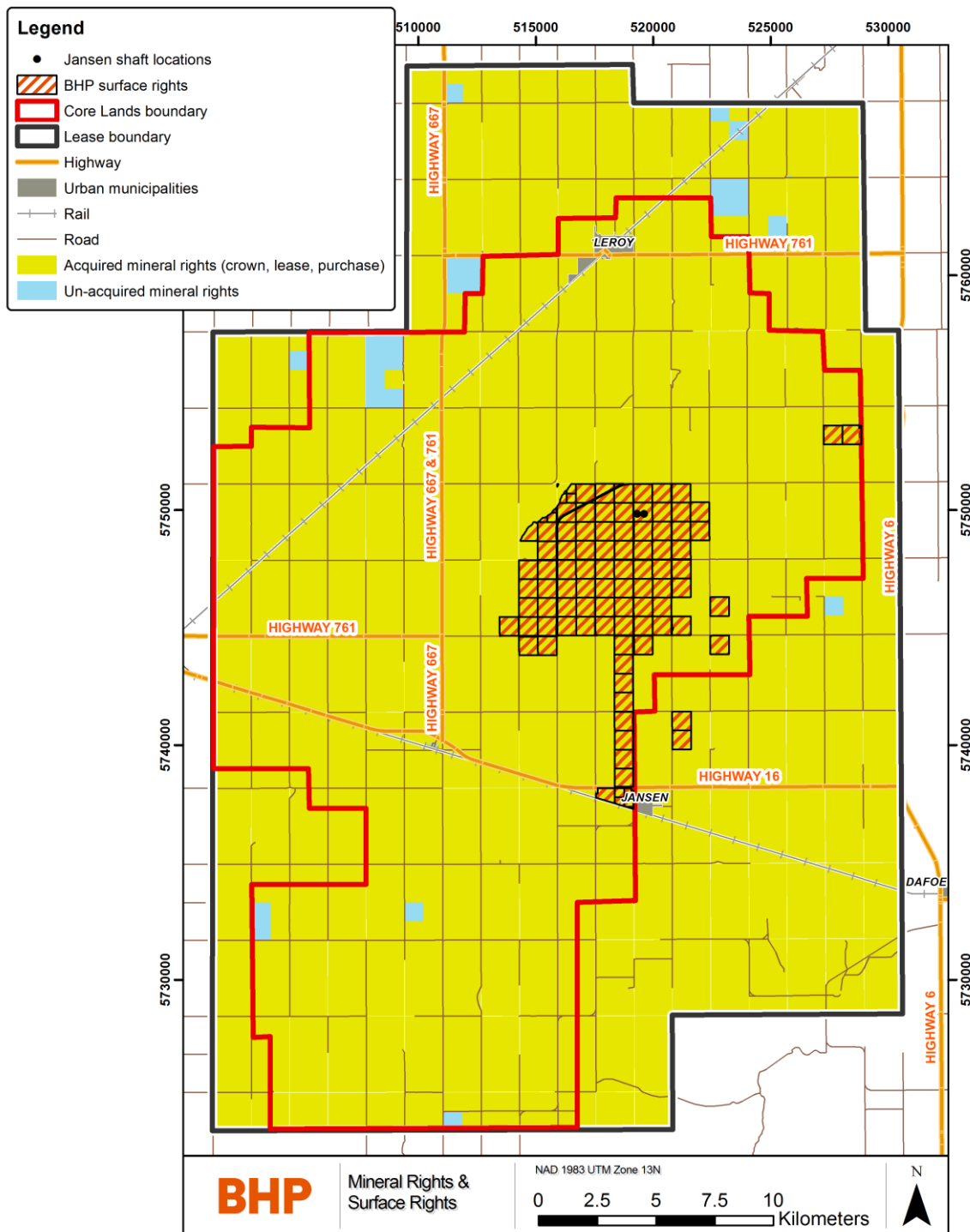


Figure 3-2: Lease Areas of Jansen

3.3 Mineral Rights Description and How They Were Obtained

On 23 November 2012, the Government of Saskatchewan and BHP Canada entered into Potash Lease Special Agreement KLSA 011. This agreement gives BHP Canada the exclusive right to search for, dig, work, mine, extract, recover, process, and carry away subsurface minerals under or within all of the Saskatchewan Crown mineral parcels of KLSA 011. The lease pertains to two categories of lands, shown in Figure 3-2 and consisting of:

1. 'KLSA 011 Core Lands' comprising primarily the Mineral Reserves
2. 'KLSA 011 Expansion Lands', and additional area outside Mineral Reserves that includes the primarily Inferred Resource.

To gain access to the potash within mineral parcels owned by individuals and/or corporations ('freehold mineral lease'), BHP must either purchase the mineral parcels or negotiate mineral lease agreement(s) with the registered owner(s) of the mineral parcel(s). The freehold mineral leases secured by BHP Canada have a term of twenty-one years and are renewable at the option of BHP for successive terms of twenty-one years each. An annual rental payment of CA\$4.94/hectare (CA\$2/acre) is also paid to keep these leases in good standing.

During the first three years of the KLSA 011 lease, BHP Canada was required to complete CA\$12M of work on the lease area. This work commitment has been met using excess exploration work credits completed on the exploration permits prior to the Jansen exploration permits conversion to KLSA 011.

All surface lands that form part of the Jansen mine operations footprint have been acquired by BHP Canada. The total surface area acquired by BHP Canada is shown in Figure 3-2.

Table 3-3: Summary of Jansen land position

Jansen Mineral Rights details				
	Area Hectares	Area Acres	Area km ²	%
Jansen project total lease area	115638	285747	1156.38	100
KLSA 011 Core lands	63939.43	157997.78	639.39	55
KLSA 011 Expansion lands	41724.73	103104.06	417.25	36
BHP Canada acquired freehold mineral rights	8997.56	22233.45	89.98	8
Total of Core, Expansion, and acquired freehold mineral rights	114661.72	283335.29	1146.62	99

3.4 Encumbrances

There have been no significant encumbrances to the property identified as of the date of this report. Federal, provincial and municipal permits and approval for construction and operation have been received. All material permits that have been applied for to-date have been received. Based on the LoA Plan additional permits and approvals will become necessary. The Qualified Person believe that Jansen will reasonably be able to obtain the required construction and operation permits for the Project based on the LoA Plan.

3.5 Other Significant Factors and Risks

It is the opinion of the Qualified Person that based on the available information and current regulations there are no significant risks to the mineral tenure that would affect access or mineral title and the ability of BHP to work on the property.

3.6 Royalties or Similar Interest

A Provincial Potash Crown Royalty is payable under *The Subsurface Mineral Royalty Regulations, 2017*. Royalties are based on the value of potash produced from Crown mineral lands. The royalty rate is 3 per cent, and the value is determined as the average price realized by

the producer in the year, as governed by revenues and sales under *The Saskatchewan Potash Production Tax Regulations*.

4 Accessibility, Climate, Local Resources, Infrastructure, and Physiography

4.1 Topography, Elevation, and Vegetation

The topography of the Jansen site is generally flat with elevations that range between 540 metres and 545 metres. The site slopes 0.3 per cent from northwest to southeast. The site is composed of agricultural fields, with patches of trees and small wetlands. Non-contact runoff water collects in a wetland area to the east of the site, then drains to Hatke Lake approximately 10 kilometres northeast of the site. Jansen Lake and Lanigan Creek are located northwest of the Hatke Lake drainage basin.

4.2 Means of Access

The site is accessed by road from provincial Highway 16 approximately 12 kilometres to the south and Highway 5 approximately 32 kilometres to the north. Access to the site from these highways will use upgraded secondary and/or primary roads from the Village of Jansen to the south and the Town of LeRoy to the north. Railway access is expected to be available from both national rail networks will be from a spur line from the south (Figure 3-2) and are subject to future applications and agreements.

4.3 Climate and Length of Operating Season

The Jansen area experiences a climate which is typical of the Canadian prairies: a humid continental climate (Köppen climate classification - Dfb) featuring long, cold winters and brief, warm summers. High temperatures range from 15°C in May to the mid-30s°C in July and August with moderate precipitation. Winter normally begins in November and temperatures generally remain below the freezing point. In cold snaps temperatures may drop as low as -40s°C. Mild spring weather usually begins by April. Annual precipitation averages 30 to 45 centimetres. Operations can continue throughout the year.

4.4 Infrastructure and Availability

On-site infrastructure is expected to include power distribution, raw water storage and distribution, potable water treatment, fire water distribution, diesel fuel storage and distribution, natural gas distribution, ancillary buildings and facilities, Tailings Management Area (TMA), sewage system, waste collection, site drainage, on-site roads, on-site rail, communications and technology infrastructure, the process control system, and the temporary construction facilities. On-site utilities are expected to be distributed in a combination of pre-cast trenches, direct buried cables, and buried pipes for water, sanitary effluent, and natural gas. Diesel fuel is expected to be delivered to site and stored in a contained area. Fuel for the mining equipment is expected to be delivered underground by totes using the Service shaft.

Operations facilities are expected to consist of the administration building (containing the mill and mine dry, offices, training, and security), warehousing, maintenance workshop, vehicle maintenance facility, emergency response facility, mill support facility, laboratory, compressor building, rail support facility and main water pump house.

Off-site infrastructure for the Jansen Project is executed through contractual agreements with third parties using defined battery limits on the project site. Off-site utilities are provided by the Crown corporations of the Province of Saskatchewan (i.e., SaskPower, TransGas and SaskEnergy, SaskWater, and SaskTel). All public roads in Saskatchewan are owned by the Crown in right of Saskatchewan. Rural municipalities have authority to direct, control, and manage the roads within their municipality.

4.5 Water

The raw water system consists of the incoming water supply line from SaskWater and groundwater sourced from the existing Raw Water Well 1 (RWW 1). Primary water supply will be surface water from the Saskatoon South East Water Supply (SSEWS) system delivered by pipeline from the Zelma Reservoir to the site by SaskWater. Based on available information, the capacity of the water supply pipeline is expected to be 7M m³/y for the Jansen project. The SaskWater line has a capacity of 9.2M m³/y and supplies other consumers besides the Jansen Project. Back-up water supply will be sourced from the Empress Group Aquifer through the constructed on-site RWW 1.

4.6 Electricity

Permanent power is contracted to be supplied by SaskPower using 230 kV overhead lines terminating at the 230 kV main plant substation dead-end structure (the point of common coupling). Currently temporary power is provided by SaskPower with a 138 kV overhead line.

4.7 Personnel

Employees of Jansen mine are anticipated to reside in several existing communities located in the area. The potash mining industry has a long history of providing employment in the province and communities within driving distance of the site are in the process of preparing for the growth brought on by investment decisions to further develop Jansen.

4.8 Supplies

The Jansen project is connected to a primary weight, asphalt surface network of highways and has year-round access for trucking of materials to/from the site. On-site warehousing will be provided to manage inventory requirements of the operating mine. In addition to road access there will be connections to both of the major rail providers in Canada.

5 History

5.1 Previous Operations

The Saskatchewan potash basin has a long history of exploration and mining operations since the 1950s. BHP will be the first mining operation owner at the Jansen location.

5.2 Exploration and Development by Previous Owners or Operators

The Potash Company of America initiated potash exploration work in the Jansen area in 1952. Alwinal Potash of Canada followed this with further work in 1959. Kerr-McGee Oil Industries Inc. carried out the main historical exploration phase between September 1962 and October 1965. The period 1965 to 2005 saw no further significant exploration activities for potash in the Jansen area. In 2005, Anglo Minerals Ltd., a small junior company registered an extensive land package of potash exploration permits surrounding the producing Potash mines in the Saskatoon area, which included the Jansen project area.

In September 2005, Anglo Minerals Ltd. published a Canadian National Instrument (NI 43-101) report based on historical drilling, which included a resource estimate for exploration permit KP286 only, (Halabura et al. 2005). A small 3D seismic survey was completed from October 2005 to March 2006 for the part of Jansen area. An additional NI 43-101 report, which included the results of the 3D seismic and covered KP285, KP286, and KP290, was issued in November 2006 (Halabura and Gebhardt, 2006).

Kerr-McGee Oil Industries Inc. drilled all the historical holes on the Jansen Project, except for two (07-01 and 07-06), during the period from September 1962 to October 1965. The earliest two holes were drilled by the Potash Company of America Limited in December 1952 (07-01) and Alwinal Potash of Canada Limited in June 1959 (07-06). Table 5-1 shows the full list of historical holes.

Table 5-1: Summary of exploration drilling by previous owners

BHP ID	CWI	DRILL HOLE TYPE	Owner	Easting (m)	Northing (m)	KB elevation (m)	TOTAL DEPTH (m)	HOLE DIP
07-01	SK0001200	Historic exploration	Potash Company of America Ltd.	504598.4	5739717.0	539	996.7	Vertical
07-02	SK0011162	Historic exploration	Kerr-McGee Oil Industries Inc.	506560.6	5744544.0	538	993.6	Vertical
07-03	SK0011129	Historic exploration	Kerr-McGee Oil Industries Inc.	502979.1	5746198.5	542	1002.8	Vertical
07-04	SK0009464	Historic exploration	Kerr-McGee Oil Industries Inc.	506262.8	5747138.5	537	973.8	Vertical
07-05	SK0011265	Historic exploration	Kerr-McGee Oil Industries Inc.	506225.2	5749925.5	544	982.7	Vertical
07-06	SK0007349	Historic exploration	Alwinal Potash of Canada Ltd.	502991.2	5756045.5	551	1033.6	Vertical
08-01	SK0011401	Historic exploration	Kerr-McGee Oil Industries Inc.	520908.5	5749484.5	544	964.7	Vertical
08-03	SK0012931	Historic exploration	Kerr-McGee Oil Industries Inc.	523917.4	5754314.5	541	938.5	Vertical
08-04	SK0011508	Historic exploration	Kerr-McGee Oil Industries Inc.	520847.4	5754837.0	540	935.7	Vertical
08-05	SK0004216	Historic exploration	Kerr-McGee Oil Industries Inc.	520626.1	5732004.0	529	1025	Vertical

BHP ID	CWI	DRILL HOLE TYPE	Owner	Easting (m)	Northing (m)	KB elevation (m)	TOTAL DEPTH (m)	HOLE DIP
08-08	SK0009433	Historic exploration	Kerr-McGee Oil Industries Inc.	514190.5	5743747.5	550	990	Vertical
08-09	SK0011403	Historic exploration	Kerr-McGee Oil Industries Inc.	517441.4	5743801.0	544	990.6	Vertical
08-10	SK0011482	Historic exploration	Kerr-McGee Oil Industries Inc.	519061.4	5745531.0	544	977.8	Vertical
08-11	SK0011267	Historic exploration	Kerr-McGee Oil Industries Inc.	519060.1	5747989.5	546	978.1	Vertical
08-12	SK0011383	Historic exploration	Kerr-McGee Oil Industries Inc.	515813.7	5747978.0	547	978.4	Vertical
08-13	SK0011128	Historic exploration	Kerr-McGee Oil Industries Inc.	520687.2	5751039.0	541	957.4	Vertical
08-14	SK0011358	Historic exploration	Kerr-McGee Oil Industries Inc.	517609.3	5751220.0	547	960.7	Vertical
08-15	SK0011376	Historic exploration	Kerr-McGee Oil Industries Inc.	514644.0	5751209.5	544	981.5	Vertical
08-16	SK0011483	Historic exploration	Kerr-McGee Oil Industries Inc.	515795.3	5754604.0	546	947.9	Vertical
08-17	SK0011268	Historic exploration	Kerr-McGee Oil Industries Inc.	519360.3	5759215.0	544	935.7	Vertical
08-18	SK0010280	Historic exploration	Kerr-McGee Oil Industries Inc.	510902.5	5751009.0	542	957.4	Vertical
08-19	SK0011164	Historic exploration	Kerr-McGee Oil Industries Inc.	510928.9	5747022.0	549	991.2	Vertical
09-08	SK0005768	Historic exploration	Kerr-McGee Oil Industries Inc.	516047.1	5724592.0	533	1158.2	Vertical
09-14	SK0016476	Historic exploration	Kerr-McGee Oil Industries Inc.	504306.9	5727442.5	544	1217.7	Vertical
11-03	SK0011269	Historic exploration	Kerr-McGee Oil Industries Inc.	525569.7	5744790.0	536	951.9	Vertical
11-04	SK0016602	Historic exploration	Kerr-McGee Oil Industries Inc.	523465.3	5763933.0	543	1068.3	Vertical

Details of Kerr-McGee's drilling program are limited to available drilling reports filed with the Saskatchewan Ministry of Energy and Resources (SER). The holes were completed with either a T-22, Ideco 25 or Stratmaster 90 drilling rig.

A descriptive lithologic log of the cuttings and core is still available to view for these drill holes. Analytical samples were cut from the core of the Upper Patience Lake (UPL), Lower Patience Lake (LPL) and Belle Plaine (BP) members. The split core samples were wrapped in double acetate bags and shipped to the Kerr-McGee research laboratory for analysis. In keeping with Saskatchewan government regulations, the cuttings, core and the other half of sample splits were delivered to the Subsurface Laboratory in Regina.

Drilling reports, which are available at the Saskatchewan government website, indicate that the quality and consistency of the work is very good and the core recovery is indicated to be 100 per cent in the mineralized zone.

All geochemical analysis from all the Kerr-McGee drill holes, except the first three holes drilled prior to 1964, appears to have been completed at the same research laboratory, using the same analysis suite for every hole. For the initial three Kerr-McGee holes (i.e., 08-08, 07-04, 08-18), the analysis is restricted to K₂O% and insolubles%.

It is the Qualified Person's opinion that the historical drilling, coring, assaying quality requirements for the mineral resource K₂O grade estimation for Jansen are met.

6 Geological Setting, Mineralization, and Deposit

6.1 Regional Geology

The Phanerozoic sedimentary wedge covers much of western Canada (Figure 6-1). It thickens southwest from the exposed Canadian Shield to a preserved thickness of over 6 kilometres to the west and over 3 kilometres to the south. This sediment cover is divided into several intracratonic basins, including the Liard Basin, Alberta Basin, and Williston basin. The Canadian segment of this sediment cover is also known as the Western Canadian Sedimentary Basin (WCSB).

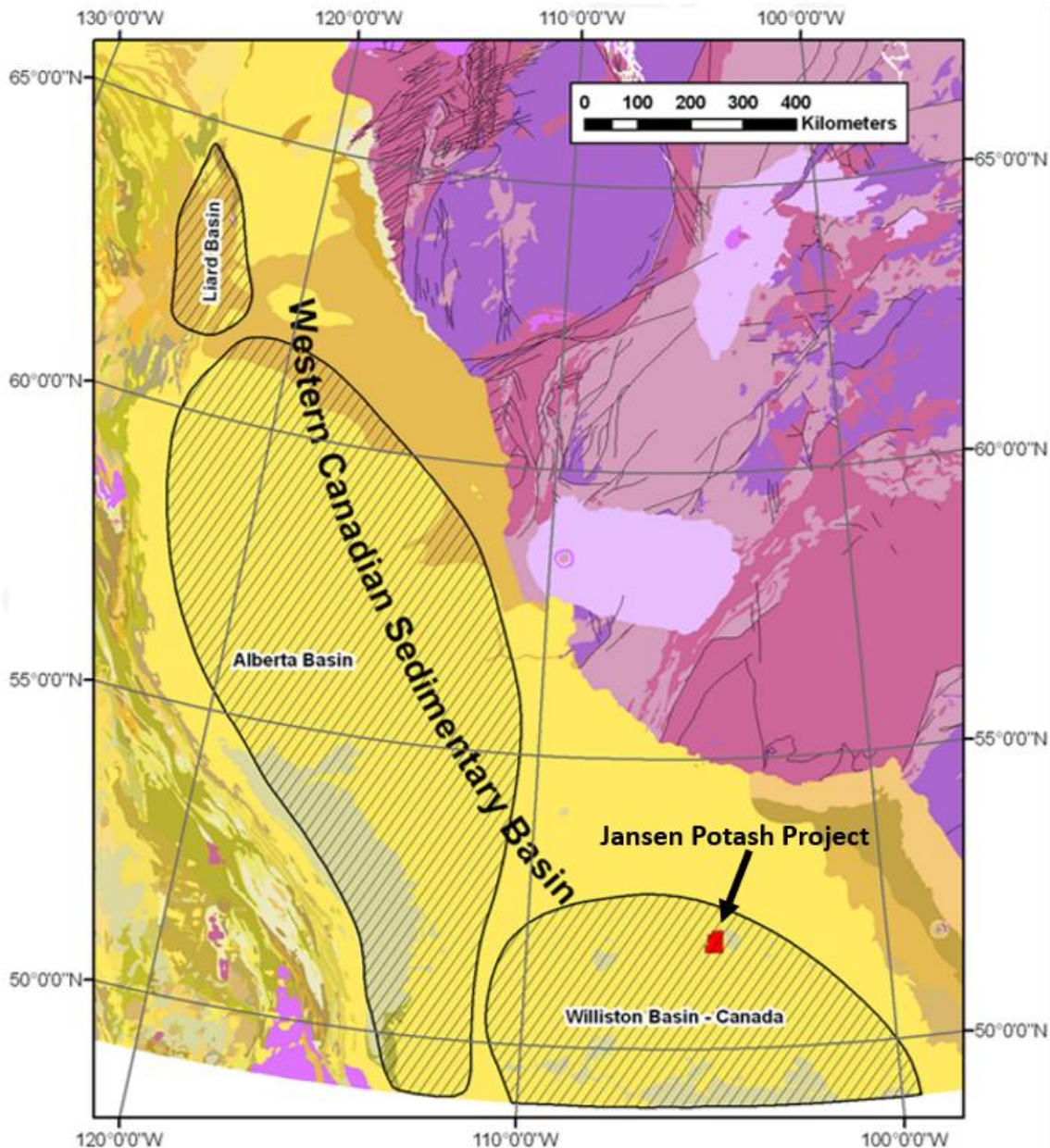


Figure 6-1: Regional Geology Map – Western Canadian Sedimentary Basin (Geological Map of Canada – Geological Survey of Canada).

6.2 Local Geology

During the Middle Devonian period, the Alberta Basin and the Williston Basin formed one larger unit, the Elk Point Basin, which was connected to the ocean in the northwest (Figure 6-1). Later,

basin restrictions began to increase its salinity and induced the deposition of the Prairie Evaporite (PE) which hosts the potash bearing members. Middle Devonian cyclic deposition continued with Manitoba Group and Saskatchewan Group after the Elk Point Group sediments.

The Jansen potash deposit is located within the Williston Basin, a large, intracratonic, structurally simple, and horizontally bedded sedimentary basin. The Williston Basin extends from southern Saskatchewan, Canada into the northern states of the United States of America. Figure 6-2 shows the extents of potash distribution with the Williston Basin.

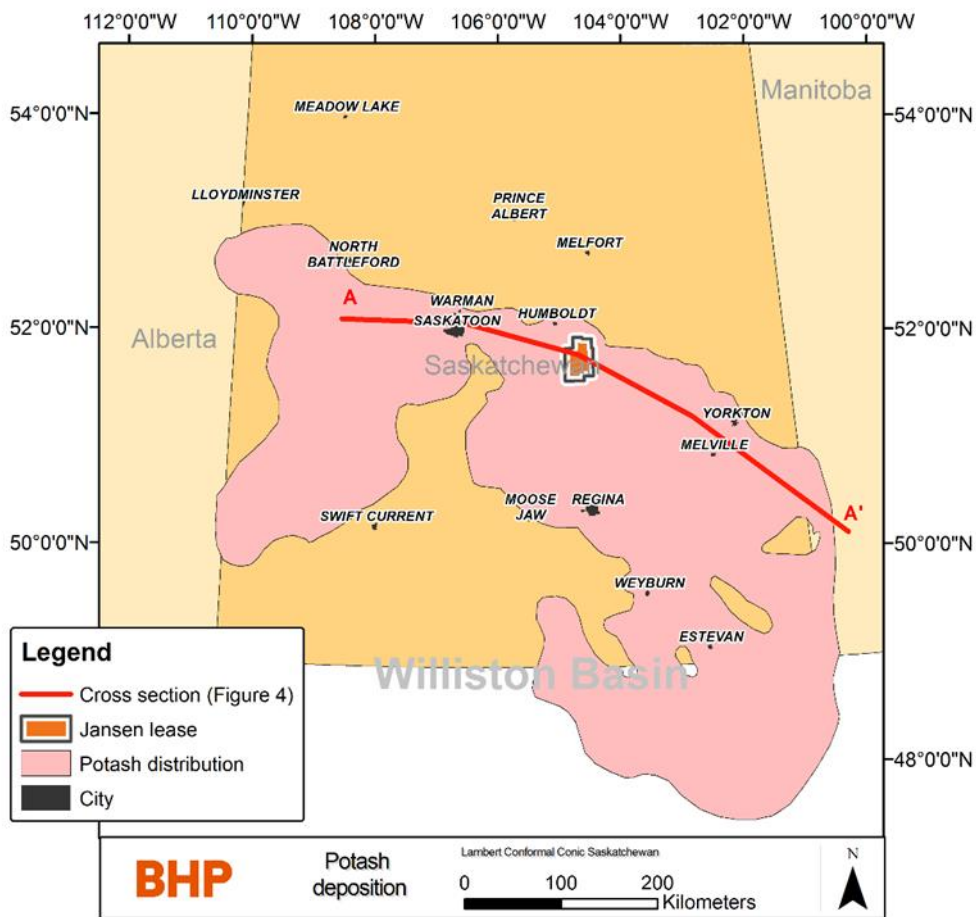


Figure 6-2: Map of potash distribution within the Williston Basin (modified from Fuzesy (1982))

Deposition of sediments in the basin began during the Cambrian geological time period, followed by an intense period of limestone, dolomite, evaporite, sandstone, and shale deposition during the geological time periods Ordovician, Silurian, and Devonian ending with Cretaceous sediments. Figure 6-3 shows a schematic cross section focussed on members of interest in the Jansen area, location of the cross-section A-A' shown in Figure 6-2.

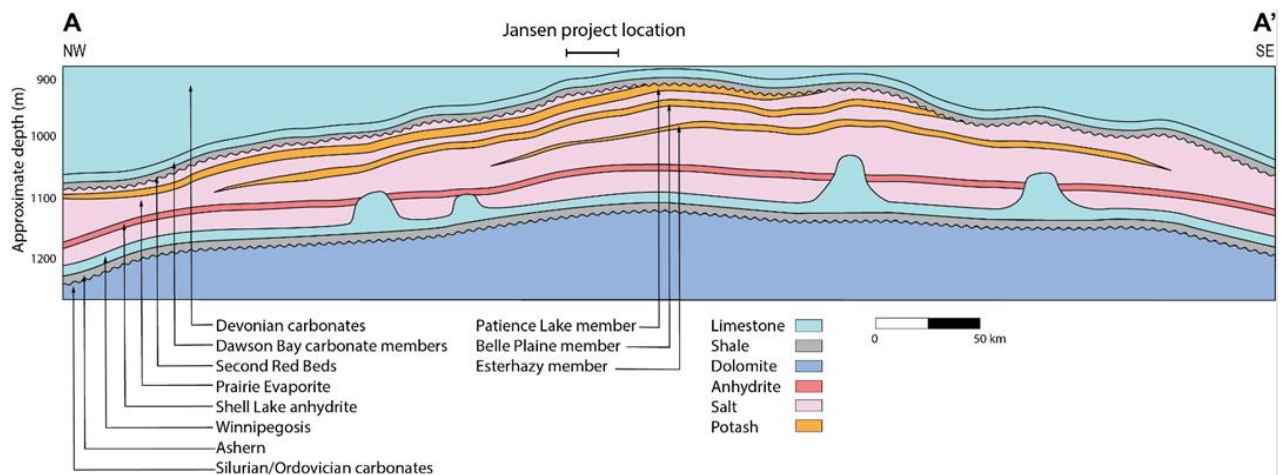


Figure 6-3: Schematic geological section showing the potash members of the PE Formation. The location of the section is shown on Figure 6-2:

Figure 6-4 shows the full stratigraphic column from surface, including the key members for the Jansen potash project area.

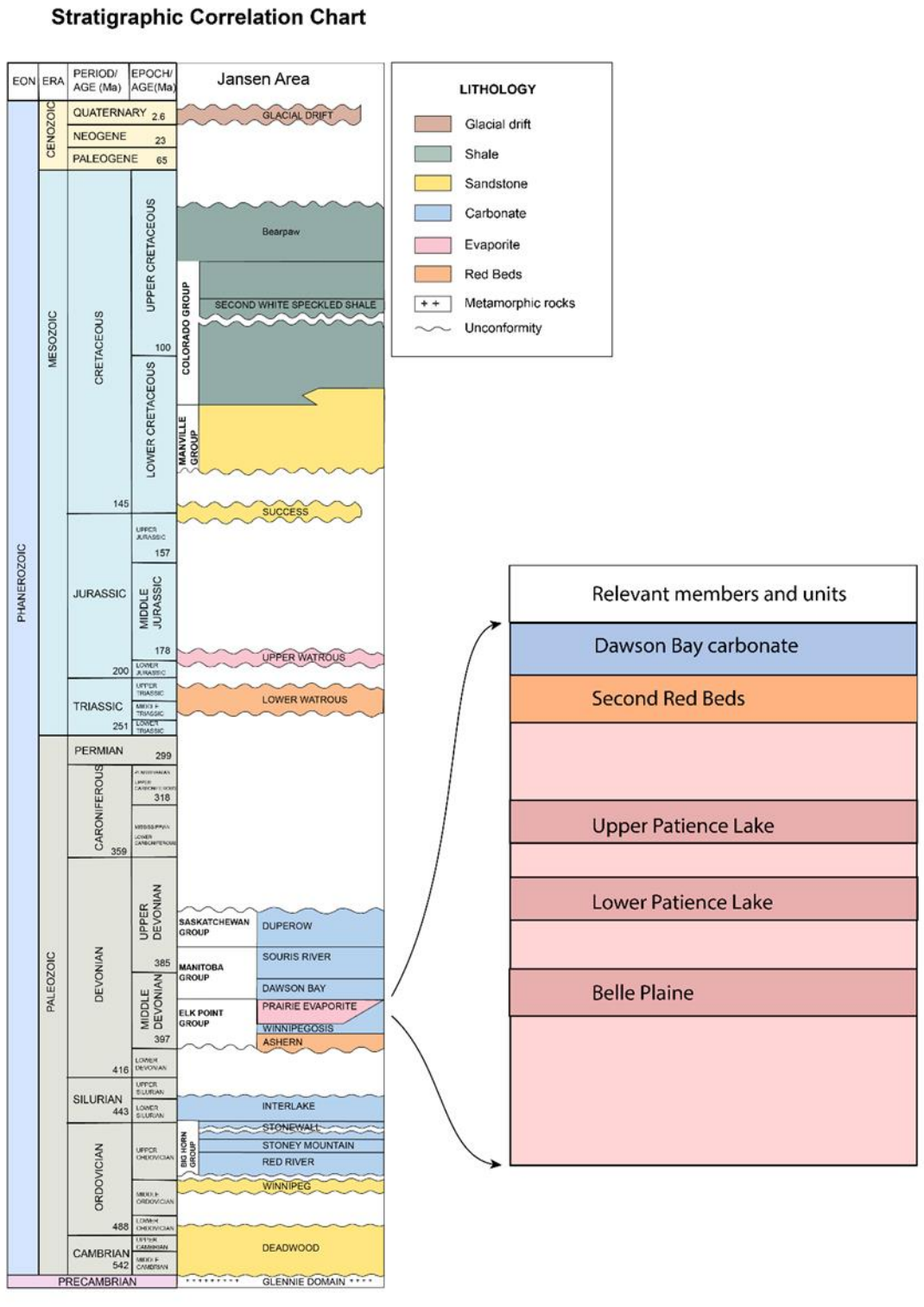


Figure 6-4: Stratigraphic column for the Jansen area (after Stratigraphic Correlation Chart economy.gov.sk.ca, 2016).

6.3 Property Geology

There is no visible rock outcrop at Jansen, the property is relatively flat open Prairie type farm land and a thick layer (100+ metres) of glacial drift deposits over lie the Cretaceous age, Bearpaw shale formation (Figure 6-4). The potash beds are approximately 900 metres below surface, at the top of the PE Formation which conformably overlies the predominantly carbonate layers of

Winnipegosis Formation. There are three main potash bearing members present in the PE Formation. Two are present in the Jansen area, those being the Patience Lake and Belle Plaine members. The Patience Lake member is further subdivided into Upper Patience Lake (UPL) and Lower Patience Lake (LPL) sub-members (Figure 6-4 and

Figure 6-5). The LPL sub-member is the potash horizon targeted for Jansen. These potash members were deposited in regionally extensive (hundreds of kilometres), horizontal layers during the repeated, cyclical periods of evaporation of a shallow, inland sea during the Devonian Period. Mineralization within the potash layers consists of a layered, repetitive sequence of sylvite (KCl) with halite (NaCl) and thin layers of insoluble dolomitic clay material (clay seams). Carnallite (KCl.MgCl₂.6H₂O), a mineral which can impact processing and ground stability, occasionally occurs in place of sylvite within the potash layer.

The Dawson Bay formation, includes the Second Red Beds member and the Dawson Bay carbonate members on top and overlays the PE Formation (Figure 6-4).

Approximately 400 metres below the PE Formation are the Cambrian-Ordovician Winnipeg and Deadwood formations. Sediments of these formations were deposited in near shore, shallow water marine environments on top of the Precambrian rocks. The coarse to fine sands of the formations, host a vast deep saline aquifer that is used for brine disposal.

6.4 Mineral Deposit

The Jansen LPL sub-member is hosted within the PE Formation, and was deposited in regionally extensive, horizontal layers during the repeated, cyclical evaporation of a shallow, saltpan environment during the Devonian period. LPL potash is composed of combinations of halite (NaCl), sylvite (KCl) with variable amounts of disseminated insolubles and clay seams (

Figure 6-5).

The LPL is subdivided into four mineralization cycles for detailed geological characterization of the potential mining horizon. The LPL sub-member is an approximately five metres thick potash unit interspersed with thin clay seams. The LPL top is marked by a clay seam (named the 406) that is overlain by an approximately 2.5 metres thick halite unit. The bottom of the LPL unit is marked by a clay seam (named the 401). The mineralization of the LPL is restricted to the 406 to 401 interval. The clay seams are consistent throughout the potash basin and the Jansen area and can be easily correlated between the drill holes.

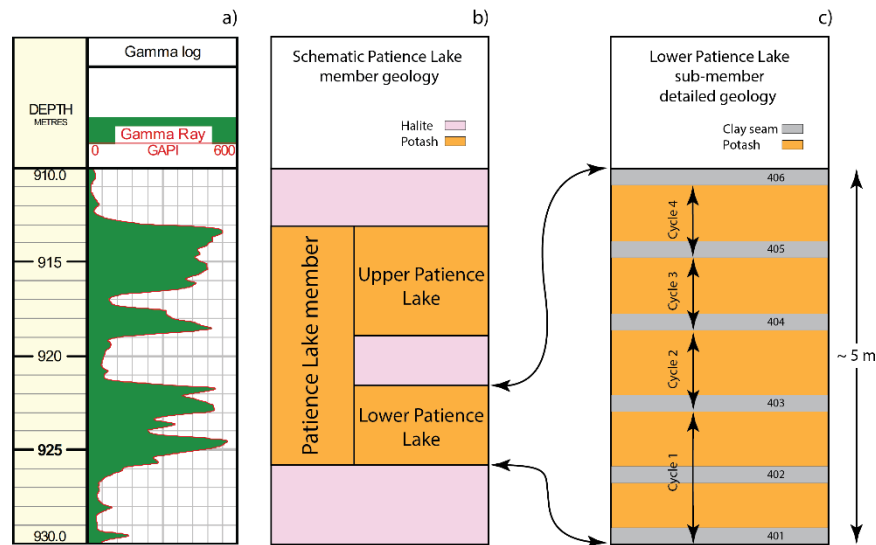


Figure 6-5: Detailed stratigraphy of the Patience Lake Member.

Safe mining practice in the Prairie Evaporate Formation requires a competent rock immediately above the top of the LPL sub-unit. The interval between the 406 and 407 clay seams, mainly consists of halite with some minor insoluble bands, traditionally known as the Shadow band (SB) and Henry Marker (HM). These are considered potential geotechnical hazards as they, in some areas, weaken the mining roof and may require extra ground support or additional cutting and increase the dilution. Their effect was taken into account in reserve calculations.

The Saskatchewan potash deposit is an example of a Potash hosting Evaporite sequence. This large and flat deposit extends from east to west in the province and shows relative uniformity, except where there are anomalies due to local dissolutions of the potash beds or clay seams. There is also no faulting at the level of the potash beds.

The main types of anomalies defined by Mackintosh and McVittie (1983) are called washout, leach and collapse anomalies. The generic classification is still valid, although the anomalies can be seen with different combinations (Figure 6-6). Washout and leach anomalies are also called no-potash anomalies. Collapse anomalies are characterized by a loss of recognizable potash strata through salt dissolution, replaced by brecciated, re-cemented, and recrystallized material, with breccia blocks typically derived from the overlying strata. Diameters may range from several tens of metres up to hundreds of metres. These cylindrical structures are characterized by the complete or near complete destruction of the original geological layering, as observed on seismic data by the total or almost total loss of reflection.

Collapse anomalies have been classified based on the level of connectivity to water sources and size to help standardize the terminology. Class 1 is the highest risk class as the Prairie Evaporate Formation and overlying carbonate units are altered and disturbed on the seismic data. Class 2 shows disturbed Devonian Carbonates and Class 3 type collapse anomalies are typically restricted to the Dawson Bay and Second Red Beds formations. During the exploration program these features are mapped using 3D seismic surveys, (see Section 7.1.4 for details).

Carnallite occurrences are also considered as anomalies. Carnallite is undesirable in the mining and processing environment. Its physical properties effect ground conditions negatively and

relatively low potassium and high magnesium content can interfere with ore processing. High carnallite content areas are mapped with 3D seismic surveys and avoided in the mine plan.

The geology of the basin and its geological formations are well known from extensive exploratory drilling for hydrocarbons and minerals and from geophysical data collected since 1952. This basin wide geological information is publicly available from the Saskatchewan Geological Survey in the form of maps, cross-sections, drill hole-based formation contact identification, core from historical drill holes, and other publications. Potash exploration drill hole information is confidential for the first five years after drilling, afterwards it becomes publicly available.

It is the Qualified Person’s opinion that Saskatchewan’s potash deposition geology is well understood based on mining in the region for 60 years and available information. The data collected for the Jansen potash project and interpretation based on the data collected is consistent with this current understanding.

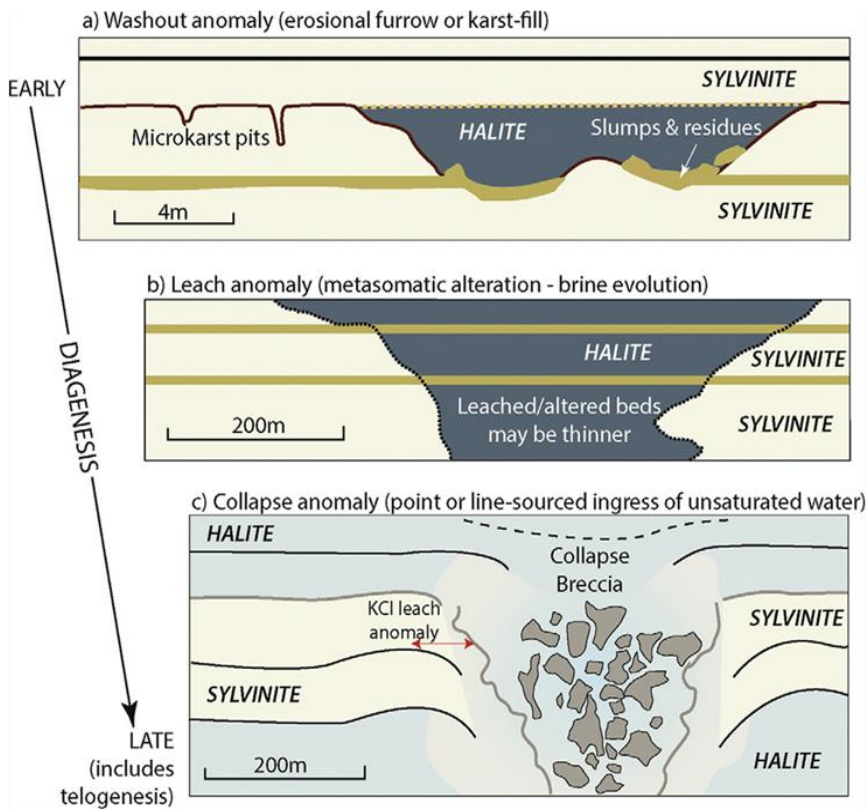


Figure 6-6: Three main types of anomalies (Mackintosh and Mc Vittie (1983)).

7 Exploration

The main exploration methods for potash in Saskatchewan are drilling and reflection seismic surveys. Drilling is typically conducted using petroleum industry rotary rigs to obtain core samples and to acquire rock property measurements with geophysical well logging tools lowered into the drill hole. Reflection seismic surveys are acquired along lines (2D) or over an area (3D) to obtain images of subsurface geology. The seismic data are used for mapping geological structures and to obtain subsurface rock physical property information. Figure 7-1 shows the potash exploration coverage, including seismic surveys and drilling.

7.1 Exploration Work (Other Than Drilling)

BHP Canada reflection seismic surveys include the following:

- Reconnaissance 2D seismic surveys between June 2007 and August 2007.
- Two 3D seismic surveys were completed from October 2007 to March 2008 and from October 2008 to March 2009.

7.1.1 Procedures and Parameters Relating to the Surveys and Investigations

BHP Canada geophysicists and their representatives were involved in the design, planning, field acquisition, and processing of all the surveys.

Both the 2D and 3D seismic surveys are designed to provide the optimal image of the subsurface geology from the base of the Cretaceous age sediments (~ 400 metres depth) to the top of the Precambrian (~ 1,500 metres depth).

The east-west 2D survey lines are spaced 3.2 kilometres (2 miles) apart, with occasional north-south lines connecting them at approximately 20 kilometres apart. Placement of the 2D seismic survey lines utilized the grid roads established by the Dominion Land Survey system.

The 3D seismic surveys are positioned over areas that appeared to be the most prospective based on the interpretation of the 2D data. Large 3D seismic surveys are acquired in 400 to 600 square kilometre pieces over several data collection seasons. The 3D seismic survey field operations are carried out in winter, between October and March, to minimize the impact on farming and environment.

Seismic data processing history:

- The 2D survey data were first commercially processed in 2007, immediately after acquisition. In 2009, the 2D line data were re-processed with the supervision of BHP Canada geophysicists.
 - The 3D seismic surveys data were processed as individual surveys, immediately after acquisition. The BHP Canada 3D seismic surveys were merged with the 2006 Anglo Minerals 3D seismic survey during processing, and the volumes were merged.
 - In 2011, the three 3D seismic volumes were combined at the field data level and were reprocessed to provide one single, jointly processed time volume.
-

- Development in seismic processing algorithms warranted another joint re-processing in 2016. The work on this version incorporated all the learnings gained by the BHP Canada geophysicist interpreting the 2011 version.
- In 2018/2019 new processing work (Pre-Stack Depth Migration) was carried out on the joint 2016 data that provided an enhanced subsurface image volume in depth.

7.1.2 Sampling Methods and Sample Quality

Table 7-1: Seismic survey sampling

Survey	Horizontal trace spacing	Subsurface fold at Prairie Evaporite	Vertical sampling
2D	10 m along the line	~ 75	1 ms
3D	30 m both in X and Y direction	~ 15	1 ms (time volumes) 2 m (depth volumes)

The quality of the collected seismic data is continuously monitored during acquisition. This includes monitoring field equipment performance, environmental noise, and collected geographical survey information. If any parameters exceeded the defined threshold, the acquisition is stopped until the problem is fixed, or in the case of weather-related delays until conditions improve. Geographic survey information is checked and verified independently by a third-party surveying company.

The seismic data processing workflow includes further strict QA/QC steps that seek to ensure the highest possible quality results, which included among other things:

- checking source and receiver locations
- removing noisy recordings
- testing parameters for each processing step and comparing data before and after subsequent steps

Processed seismic lines/volumes at different stages of the workflow were delivered to BHP Canada's site geophysicist for evaluation and quality checking and feedback was provided to the processors.

7.1.3 Information about the Area Covered

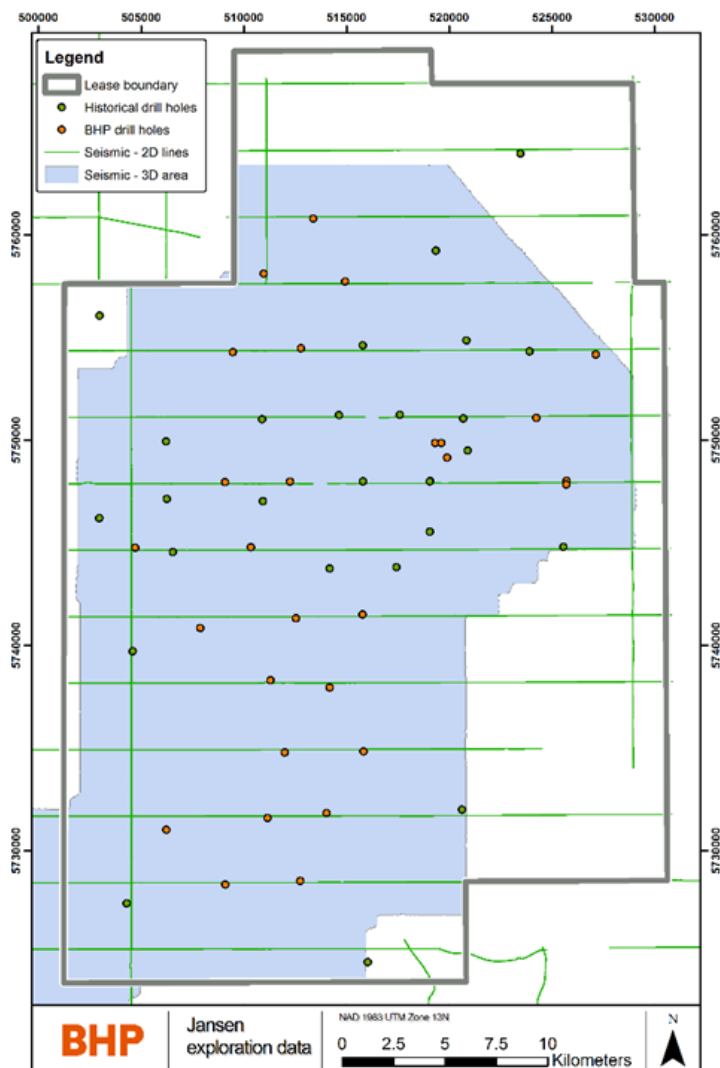


Figure 7-1: Exploration coverage

The 2D seismic surveys cover the entire Jansen lease. The 3D seismic surveys cover approximately 75 per cent of the lease.

7.1.4 Significant Results and Interpretation

Subsurface images of the 2D seismic survey on a regional scale successfully identified areas where the detailed exploration efforts needed to be focused, away from large scale anomalous geological features and disturbed geology. The BHP Canada exploration drill holes were positioned where 2D seismic information was available to reduce the risk of drilling into disturbed geology. The 3D seismic survey was also positioned based on this information to image the most prospective areas.

The 3D seismic survey successfully imaged structural features (collapse anomalies) that pose hazards to the mining operation and were classified based on the severity of disruption that occurs in the stratigraphy (Section 6.4). Topography of major geological interfaces, for example the top of the Prairie Evaporite formation, are also mapped (Figure 7-2).

Quantitative interpretation of the seismic response from the LPL zone allowed identification of anomalous geological areas located within the LPL member, i.e. carnallite and no-potash

anomalies. In the Qualified Person’s opinion, the level of detail in the surveys is sufficient to enable the development of the geological model to form the basis of Mineral Resources Estimate (as detailed in Section 10.6 of this report). The confidence in the granularity of the surveys is sufficient to assign higher levels of classification (Measured and Indicated) between the sampling points.

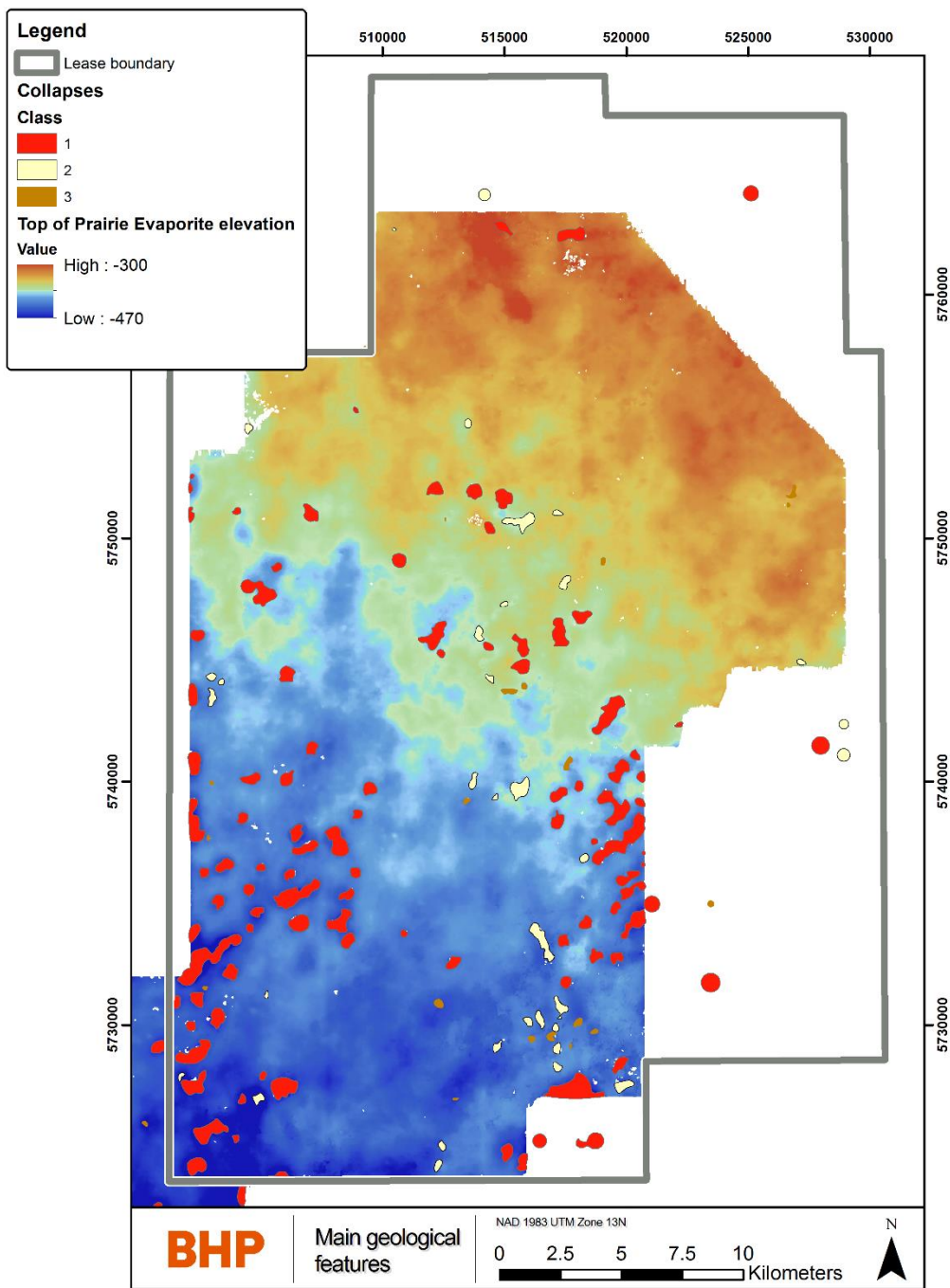


Figure 7-2: Structural features and top of Prairie Evaporite elevation imaged by 3D seismic

The seismic imaging is a mature technology originating in the oil and gas industry and has been successfully adopted by the potash mining industry. It is the opinion of the Qualified Person that the quality of the seismic surveys collected on the Jansen lease are excellent and the structural and the quantitative interpretation work carried out at Jansen by BHP Canada geophysicists are at an industry standard practice level.

7.2 Exploration Drilling

Exploration drilling was carried out by BHP Canada:

- to obtain physical samples for geological mapping, geochemical analysis, rock mechanics and metallurgical testing,
- to acquire rock physical and hydrogeological property measurements using geophysical well logging,
- to acquire hydrogeological testing data from the brine disposal zone.

Drill hole locations were selected based on information obtained from the 2D and 3D seismic program to avoid structural features and regional potash anomalies. The distribution and spacing of the drill holes were chosen to complement the historical drilling locations to provide a uniform drill hole coverage across the central part of the lease area.

7.2.1 Drilling Type and Extent

All drill holes were drilled using petroleum industry oil rigs (Figure 7-3) with the rotary drilling method. The equipment requires an approximately 150 metres x 150 metres size drilling pad for the rig, equipment, and offices. The drilling operation was running 24/7 with contracted site geologists and BHP representatives overseeing the drilling and data collection operations. After completion of the drilling the drill site was reclaimed to its original state.



Figure 7-3: Oil rig used in BHP Canada potash exploration drilling

A summary of the drilling information is shown in Table 7-2:. Geophysical well logging was conducted in all holes from top to bottom.

Table 7-2: Summary of BHP Canada drilling information

Type of Drilling	Number of Drill Holes	Metres Drilled	Metres Analysed Using Geochemistry	Year
Potash exploration	24	24,500	596	2008-2009
Disposal zone testing and monitoring	2	3,100	-	2014
Shaft Pilot hole	2	2,076	89	2009
Shaft geotechnical	1	590	-	2014
Brine Injection well	1	1,500	-	2016
Total	31	28,976	685	-

7.2.2 Drilling, Sampling and Recovery Factors

Potash exploration drill holes

The stratigraphy of the region is well established based on the exploration completed to date. Most of the holes were drilled into the Prairie Evaporite formation and were terminated once all the potash beds were intersected, below the Belle Plaine member. A limited number of holes were drilled through the Prairie Evaporite into the Interlake formation to provide calibration information for seismic analysis. One exploration hole was drilled to the Precambrian basement to obtain information about the entire sedimentary column including the target formation for brine disposal.

The drilling plan for each drill hole is divided into four sections:

- Section 1 – Conductor and surface section, installation of the conductor and drilling to set a required surface casing point (244.5 millimetres), as pre-scribed by the Saskatchewan Oil & Gas Conservation Regulations 1985.
- Section 2 – Intermediate section, drilling to the core point and setting a 177.8 millimetre intermediate casing string.
- Section 3 – Core section, drilling and coring using mineral oil-based mud utilizing 156 millimetre core equipment.
- Section 4 – Deep section, drilling either to the Interlake Formation or the Precambrian basement with 156 millimetre bit.

After drilling, the holes are plugged by cement and abandoned following the Saskatchewan Oil and Gas Conservation regulation procedures.

Details are shown in Figure 7-4, including abandonment procedures.

Exploration core recovery is 99.95 per cent which is considered excellent by the Qualified Person. Core depths are corrected to the geophysical logs depth to obtain a common depth reference for all data. The high core recovery enabled BHP Canada to take representative samples for the basis of the Mineral Resources estimate.

Drill hole locations are surveyed at planning and after spudding by a professional surveyor. During drilling the maximum deviation from the vertical was set to 3 degrees and was monitored continuously with downhole instruments. The drill holes' trajectory is surveyed after completion using the orientation logging tool that is deployed as part of the geophysical well logging program.

All holes are close to vertical with offset less than 10 metres between the surface coordinate and bottom hole coordinate. The shaft pilot holes were drilled with very small deviation tolerances.

All sampling, including geophysical logging, is conducted with QA/QC procedures in place with targets set and monitored, see Section 8 for details regarding these QA/QC procedures.

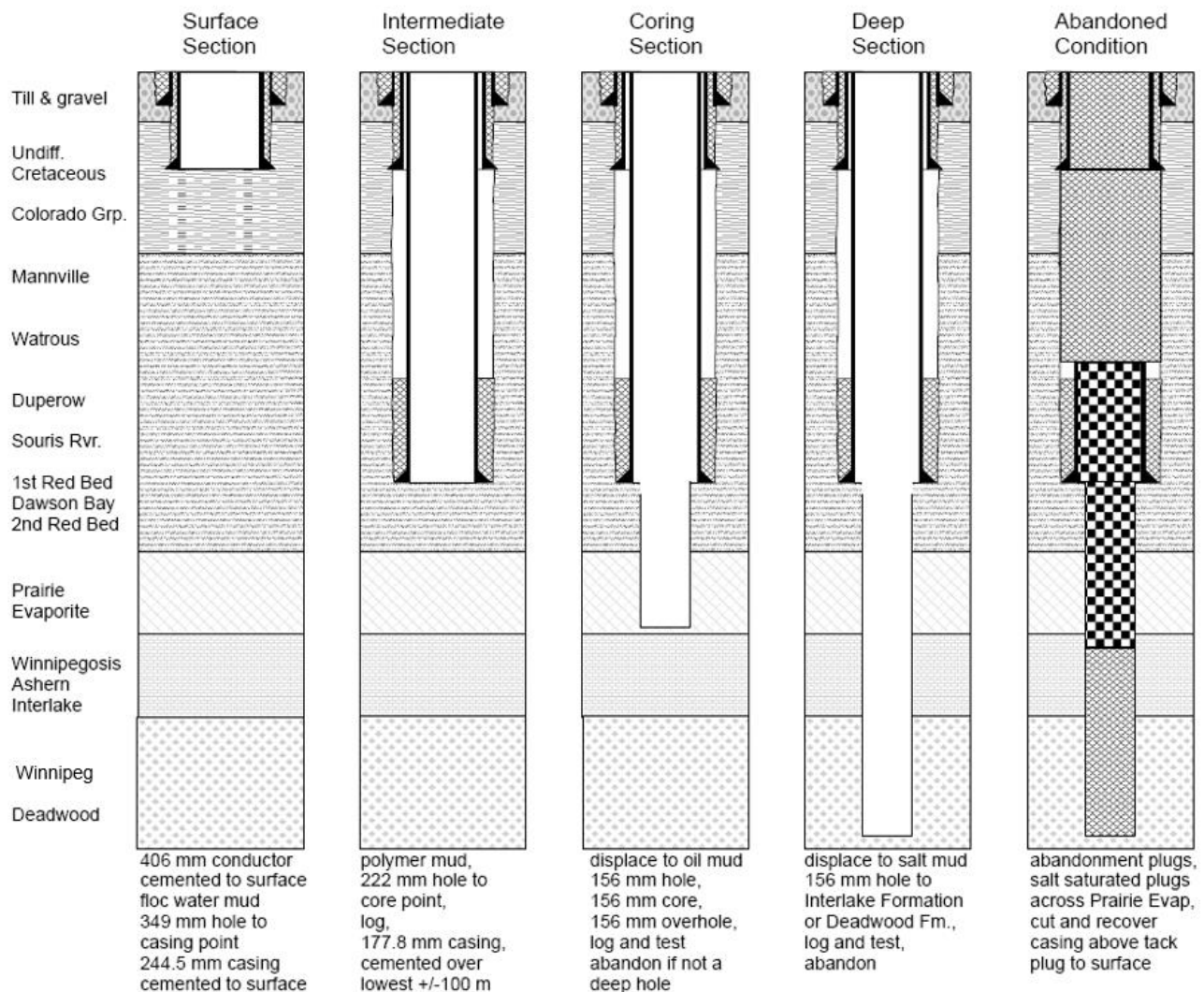


Figure 7-4: The four sections of the exploration drilling program and abandonment procedures.

Brine disposal zone monitoring and testing holes and disposal hole

Two holes were drilled to obtain hydrogeological and rock mechanics information from the brine disposal reservoir zone. The preparation and execution were identical to the exploration holes except after setting surface casing the holes were drilled to the top of the Winnipeg formation, then logged and cased. The lower section was drilled through the Winnipeg Sand and Deadwood formations into the Precambrian. Geophysical logging, hydrogeological formation testing and rock mechanics testing programs were carried out in this section (details in Section 7.3). Once the testing was completed the hole was cased and pressure and temperature monitoring equipment was installed at the Deadwood formation (details in Section 7.3).

The brine disposal drill hole was drilled with similar set up, methodology, and data collection program to the monitoring holes, except the reservoir section was developed for the injection operation.

Shaft pilot holes and geotechnical hole

Two pilot holes and a geotechnical hole were drilled to support the shaft sinking. The pilot holes, after the placement of the conductor and surface casing section, were continuously cored to the base of the Prairie Evaporite formation. Geophysical well logging and hydrogeological testing were conducted before the pilot holes were plugged. The shaft geotechnical hole was drilled in a similar way to provide additional information for shaft sinking operations.

It is the opinion of the Qualified Person that the data (core, geophysical logs, hydrogeological testing data, etc.) obtained by drilling have a good quality and are reliable. They are suitable to be used for geological, hydrogeological, and other model development and related studies.

7.2.3 Drilling Results and Interpretation

In agreement with the well-recognized regional geological and structural architecture of the Williston Basin, the drilling results show that the geological layers dip approximately 0.1 degrees to the southwest. The use of vertical holes is therefore deemed by the Qualified Person to be appropriate and ensures representative thicknesses are achieved across each stratigraphic unit. All anticipated stratigraphic units were present in the drill holes with normal thicknesses and lithologies, no unexpected geological conditions were encountered.

The exploration drilling further confirmed the presence of the Prairie Evaporite formation and the UPL, LPL and Belle Plaine members in the entire Jansen lease. The depth of the LPL was found to be between approximately 850 metres in the north and approximately 1,050 metres in the south (Figure 7-5).

Holes drilled deep into the disposal reservoir confirmed the presence of the Winnipeg Sand and Deadwood formations with expected thickness, lithology, and hydrogeological properties.

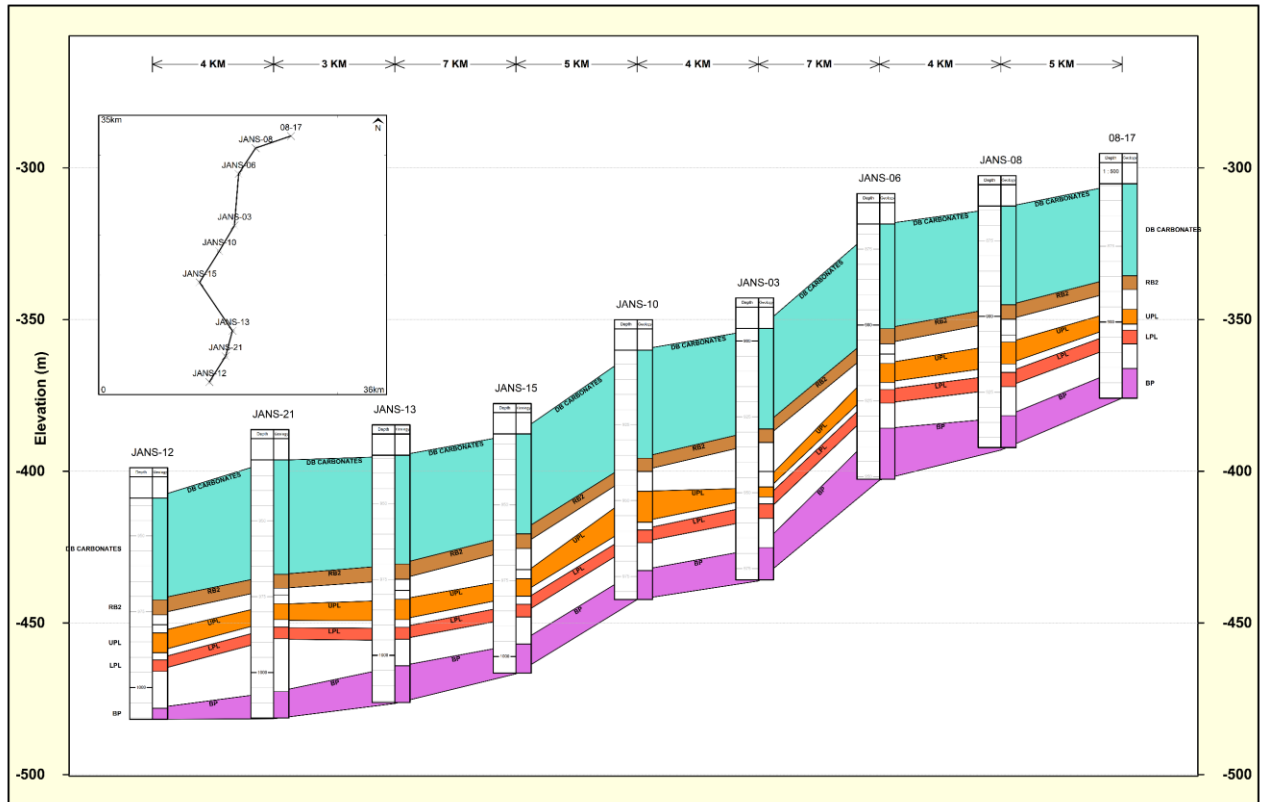


Figure 7-5: North-South cross section showing main potash units and geological units immediately above, (DB Carbonates - Dawson Bay Carbonates, RB2 - Second Red Beds, UPL - Upper Patience Lake sub-member, LPL - Lower Patience Lake sub-member, BP - Belle Plaine member). The vertical axis is in elevation (m). Both historical and BHP Canada drill holes are included.

7.3 Hydrogeology

The hydrogeology of the Jansen Project area consists of two groundwater systems:

- Near surface groundwater system that encompasses glacial till, silt, clay, sand and gravel
- Deep groundwater system that is characterized by underlying carbonates and sandstones units

The groundwater systems are separated by a low permeability shale formation.

7.3.1 Near Surface Hydrogeology

Introduction

The near surface hydrostratigraphy is generally comprised of a complex sequence of sediments which include inter-bedded water bearing formations (i.e. aquifers for groundwater source) and low permeability sediments (i.e., aquitards as natural barriers to brine migration from the surface tailings facility). These stratified sediments, above the bedrock (Bearpaw Shale), are collectively known as glacial drift, and form a multi-stacked aquifer system across the Jansen Project area. The near surface hydrostratigraphy of the project area is summarized in Figure 7-6.

Stratigraphy			Lithology		Hydrogeology	
Group	Formation	Unit or Member				
Saskatoon	Surficial Stratified Deposits	Alluvium	Silt, Sand, Gravel	Clay, Silt, Sand	Surficial Aquifer/Aquitard	
			Silt, Sand, Gravel	Clay, Silt, Sand		
		Haultain	Silt, Sand, Gravel	Clay, Silt, Sand		
			Silt, Sand, Gravel	Clay, Silt, Sand		
	Battleford		Till		Aquitard	
			Gravel, Sand, Silt, Clay		Battleford Aquifer	
	Floral		Upper	Till		Aquitard
			Riddell (Middle)	Gravel, Sand		Upper Floral Aquifer
			Lower	Till		Aquitard
				Gravel, Sand, Silt, Clay		Lower Floral Aquifer
Till				Aquitard		
Sutherland	Warman		Till		Aquitard	
			Gravel, Sand, Silt, Clay		Warman Aquifer	
	Dundurn		Upper	Till		Aquitard
				Gravel, Sand, Silt, Clay		Upper Dundurn Aquifer
			Lower	Till		Aquitard
				Gravel, Sand, Silt, Clay		Lower Dundurn Aquifer
				Till		Aquitard
	Mennon		Upper	Till		Aquitard
				Gravel, Sand, Silt, Clay		Mennon Aquifer
				Till		Aquitard
Empress		Upper	Gravel, Sand, Silt, Clay (Proglacial)		Aquifer	
		Lower	Chert and Quartzite Sand on Gravel (Preglacial)			

Figure 7-6: Schematic Near Surface Hydrostratigraphy in the Jansen Project Area

Data collection and QAQC

The near surface hydrogeology of the project area was evaluated by SNC Lavalin Inc. (previously MDH Engineered Solution Corp.) from 2008 to 2011. The near surface groundwater system was studied for the selection of suitable surface facilities (e.g., tailings management area and other infrastructure) to reduce the risk of shallow, aquifer contamination due to the long-term brine migration beneath the salt tailings facility, and for potential sourcing of water.

More than 200 boreholes were drilled for the hydrostratigraphic investigation, testing, and instrumentation (Figure 7-7). Over 100 monitoring wells (124 standpipe piezometers and 20 vibrating wire piezometers) were installed around the surface tailings management area perimeters as well as other strategic places to conduct borehole geophysical logging, hydraulic testing (slug test and pumping test), and collect groundwater samples for the acquisition of hydrogeological data and baseline groundwater chemistry. Numerous slug tests and one long duration (14 days) step drawdown pumping test were conducted. The data were analysed to estimate the hydraulic parameters of the aquifers and aquitards (Table 7-3). Tri-axial permeability tests were conducted to estimate the vertical hydraulic conductivity of the formations. A

groundwater monitoring network system was established within almost all near surface aquifers to better understand the groundwater flow system and potential hydraulic connection between aquifers.

Table 7-3: Summary of Hydraulic Conductivity Values for the Near Surface Hydrostratigraphic Units

Formation	Hydraulic Conductivity (m/s)		
	Minimum	Median	Maximum
Oxidized Saskatoon Group Sediments	2.2E-09	3.5E-08	2.1E-06
Upper Floral Till*	3.0E-11	7.5E-11	2.0E-10
Upper Floral Aquifer	2.6E-08	8.3E-05	2.0E-03
Lower Floral Till	5.0E-11	1.0E-10	1.6E-08
Lower Floral Aquifer	1.0E-07	8.1E-05	1.6E-03
Warman Till*	9.0E-11	9.5E-11	1.0E-10
Warman Aquifer	1.4E-05	1.5E-05	1.6E-05
Upper Dundurn Till*	3.0E-11	1.2E-10	2.0E-10
Upper Dundurn Aquifer	1.3E-06	8.8E-06	1.7E-05
Mennon Aquifer	4.3E-05	4.3E-04	5.7E-04
Empress Group Aquifer	8.4E-06	9.3E-05	2.4E-03

* Includes only the tri-axial permeability test results

Quality Assurance and Quality Control (QA/QC) were utilized for all field work, analysis, and reporting. All work was completed using MDH trained engineers and professional hydrogeologists with provincial practicing licenses (Professional Engineer/ Professional Geoscientist). All drilling and installations were completed under the continuous supervision of trained engineers and geoscientists.

All groundwater samples were collected and analysed in accordance with the groundwater sampling standards and procedures and the ISO/IEC 17025:2005 accredited Laboratory Quality Management System (ALS Laboratory and Maxxam). Standard Chain of Custody protocols were followed during handling and transportation of all samples. Laboratory QA testing was completed by submitting blind and duplicate samples for comparative testing.

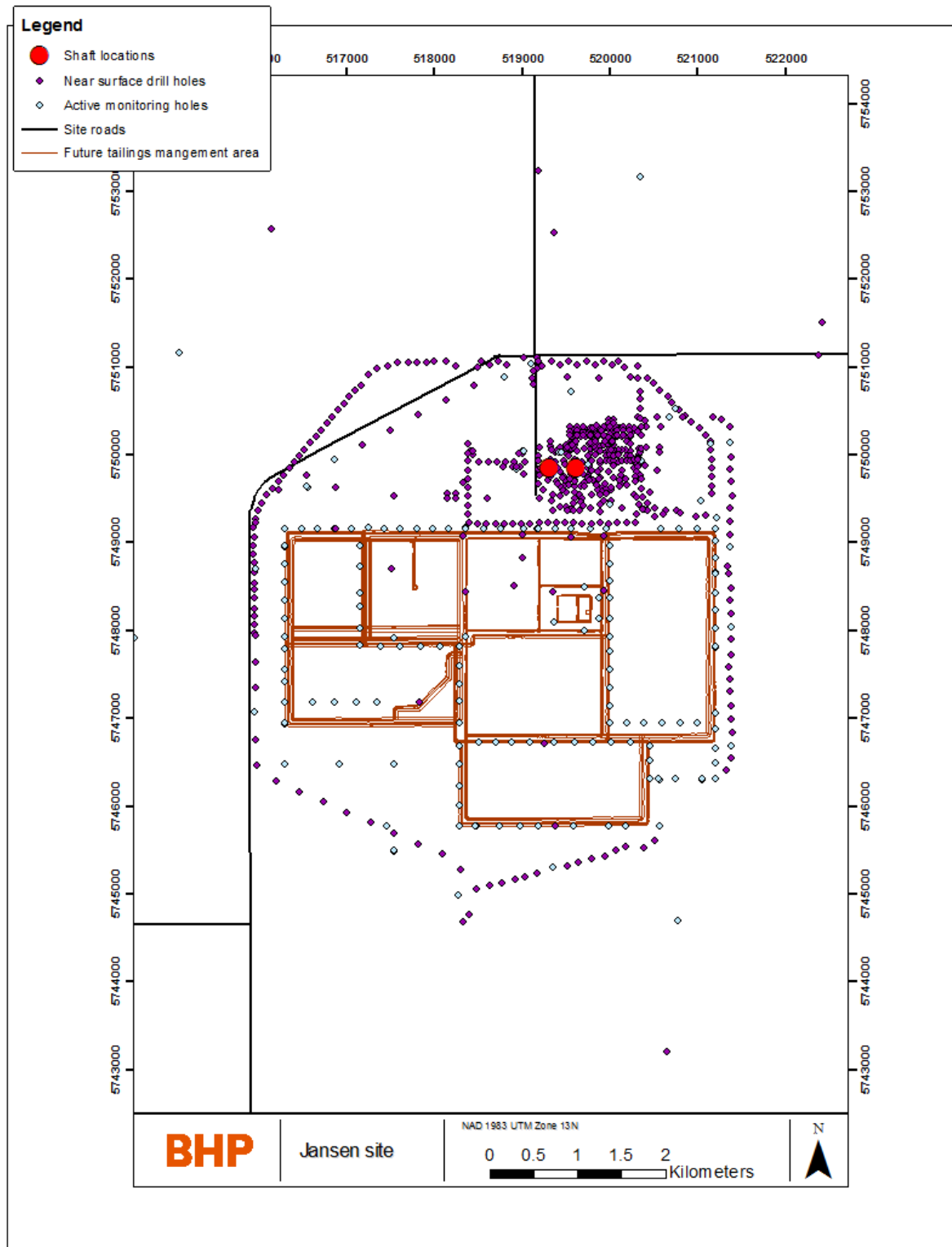


Figure 7-7: Location Map of Boreholes and Monitoring Wells

All data compiled within all reports (tables, spreadsheets, figures, borehole logs, cross-sections, etc.) was reviewed to reduce the potential for error. To assure the quality of the final reports, all draft reports were reviewed by a senior MDH engineer.

Results and Interpretation

The near surface drilling, sampling and testing successfully delineated multiple aquifers and aquitards (Figure 7-8) beneath the Tailings Management Area (TMA) and determined their hydraulic properties (Table 7-4). In the Qualified Person's opinion, the level of detail in the hydrogeological investigations was sufficient to enable the development of a groundwater flow and contaminant transport model and formed the basis of groundwater protection from the brine migration. In the opinion of the Qualified Person, the silt and clay rich till of the Sutherland Group and the Saskatoon Group should act as the primary natural barriers to groundwater contamination at the tailings site based on the technical information available at the time of preparation of this report.

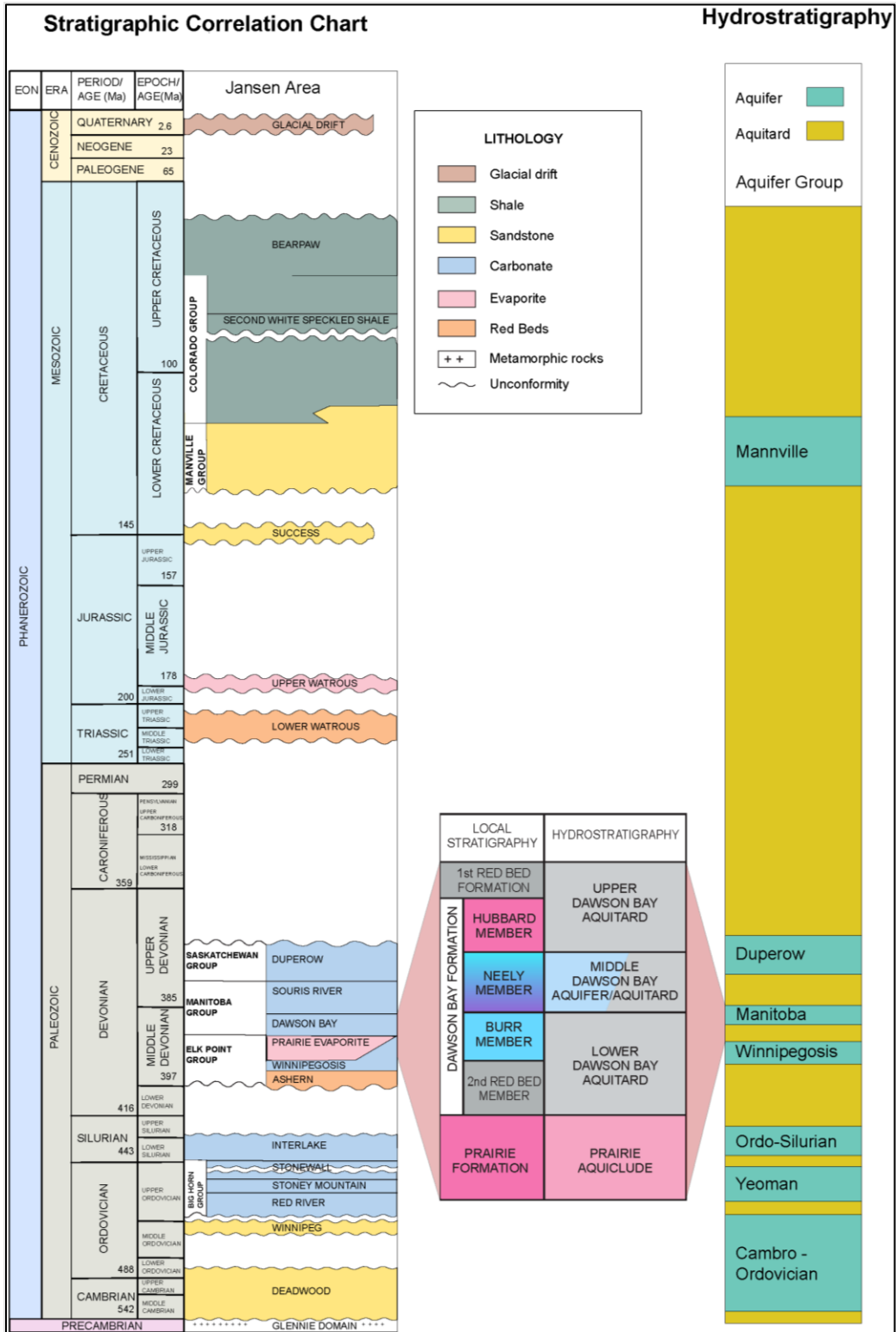
7.3.2 Deep Hydrogeology

Introduction

In descending order, the deep groundwater system consists of seven major water bearing formations. These formations are described below with their implications.

- Mannville Aquifer: Presents significant risk to shaft construction; however, it is a potential groundwater resource for mining and operation;
- Duperow Aquifer: May pose risk of water inflow into a shaft or a mine (if it is hydraulically connected to the underlying water bearing formations);
- Souris River Aquifer: May pose potential risk of minor water inflow into a shaft or a mine (if it is hydraulically connected to the underlying water bearing formations);
- Dawson Bay Aquifer: In close proximity to the mining horizon and generally interpreted as dry (low permeability formation) in nature. May pose potential risk of water inflow into a mine if hydraulically connected to adjacent aquifers;
- Winnipegosis Aquifer: May pose risk of water inflow into a mine from below when inadequate cap rock for the brine disposal horizon occurs or its integrity is impacted from the disposal operation.
- Winnipeg Sand Aquifer: Subsidiary brine water bearing formation for underground brine disposal in the project area.
- Deadwood Aquifer: Principal brine water bearing formations for underground brine disposal in the project area.

The last two aquifers are usually named together as the brine disposal horizon. The deep hydrostratigraphy of the project area is summarized in Figure 7-8.



Note: The Interlake Formation within the Jansen Project area is found to be a low permeability formation and not considered an aquifer unit.

Figure 7-8: Schematic Deep Hydrostratigraphy in the Jansen Project Area (modified based on Figure 6-4)

Data collection

The deep hydrogeology of the project area was evaluated using oil field techniques by consultants (Schlumberger, Baker Hughes, Norwest, RESPEC, etc.). The deep groundwater system was investigated to assess potential risk of water inflow into a mine and to design a wellfield for the

underground disposal of potash waste brine. Eleven drill holes were tested to acquire hydraulic properties of the major aquifers of interest such as the Dawson Bay formation, Winnipeg Sand formation and Deadwood formation. Four out of eleven deep drill holes focused on the deep hydrostratigraphic investigation, testing, and instrumentation within the brine disposal horizon. Two deep monitoring wells are continuously collecting the formation pore pressure and temperature data of the brine disposal horizon to assess potential impact from the ongoing disposal operations in other mine sites in Saskatchewan.

Drill stem tests were performed in five exploration drill holes and two shaft pilot holes to assess the water deliverability potential of the Dawson Bay formation. The tests indicated the low permeability nature of this formation. Following the drill stem tests, Formation multi-tester (FMT) wireline tests were performed to measure the formation pore pressure and estimate the permeability values at several test points in 19 drill holes. Magnetic Resonance Logging was also conducted using Nuclear Magnetic Resonance (NMR) or Combinable Magnetic Resonance (CMR) tools to assess the water content in the formations in 25 drill holes. Five core plug samples from two exploration drill holes were additionally tested and analyzed in the independent laboratory “Core Laboratories, Inc.” in Houston to estimate the porosity and permeability of the Dawson Bay formation. The laboratory results from four samples indicated the low permeability nature of the formation except for one sample that showed a relatively high permeability value (338 mD). The Dawson Bay formation is considered one of the key hydrostratigraphic units for mine excavation, which overlies the Jansen mine level.

Modular Formation Dynamics Tester (MDT), Vertical Interference Test (VIT), and Formation Multi-tester (FMT) tools were used in one deep drill hole to obtain hydraulic properties of the deep water bearing formations, with a special focus on the brine disposal horizon and caprock formations. Groundwater samples were also collected for baseline chemistry and isotope analysis. The MDT Live Fluid Analyzer (LFA) optical technique was utilized to ensure the sample quality by monitoring the fluid as it flows, its resistivity, and optical density. Mini-Frac and pressure falloff tests were performed to understand the formation pore pressure regime of the disposal horizon. A step rate injection test was conducted at the first potash waste disposal well to estimate the regulated wellhead injection pressure in accordance with the disposal and injection well regulatory requirements.

The data from all tests were analysed to characterize the major water bearing formations and compiled for the use of analytical and numerical brine disposal wellfield modelling. Table 7-4 provides a summary of the hydraulic parameters and values for the brine disposal horizon.

Hydrogeological Modelling

To assess the risk associated with the brine disposal horizon and its sustainability, analytical models were developed by consultants (SNC Lavalin) from 2010 to 2019. In 2019, BHP Canada also developed a three-dimensional numerical brine disposal model using the industry standard groundwater modelling software FEFLOW to assess the formation pore pressure build-up and distribution during the disposal operation. The model was reviewed by an independent third party and updated based on the review comments and recommendations. An uncertainty analysis of the updated model was performed using a new probabilistic approach to quantify model uncertainties in 2022. BHP Canada additionally developed a three-dimensional reservoir geomechanical model to assess the risk and uncertainties associated with the brine disposal

horizon and the overlying caprock. In the Qualified Person's opinion, the Deadwood Aquifer and the Winnipeg Sand Aquifer are available for the disposal of waste brine and no material adverse impact in the brine disposal operation is expected for the Jansen Stage 1 at the time of preparation of this report. The risk and uncertainty associated with the long term sustainable capacity of the brine disposal horizon will be assessed as waste disposal operation begins and advances.

Table 7-4: Summary of Hydraulic Parameters and Values Measured in Field for the Brine Disposal Horizon

Formation Name	Permeability (mD)		Porosity (%)	Comments
	Horizontal	Vertical		
Winnipeg Sand	0.1 - 3000	Not Available	6 - 28	Permeability values based on borehole logs. A large scale test (such as injection test) was not conducted to determine the horizontal and vertical permeability values due to the small thickness (~ 18 m) and minimum usable disposal reservoir interval (~ 8-9 m) of this formation.
Deadwood	288 - 403	29 - 43	3 - 28	Permeability values based on MDT/MDT-VIT/Injection Test

Results and Interpretation

The characterization of the major deep water bearing formations in the Jansen Project area is in agreement with the regional hydrogeological understanding of the Western Canada Sedimentary Basin and the Williston Basin.

Based on the hydrogeological and geophysical information available at the time of preparation of this report, the Dawson Bay formation is characterized as a low permeability unit in the Jansen area and has relatively low water inflow deliverability potential. In the Qualified Person's opinion, the Dawson Bay formation is well understood.

The characterization of the brine disposal horizon is also in agreement with the local and regional scale hydrogeological understanding. In the opinion of the Qualified Person, the horizon is available for the disposal of potash waste brine and no potential adverse impact on its disposal capacity is expected.

7.4 Geotechnical Data, Testing, and Analysis

Geotechnical data was acquired through two testing programs. The first testing program was completed by independent consultant "RESPEC", through samples acquired from three exploration drill holes. Testing consisted of Brazilian indirect tensile strength (BRZ), constant strain rate (CSR), constant mean stress (CMC) and tri-axial compression creep (TCC). The results of these tests were used as input values for modelling.

The second testing program was completed at the University of Saskatchewan "Rock Mechanics Lab", with samples acquired from six exploration drill holes. Tests conducted included, Unconfined Compressive Strength (UCS) and acoustic velocity, with all tests occurring in salt. Due to the age and unknown handling of the core, these tests were not included in the modelling work.

Tests for the Dawson Bay Formation and Second Red Beds were acquired from two exploration holes. Five CSR tests were completed for the Dawson Bay formation and four were completed for the Second Red Beds. The intent of the CSR test is to determine the elastic properties of the sample. Also completed for the Second Red Beds were seven BRZ tests. The tensile strength tests provide inputs into evaluating the tensile strength of the roof and floor of an excavation.

Mechanical testing in the Prairie Evaporite consisted of BRZ, CSR, CMC and TCC. Samples were acquired from all three exploration drill holes. Tests completed, included, thirty-six BRZ tests, twenty-one CSR tests, forty-one CMC tests and twenty five TCC tests.

CMC tests were run at a temperature setting of 20°C. The intent of running the CMC tests was to determine the location-specific dilation characteristics and to use that location dilation data to estimate the parameter values in a dilation equation. The CMC test data showed a fairly consistent trend for all tests where the level of stress difference required to initiate dilation usually increased with the increase in mean stress. The CMC data was used to compare against the linear tri-axial compression equation. The result were non-linear values that plotted above the linear criterion at a low mean stress and below the linear criterion at high mean stress.

For the TCC tests, setup parameters included, temperature set to 27°C, confining pressure at 20 MPa with applied stress differences of 6.9, 10, 15 and 20 MPa. The purpose of the TCC test is to determine the axial strain over time within the sample. The results showed that strain rates started high immediately after the axial stress difference was applied, slowing to a near constant rate of strain with time. The predicted steady-state strain rates generally correlated well with the calculated steady-state strain rates.

From the TCC tests, the estimated stress exponent for roof and floor salts was $n = 3.6$. For potash ore the estimated stress exponent was $n = 5$. The laboratory creep data parameters utilized for the Jansen mine design are within the expected range for the potash basin. The validation process for the geotechnical parameters has been initiated with installation of geotechnical instrumentation within the shaft barrel and shaft stations. The shaft pillar ground monitoring program has been planned to further quantify the actual creep rates for each cutting horizon.

The test results are listed in Table 7-5 for the CSR tests and Table 7-6 for the BRZ tests.

Table 7-5: CSR test results

Sample Location	Quantity	Average Young's Modulus (GPa)	Average Poisson's ratio
Dawson Bay	5	47.02 +/- 6.35	0.25 +/- 0.08
Second Red Beds	4	17.23 +/- 3.22	0.12 +/- 0.01
Potash	9	19.03	0.16
Salt	12	25.79	0.14

Table 7-6: BRZ test results

Sample Location	Quantity	Average Tensile Strength (MPa)
Second Red Beds	7	2.93 +/- 1.36
Salt	21	1.62 +/- 0.33
Potash	15	2.13 +/- 0.70

In the Qualified Person's opinion, the tests completed are those necessary to develop models for the assessment of short and long term stability conditions in Prairie Evaporite and into the Second Red Beds and Dawson Bay. Samples within the Prairie Evaporite covered the UPL, LPL and BP

potash units and salt layers in between, which is necessary to understand what may cause ground instability.

The geotechnical samples represent mining areas at the northwest, central and southern end of the lease. In the Qualified Person's opinion the sampling seemed sparse, however, given the consistent results acquired from other properties within the Basin when compared to the Jansen samples, it provides confidence that the rock will behave similarly.

7.5 Exploration Target

There was no exploration work conducted during the period. Therefore, no exploration results are included in this report.

8 Sample Preparation, Analyses, and Security

8.1 Sample Preparation Methods and Quality Control Measures

8.1.1 Methods

Mineralized zones in each of the Jansen drill holes completed by BHP Canada were subject to coring and geochemical analysis. The salt beam between the UPL and LPL was included in the geochemical analysis. Once the core was recovered from each new drill hole, logged, photographed on site, and wrapped in waterproof plastic to protect the carnallite sections, the cores were securely transferred from the drill site to BHP Canada's core lab in Saskatoon. The core box summary sheet, core transport waybill, and hard copy geophysical well logs accompanied the core.

The climate-controlled core lab facility rented from the Saskatchewan Research Council – Saskatoon (SRC) was equipped with roller tables, core racks, work tables, rock saw and crusher, lift trolleys, dust collector, and air compressor. SRC provided saw and crusher operators, as required. Air quality was monitored periodically or at the request of core lab geologists. Temperature and humidity were monitored and recorded twice daily, because carnallite is deliquescent and therefore sensitive to atmospheric moisture.

Geological consultant company Norwest Corp. compiled geological reports for each BHP Canada exploration hole, field records originated from wellsite geologists, drilling supervisors and coring contractors. Norwest Corp. geologists, who were trained in potash logging, operated the core lab. After the core was delivered, it was unloaded onto roller tables. Geologists ensured all core runs were properly oriented in the boxes and depths were corrected to match the geophysical well logs. The core was then subject to descriptive logging completed electronically on spreadsheets and emailed to BHP Canada geologists. (i.e., lithology, texture, crystal sizes, contacts, colour, sedimentary structures, constituents, fossils, and geotechnical features), and high-resolution colour photography. Sample interval selection completed with collaboration with BHP Canada geologists. A flow chart of the core logging process is shown in Figure 8-1.

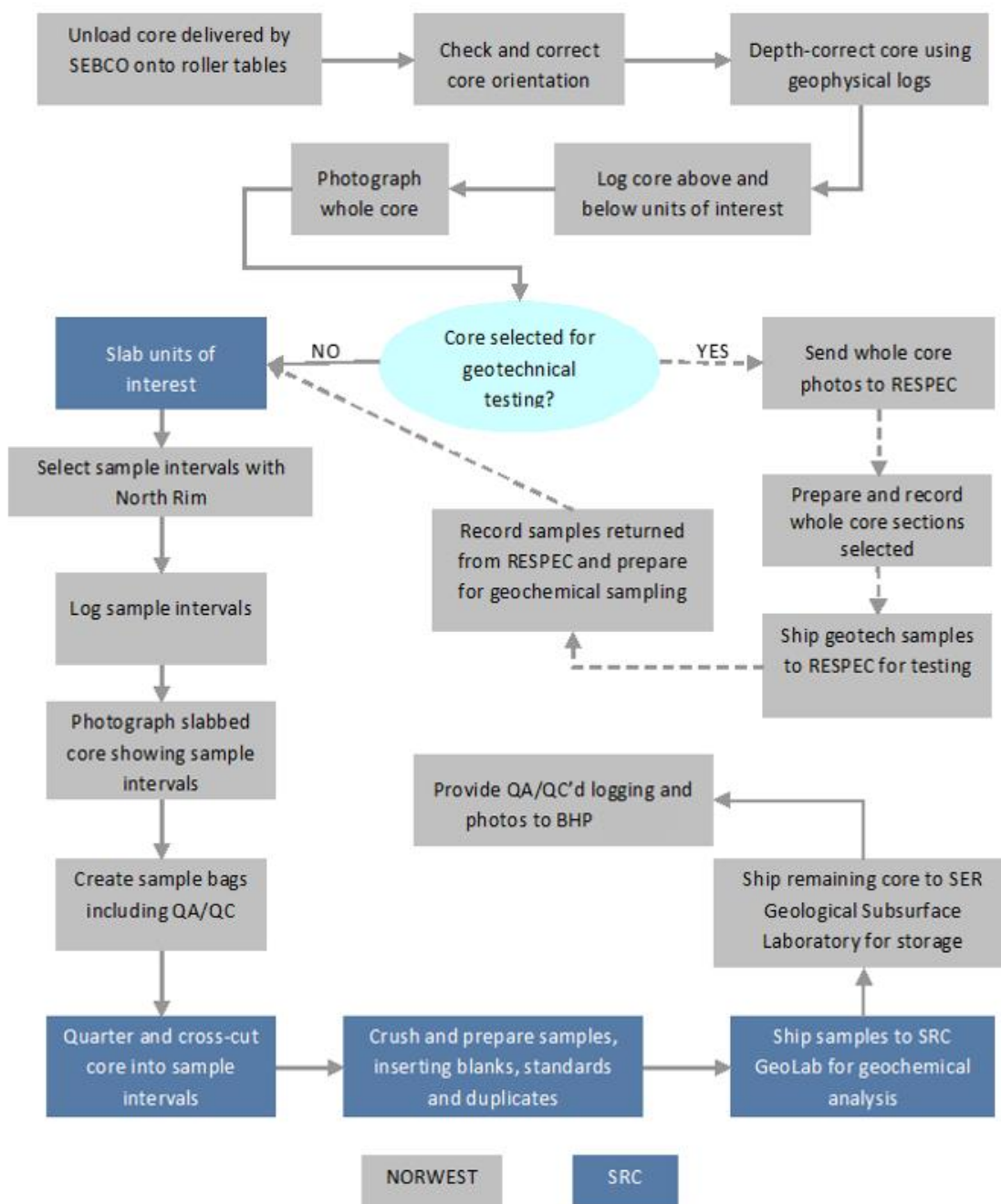


Figure 8-1: Core logging and sampling workflow

If the core was selected for geotechnical testing, the photographs were reviewed for quality assurance and provided to the geotechnical consultants (RESPEC) from a secure file transfer site.

The units of interest (i.e., Upper Patience Lake (UPL), Lower Patience Lake (LPL), and Belle Plaine (BP)) were slabbed by SRC crews at the core laboratory under the direction of Norwest Corp. geologists. The slabbed core was divided into sample intervals as determined by the geologists in conjunction with senior potash geology consultants (North Rim).

Sample intervals were based on lithology and ranged in size from 2 centimetre to a maximum of 25 centimetre. Sampling began a minimum of 0.5 metres above the top of the UPL through to a minimum of 0.5 metres below the base of the LPL and then from a minimum of 0.5 metres above

the top of BP to a minimum of 0.5 metres below the base of the BP. Slabbed intervals were photographed.

After the sample intervals and measurements were marked on the core and recorded in the logging Excel worksheet, one of the slabbed halves was quartered and one of the quarters was subsequently split into the noted intervals for geochemical analysis. The other quarter was packaged into plastic sleeves and reserved for shipment to the Government of Saskatchewan Subsurface Geological Laboratory in Regina, together with the entire core above and below the units of interest, as required by the regulations. The remaining slabbed half of the LPL was packaged for shipment to SGS Lakefield for metallurgical testing.

Norwest Corp. core lab geologists and senior potash consultant (North Rim) regularly transferred the logging, sample interval sheets, whole core photographs, and slabbed core photographs to BHP Canada for storage on the file server at the Saskatoon office. Each step followed proper procedures and documentation as well as cross checking between consultants and BHP Canada personal.

Historical drill hole reports, logging, collar location surveys and core assay data were acquired from the Saskatchewan Ministry of Energy and Resources database. All historical and BHP Canada drill hole core are available at the Saskatchewan Subsurface Geological Laboratory for storage and public access.

8.1.2 Sample Security

Chain of custody protocols were implemented, covering the sampling process from core collection at the drilling site, through sampling at the core laboratory, and to sample delivery to the analytical laboratory. These included:

- Boxing, labelling, and sealing of the core at the drill site before transferring to the laboratory preparation facility
- Photographing the core at the drill site then before and after sample selection
- Despatch requests were sent with the samples and emailed directly to the laboratory
- Laboratory confirmation of sample receipt
- Emailing the analysis results directly to BHP Canada
- Returning leftover samples to BHP Canada for storage

Additionally, in the core laboratory, before sampling, the core was verified against the in-situ collected geophysical logs and any discrepancies were addressed.

No sample security documentation is available for the historical holes.

8.2 Sample Preparation, Assaying and Analytical Procedures

During BHP Canada's drilling campaign (2008, 2009) 3,956 samples were collected. The length of the samples was variable (average sample length 15 centimetres) to capture key geological features. Sampling protocols and procedures are aligned with industry standard practices. The sample preparation protocols (crushing and pulverising sizing requirements, etc.) at laboratories meet standards defined in contracts in line with ISO standards, with QA/QC targets established.

BHP Canada submitted samples for geochemical analysis to SRC Analytical Laboratories – Saskatoon, which is independent of BHP. SRC analysed all the geochemical samples using the Inductively Coupled Plasma – Optical Emission Spectroscopy (ICP-OES) method. Metallurgical testing of all metallurgical samples was conducted in SGS Lakefield Ltd. laboratory. SGS is a commercial facility and is independent of BHP. Both laboratories are ISO/IEC 17025 certified. The samples were analyzed for the following: Soluble ICP CaO, K₂O, Na₂O and MgO wt%, wt% insoluble, wt% moisture, as part of the potash exploration package. The geochemistry analysis method termed “POT” by SRC.

Historical drilling (1952-1965) contributed 1,170 samples with variable sampling interval thicknesses to the exploration data set. Historical drill hole samples collected by Kerr-McGee Corporation were processed in their internal laboratory (Kerr-McGee Research Laboratory) by titration method.

Once the quartered core was cut into selected sample intervals, the samples were jaw crushed by SRC crews on site at the core lab. AA revision was made to the POT method after sampling the first core when it was discovered that crushing was too fine to enable the metallurgical testing of reject material. Initially, samples were crushed to 60 per cent at -2 millimetres. The standard operating procedure for the POT method was subsequently revised, and all subsequent samples were crushed to -6 millimetres. A comparison of analytical results from samples subjected to both crushing resolutions has verified that the degree of crushing does not materially affect the analyses. This parameter is continually monitored as part of the QA/QC program by comparing the analytical results of inserted site duplicate samples.

After the sample was crushed, a 100 gram to 200 gram sub-sample was split out using a riffler splitter, and transferred to a sealed plastic vial for transport to the SRC Geoanalytical lab. The reject crushed material was stored by SRC in sealed pails at a separate storage location.

At the SRC facility, the samples were pulverized to -106 microns using a puck and ring mill, and were then submitted for analysis. Pulps were analyzed for solubles, insolubles, and moisture content. Solubles were analyzed by Inductively Coupled Plasma - Optical Emission Spectroscopy (ICP-OES).

8.3 Quality Control /Quality Assurance Procedures

BHP Canada defined a Quality Control/Quality Assurance (QA/QC) program to ensure an appropriate level of confidence in the accuracy, precision and control of contamination of the geochemical data derived from core sampling and analysis. Precision is the capability of consistently repeating the results of a certain measurement in a similar condition, accuracy is the proximity to a certain measurement to a real or accepted value and the contamination is the unintentional transfer of material from one sample to another during the process. This program includes standards, blanks, as well as laboratory and site duplicates. All the BHP Canada control samples were inserted “blind” within the batches delivered to the SRC laboratory thereby not being disclosed to the laboratory as is standard industry practice.

Standards

The standard samples employed were selected based on their mineralogical characteristics to ensure a wider spread of QA/QC check validity for the relevant mineralogical compositions. BHP

Canada inserted 2.5 per cent (1 in 40) standards to check primarily for analytical accuracy and secondarily for analytical precision. SRC results demonstrated good performance for K_2O analysis, all lie within +/-5 per cent error range. MgO results were within +/-10 per cent error range except for <1 per cent of the samples. Na_2O samples performed well in the 32.49 % Na_2O standard. Results were all inside the +/-2.5 per cent error range. However the standard containing only 1.61 % Na_2O , 7 per cent of the samples were presenting more than a 10 per cent error. As is to be expected at low to very low levels for these compounds some samples present values that are out of acceptance limits. Similarly, analyses for insolubles and moisture determination, which are generally at low to very low levels, also present poorer accuracy and precision as a consequence of working close to lower detection limits of the methodologies used to make these determinations. In the case of analyses for moisture analytical quality may also be due to the exposure of the cores to varying environmental conditions. (i.e. humidity and temperature).

Analytical Blanks

Analytical blanks (coarse or fine material i.e. silica sand with negligible levels of the main elements of interest) were inserted to check for cross contamination during the pulverization and analytical stages and as a check on analytical precision and accuracy. A total of 96 blanks inserted containing K_2O at 0.09 per cent, MgO at 0.0076 per cent, Na_2O at 0.11 per cent and the moisture at 0.08 per cent being constituted entirely of insoluble residue at 98.98 per cent. Blanks were also employed to verify the laboratories real lower detection limits. SRC's performance with the analytical blanks was very good. A few samples (<2 per cent) indicated some very minor contamination from earlier samples in either preparation or analyses, however the level of contamination never exceeded (0.38 % K_2O) and is considered close to established analytical precision and accuracy.

Site duplicates

Site duplicates are included to test representativity and variability of taking two separate crushed drill core samples from the sample length of core. These duplicate samples are generated after crushing and being split off using a riffle splitter for the analytical work. 97 per cent site duplicates fell within the +/-10 per cent tolerance level for the entire suite for K_2O , MgO and Na_2O analyses.

Laboratory Duplicates

BHP Canada inserted laboratory pulp duplicates to test laboratory precision (reproducibility) of the various analyses performed. Data for the insolubles, mostly fell within the +/- 10 per cent error bars, with a few pairs falling slightly outside this when the insoluble content got below 5 per cent, more so below 2 per cent.

SRC Geoanalytical Laboratories Internal QA/QC

SRC Geoanalytical Laboratories also undertake internal quality control measures and data verification procedures. These included the preparation and insertion of standards one in every 20 samples and laboratory duplicates (repeats), one in every 40 samples to each analytical batch. Instrumentations were calibrated according to ISO/IEC 17025. These data were reported to BHP Canada.

SRC performed well with the standards as K_2O , MgO and Na_2O all were within 5 per cent tolerance range. Laboratory duplicate pairs all fell within ± 10 per cent with most pairs being in ± 5 per cent error ranges for K_2O , MgO and Na_2O .

Data Verification

The assay data collected by BHP Canada were checked against geophysical logging data for every drill hole. This process provides additional verification of the collected assay sample data.

For the validation of SRC's analyses, a subset of 193 samples was analyzed by another geoanalytical laboratory (SGS Lakefield), and compared to the SRC results. As previously mentioned, SRC's analytical method is ICP-OES. However, the analytical method used by SGS is titration, which analyzes for K and not K_2O , and the results must be converted to K_2O ($\%K \times 1.2 = \%K_2O$). Since K_2O is the compound of principal interest, the $\%K_2O$ determinations formed the basis of the comparison.

A slight bias was noted in the SRC data, reported as slightly higher K_2O values on average than SGS. Because both labs are providing very similar values for the standards, duplicate pairs and blanks, it is difficult to determine which lab is reporting the "correct" values for $\%K_2O$. However, this bias is minor therefore the Qualified Person's opinion is that the analytical variation for the different $\%K_2O$ determinations from the two labs is within acceptable limits of analytical variation and tolerance.

Historical Drill hole data verification

Historical drill holes represent approximately 50 per cent of the total drill holes, totalling 1,170 samples. The analytical data associated with these historical drill holes, which had been collected in the period of 1956-1965, does not possess any QA/QC information from that period, as was typical at that time. BHP Canada has validated the quality of this analytical information through a review of the geology of the drill hole cores (relogging) and statistical comparisons against the BHP Canada collected data (3,956 samples). To ensure confidence in this historical data, BHP Canada drilled one twin hole 17 metres from a historical hole. Overall K_2O grade for the LPL zone in both drill holes were in agreement. The average grade of the K_2O interval in the historical hole was 26.8 per cent compared to the BHP Canada twin hole was 26.5 per cent.

The statistical analysis showed that the quality of the K_2O geochemical analysis done on the historical data is statistically not different from the analysis done on the BHP Canada collected samples.

The statistical analysis done on the historical insoluble analysis indicated that these measurements contain a systematic bias compared to the BHP Canada data, therefore insoluble data from the historical drill holes was not used in the resource estimation.

Discussion and Qualified Person's Opinion

The deposit shows limited grade variability. This is demonstrated by the relatively simple mineral composition characteristics, lack of structural complexity, and the continuous nature of the mineralization. The K_2O grade average is 25.6 per cent for the historic drill holes and 25.9 per cent for the BHP Canada drill holes.

Historical drill hole data was manually entered from the copies sourced from the Saskatchewan Ministry of Energy and Resources database. An internal review of the data entered against the source files was completed and entry errors corrected.

BHP Canada exploration data is managed internally using processes and systems that follow the BHP Canada data management procedures and protocols. The BHP Canada potash exploration database has a security model, which restricts user access to those with supervisor approval and the system tested and reviewed yearly. All primary data sources for the drill holes are stored on a secure server that is backed up routinely.

BHP Canada's modelling work procedures require statistical checks to ensure the data used for interpretation honours the exploration database source data.

In the opinion of the Qualified Person the sampling procedures and analytical data control processes undertaken by SRC ensure data of sufficient accuracy, precision and control of contamination for the main chemical elements of interest and that the data is suitable to support resource estimation. Additionally in the opinion of the Qualified Person the historical K₂O values were found to be suitable to be used in resource estimation.

8.4 Opinion on Adequacy

The Qualified Person's opinion is that drill core logging, core sample selection, preparation, assay, and security measures taken to ensure the validity and integrity of the samples and all QA/QC measures during these stages in both historical drilling and BHP Canada exploration drilling are adequate and acceptable. Data collection and quality is to industry best practices to support the current resource model and is adequate in terms of accuracy and precision for the main elements of interest, K₂O, MgO, and Na₂O at the level of interest.

8.5 Non-Conventional Industry Practice

There were no procedures followed that are not part of conventional potash industry practices.

9 Data Verification

9.1 Data Verification Procedures

9.1.1 External Reviews

As confirmation of the mineral reserve and resource process, third-party consultants are occasionally hired to perform verification studies. The Jansen Mineral Resources were most recently reviewed by an independent third party in May 2020. That review included database checks and concluded that the database supporting the geological information of the resource estimate is complete and complies with mining industry standards. The review did not identify any major issues with the geological model or resource estimate. All issues identified have been addressed and no update to the resource estimate has been made. No changes in the geological modelling or resource estimate processes have been implemented since the 2020 review.

Assay database verification was undertaken by a contracted database company hosting the acQuire database. Any new data input into the database underwent strict verification to ensure the data was accurate. Any issues with data caused the database to reject the dataset and an error report was generated to reflect any issues with import. When this occurred, the data was corrected by a BHP Canada representative in charge of the database maintenance and re-imported. Administrative access to the database was restricted to a single user.

After the transfer of the assay data from the acQuire database to the OpenWorks database, a database verification process was carried out to ensure that the data was transferred properly. During the currently ongoing OpenWorks to EPOS data transfer, similar QA/QC processes were put in place to check the data integrity and potential errors.

In 2006 and 2007 extensive review of historical holes were conducted by NorthRim Exploration.

9.1.2 Internal Reviews

An independent internal review of the sampling and data collection was undertaken after the completion of the BHP Canada drilling program at Jansen in 2012, and on the geophysical data collection and interpretation in 2015. QP's had been involved in reviews. No material risks to the project were identified and all key recommendations have been completed.

A twin hole was drilled 17 metres away from one historical drill hole and the results were compared. The grade difference was within an acceptable range.

A self-audit was performed by the QP for historical drill hole geochemical data in the database back to the original data to verify the quality of the original manual database input in 2019. Overall, the historical drill hole database geochemical entry error was negligible. In summary, data verification for the Jansen has been performed by BHP Canada staff, and external consultants contracted by BHP Canada.

9.2 Limitations

Excessive drill holes are not desirable in potash mining as they may present a risk for an inflow by connecting mine openings to the above or below aquifers. The spacing between drill holes is approximately 3.6 kilometres. However, the drill hole spacing is supported by both geological

considerations and aligned with Saskatchewan Potash industry practices. The drilling program was supported with 3D seismic surveys for detailed resource characterization.

9.3 Opinion on Data Adequacy

The historical data collected (1956-1965) has no QA/QC data available. BHP Canada has verified the quality of this information through a review of the geology of the cores (relogging) and statistical comparisons against the BHP Canada collected data (3,956 samples). It is the Qualified Person's opinion that the historical K₂O values are suitable to be used in resource estimation. The statistical analysis done on the historical insoluble analysis indicated that these measurements contain a systematic bias compared to the BHP Canada data, therefore insoluble data from the historical drill holes was not used in the resource estimation.

The Qualified Person's opinion is that Jansen drill hole data and other supporting geological data align with accepted industry practices and are adequate for use in mineral reserve and mineral resource estimation.

10 Mineral Processing and Metallurgical Testing

Metallurgical testing for the Jansen project occurred in several phases. The initial test work was conducted at SGS Lakefield (SGS) to investigate the amenability of the Jansen ore to recovery by froth flotation and to get an estimate of the recovery that could be expected. SGS is a commercial facility and is independent of BHP. The SGS test work using core samples representing the Lower Patience Lake mining horizon of the Jansen orebody, was completed between December 2008 and June 2009. Additional metallurgical test work was performed initially at Eriez Flotation Division, USA in 2015 to verify flotation equipment technology selection and later at the Saskatchewan Research Council (SRC) in Saskatoon between August 2016 and August 2017 to verify process equipment selection and process design. The SRC laboratory is independent of the BHP. The ore used for the 2015-2017 test programs was from remaining Jansen drill core and representative sourced ore from an operating Saskatchewan potash mine that was determined in the QP's opinion to be representative of the Jansen run-of-mine ore. Additional supporting test work was completed in 2018 that duplicated the 2015-2017 test programs with ore from the shaft sinking program which was from the Jansen Lower Patience Lake formation. The ore from the 2018 testing program was determined to be representative of the Jansen run-of-mine ore in components and particle size.

10.1 Testing and Procedures

Initial metallurgical test work was performed from 2009 to 2018 to confirm assumptions and to generate process design data where none previously existed. The process design parameters requiring quantification during the test work programs included:

- Liberation size determination to indicate what comminution (particle size distribution) is required
 - Influence of process water on flotation performance
 - Effectiveness of insoluble mineral liberation processes as water insolubles must be mostly removed before flotation
 - Reagent type, dosage, and method of application
 - Degree of variability in potash recovery results across the ore-body under standard test conditions
 - Recovery and product grade achievable during locked cycle tests
 - Flotation product size distribution
 - Settling rate of liberated insoluble minerals for equipment sizing
 - Flotation recovery and throughput expectations with chosen flotation equipment for mass balance and equipment sizing
 - Product leaching kinetics for equipment sizing and process design
 - Hot leaching tests for crystallization process design
 - Variability testing to better understand coarse and fine flotation performance with varying feed characteristics, feed rates, equipment operating parameters, and reagent rates. This
-

was completed to enhance understanding for process design and for programming of dynamic simulation.

To determine the assays of key elements in the test work (e.g., potassium [K], sodium [Na], calcium [Ca], and magnesium [Mg]), accuracy of various analytical methods were compared, including:

- Atomic emission spectroscopy (AES)
- Atomic absorption spectroscopy (AAS)
- Inductively coupled plasma spectroscopy (ICP)
- Whole rock analysis (WRA)

This comparison resulted in selecting the AES technique to determine K and Na assays, and the AAS technique to determine Ca and Mg assays. Analyses of water insoluble minerals within the ore (i.e., insoluble minerals) were determined using ICP scan and WRA techniques.

Key data generated from the early metallurgical test program, in conjunction with test work performed in the later study phases was used to validate the process simulation model used for developing the Jansen processing flowsheets and mass balance.

10.2 Sample Representativeness

For the SGS metallurgical test program, seventeen core samples from the Lower Patience Lake (LPL) ore horizon were provided to SGS for metallurgical and mineralogical characterization.

In total, 531 kilograms (kg) of samples were available for test work as 402 kg of slabbed core, plus an additional 129 kg of residual crushed core that remained after a quarter of the core from each ore horizon was crushed. After assay, samples were split out as required.

Metallurgical test work and chemical characterization was performed on the following samples, which provided a relatively high degree of representativity to the ore in the Jansen ore body and planned mining areas

- 17 individual drill holes
- Five regional composite samples
- One global composite sample

Detailed mineralogical analysis and chemical characterization was performed on the following samples:

- Designated Head sample
- Insoluble mineral seams 401 through 406 from head sample
- Head samples of regional composite samples, including a global composite sample
- Metallurgical products, including flotation concentrate and tailing samples

As received, the crushed reject samples were prepared separately according to their Jansen designations. Each of the reject samples from a drill hole were combined, crushed to -10 mesh (-1.70 millimetres) and rotary split into 1 kg charges for use during flowsheet development testing.

A single 1 kg charge from each drill hole was further riffled to produce a 150 gram sample that was submitted for chemical analysis.

Samples from each drill core were ultimately crushed to -8 mesh (-2.36 millimetres), then blended and homogenized. Two 5 kg subsamples from each Jansen sample were set aside for regional composite sample preparation. The remainder of the crushed and homogenized sample from each hole was rotary split into numerous 1 kg charges for use in subsequent testing. A representative sample from each Jansen composite sample was submitted for chemical analysis.

Global and regional composites designated as northern, eastern, southern, western, deep south, and global were formulated according to the geographical locations of the drill holes. Each composite sample was prepared by combining 5 kg of the core sample from each drill hole of the region. The composite samples were then riffled and rotary split into numerous representative 1 kg charges for use in subsequent testing.

Figure 10-1 shows a map of the Jansen ore-body with individual drill core sample locations and division of the ore-body into various regions by geography.

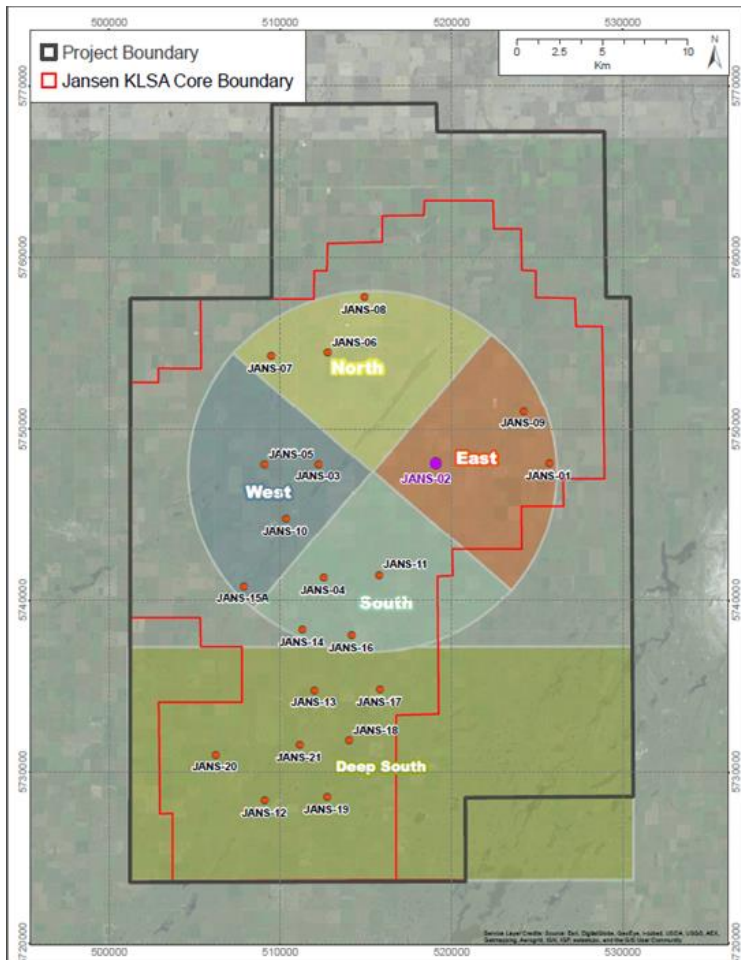


Figure 10-1: Geographical regions for metallurgical testing.

The SGS metallurgical program consumed most of the available drill core that could provide representative samples of the entire Jansen orebody that was part of the mining plan. It provided evidence that the Jansen ore body could be processed with froth flotation and at high recoveries. Further test work used other sources of ore that are discussed below.

Metallurgical test work that occurred between 2015 and 2017 had ore from two sources. The first was an existing Saskatchewan potash operation that supplied BHP Canada with ore. This sourced ore was of similar potassium chloride, sodium chloride, and water insoluble grades as Jansen ore. The particle size distribution of the sourced ore was also similar to anticipated Jansen run-of-mine ore. The sourced ore came from the Upper Patience Lake member, while BHP Canada plans to extract ore from the Lower Patience Lake member. The differences identified in the ore from these members are not, in the opinion of the Qualified Person, significant to the test program. In particular, the UPL has higher KCl and NaCl content variations, and can have lower water insoluble content. However, any BHP Canada test work involved water insoluble removal, so water insoluble content does not impact the flotation test work in any material respect. The sourced ore characteristic that differed from Jansen ore was the components of the water insolubles and the potential impact it could have on fine flotation. The Jansen process design has a water insoluble removal circuit that ensures minimal water insolubles arrive at coarse flotation. Therefore, it is the opinion of the Qualified Person, that the sourced ore was representative of the Jansen ore after undergoing water insoluble removal as per the Jansen design. Accordingly, it was determined to be reasonable for the sourced ore to be used for metallurgical testing for the coarse flotation circuit, as well as the desliming/attrition scrubbing circuit. The second ore source used for test work during this period was residual Jansen drill core. The Jansen ore used in this test work program was a blended sample of residual drill core cuttings made to be representative of the ore in the Jansen mine plan. The unit operations tested with this ore were attrition scrubbing, coarse flotation, fine flotation, and fine scavenger pneumatic flotation.

The 2018 metallurgical test program was conducted to further verify performance expectations in attrition-scrubbing, coarse flotation, fine flotation, scavenger pneumatic flotation, hot leaching of flotation tails, and to conduct further variability testing. The ore source for this test program was from the shaft sinking operations at Jansen. When the shaft sinking operations went through the Lower Patience Lake member 600 tonnes of ore were taken to SRC. Separate piles of the ore were sized and assayed to allow the creation of a composite head sample that was representative of the Jansen mine plan ore. The composite head sample was representative in KCl, NaCl, and water insoluble content, as well as in particle size distribution. It is the opinion of the Qualified Person that this composite sample was representative of the future feed to the Jansen process plant, and was acceptable for this metallurgical testing program.

The ore from the shaft excavation operations was also used in equipment testing with vendors. The type of testing done was for equipment sizing or for performance testing, and was carried out with the vendors. The type of testing that was done was for wet screening, centrifuge performance, thickener sizing, pipe flow kinetics, and for bulk material handling equipment. In each case BHP Canada worked with SRC and the vendors to verify that the samples used in the test programs match the material balance expectations.

10.3 Laboratories

Test work, first conducted by SGS Lakefield to investigate potash recovery using core samples representing the LPL mining horizon of the Jansen ore-body, was completed between December 2008 and June 2009. Subsequent flotation test work was conducted at the Eriez Flotation Division, USA in 2015. Process design verification work was completed by the Saskatchewan Research Council (SRC) in Saskatoon between August 2016 and August 2017 on the remaining

Jansen ore and a sourced ore. Additional supporting test work was completed in 2018 once the shaft sinking program reached the LPL formation and a bulk sample of Jansen ore was obtained. Both SGS Lakefield and SRC are independent, well respected labs that perform potash metallurgical test work for the mining industry. Both labs are ISO/IEC 17025 certified and use standards and procedures that are proven in the mining industry.

10.4 Relevant Results

2008/2009 Test work

Mineralogical and chemical characterization of head samples indicated a high degree of liberation of sylvite in all size fractions. Mineralogically limited grade-recovery curves, generated using QEMSCAN technology, indicated that a theoretical sylvite recovery of 90 per cent should be possible at the targeted grade of 60 % K₂O. This has been supported by metallurgical flotation test work as demonstrated in the following sections.

Heavy liquid testing determined the liberation size of the Jansen ore as being slightly coarser than 1.18 millimetres (14 Tyler mesh), which is consistent with the sizes observed at other Saskatoon area potash mines.

Following two stages of attrition scrubbing and desliming, potash recovery using a flotation process has ranged from 89.3 per cent to 95.7 per cent during variability tests performed on individual core samples, and regional composite samples. Recovery efficiencies averaging 89.7 per cent with concentrate grades of 60.4 % K₂O were achieved during locked cycle tests. These results were strongly aligned with GeoMet predictive analysis.

2015-2017 Test work

Test work was performed during this period to validate the process design changes, with the goal of verifying the same beneficiation in the process mass balance can be achieved. This involved verifying the concentrate grade and recovery could be achieved.

Attrition scrubbing and cyclone desliming tests were performed to verify scrubber design parameters and to prepare samples for flotation tests.

Flotation tests were performed to prove fine flotation using flotation columns, (Eriez, Flotation Division, USA; and SRC), coarse flotation using hydrofloats (Eriez, Flotation Division, USA; and SRC), and ultra-fine flotation using self-aspirated pneumatic flotation cells (SRC).

Metallurgical testing was performed to verify technology selection and initial performance expectations for coarse, fine, and ultra-fine flotation technology. This testing was conducted with sourced ore due to the limited availability of BHP Canada Jansen ore. Additional metallurgical testing was performed to verify the sourced ore was representative to the Jansen ore. The results of both the sourced ore and Jansen residual drill core verified the expected recovery, concentrate grade, and performance expectations of existing Jansen process design.

Ore characteristics that require discussion are water insoluble content, mineralogy, and liberation size. Water insoluble content is critical to mill design because the majority of the insolubles must be removed prior to flotation. An excess of water insolubles in flotation feed results in the water insolubles absorbing the majority of the collector (amine) resulting in poor KCl flotation. In

addition, some insolubles are more hydrophobic, which cause them to resist desliming and consume more depressant reagents.

Neither sourced nor Jansen ore showed resistance to mechanical desliming. The sourced ore has a water insoluble content of 5 per cent to 5.6 per cent while the Jansen mine plan LPL member has a higher range of 5 per cent to 10.8 per cent, as seen in the BHP Canada design water insoluble grade of 7.44 per cent. This range was irrelevant to metallurgical testing because samples of both fine and coarse flotation testing were deslimed (water insolubles removed) prior to the testing to levels comparable to the BHP Canada design. Also, the BHP Canada desliming circuit is designed on metallurgical testing that was performed on BHP Canada Jansen ore, so it is robust enough to handle the higher water insoluble content.

Liberation size needs to be considered. The Saskatchewan potash industry sees differing regional liberation, but this is not the case between the UPL member and the LPL member ores. Benchmarking of available literature shows that both members achieve 95 per cent liberation at 1.2 millimetres. Metallurgical testing also shows very similar liberation curves for both LPL and UPL members. Therefore, it is the opinion of the Qualified Person, that use of UPL ore is acceptable to verify comparative technology selection for the BHP Canada Jansen processing facility. These tests demonstrated a range of grade-recovery points that support values used in the Jansen process design.

These metallurgical tests demonstrated a performance that supports the process design for potassium chloride recovery. Testing was performed with coarse, fines, and scavenger pneumatic flotation lab-scale equipment that is representative of that used in the plant design.

Reagent consumption levels during metallurgical test work were generally higher than those observed in industry, which is typical of laboratory scale testing. Reagent optimization work was performed during this period to further define consumption levels with Jansen LPL ore. However, standard Saskatchewan potash reagents were proven effective to achieve the required performance.

2018 Test work

In 2018 the Jansen shaft excavation program went through the Lower Patience Lake member. This ore was saved, and the test work that was performed in 2015-2017 was performed one additional time on ore from the Jansen shafts. The whole cross section of the LPL was captured and a sample representing the Jansen mill feed was created as a head sample for assurance of previous test work programs. The test work program included attrition-scrubbing tests, rougher coarse flotation tests, scavenger coarse flotation tests, regrind column flotation tests, fine column flotation tests, fine scavenger pneumatic flotation tests, and hot leaching tests of flotation tails. All of the 2018 tests verified the previous test work expectations, and confirmed the process design and performance expectations.

The metallurgical testing results were inserted into the process simulation and the resulting simulated recovery was 91.3 per cent, plus an additional 1.9 per cent recovery from the addition of slimes leaching to the crystallizer circuit for an expected plant recovery of 93.2 per cent.

10.4.1 Impact of ore variability on plant recovery

A correlation between ore grade (KCl and Insolubles) and overall process recovery was developed by doing a double regression on the process simulation model runs completed at various KCl and insoluble ore grades. The relationship, which can be used to predict the impact of ore grade changes with or without proportional changes in the other component, can be represented by:

$$\text{Recovery} = 86.20 + 0.25 \times \%KCl - 0.38 \times \%Insolubles$$

With recovery and grade expressed as percentage numbers.

This relationship is valid for ore grades ranging from approximately 38 % KCl up to 41 % KCl and from approximately 6.9 % Insolubles up to 8.0 % Insolubles (Figure 10-2, Figure 10-3). Below or above this range, the relationship is not expected to be linear and equipment is not designed to handle further excursions. Range analysis of the mine plan and ore body model has shown that expected hoisted ore grade and plant feed grade are generally expected to be within this range. The design feed grade of the Jansen process plant is 39.4 % KCl.

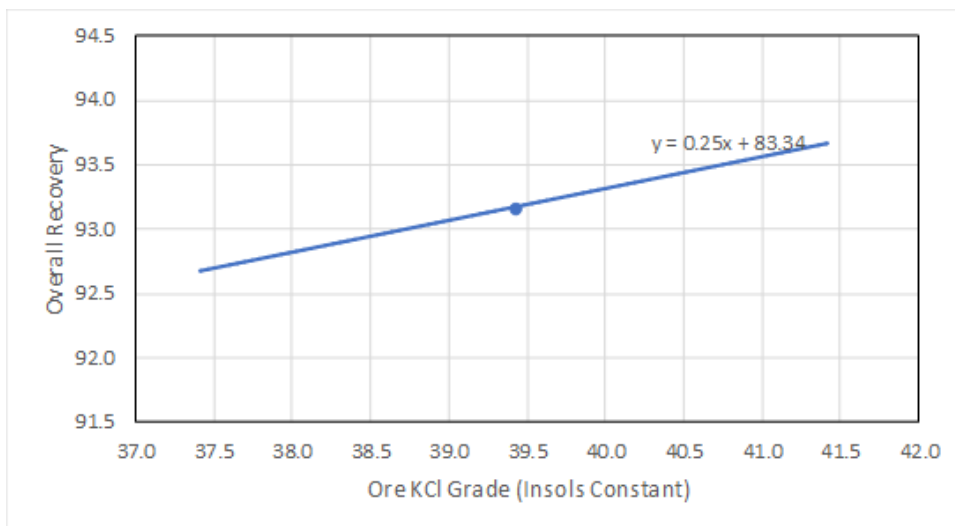


Figure 10-2: Percentage recovery vs. ore grade % KCl.

The process simulation model indicates that for every 1 per cent increase in insoluble ore material, a loss of 0.38 per cent will be experienced in percentage recovery with KCl held constant. If a reduction in insoluble is partly made-up for by an increase in KCl, the equation above can be used to determine the combined impact of an increase in KCl and a decrease in Insolubles. The design water insoluble content of the Jansen process plant ore is 7.44 % KCl.

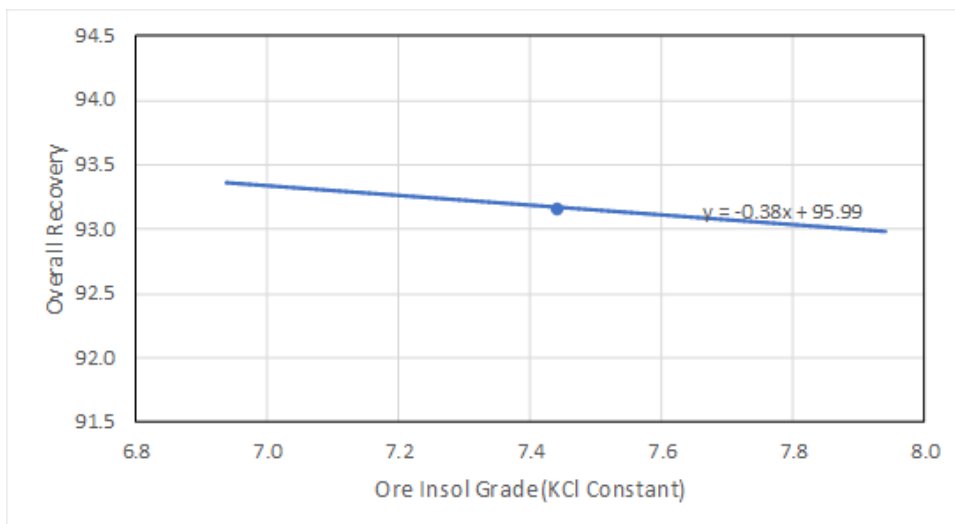


Figure 10-3: Percentage recovery vs. insolubles.

The effect of fines and coarse content in the ore was investigated through the process simulation modelling and is shown below. Fine ore is any material that is below 100 mesh Tyler (0.15 millimetres) and coarse ore is larger than 54 millimetres (Figure 10-4).

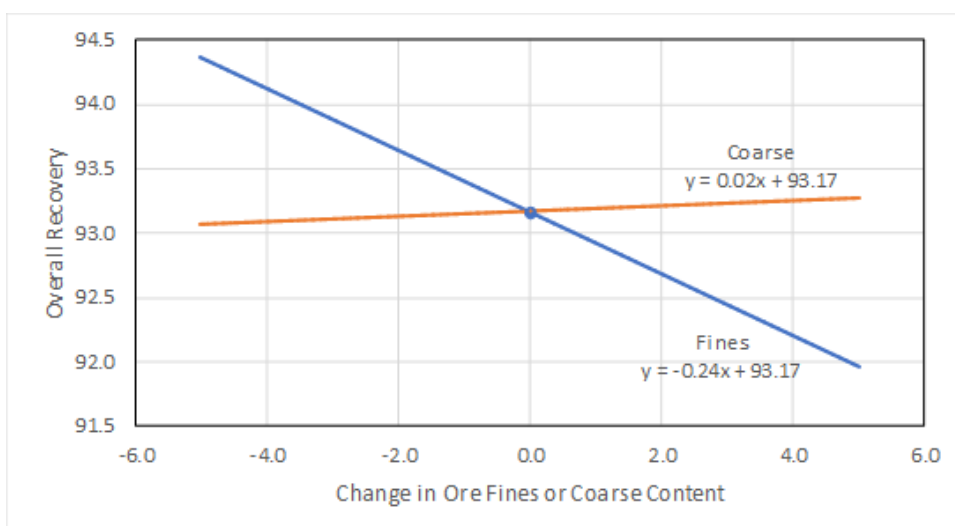


Figure 10-4: Percentage recovery vs. fines and coarse content in ore.

Ore grade variability will not only impact plant recovery, but also the amounts of different reagents required. However, it is the opinion of the Qualified Person that the limited range of ore variability indicated in the mine plan can be easily managed with the existing process design.

10.5 Adequacy of Data and Non-Conventional Industry Practice

The Qualified Person validates that conventional practices were used in the metallurgical test work, process simulation, and evaluation of results. The only area that moved away from convention was in using a bulk ore sample for the final process design metallurgical test work. The initial 2008/2009 samples, that were representative of the whole orebody, were used up in the metallurgical testing at SGS that was based on the initial process design. As BHP Canada continued engineering, the design of the flotation circuits changed from bulk flotation to fines/coarse flotation. There was inadequate Jansen sample available for the complete metallurgical test work program, so purchased ore was used, and confirmation test work was

done with a small amount of Jansen drill core available. The construction of the shafts also provided an additional opportunity to test the process design with Jansen ore. A bulk sample was obtained from the Jansen shaft excavation of LPL ore. This ore was analyzed to verify that it was geologically similar to the representative ore that had been drilled previously. The metallurgical test program was then duplicated using Jansen ore, and the Qualified Person validates that the results were as expected and previously reported.

10.6 Opinion on Influence for Economic Extraction

In the opinion of the Qualified Person, the data derived from the various sources detailed above is adequate for design of processing facilities and provides suitable product grade/recovery predictions for use in production rates. Confidence is further increased with the use of proven equipment in the potash industry and numerous Saskatchewan companies processing ore of similar composition.

11 Mineral Resources Estimates

The resource estimation process that BHP Canada follows is well established, consistent with industry practices, and is based on the integration of 3D seismic data and drill hole information. A set of procedures governs geological interpretation, estimation, and reporting of Mineral Resources including peer reviews. Documentation of the resource modelling work used for reporting is stored electronically in a secure centralised location. These documents contain information on deposit extents, geometry, detailed geological and geostatistical modelling, data preparation including compositing, and classification parameters.

The Mineral Resource qualified persons visited the sites regularly for program planning and reviews, gaining further understanding of the exploration program.

11.1 Key Assumptions, Parameters, and Methods Used

Cut-off parameters

The Mineral Resources are constrained stratigraphically, from the top of the 406 clay seam contact with the salt unit to a thickness of 3.96 metres. This thickness corresponds on average to the thickness measured from the top of the 406 clay seam to the bottom of the 402 clay seam. The style of mineralization and the mining method does not support selective mining based on quality cut-off values. The horizontal extent of the resource is defined by the occurrence of mapped anomalies and by a boundary that is 800 metres away from the lease edge.

Mining factor

The mineralization will be mined with continuous boring machines in a single pass within the stratigraphic bounds of the seam. During mining, it is expected that dilution from low-grade material cut from outside the stratigraphic markers may occur to maintain ground stability. The dilution is accounted for in the Mineral Reserves. Areas containing large numbers of hazardous geological features which do not allow practical extraction with the proposed mining method, are not included in the resource (Figure 7-2, Figure 11-2).

Metallurgical factors

Carnallite anomalies are mapped and included in the resource model with appropriate mineralogical parameters, as magnesium from the carnallite can interfere with ore processing. Insoluble content is also included as a resource model parameter because insoluble material is required to be removed during processing.

The moisture content of the LPL sub-member is estimated to be 0.3 per cent based on analytical testing.

An 800 metre wide zone from the lease boundary is excluded from the Mineral Resources, as it is assumed that no-mining will take place within 800 metres of the lease boundary.

Environmental factors

Brine waste from the processing operation planned to be disposed into an aquifer approximately 400 metres below the LPL mining horizon.

The solid salt waste from processing will be temporarily stored on the surface in a tailings management area, together with the insoluble fraction of the mineralization.

The estimation of these volumes is based on the resource and subsequent reserve model parameters, and environmental precipitation model. The related Environmental Impact Statement has been submitted to, and approved by, the Saskatchewan Ministry of Environment.

11.2 Geological Modelling

Geological modelling techniques employed by BHP rely on the close integration of drill hole data and 3D seismic information, including quantitative interpretation of seismic data.

Drill hole data interpretation is based on drill core and collected downhole geophysical data. Detailed mapping of geology relies on the identification of clay seams and related features and is based on visual core logging, geochemical assay data (BHP Canada and historical drill holes), and geophysical data from BHP Canada drill holes, including high-resolution acoustic televiewer data.

The 3D seismic data is first matched to drill hole data using standard geophysical techniques. This is followed by the mapping of geological horizons throughout the seismic volume and by the identification and mapping of structural geological features.

Quantitative interpretation of the 3D seismic data includes inversion of the seismic data using advanced seismic techniques to generate volumes of physical properties (Acoustic Impedance and Density) that reflect the mineralogical composition of the deposit and surrounding geology.

Mineralization domains are established based on information generated by the quantitative interpretation information. The domains within the LPL Mineral Resources include: the mineralization, areas of extensive no-potash anomalies, carnallite anomalies, and areas with structural features that pose a hazard to mining. The established domains are verified against drill hole data.

The geological model also includes geotechnical features present immediately above the mining horizon.

Drill hole and seismic data interpretations undergo an internal peer review process to ensure accuracy and consistency. Datasets are cross-checked and verified against each other to ensure the consistency of interpretation.

11.3 Block Modelling

Due to the horizontally continuous nature of the deposit, lack of structural complexity, and proposed extraction method, the resource is modelled on a two-dimensional grid. The resource is divided into layers, or plies, based on geological factors and mining constraints. The primary and thickest layer contains the bulk of the resource and the highest grade. Additional thinner layers above and below are included to model the resource outside of the main zone (Figure 11-1).

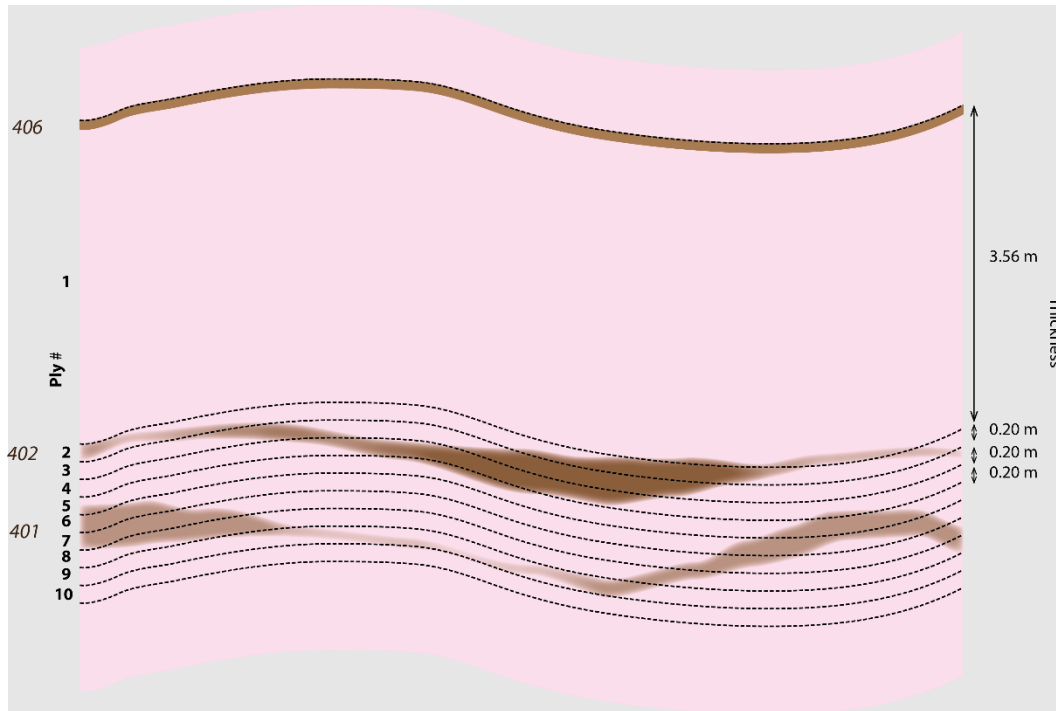


Figure 11-1: Schematics of the block model set up for resource modelling. The model is referenced from the 406 seam, approximate location of the 402 and 401 seams are also shown for reference.

Drill hole data preparation for resource modelling starts with identification and recording of clay seam locations, followed by the compositing of geochemical assays and physical property data from well logs over the defined model layers. For example, geochemical data at the wells from the top of the 406 seam down to 3.56 metres was composited by sample length weighted averaging and assigned to Ply#1. Intervals with missing data are automatically excluded from the process. Correlations between physical properties of the resource are established and noted for use during the resource estimation process.

Information from the inverted seismic volume is extracted for the LPL level. This information, together with the composited drill hole data, are used to generate the resource model. The modelling grid spatial dimension is set to 30 metres by 30 metres, which corresponds to the seismic survey bin size. This ensures that the full detail of the geological information, captured by the seismic survey, is used in the resource modelling process.

The estimation of qualities (K_2O , MgO , insoluble) and density was performed using the co-located co-kriging approach, where the hard data are the composited drill hole information, and the soft data are the seismic information. This methodology allows the integration of high-resolution seismic data and sparse drill hole data without the loss of spatial resolution, and an increase in the confidence in the estimate due to integration of all available data.

Parameters for the estimation that describe the spatial continuity of the deposit, variogram range, nugget and sill, were obtained from the physical property map of the inverted seismic data. The sensitivity of the Resource Model to the uncertainty in the estimation parameters was tested and considered in the resource classification. The large and sparse drill hole spacing does not allow the estimation of spatial continuity in a reliable manner. The modelled deposit qualities (K_2O ,

MgO, insoluble, and density) are estimated in a sequential manner to ensure the observed correlations among them are preserved. In carnallite domains, the grade and physical property values are assigned to cells due to the limited data availability from drill holes. In no-potash domains the grade is assigned and physical property values co-estimated.

The moisture content of the potash was considered extremely low and showed little variability and was estimated by averaging the analytical results.

Geological features that are important for geotechnical consideration and are not imageable by the seismic methodology, are modelled based on drill hole intersections using geostatistical techniques. The modelling parameters used were established based on the recommendation of internal experienced subject matter experts.

Outside of the 3D seismic area the qualities and tonnages of the resource are estimated based on limited information. In the Qualified Person's opinion the resource quality of the LPL is consistent over large areas, therefore it is reasonable to expect that the inferred resource quality and thickness is very similar to the measured resource. Hence, the reported qualities of the Measured Resource are assigned to the Inferred Resource. Geological features and anomalies identified on the 2D lines are used to exclude areas without mineralization and estimate the available tonnage based on the remainder area.

The Qualified Person considers that the resource estimation process is adequate to support the Jansen Mineral Resource estimates.

11.4 Validation

Validation of the estimates include:

- visual and diagrams-based validation of models to check ranges, outliers, unexpected model behaviour
- global statistical comparison of volume weighted average cell grades to both raw and de-clustered drill hole grades
- comparison to previous resource estimates
- comparison of resource model predictions to post exploration drilling (Disposal zone testing and monitoring, brine injection) results
- comparison to regional resource information available outside of the Jansen lease

The resource quality data tabulated from different sources (Table 11-1) demonstrate that the estimated resource qualities from the resource model are well aligned with the exploration data. Based on the conducted validations it is the opinion of the Qualified Person that the resource model is appropriate for resource estimation and well supported by the available exploration data.

Table 11-1: Comparison of drill hole, declustered (area weighted drill hole), and resource model K₂O values from Ply#1.

% K ₂ O	Min	Max	Mean	Median	Standard deviation	# of data points
Drill hole data	22.3	30.7	26.4	26.3	1.8	38
Area weighted drill hole data	22.3	30.7	26.2	26.1	1.7	38
Resource model	22.3	31.5	26.2	26.3	0.3	805,230
% Insoluble						
Drill hole data	5.1	10.3	7.2	6.8	1.6	23
Area weighted drill hole data	5.1	10.3	7.1	6.6	1.5	23
Resource model	5.1	10.3	7.8	7.8	0.1	805,230

11.5 Cut-Off Grades Estimates

The LPL deposit is vertically confined by sharp stratigraphically defined mineralization boundaries and has spatially consistent quality. The material is believed to be economical within the defined boundaries based on pricing developed within the market study section of this report (Section 16). Due to this there is no cut-off grade applied.

11.6 Reasonable Prospect for Economic Extraction (RPEE)

The Inferred Mineral Resource extends around the Measured Mineral Resources Figure 11-2.

Key assumptions that support the potential economic extraction of the Inferred Resources include (but are not limited to):

- The resource will be mined with the same methodology as the current Mineral Reserves;
- The Inferred Resource will be accessed by extending the current Mine Design;
- The qualities of the Inferred Resource are expected to be closely aligned with the qualities of the Measured Resources that have been converted to Probable Reserves. This is supported by the already described consistent nature of the deposit and available, albeit limited in the Inferred Resources area, exploration data; and
- The modifying factors and price assumptions of the current Mineral Reserves are applicable to the Inferred Resources

It is the opinion of the Qualified Person that the major barrier that might hinder the potential extraction of the Inferred Resources are the unmapped anomalous geological features that are present within the Inferred Resource or the features that would prevent access to the Inferred Resource from the current Mine Design. Further exploration work, primarily 3D seismic, will be required in the Inferred Mineral Resource area to upgrade it to Measured category, and potentially to Mineral Reserves.

11.7 Resource Classification and Criteria

The classification of Mineral Resources takes in account two main factors:

- exploration data coverage (2D seismic, 3D seismic, and drill hole data)

- estimation uncertainty

There is no industry wide classification available for Saskatchewan potash. The classification below has been developed by BHP Canada.

Measured

The resource estimate is classified as measured when it is based on a resource model that integrates 3D seismic and drill hole information and the estimated uncertainty of predicted tonnage and grade estimates are less than ± 10 per cent over an approximate annual production area.

Indicated

The resource estimate is classified as indicated when it is based on a resource model that integrates 3D seismic and drill hole information and the estimated uncertainty of predicted tonnage and grade estimates are less than ± 15 per cent over an approximate annual production area.

Inferred

The resource is classified as Inferred where the presence of the intact Prairie Evaporite Formation is confirmed by 2D seismic data with line spacing no wider than 4,000 metres and a sufficient number of drill hole intersections are available to infer the presence of the LPL sub-member.

The areal extent of the classified Mineral Resources is shown in Figure 11-2.

Zones within the tenure boundary that have not been classified represent areas where no mineralization is present due to the presence of carnallite or no-potash anomalies, areas of hazardous geological features, stand-off around tenure boundaries, or where BHP Canada does not have tenure rights.

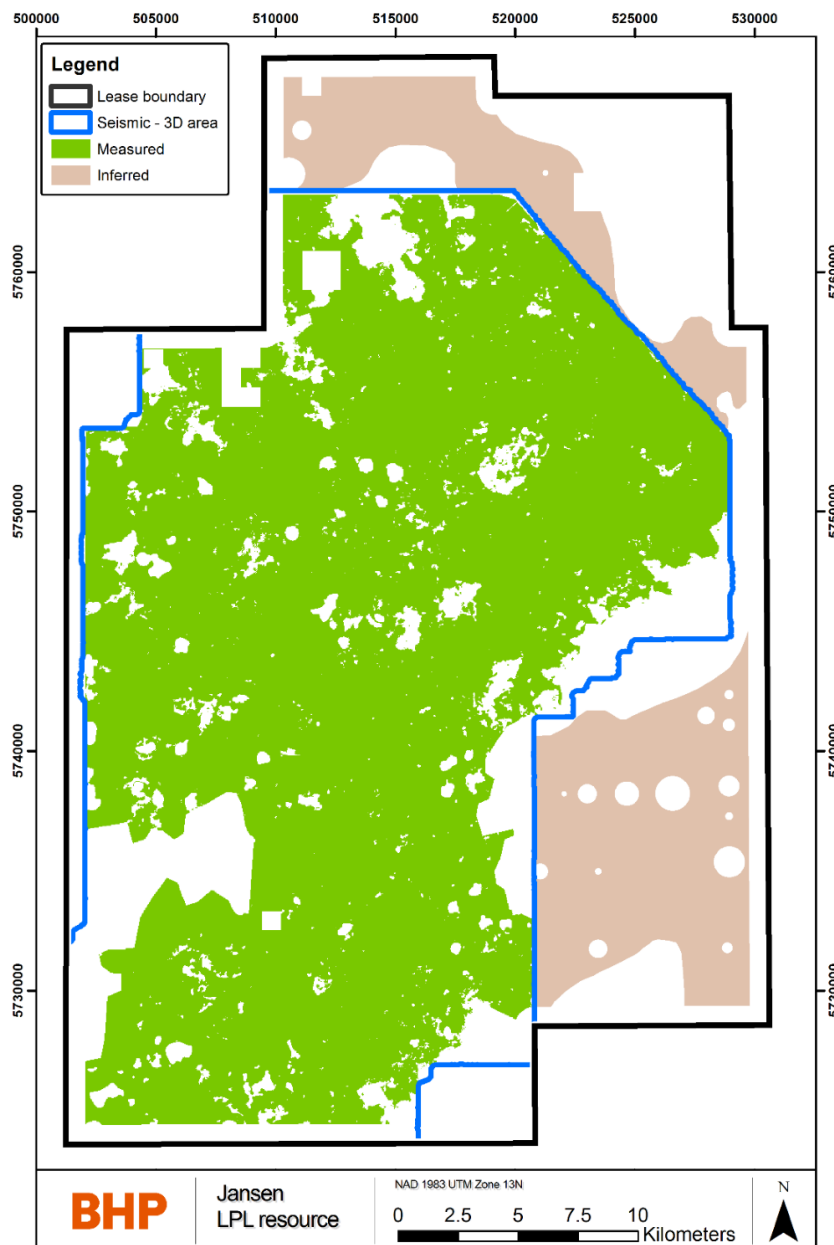


Figure 11-2: Plan of the Jansen LPL classified Mineral Resource. Note that only Measured Resource has been converted to Mineral Reserves. White areas are not part of the resource.

11.8 Uncertainty

Jansen Measured Resource

Uncertainty of the measured resource was assessed using statistical techniques. Models of the measured resource estimate with different probabilities were generated to quantify the uncertainty in resource qualities and geological features relevant for geotechnical considerations. These resource estimates were used to generate uncertainty estimates for the Mineral Reserves. Five measured resource models were generated:

- Minimum case – 99 per cent chance that the actual will equal or exceed the estimate
- Low case – 90 per cent chance that the actual will equal or exceed the estimate

- Mid case – 50 per cent chance that the actual will equal or exceed the estimate. Reported resource qualities are based on this estimate
- High case – 10 per cent chance that the actual will equal or exceed the estimate
- Maximum case – 1 per cent chance that the actual will equal or exceed the estimate

The sources of uncertainty for the measured resource qualities are:

- Finite number of physical samples obtained with drilling
- Relatively small size of the physical samples compared to the nature of the mineralization

The sources of uncertainty of geological features relevant for geotechnical considerations are:

- Finite number of core samples obtained with drilling
- Relatively large distance between drill holes compared to the features size

The outline of geological features identified on the 3D seismic image has uncertainties that are related to the spatial resolution of the seismic data. Uncertainties in these boundaries are not material to the measured resource as they have minimal impact on the reported tonnage. The impact of their uncertainty on mine design is considered in the Mineral Reserves.

Jansen Inferred resource

The area classified as inferred resource has limited exploration drilling data and only sparsely spaced 2D seismic lines. The inferred resource tonnage has a high degree of uncertainty as the extent and number of anomalous and hazardous geological features are unknown. The Qualified Person's opinion is that this uncertainty is adequately reflected in the inferred classification of the area.

11.9 Mineral Resource Statement

Table 11-2 contains the statement of Mineral Resources for Jansen as at 30 June 2022. A detailed breakdown of the Mineral Resources by individual deposit, classification and material type is presented on an Exclusive basis (i.e. exclusive of those Mineral Resources that have been converted to Mineral Reserves).

Table 11-2: Jansen - Summary of Potash (Exclusive) Mineral Resources (as at 30th June 2022)

Potash (1)(2)	Mining Method	Measured Resources				Indicated Resources				Measured + Indicated Resources				Inferred Resources				BHP Interes t %				
		Tonnage		Qualities		Tonnage		Qualities		Tonnage		Qualities		Tonnage		Qualities						
		Mt	%K ₂ O	%Insol.	%MgO	Mt	%K ₂ O	%Insol.	%MgO	Mt	%K ₂ O	%Insol.	%MgO	Mt	%K ₂ O	%Insol.	%MgO					
Canada Jansen (3)(4)(5)(6)(7) (8)(9)(10)(11)																						
LPL	UG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,280	25.6	7.7	0.08	100
Total potash		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,280	25.6	7.7	0.08	

(1) Mineral resources are being first time reported in accordance with S-K 1300 and are presented for the portion attributable to BHP's economic interest. All tonnes and quality information have been rounded, small differences may be present in the totals.
 (2) Mineral resources are presented exclusive of mineral reserves.
 (3) Jansen, in which BHP has a 100% interest, is considered a material property for the purposes of item 1304 of S-K 1300.
 (4) The point of reference for the mineral resources was in situ.
 (5) Mineral resources estimate was based on a potash price of US\$338/t.
 (6) Mineral resources are stated for the Lower Patient Lake (LPL) potash unit and using a seam thickness of 3.96 m from the top of 406 clay seam.
 (7) Mineral resources are based on the expected metallurgical recovery of 92%.
 (8) Potash or sylvite (KCl) content of the deposit is reported in potassium oxide form (K₂O). The conversion from KCl to K₂O uses a mineralogical conversion factor of 1.583, for example, 25.6% K₂O grade is equivalent to 40.5% KCl.
 (9) % MgO is used as a measure of carnallite (KCl.MgCl₂.6H₂O) content where per cent carnallite equivalent = % MgO x 6.8918
 (10) Mineral resources tonnages are reported on an in-situ moisture content basis and was estimated to be 0.3%.
 (11) The sole purpose of the presented information above is to demonstrate the economic viability of the mineral reserves for the purposes of reporting in accordance with S-K 1300 only and should not be used for other purposes. The annual cash flow data was prepared based upon Pre-Feasibility-level studies and the historic average prices and costs described in this Technical Report Summary; it is subject to change as assumptions and inputs are updated. The information presented does not guarantee future financial or operational performance. The presented information contains forward-looking statements. Please refer to "Note Regarding Forward Looking Statements" at the front of this Technical Report Summary.

11.10 Discussion of Relative Accuracy/Confidence

Estimates of Inferred Mineral Resources have significant geological uncertainty and it should not be assumed that all or any part of an Inferred Mineral Resource will be converted to Measured or Indicated categories with further work. Mineral Resources that are not Mineral Reserves do not meet the threshold for reserve modifying factors, such as estimated economic viability, that would allow for conversion to mineral reserves.

In the Qualified Person's opinion, the relative accuracy and therefore confidence of the resource estimates is deemed appropriate for their intended purpose of global resource reporting and medium to long-term mine planning studies. The factors influencing the accuracy and confidence as stated in Section 11.7 are taken into consideration during classification of the model and are therefore addressed by the Qualified Person in the attributed resource classification.

12 Mineral Reserve Estimates

The Jansen Mineral Reserves are summarized from the approved Life of Asset (LoA) plan for Jansen Stage 1 completed in Fiscal Year 2021 (FY2021) in accordance with the BHP requirements for Major Capital Projects. The Jansen potash project mineral resource model and mineral resource estimate have been used for the mine planning and conversion to the Mineral Reserves as at 30 June 2022. The LoA plan incorporates:

- Scheduling material movements from designed final mining excavation plans with a set of internal development sequences, based on the results of the resource evaluation process;
- Planned production from scheduled deliveries to processing facilities, considering metallurgical recoveries, and planned processing rates and activities;
- Capital and operating cost estimates for achieving the planned production;
- Assumptions for major commodity prices and other key consumable usage estimates;
- Revenues and cash flow estimates;
- Financial analysis including tax considerations.

Mineral reserves have been evaluated considering the modifying factors for conversion of measured and indicated resource classes into proven and probable reserves. The details of the relevant modifying factors included in the estimation of mineral reserves are discussed in the following section.

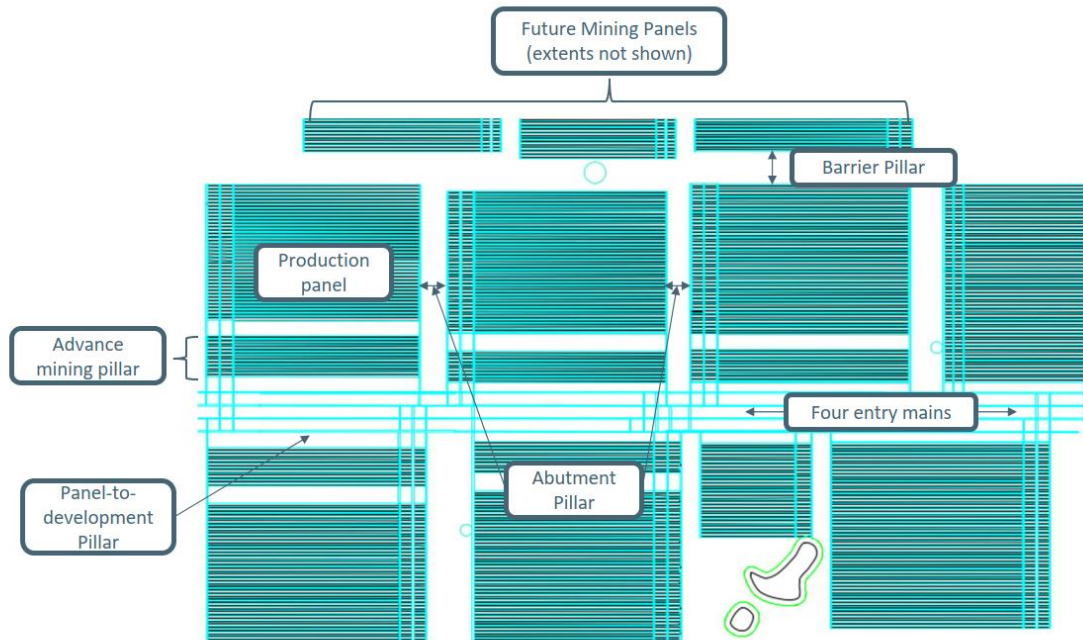
12.1 Key Assumptions, Parameters and Methods Used

The deposit is relatively two-dimensional (laterally extensive and relatively thin) and is “soft rock” thus amenable to mining using track-mounted boring machines, roof-mounted or floor-mounted conveying systems, and ancillary rubber-tired mining and transport equipment. The primary method of extraction is continuous mining using long room and pillar method within the Lower Patience Lake (LPL) sub-member.

The mine is designed to reduce the risk of water inflow from over lying aquifers and to provide room stability for safe working conditions and managed through varying the extraction ratio relative to the life of the entry. Production panel mining extraction ratio ranges between 41 per cent and 44 per cent and long term travelways are planned to have a reduced extraction ratio of approximately 10 per cent for stress shielding. Further reduction in extraction ratio occurs with the placement of panels relative to one another to reduce the influence of stress. This is achieved through establishing pillars between active and future zones of mining, which is shown in Figure 12-1. Pillar sizes are shown in Table 12-1.

The geotechnical parameters have been supported and developed by external consultants and the Jansen geotechnical Qualified Person. The parameters were developed after empirical and numerical modelling analysis, including benchmarking studies of the deposit assessing; the geological conditions, depth, extraction ratio, extraction rates, and expected useful life of the entries. The pillar widths are based upon the study outcomes and recommendations, and guide the mine design, with depth and overburden type forming the calculation basis of the in-situ stress for the Prairie Evaporite. Pillars within the mining horizon are used to enable safe mining of

entries, maintain entry stability throughout their required life, and maintain the integrity of the overlying strata.



N.T.S.

Figure 12-1: Naming convention and typical arrangement of pillars

Table 12-1: Mine Design Modifying Factors

Modifying factor	Pillar Distance (m)	Note
Shaft (pillar diameter)	4,000	Production mining exclusion zone
Mainline development	100	
Block development	60	
Advance mining	500	Function of distance to end of mining block
Panel to development	150	
Abutment	150	
Barrier	300	
Town limit	500	Standoff from demarked town limit
Collapse Anomaly– (Severity Class 1, 2, 3)	300, 300, 50	Refer to Section 6.4 and Figure 7-22,
Drill Holes – Historic, BHP (pillar diameter)	180, 100	Historical refers to all holes pre 2008
Brine disposal well (pillar diameter)	200	

Mechanically-anchored rock bolts are the planned ground support method for the mine. The support design is based on overlying salt beam thickness and/or a change in material characteristics. The salt beam thickness is the distance from roof to the next overlying clay seam or plane of weakness. When the overlying strata is thinner than the practical limit of rock bolt

ground support, the strata will be excavated and become part of the processing stream as dilution. The design of the mine excavations is not driven by roof beam thickness prediction models. Roof beam thickness thresholds are listed in Table 12-2. The Mineral Reserve estimate is considered to be fully diluted for reporting purposes and a reference point of Run of Mine ore delivered to the Mill for processing.

Table 12-2: Roof beam thickness thresholds

Entry Type	Cut	Bolt	Planned Overcut
Production	0 to 30 cm	30 to 50 cm	10 cm
Development	0 to 50 cm	>50 cm	10 cm

The mine design shapes are outlined in two dimensions with their position optimised on a lease wide scale to maximise the conversion of mineral resources, production tonnes to the development required, and capital efficiency of the bulk materials handling system. The mine design shapes are populated with the ply information from the resource model characteristics and the respective roof dilution guided by the aforementioned roof beam thickness thresholds and loaded into the mine planning model. The thickness of the planned overcut from the target roof strata is expected to be 10 centimetres.

Major geological features such as collapse anomalies, carnallite, and large leach areas indicate the areas where mine excavations are to be avoided. Some smaller scale anomalies are included within the mine design and therefore in plant feed. This dilution is unavoidable since no waste handling system exists. The combined dilution tonnage of planned carnallite zones and no-potash anomalies is less than 10 million tonnes.

The excavation sequence (Figure 13-5) is determined within the mine planning model. The mine layout is divided into four districts, with active mining planned in two districts at any given time. Mining will begin in the East and North Districts. The mine schedule does not plan for losses through abandonment of mining rooms. The tonnage and volume based consumables from the mine planning model are used in the calculation of the mine operating expenses, and serve as the trigger for maintenance based outages such as equipment rebuild cycles.

The mine planning model is limited in the breath of scope, and as a result simplifies the operation of the hoist and processing plant, and excludes all activities further downstream of the processing plant. The Production Volume Estimate (PVE) is a simulation model of the entire Jansen Value Chain; mine face through to ship loading, and considers variability and correlation within and between activities. The Expected production rates are a result of the PVE model and represent the most likely production rate of the entire Jansen Value Chain. The mine planning model is explicitly linked to the resource model and generates a deterministic ore grade profile which is used in the Economic Evaluation. The PVE model is not linked to the resource model and therefore cannot produce a corresponding grade profile to the Expected production.

Inferred Resources and Indicated Resources are not used in the estimation of the Mineral Reserve.

As described in Section 16, the through-cycle price average is estimated using Nutrien Ltd. (nee Potash Corporation of Saskatchewan Inc.) quarterly published offshore and onshore realised

prices during 2008-2020. A longer duration is considered to establish the through cycle average price, with the upswing average from 2008 to 2013 and the downside average from 2014 to 2020. An average price calculation method was used to preserve the upswing and downswing pricing in the pricing cycle. After accounting for product type and geographical sales mix to a Jansen operation equivalent, the average price is US\$313/t FOB mine (Saskatoon, Real July 2020 basis). The price is converted and represented in current dollars at US\$338/t FOB mine (Saskatoon, Real June 2022 basis) for the economic analysis. Price assumptions are discussed further in Section 16.

In this Qualified Person's opinion, it is appropriate to the commodity to use a through-cycle average price trend to estimate a reasonable reflection of the long-term potash market fundamentals. The drivers of the Potash market are more foundational and largely attributed to population, diet, and soil fertility. Short term pricing swings are largely attributed to weather, government policy, and local farm economics.

The operating cost estimate for Jansen, outlined in Section 18.2, is developed to a pre-feasibility level of accuracy. The estimate includes all costs spanning from the mining face underground to the loading of product to rail at the site. The majority of the direct capital cost estimate is based on engineering designs, and the majority of the direct bulks and equipment supply pricing are based on budget pricing from the market. Operating expenses estimates, sustaining capital, and project capital cost estimates are detailed in Section 19.

12.2 Cut-Off Grades Estimates

The orebody gently undulates over large distances, has well defined boundary conditions, and has a reasonably consistent ore grade over the Jansen lease with mining occurring on a single level. The cut-off grade has been estimated at 11.6 %K₂O and considers mining 1,070 Mt over the life of the mine using the cost data shown in Table 12-3 and mid case values shown in Table 12-6. The cut-off grade is a calculated value within the economic analysis model. The economic model intakes the production profile shown in **Figure 13-4**, and sequentially reduces the run of mine ore grade over the life of mine, until the calculated Net Present Value equals zero.

The Minimum range case, shown in Table 12-6, has aggressive overcut conditions with a complete removal of all Shadow band types when present, 20 centimetre overcut in all instances, and a fixed 4 metre production room cut height which cuts low grade material. Achieving a run of mine grade that approaches the calculated cut-off grade is believed to be unlikely and holds the assumption that no mitigating actions to improve grade are taken or successful over the life of mine.

The economic viability of the Mineral Reserve has been tested against a range of commodity prices, with detail available in Section 19. The basis for the price forecast is outlined in Section 16 of this report.

Table 12-3: Assumptions / Estimates for Cut-off Grade¹

Assumption / Estimate	Units	Value	Comment
Potash price (%KCl)	US\$/t	338	2022 Real basis. FOB Mine
Exchange rate CA\$/US\$		1.32	3 year historic average (Jul '18 through Jul '21)
Mill recovery	%	92	
Mining cost	CA\$/t	24	
Processing cost	CA\$/t	32	
Administration and overheads cost	CA\$/t	24	
Total cost	CA\$/t	80	
Discount Rate	%	6.5	
Cut-off grade	% K ₂ O	11.6	

Table 12-4: List of Cut-offs Currently in Use¹

Area / Deposit	Ore Type	Mineral Reserve Cut-off grade	Comments
Jansen	Potash	11.6 % K ₂ O	

Ranging occurred throughout the Jansen Project development, with the latest exercise independently facilitated with a broadened external industry engagement, constraining the timeframe considered to remove the effects of mitigations, and aligned to BHP's Ranging Guidelines. The Key Value Drivers (KVDs) of the project are found in

Table 12-5. A mine schedule was developed for the Minimum, Low, High, and Maximum range scenarios, which determined the tonnes and grade per period, and the total minable tonnes. A summary of ranged dilution values and resource grade are shown in Table 12-6.

Table 12-5: Jansen Project Key Value Drivers

Area	Key Value Driver	
Mine	Borer Cutting Rate (tph) Borer Failure Rate (%) Extendable Belt System (EBS) Failure Rate (%) Conveyor Failure Rate (%) Shift Change (hrs/day)	Relocation Duration (hrs/event) Turnaround Relocation (hrs/event) Bit Change Duration (hrs/event) EBS Extension Duration (hrs/event)
Hoist	Scheduled Downtime (hrs) Unscheduled Downtime (hrs)	Skip Cycle Time (seconds / cycle)
Processing	Dilution (%K ₂ O loss) Scheduled Downtime (hrs) Unscheduled downtime (hrs) Ore feed rate (tph)	Crystallizer recovery (%) Dissolution losses (%) Fines flotation recovery rate (%) Coarse rougher flotation recovery rate (%)
Rail	Overseas – Transit cycle time (hrs)	Overseas – Non-transit cycle time (hrs)
OPEX	Mine Production (# FTE) Mine Maintenance (# FTE) Surface Maintenance (# FTE) Mine Production (\$/FTE) Mine Maintenance (\$/FTE) Surface Maintenance (\$/FTE)	Operations Support (\$/FTE) Indirect labour (\$) Mine Sustaining Capital (\$) Process Sustaining Capital (\$) Export Rail Freight & Fuel (\$)

¹ - The sole purpose of the presented information above is to demonstrate the economic viability of the mineral reserves for the purposes of reporting in accordance with S-K 1300 only and should not be used for other purposes. The annual cash flow data was prepared based upon Pre-Feasibility-level studies and the historic average prices and costs described in this Technical Report Summary; it is subject to change as assumptions and inputs are updated. The information presented does not guarantee future financial or operational performance. The presented information contains forward-looking statements. Please refer to "Note Regarding Forward Looking Statements" at the front of this Technical Report Summary.

Table 12-6: Range cases - Grade summary

KVD	Min (P99)	Low (P90)	Expected	Mid (basis for Mineral Reserves)	High (P10)	Max (P1)
Shadow band	100% cut	50% cut	N/A	Dev. cut 0-50cm; Prod. cut 0-30cm	Cut 0-20cm	Bolt all
Global overcut (cm)	15	15	N/A	10	5	0
Extraction Ratio (%)	30	37	N/A	44	50	70
Inter Panel pillar (metres)	300	150	N/A	100	100	50
Inter block pillar (metres)	300	300	N/A	300	100	50
Panel room length (metres)	400	800	N/A	1,800	2,500	6,000
Resultant Dilution (%K ₂ O)	4.0	3.6	1.8	1.2	0.9	0.7
Resource grade (%K ₂ O)	25.3	25.7	26.2	26.1	26.7	27.0
Resultant RoM (%K ₂ O)	21.3	22.1	24.8	24.9	25.8	26.3

12.3 Reserves Classification and Criteria

The Probable Mineral Reserves are comprised of Measured Mineral Resources because the targeted mineralised zone has not been exposed to any significant degree to validate the modifying factors. At the time of writing, the LPL has been exposed in the wall of each shaft and no LPL lateral development has been completed to date. Given the minimal amount the orebody has been physically revealed, the pillar sizes, pillar recovery, and the overlying roof beam thickness which correlate to the total recoverable tonnes and mining dilution are uncertain

12.4 Mineral Reserve Statement

Table 12-7: Jansen - Summary of Potash Mineral Reserves (as at 30th June 2022)

Potash ⁽¹⁾⁽²⁾	Mining Method	Proven Reserves				Probable Reserves				Total Reserves				BHP Interest %
		Tonnage		Qualities		Tonnage		Qualities		Tonnage		Qualities		
		Mt	%K ₂ O	%Insol	%MgO	Mt	%K ₂ O	%Insol	%MgO	Mt	%K ₂ O	%Insol	%MgO	
Canada														
Jansen														
⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾														
⁽¹⁰⁾														
LPL	UG	-	-	-	-	1,070	24.9	7.5	0.10	1,070	24.9	7.5	0.10	100
Total potash		-	-	-	-	1,070	24.9	7.5	0.10	1,070	24.9	7.5	0.10	

(1) Mineral reserves are being first time reported in accordance with S-K 1300 and are presented for the portion attributable to BHP's economic interest. All tonnes and quality information have been rounded, small differences may be present in the totals

(2) Jansen, in which BHP has a 100% interest, is considered a material property for the purposes of item 1304 of S-K 1300.

(3) The point of reference for the mineral reserves was ore as delivered to the mill for processing.

(4) Mineral reserves estimates were based on a potash price of US\$338/t.

(5) Mineral reserves estimates cut-off is a function of mining parameters and seam thickness. The calculated cut-off grade from economic modelling where the mine plan would be break-even is 11.6% K₂O.

(6) Mineral reserves are based on the expected metallurgical recovery of 92%.

(7) Potash or sylvite (KCl) content of the deposit is reported in potassium oxide form (K₂O). The conversion from KCl to K₂O uses a mineralogical conversion factor of 1.583, for example, 25.6% K₂O grade is equivalent to 40.5% KCl.

(8) % MgO is used as a measure of carnallite (KCl.MgCl₂.6H₂O) content where per cent carnallite equivalent = % MgO x 6.8918.

(9) Mineral reserves tonnages are reported on an in-situ moisture content basis and was estimated to be 0.3%.

(10) The sole purpose of the presented information above is to demonstrate the economic viability of the mineral reserves for the purposes of reporting in accordance with S-K 1300 only and should not be used for other purposes. The annual cash flow data was prepared based upon Pre-Feasibility-level studies and the historic average prices and costs described in this Technical Report Summary; it is subject to change as assumptions and inputs are updated. The information presented does not guarantee future financial or operational performance. The presented information contains forward-looking statements. Please refer to "Note Regarding Forward Looking Statements" at the front of this Technical Report Summary.

12.5 Discussion of Relative Accuracy/Confidence

In the opinion of the QP, areas of uncertainty that may materially affect the Mineral Reserve estimate include (but are not limited to):

- The Jansen mine is not yet producing and has no operational performance data;
- Price and other economic assumptions;
- Ability to continue sourcing water from the Saskatoon South East Water Supply
- Ability to maintain environmental and social license to operate
- Integrity of the shaft liner beyond the design life of 70 to 80 years.
- Changes in assumptions related to the mine design evaluation including geotechnical, mining capability, processing capabilities, and metallurgical recoveries.

The Jansen mine is not yet producing and therefore actual results are uncertain and have not yet been reconciled against the planned performance. A Production Volume Estimate (PVE) model was developed and applied across the entirety of the value chain in an effort to understand the impact of uncertainty. The PVE model is a mine-face-to-market model of the integrated chain for Jansen. Monte Carlo simulations were performed to quantify the uncertainty of value chain inputs on the integrated capacity.

There remains uncertainty with respect to the validation of the production panel pillar sizing. Production panel mining represent approximately 90 per cent of the Mineral Reserve, with development entries comprising the remaining approximate 10 per cent. The pillar sizes have been selected to mimic stress conditions that are successfully managed in the Saskatchewan basin. The geotechnical instrumentation installation, data collection program, and numerical modelling validation plan exists and is planned to begin with lateral development start.

Managing mining face dilution via the roof beam thickness thresholds will evolve with time and ground performance data collection and analysis. Sensitivity ranging has been performed.

The mining recovery is currently planned to be 100 per cent, and includes the mining of advance mining pillars. Upon retreat from a mining block, the larger advance pillars will be mined and subject to the abutment pillar sizing. Advance pillar mining represents 100 Mt of the mineral reserve and mining of this type occurs steadily over the mine life. There is a level of uncertainty regarding the mining of the rooms within the advance mining pillars. The pillars have been designed such that the stress conditions are favourable for excavation. The recovery of the advance mining pillars does not have a material impact to the economic viability of the mineral reserve.

The shaft liners have a design life of 70 to 80 years. Planning for and adherence to shaft maintenance is a critical component to extend the life of the shaft liners. Shaft liner monitoring instrumentation exists, and can provide an idea of when additional maintenance may be required. The shaft has been identified as a critical asset.

In the Qualified Person's opinion, the relative accuracy and therefore confidence of the reserve estimates is deemed appropriate for their intended purpose of global Mineral Reserves reporting and short to long-term production planning. The application of modifying factors affecting the accuracy and confidence as stated in Chapter 11 are taken into consideration during classification of the model and are therefore addressed in the Probable Mineral Reserve classification.

13 Mining Methods

13.1 Selected Mining Method

At Jansen, the LPL ore zone was selected as the target mining zone. The LPL ore zone offers several advantages over the Upper Patience Lake and Belle Plain members. Refer to Figure 6-4. Based on the available information over the Jansen lease, the LPL has a more consistent and greater thickness, a thicker overlying salt beam for long-term stability of the overlying strata and mine workings, and a higher and more consistent grade than the UPL ore zone.

The planned mining method is long room and pillar utilizing continuous mining equipment for excavation. Refer to Figure 13-1. The mining method was selected as the deposit is stratified, generally flat lying, and suitable for mechanical cutting as the means for excavation. The thickness and the grade intervals of the LPL zone in the Jansen lease area do not vary significantly.

The mine is divided into four districts, which contain mining blocks comprised of development entries and production panels. Excavated ore is transported via conveyor network to the shaft for hoisting and subsequent processing. Development mining takes place within the LPL zone. Production room mining is completed in a two pass routine, where pass 1 is excavated from the panel travelway to the turn-around entry while a temporary conveyor system is installed as the mining face advances. Pass 2 follows the excavation wall from pass 1, and reclaims the conveyor as the mining face advances back towards the travelway. This process is repeated until all rooms have been mined in a panel.

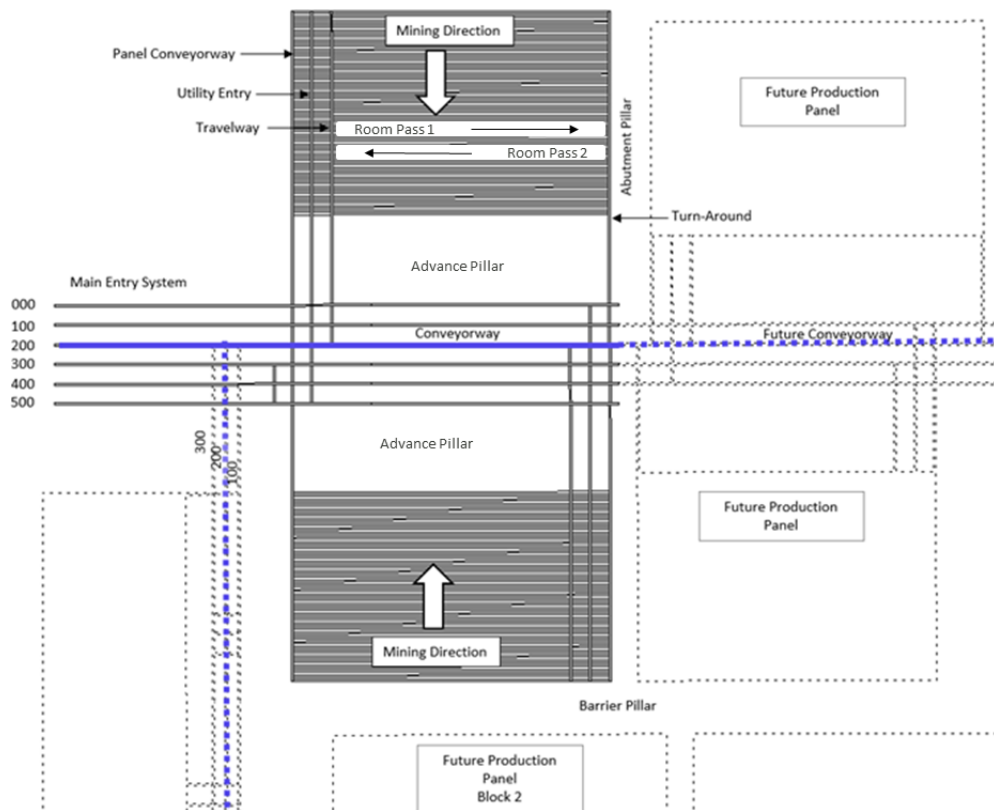


Figure 13-1: General arrangement of development access and production panels

13.2 Additional Parameters Relevant to Mine Designs and Plans

As discussed above, the Dawson Bay aquifer is in close proximity to the mining horizon (Figure 7-8). The mine is designed to avoid the occurrence of mine inflow by designing the extraction ratio such that the integrity of the overlying strata remains intact. The Dawson Bay formation in the Jansen area is expected to have low permeability or relatively low inflow deliverability potential, but may pose potential risk of water inflow if hydraulically connected to vertically adjacent aquifers. In an effort to reduce the risk of a mine threatening inflow, the Dawson Bay formation is treated as though it has a high permeability. The Hydrogeological models developed contribute to the risk analysis of water inflow to the mine and mine dewatering design (refer to Section 15.8.4 below).

13.2.1 Geotechnical Models

Geotechnical models have been developed to assess the long-term and short-term effects from mining over the life of the entries. Considerations were given to ground stability, management of mine induced inflow and surface subsidence.

Maintaining the integrity of the Second Red Beds, is one consideration for the assessment of long-term stability. Conducting geotechnical model assessments on the Second Red Beds planned mine designs has provided confidence that mining induced damage will likely not occur to the Second Red Beds or Dawson Bay limestones. These model assessments confirm assumptions that with expected local geology, fractures between the mining rooms within the Prairie Evaporite are not created connecting the mining rooms with the overlying aquifers within the Souris River, Duperow and Mannville. Maintaining the integrity of the overlying shale, limestone and halite units act as a protective barrier from risk of brine inflow. An additional control to manage the brine inflow risk, is pillar size which is controlled to reduce impact from subsidence. Zones that have the potential to contain brine, such as water bearing Dawson Bay, are marked as exclusion zones and can be avoided to further reduce the risk of potential brine inflow. Modelling of pillar design is critical to ensure mining induced fracturing of the overlying strata does not occur.

Determining the integrity of the Second Red Beds involves looking at the strength of the member versus the mining induced stresses with time. The factor of safety while mining within the LPL mining horizon, is expected to exceed 2.5. The factor of safety while mining in UPL entries is expected to exceed 1.4 with the difference in factor of safety primarily attributed to proximity of the Second Red Beds from the mined horizon.

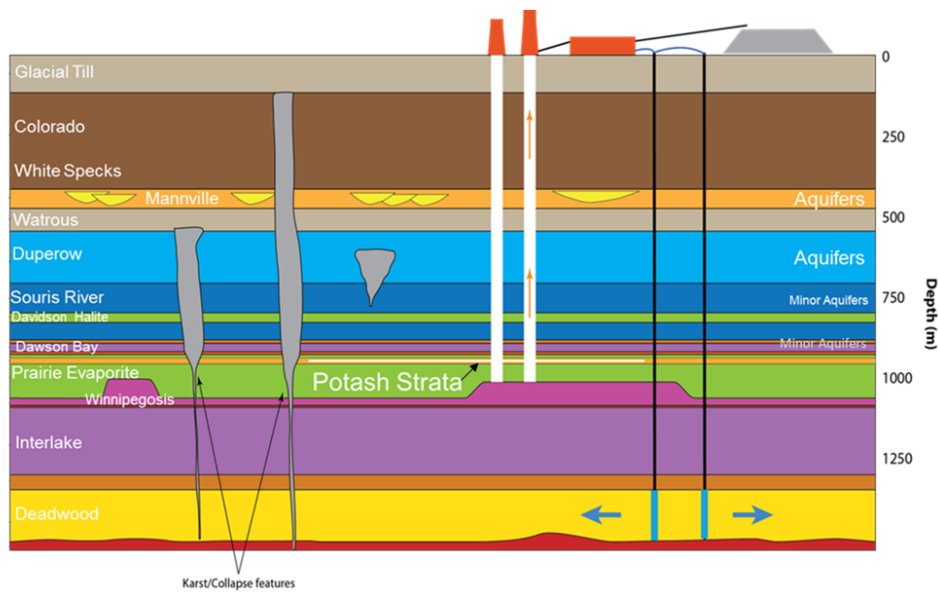


Figure 13-2: Schematic of Local Geology, Aquifer locations in relation to Potash Strata

The stability of the mined entries is controlled through room and pillar size and extraction ratio in conjunction with geological and operational considerations. Table 12-1 shows the parameters used to develop the life of mine design, whereas Table 12-2 shows the decisions in response to geological and operational outcomes. The LPL ore zone within the mine design foot print dips relative to surface 130 metres from the northeast down to the southwest (Figure 7-5). Due to increase in overburden weight, the magnitude of stress is expected to also increase in the southwest. The response from the increase in in-situ stress is to change the pillar size within panels resulting in reduced extraction, this is shown in Figure 13-3. An exception is shown for early mine life panels, where pillar size is planned for 17 metres, to enable early ground calibration in a more conservative design.

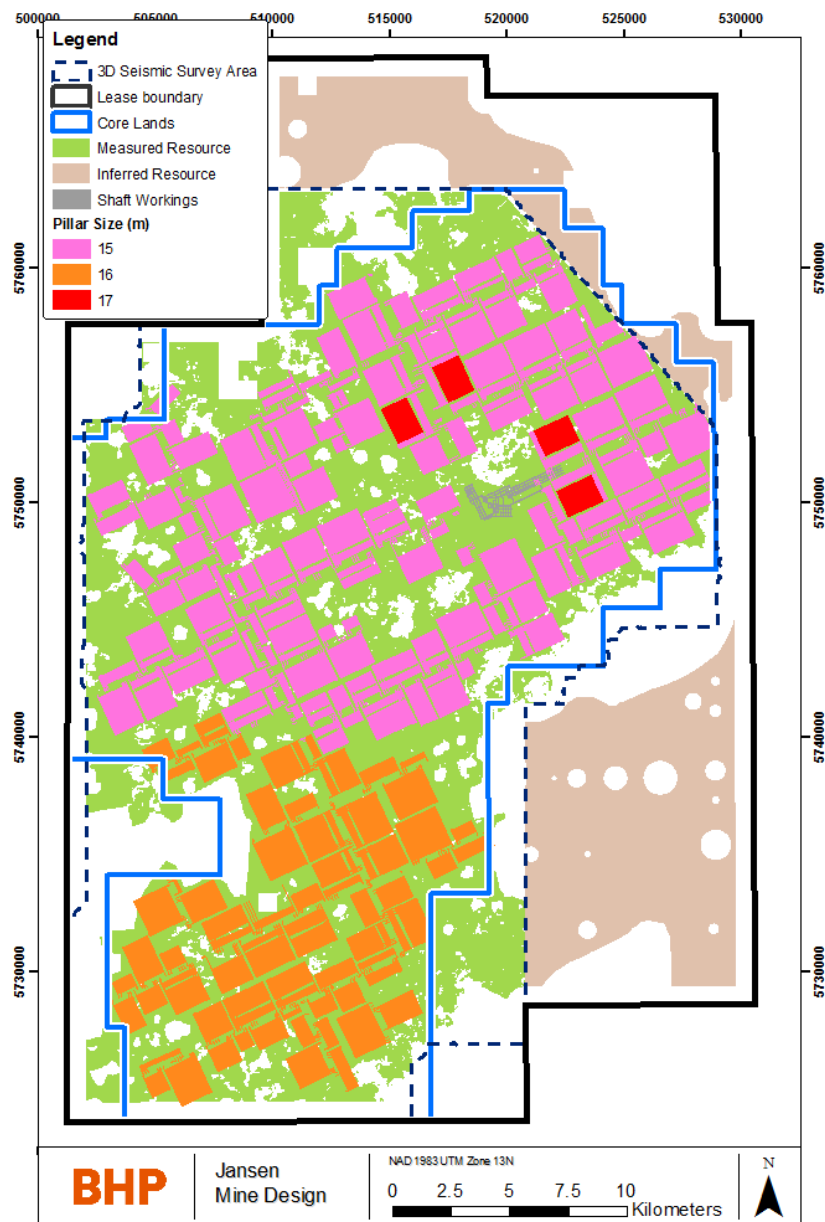


Figure 13-3: Change in panel extraction with increasing depth

The geotechnical model consists of analysis completed for all expected designs for the Jansen mine. Jansen specific mine designs that have been evaluated include shaft pillar life of mine entries in the UPL and LPL mining horizons at varying dimensions, raw ore bin, surge bin and ramps. Modelling external to the shaft pillar, was conducted on a variety of production panel and development entry layouts, including various room and pillar sizing.

In the Qualified Person’s opinion, the Jansen mine design is geotechnically feasible. The design is supported through documented similarities with the neighbouring Nutrien Lanigan mine, located approximately 40 kilometres west of the Jansen mine site, which has been in operation since 1968. There are differences between those mines –e.g., in height of room excavated and room and pillar sizes between the Lanigan mine design and Jansen mine design—however, both mines share similar area extraction ratios which is a common metric for assessing overall geotechnical conditions for entries. Furthermore, the Jansen design utilizes a narrower room width and with a planned reduced duration in room, exposure to geotechnical risks will be reduced.

There is uncertainty with the geotechnical model, particularly with pillar response, regionally for the Jansen mine as test work in the ore zone was primarily completed for one drill hole. The viscoelastic plastic response was tested on Jansen drill core, including samples from the UPL to BP. Analysis of representative intervals from the drill hole were tested in relation to proposed mine plan design. Testing from nearby exploration drill holes provide additional confidence in Jansen modelling parameters. To address the uncertainty, a ground monitoring plan for shaft pillar mine development has been developed to build upon the geotechnical database and calibrate against the existing geotechnical model prior to panel development.

13.2.2 Hydrogeological Models

The brines in the aquifers adjacent to mine levels are found to be saturated to a varying degree in potash mines. Undersaturated brines may pose substantial risk to potash mining. Even saturated brines may still have the ability to dissolve rock salts causing erosion of the rock and fluid movement resulting in potential mine inundation (i.e., groundwater inflow into a mine). Therefore, inflow is considered a material risk to the Jansen mine.

The Dawson Bay Formation is deemed to pose a potential risk of water inflows into a mine due to its water bearing potential and close proximity to the mining level ((Figure 7-2 and Figure 13-2). Porosity and formation water content in the formation are found to be variable across the Jansen mine area despite the stratigraphy being uniform and consistent. The drill hole geophysical logs and seismic data found no high porosity areas in the Dawson Bay carbonate that overlies and is closest to the planned mining zone. If the Dawson Bay formation is hydraulically connected to other adjacent aquifers through geological structures (such as collapse anomalies), this may pose an additional risk of increased water inflows (Figure 13-2). Collapse anomalies are the post-depositional geological structures, which are the products of complex geological, hydrogeological and hydrogeochemical processes. The processes include fracturing, fluid movements, rock dissolution, and rock failure. The structures are high risk features for mine excavation as they may connect aquifers and can act as a conduit to increase inflows into a mine in a short period of time. 3D seismic technology mapped the size and geometrical extent of these structures (Sections 6.4 and 7.1.4). The mitigation of potential hydraulic connection with the overlying aquifers is discussed in Section 13.2.1.

The hydrogeology of the Dawson Bay Formation was characterized by utilizing the available site-specific data and conceptualized to understand the site scale groundwater flow system. A groundwater model was developed using commercially available industry standard groundwater modelling software FEFLOW. The model was constructed based on the site scale hydrostratigraphical units and geological structures (such as collapse anomalies). Due to the variability of available site-specific hydraulic parameter values of the Dawson Bay formation, the model considered Min, Mid and Max inflow cases for Base Case inflow scenario (i.e., inflow from the Dawson Bay Formation only) and Special Case inflow scenario (when mine excavation intersects collapse anomalies). The model was built to inform potential inflow risk and provide critical information for decision making in support of mine design and mine dewatering.

In the Qualified Person's opinion, the level of technical details in the study of the Dawson Bay Formation and collapse anomalies is adequate for the assessment of their risks to potential mine inundation at the time of preparation of this report. The model needs to be updated to refine the current prediction of inflows when additional site specific data for the Dawson Bay Formation are

available. The calibration and uncertainty analysis of the model will also be required as mine operation begins and advances.

13.3 Production Rates and Mine Life

The estimated annual tonnage and grade profile is shown in **Figure 13-4**, with values shown in Table 13-1. The production profile is aggregated from the mine schedule which is planned on a monthly basis for the first 10 years, and annually thereafter through to end of mine life. The active mining area progression by period map can be seen in Figure 13-5.

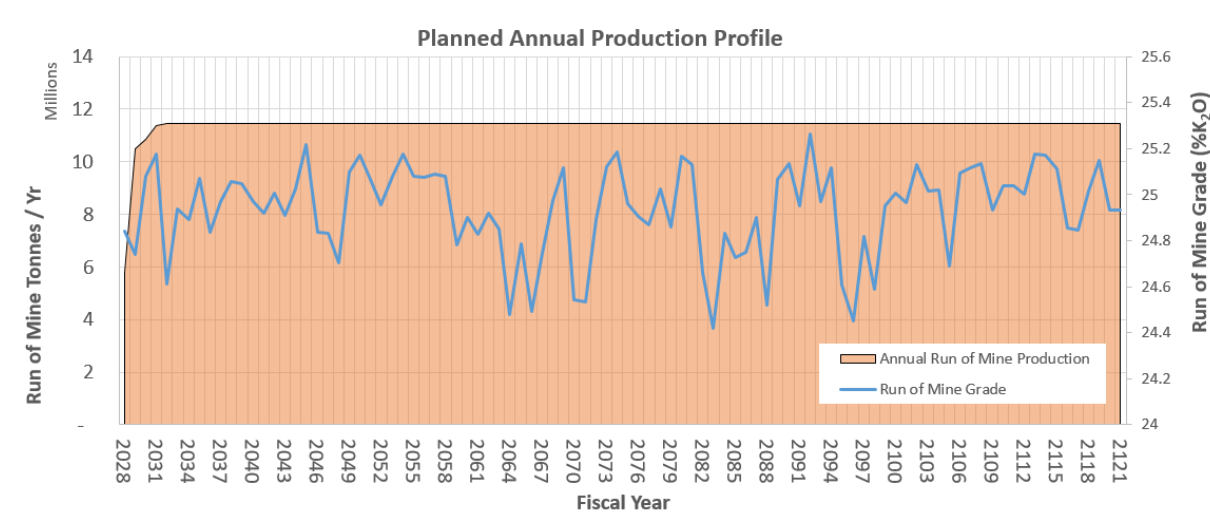


Figure 13-4: Jansen Estimated Production Profile²

Table 13-1: Estimated Run of Mine Production (by financial year 1 July – 30 June) (based on FY22 LoA)²

	Fiscal Year Ending (1 July - 30 June)									
	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Tonnes (million)	5.8	10.5	10.9	11.4	11.4	11.4	11.4	11.4	11.4	11.4
Grade (%K ₂ O)	24.8	24.7	25.1	25.2	24.6	24.9	24.9	25.1	24.8	25.0
	Fiscal Year Period (1 July – 30 June)									
	2038-2047	2048-2057	2058-2067	2068-2077	2078-2087	2088-2097	2098-2007	2108-2117	2118-2127	
Tonnes (million)	114	114	114	114	114	114	114	114	46	
Grade (%K ₂ O)	25.0	25.0	24.8	24.9	24.8	24.9	25.0	25.0	25.0	

² - The sole purpose of the presented information above is to demonstrate the economic viability of the mineral reserves for the purposes of reporting in accordance with S-K 1300 only and should not be used for other purposes. The annual cash flow data was prepared based upon Pre-Feasibility-level studies and the historic average prices and costs described in this Technical Report Summary; it is subject to change as assumptions and inputs are updated. The information presented does not guarantee future financial or operational performance. The presented information contains forward-looking statements. Please refer to "Note Regarding Forward Looking Statements" at the front of this Technical Report Summary.

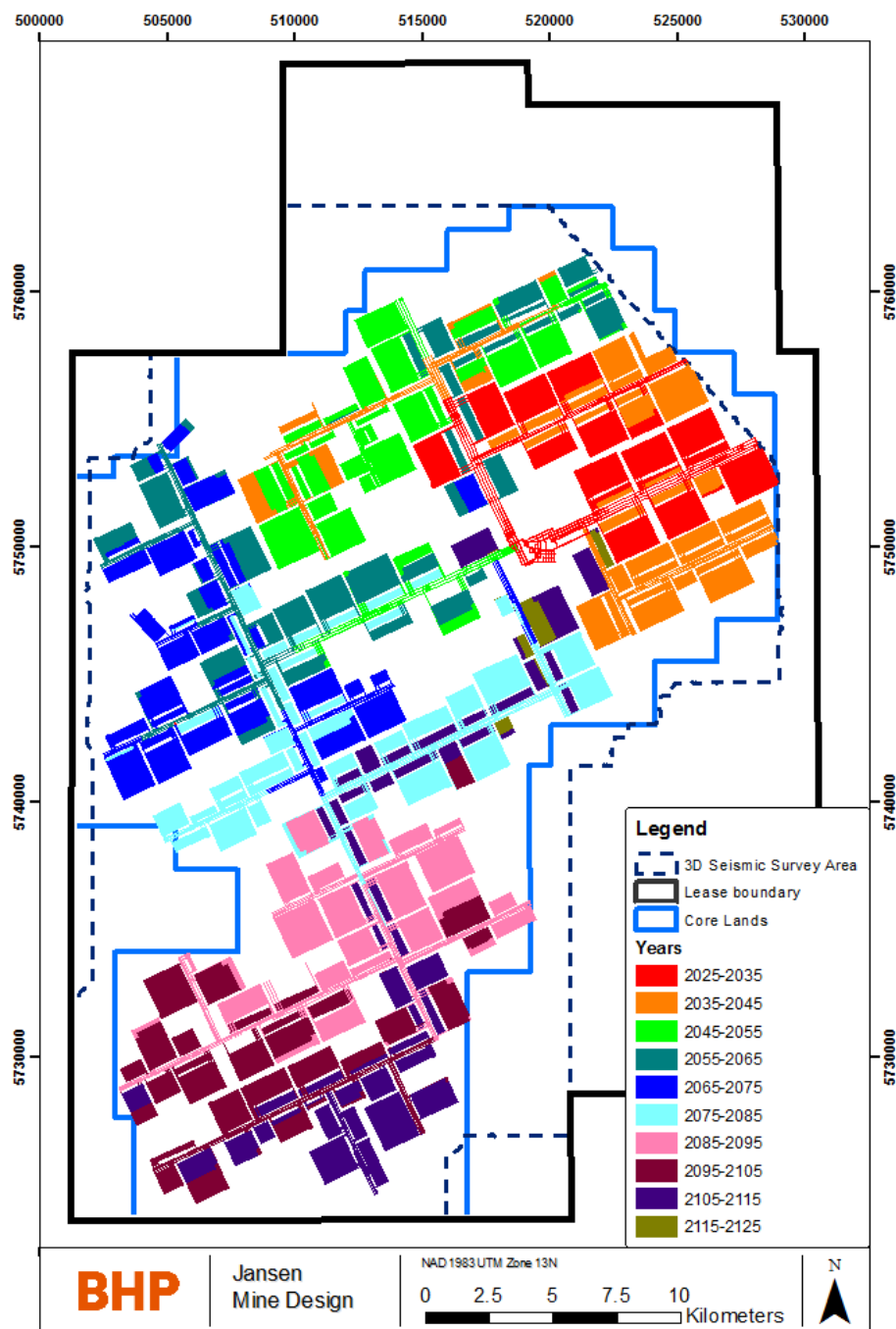


Figure 13-5: Active mining area progression

13.4 Mining Unit Dimensions, Mining Dilution and Recovery Factors

The production mining rooms are excavated in two passes, yielding a 12 metre wide opening of varying length. Production panel pillar widths vary with deposit depth between 17 metres and 15 metres. There is no minimum room design length, rather minimum pillar dimensions. In general terms the mine design strives for the longest panel room length, up to a maximum of 1,800 metres. The mine plan strives to assign mining rooms less than 1,000 metres in length to be excavated by a drum miner with batch haulage.

Development mining rooms are subject to the same minimum room sizes, although are excavated larger given the required useful life of the development entry is longer than a production mining room.

Mining height is variable between 3.7 metres and 4.4 metres. A histogram of planned room excavation heights can be found in Figure 13-6. Except for the shaft pillar area, all excavations are expected to occur in the LPL. Each mine design shape undergoes an evaluation of excavation heights to determine the highest ore grade. Determining the planned excavation height is an iteration which first considers the grade of the minimum mining height and the thickness of the overlying dilution material, then compares the grade against a mining height that includes an additional resource model ply. Resource block model ply thicknesses are illustrated in Figure 11-1.

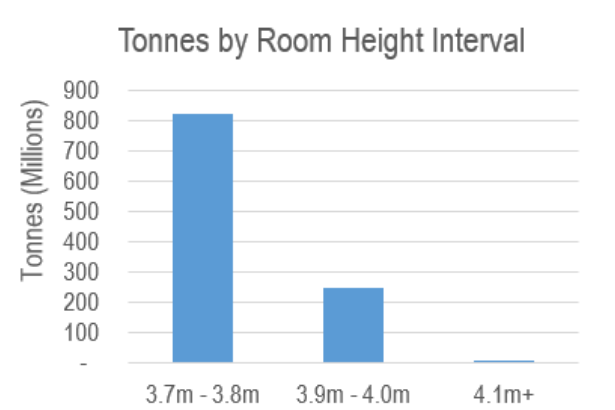


Figure 13-6: Histogram of mining room design heights

Mining dilution is captured in the mine plan through the planned overcut of the 406 clay seam and, where required, cutting the overlying halite unit to achieve stable roof conditions. The overlying roof dilution is primarily salt and has a fixed grade of 3 % K₂O applied. The primary driver for excavating roof dilution is the depth and type of the shadow band (SB). The SB has been interpreted and modelled as a continuous zone of clay bands with categories of alteration. The first category of shadow band are recognised as discrete mud parting planes with varying thickness. The remaining SB do not form a distinct defined parting plane. The SB that form discrete parting planes within the roof beam thickness thresholds discussed in Section 12.1, are planned for excavation. The regional geological deposition is discussed in Section 6.1.

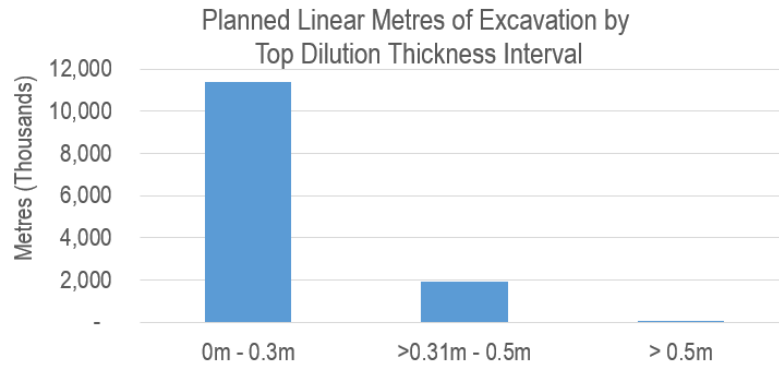


Figure 13-7: Histogram of planned linear metres to be excavated by top dilution thickness interval

It is the opinion of the Qualified Person that the mining dilution has been reasonably reflected in the mine plan, and therefore the economic evaluation, through the use of a planned global overcut of 10 centimetres on the targeted roof strata, and the use of roof beam thickness thresholds triggered by the capability of the ground support and a modelled shadow band interpretation. Of noteworthy comparison is the positive economic value shown in the Min range case, Table 12-6, despite an aggressive overcut of 20 centimetres in all instances, and complete removal of all shadow band types for the entirety of the mine life.

As no production has occurred to date, no reconciliation data is available. The mining recovery is estimated to be 100 per cent recoverable. Ore losses from transport between mining face and the ore processing plant have not been considered. The reported mineral reserve grade is considered fully diluted.

13.5 Overburden Stripping, Underground Development and Backfilling

The use of backfill at Jansen is not currently planned. Fine and course tailings will be placed in the tailings management area.

Refer to Figure 13-5 for the active mining area progression. Mine development entries will be excavated in the LPL ore zone.

Backfill in the sense of providing geotechnical support is not currently planned at Jansen. However, periodic storage of material will occur due to rehabilitation work that will take place over time. The destination of this material may either be stored in stable old entries or loaded onto the conveyance system to the mill.

13.6 Equipment and personnel

According to the mine plan, underground construction and mining activities of the Jansen mine will be supported by a fleet of mobile equipment (Table 13). The listed equipment is to be purchased and commissioned prior to the start of CY2028. The dimensions of the mine design reflects the use of this equipment. Asset management at Jansen is based on fit-for-purpose life-cycle cost analysis and maintenance planning is in alignment to the life of mine plan. The mine plan considers the frequency and duration of maintenance activities in the schedule.

The underground mobile equipment fleet is expected to include all equipment required for:

- Early shaft pillar development and mine construction
- Shaft and mine services, including conveyance system construction and upkeep
- Production panel support, including development of cross-cuts and stubs
- Mains development support
- Ground support and rehabilitation
- Emergency response
- Personnel transport

The Sandvik MF460 borer miner and PO140 EBS make up the selected mining system for continuous mining in both production rooms and development drives. The fleet will consist of five MF460 borer miners and four PO140 EBS units.

Table 13-13-2: Jansen life of mine mobile equipment list

Group	Equipment	Quantity
Ground Control	Roof Bolter	8
	Scaler	4
Continuous Drum Miner and Support Fleet	Battery Ore Haulers	8
	Drum Miner –	3
	Feeder Breaker	5
LHD Fleet	LHD - 3 to 18 tonne	13
Transport Fleet	Crew Carrier & Transport-Mine Rescue	2
	Fire Truck - Mine Rescue	1
	Personnel Carrier - Service Truck	12
	Personnel Carrier	31
	Cassette Carrier Truck	7
Multi-Purpose Chassis Fleet	Diesel Fuel Cassette	2
	Lube Cassette	2
	Mechanical Heavy Duty Service Cassette	3
	Scissor Deck Truck	2
	Utility Cassette	2
	Water Collection - Vacuum Cassette	1
	Water Cassette	1
Specialized Fleet	Mobile Crane / Forklift	3
	Mobile Belt Line Clean-up conveyor	1
	Motor Grader	1
	Skid steer or Compact track loader	1
	Tractor	1
	Tractor - UG Large	1
Flexible Mobile Conveyor	Flexible Mobile Conveyor	1
Telehandlers	Telehandler - 2.5 to 20 tonne	12
Total		128

The total headcount for the Jansen operation, under the current mine planning assumptions, is expected to be 510 total BHP employees (Table 13-3). Under normal operating conditions Jansen mine will operate 24 hours per day, 7 days per week. The roster options will vary by role and by location. The headcount at Jansen is expected to remain reasonably constant for the life of mine. The headcount includes:

- all operations direct BHP Canada employees working in traditional operational work execution, supervisory and planning functions;

- All Jansen-related business functional support employees including Human Resources, Health, Safety and Environment, Indirect Technology, Finance, Supply, Corporate Affairs, Legal, Marketing, Planning & Technical, and the Asset President;

The headcount excludes the following roles, with the associated costs captured in the Intragroup Service Charges (IGSC):

- All Global functions indirectly supporting Potash, including Strategy and Development, port and rail operations.

Table 13-3: Jansen Full Time Equivalent personnel at steady state

	Total FTE
General Manager and Administration	2
Production	98
Maintenance	182
Operations Support Surface	64
Integrated Operations Management	41
Planning	28
Engineering	15
Maintenance Strategy and Planning	38
A&I	20
Technology Direct Team	22
TOTAL	510

13.7 Final Mine Outline

The LoA mine design is shown in Figure 13-8.

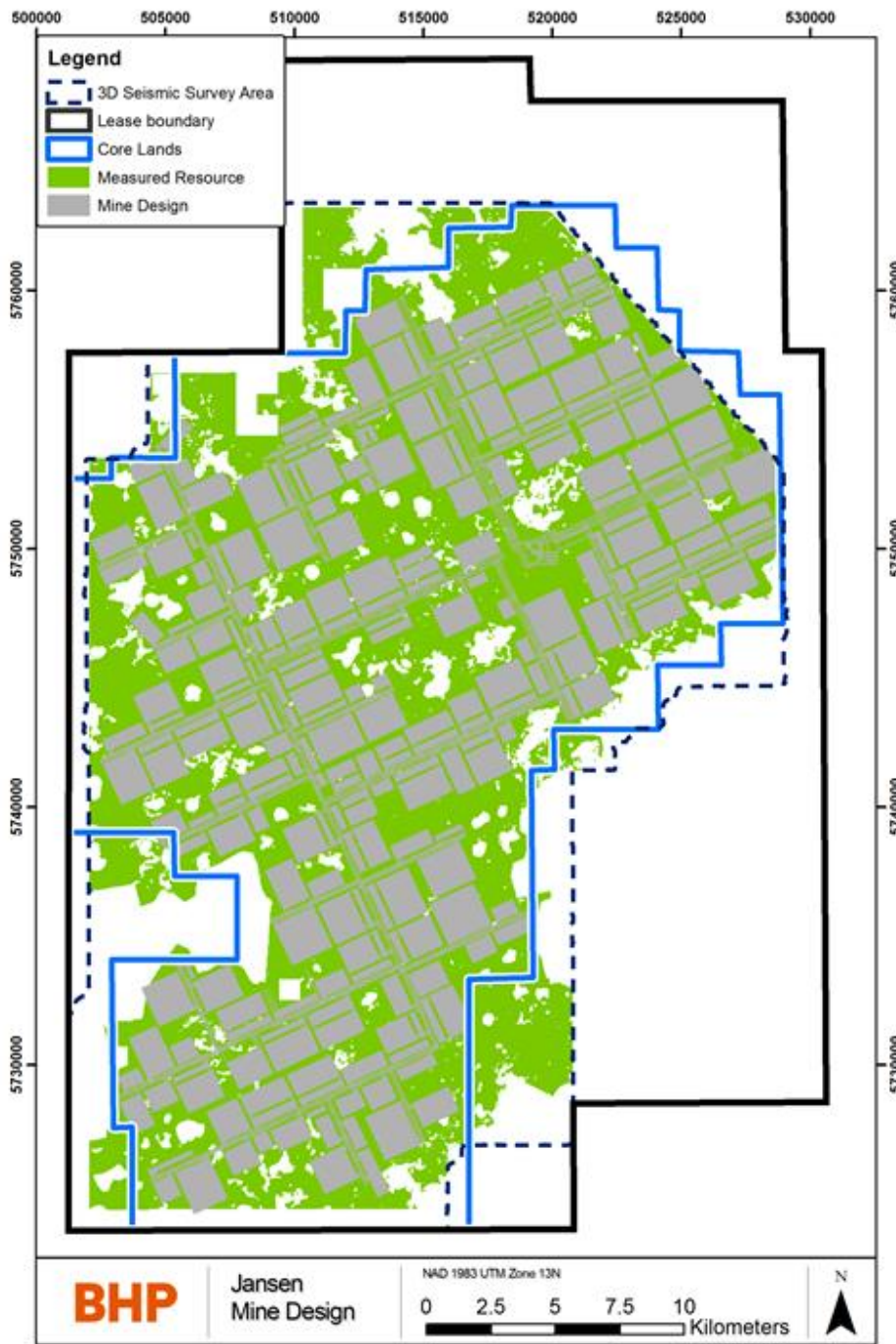


Figure 13-8: Jansen mine design.

14 Processing and Recovery Methods

Conveyors will transport raw ore (approx. 40 % KCl salt, 53 % NaCl salt, and 7 % water insoluble) from the Service shaft to the processing plant or the raw ore stage building. The raw ore is then crushed and screened before being fed to the wet scrubbing circuit, where it will be mixed with brine in the pulping tank. Water insoluble materials are removed from the salts with hydrocyclones, then the salts are pumped to a flotation circuit to form a potash concentrate by separating the potash salts (KCl) from the non-potash salts (NaCl). A crystallization circuit recovers potash from four tailings streams to maximize Jansen's overall recovery; this crystallized potash then joins the flotation concentrate. The concentrate is transferred to centrifuges to remove the brine, forming a concentrate cake. The concentrate cake is dried in a fluid bed dryer before final material screening and sizing. The processing circuit will produce two types of saleable potash; a standard red product and compacted red granular product. Saleable potash will be loaded into railcars and hauled to the port or to the United States.

The Jansen processing design is conceptually based on selecting equipment of the largest capacity available to achieve the process requirements and installing only minimal redundancy required for optimizing operating reliability. The processing facility is designed for a 1,483 tph feed rate, with a minimum 15 per cent design factor on all equipment to handle process variables.

Equipment known to exhibit high reliability based on reliability modelling and industry experience, such as belt conveyors, were selected to be single stream with no redundancy. When multiple pieces of equipment were selected for an individual unit operation (as a result of limited capacity of commercially available equipment or for reasons of reliability), an even number of equipment typically was preferable. This was to enable efficient flow splits between individual streams feeding or exiting the equipment, and keep the building heights and material lift heights to a minimum.

Use of multiple pieces of equipment allows continuation of operation during periods of equipment downtime, albeit at a lower production rate while equipment repair or maintenance is performed. Use of multiple pieces of equipment, where appropriate, also allows predictive and preventative maintenance on equipment as appropriate.

As a result of this philosophy, overall plant uptime will be maximized due to the parallel circuits available and reduction of single points of failure. An exception to this is equipment that typically exhibits high reliability levels, which would be cost prohibitive to duplicate (e.g. conveyors immediately upstream or downstream of the mill), combined with an optimized maintenance and operating strategy.

The raw ore handling and ore storage portion of the surface processing facilities is designed to be operated by feeding the primary crushing equipment directly from the service shaft skip bins using belt conveyors. Ore delivered from the hoist skips in excess of mill feed requirements is diverted, using a splitter gate, to the raw ore storage building to build an inventory of raw ore. Raw ore in the 25,000 tonne storage building is reclaimed as required during hoist down periods. In this way, the raw ore bucket wheel reclaimer is needed to operate less than one quarter of the scheduled mill operating time, reducing operating and maintenance costs as well as allowing raw ore reclaimer servicing as required.

The mill processing system design is based on a high level of automation for process control using on line measurement, including weigh scales to monitor dry material flow monitoring, flowmeters for liquid flow monitoring, and potash grade analyzers for reagent control and performance monitoring. All automation signals are monitored and controlled from a remote central control room.

Specific pumps and crushers are installed with variable speed drives for control and to allow metallurgical process variability as required. Various types of crushers are used throughout the processing facilities. Crusher types were individually selected based on the optimal type to serve that particular duty.

Scrubbing and desliming of the ore uses mechanical scrubbing and cyclone desliming, which is typical in the potash industry. Separate coarse and fine flotation circuits allow enhanced recovery of potash due to the modern and proven flotation technologies targeting recovery of specific potash particle size ranges. Separation of ore into coarse and fine streams is accomplished using hydraulic classifiers that provide a separation of coarse and fine particle sizes. Flotation uses column flotation cells that are simple and highly effective in terms of recovery and operating costs.

The tailings process area is primarily a single circuit due to the high reliability of the equipment selected. Coarse salt tailings circuits are designed with two operating pumps and pipelines as well as one spare pump and pipeline. This configuration allows high mill operating time even when a tailings line may be inoperable due to plugging or pump failure.

Separate scrubbing and flotation brine systems are provided to prevent ore borne contaminants from reaching the flotation circuits and adversely affecting recovery. These systems also maintain reagent-free brine for scrubbing and desliming circuits to maintain process efficiencies in these circuits.

A crystallizer circuit uses hot leaching and evaporative cooling to recover potash from the fine flotation tailings and produce standard size product at a higher grade than normal agricultural grade potash product. The higher grade crystallizer product is added to flotation concentrates prior to debrining and drying. Flotation concentrate is thereby upgraded without adding higher volumes of leach water, which creates a recovery loss due to dissolution of potash while dissolving salt. Additional recovery from the crystallizers will allow Jansen Stage 1 to achieve overall mill recovery in the top quartile of the Saskatchewan potash industry.

Parallel process circuits in drying and product screening allow control of the equipment at lower operating rates and to maximize plant operating time. Debrining prior to drying uses latest technology centrifuges that are capable of producing low moisture levels in the dryer feed. Product drying is achieved through conventional horizontal fluid bed dryers.

Dried discharge is screened, and product that meets standard product size requirements is cooled and sent to product storage. Product, that does not conform to standard sizing specifications, is processed in compaction circuits, by six installed compactors, to produce granular product, which is subsequently glazed and screened, then dispatched directly to 200,000 tonne product storage.

Product reclaim and loading of railcars comprises reclaiming, screening, treating with anti-cake and dedusting reagents, and loading railcars in a unit train of up to 177 railcars within a 12-hour time period. As a result of this loading rate requirement, loading is continuous, using automated product reclaiming and BHP Canada railcars.

The BHP Canada philosophy governing the process design was for a “fit-for-purpose” facility. That is, a facility that maximizes the project value with acceptable capital costs, while providing a productive, efficient, and safe operating environment for personnel. The Jansen processing facility was designed to use state-of-the-art, proven process control technology to ensure high yields, low cost of production with remote operation capability, and reduction in the amount of field operator support.

14.1 Process Plant

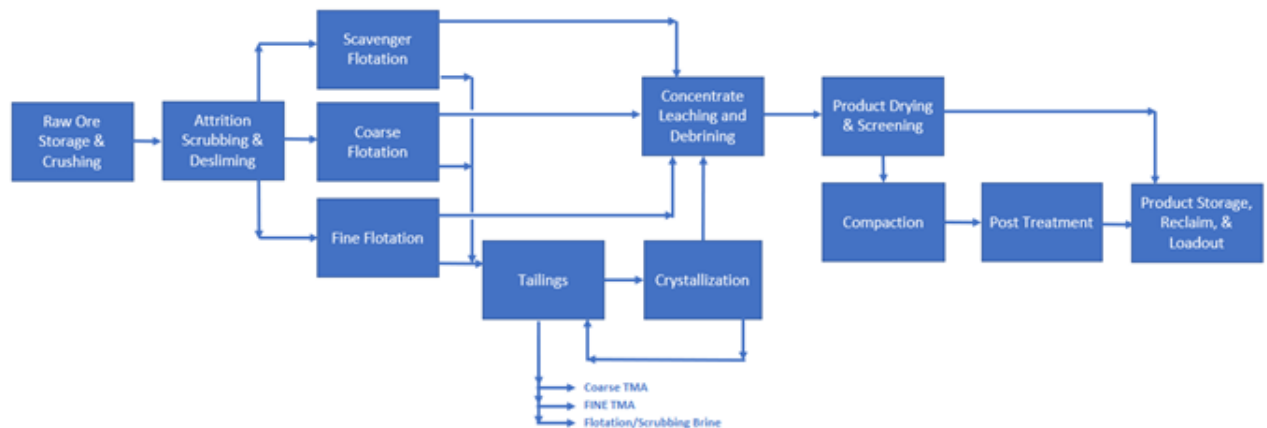


Figure 14-1: Jansen processing flow sheet

Raw ore is received from the mine through the service shaft skip bin. A moving hole feeder is used to draw raw ore from the bin onto the service shaft raw ore belt conveyor. A belt conveyor scale and tramp metal removal magnet are provided for the service shaft material handling system. Material from the service shaft then reports to the storage building or mill feed.

The raw ore handling and crushing circuit is to maintain a constant flow of ore to the mill for processing. The conveying and splitting functions source ore in a variety of feed situations and the crushing stage ensures the material is small enough to feed the attrition scrubbers and be hydraulically pumped to the next process steps.

Attrition scrubbing and desliming circuits prepare the ore for downstream flotation separation stages. This involves wet crushing and scrubbing of the ore to liberate insoluble materials, in conjunction with size separation equipment that prepares three size fractions. Coarse, fines, and slimes streams are then sent to three different sets of downstream equipment, chosen for best performance within the selected size range.

The purpose of the coarse flotation and regrind circuit is to recover coarse sylvite minerals using conventional potash flotation technologies. Concentrates generated within this circuit are generally near grade and require minimal leaching. The waste materials are relatively clean halite with some unliberated sylvite. Only one regrind circuit services both Stage 1 production lines since its contribution to overall plant production is relatively small, making it non-critical.

The fines flotation circuit recovers fine highly liberated sylvite minerals, using conventional flotation technologies. Concentrates generated within this section are generally high grade and require minimal leaching. The particle sizes are relatively fine, so most conventional hard rock flotation equipment is effective. Pneumatic columns are the chosen technology since they achieve

high grades and recoveries in potash applications. Waste materials are relatively clean halite with some minimal sylvite losses.

The scavenger cyclone and flotation circuit is used to recover very fine highly liberated sylvite minerals, using conventional flotation technologies. Concentrates generated within this section are generally lower grade than the other circuits due to the higher difficulty in physical separation of very fine materials. The fine particle sizes require higher energy flotation equipment to be recovery effective. Self-aspirating pneumatic cells are the chosen technology since they achieve acceptable grades and recoveries in potash applications. Only one scavenger circuit services both Stage 1 production lines.

Leaching and debrining circuit provide secondary control for concentrate grade control, flotation brine recovery, and preparation of the solids for the drying and screening circuit. The large volume leaching tanks serve a secondary function by acting as buffers between the wet and dry circuits. The individual line tank can buffer 30 minutes of production in the event of a downstream interruption.

The primary purpose of the product drying and screening circuit is to remove residual moisture, heat the product sufficiently to remove residual reagents, and prepare the material for compaction. The production dryer circuit serves a secondary function to produce the KCl-rich brine needed for grade control using its dryer scrubbers. The screening circuit follows the dryers. Standard grade final product goes directly to storage, while the rest of the material flows to the compaction circuit.

Compaction and post treatment circuits ensure the Jansen products meet quality standards and prepares the product for storage prior to shipment. While standard-sized material meets national and international accepted standards, finer and coarser materials produced in the wet mill do not. The compaction process uses high pressures and temperatures to convert these materials into a marketable size fraction. Post-treatment circuits are physically located after compaction and treat both standard and granular products.

For standard production, the standard product (mid-size particles) from the product screens not sent to compaction feed is conveyed to two parallel product coolers. The material is cooled below 80°C using a glycol loop that is integrated into the plant heat recovery system. Cooled product is then weighed as it continues by conveyor to product storage.

For granular production, a multi-step process is employed to increase the product durability and minimize storage lump generation. This consists of a surface hardness and rounding step, a cooling step and then a final size quality circuit. Product from the secondary compaction screening circuit is moistened in the glazing dryer conditioning drum using carefully controlled amounts of process water. Sufficient water, approximately 1 per cent to 2 per cent by mass, is added to dissolve and soften only the surface KCl on each particle. The tumbling action and abrasion in the conditioning drums rounds off the sharp edges of the moistened potash granules. This product is fed into the glazing fluid bed dryer/coolers, which act as an evaporative cooler. When the surface water on the granules evaporates, a harder coating is formed on the surface of each particle, which increases its resistance to degradation during subsequent handling and transport. In addition, water evaporation in the glazing dryer cools the granular product to the target 80°C before it is discharged into the glazing screen feed bucket elevators. Exhaust gases from the

compaction glazing dryers and dust collected within the compaction circuits are processed in baghouses.

The primary function of the product storage, reclaim, and loadout circuits is to collect enough product to fill a shipment order and load a full 177-car unit train in under 12 hours with treated quality product. The product storage building holds 200,000 tonnes of combined standard and granular product and uses a portal scraper reclaimer to provide a steady high flow rate. Product loadout screening removes lumps in all products and any fines that may have accumulated in the granular product. The last step is the weigh bin system that loads a continuously moving train.

14.2 Plant Throughput and Design, Equipment Characteristics and Specifications

The Jansen mining and processing facilities have been designed for continuous 24-hour operation, with scheduled outages to perform inspections and maintenance. Production operations and maintenance will consist of two 12-hour daily shifts covering 7 days per week. Since the mill is essentially split into two parallel processing trains, maintenance will typically occur on one train at a time, using additional contract maintenance workers as necessary to perform the scheduled maintenance and inspection tasks. The entire processing facilities will also be shut down less frequently to provide for maintenance on equipment serving both processing trains.

The Jansen mill operating schedule is intended to closely align with the mine's planned operating schedule. Major raw ore storage facilities on site include:

- Underground ore storage capacity within the shaft pillar, which for Stage 1 consists of a 5,000 tonne bin, 40,000 tonne remote storage, as well as belt bunkering as the material handling system extends (equivalent to 32 hours of hoisting);
- 25,000 tonnes of raw ore storage capacity on the surface to support the Stage 1 capacity of 1,483 tph mill feed rate (equivalent to 17 hours plant feed).

Underground and surface ore storage enable the mine to stockpile ore to ensure the mill feed remains constant during equipment outages for inspection or maintenance. Surface raw ore storage allows ore processing activities to continue for up to 17 hours at nominal feed rates whenever ore hoisting facilities are unavailable for use or equipment failure occurs upstream from the raw ore storage pile. Regular inspections are expected to include items such as shaft, hoist and rope, and various mine-related maintenance functions that may prevent or reduce the rate of ore delivery to the surface.

The feed throughput range, within which the mill can operate, is 33 per cent to 100 per cent of rated capacity, or 489 tph to 1,483 tph.

In addition, buffers downstream of the mill allow the processing facility to continue operation between train shipments. A 200,000 tonne finished product warehouse (Stage 1) will store both standard and granular products and act as a buffer between mine production and the port.

The processing facilities will be controlled and monitored from the Process Control System (PCS). The PCS will provide the control and operator interface for all the areas of the facilities and will be run by a control team in the Integrated Operations Centre (IOC).

The level of automation will be high and will include automation of normal process control functions, start-up, and shutdown activities. The PCS will be a fully integrated system using a common control platform across Mining, Process and Non Process Infrastructure. The PCS will provide human-machine interface (HMI), process control, monitoring, alarming, and data archiving for all operating areas of Jansen site. The PCS will also interact with the Advanced Process Control (APC) system benefiting from advanced algorithms that will assist determining the most efficient operating set points to increase throughput, reduce energy cost and reduce reagents consumption.

The process will be controlled from an IOC located off-site in Saskatoon and will be completely centralized with the ability for controlling mine, plant, rail yard, and port control stations. This arrangement provides operators with greater levels of live operating data across the potash operation and fosters collaboration. Trend identification, troubleshooting, and the prevention of potential operating losses can be anticipated and resolved more efficiently compared to traditional decentralized control systems.

14.3 Requirements for Energy, Water, Process Materials, and Personnel

Raw water

Water is used at the Jansen site for both process and non-process activities. Process water is used for: (among other things)

- Wet scrubbers
- Concentrate leaching
- Process reagent mixing
- Pump gland water and instrumentation flush
- Product centrifuges
- Flotation columns and cells
- Crystallizer
- Glazing dryer conditioning drum
- Salt tailings flushing

Ore processing activities will use 0.17 m³ water per tonne of product produced or ~47 per cent of all water consumed on site. Non-process uses (i.e., non-routine water, utilities, and potable water) account for the remaining 53 per cent of water consumption on site, which is equivalent to 0.19 m³/t of product. A considerable amount of this water will be used by maintenance, because all equipment must be washed down before being serviced. Spill clean-up and line flushing are other services that will contribute to this amount.

Energy

The incoming gas supply battery limit for natural gas is located on the southwest side of the plant site, outside the main plant, to allow free access by SaskEnergy and TransGas.

An existing metering building is currently constructed and operational at site for gas supply to on-site accommodation, sewage treatment plant, and concrete batch plant. A natural gas connection to the site will be provided for gas supply to the processing plant (i.e., gas metering and pressure reducing station). The natural gas pipeline follows a pre-determined utility corridor to the natural gas metering station. The interface point between the off-site supply and on-site distribution system is at the flange connection just downstream of the pressure reducing station.

A total of two natural gas supply pipelines will be located downstream of the natural gas metering station. One pipeline feeds the process plant and ancillary buildings. The other feeds on-site accommodation and the concrete batch plant.

Throughout the plant site, the buried natural gas distribution system will be sized to support future production capacity increases. It will consist of medium density polyethylene pipelines. Major line isolation valves will be installed at specific locations to isolate a branch of the gas network. These line isolation valves will be located above ground. Furthermore, each building connection will include a dedicated isolation valve.

Power is supplied by SaskPower's 230 kV overhead lines. The main site 230/35 kV substation and 35, 5, and 1 kV distribution systems are sized to support future expansions. The underground is fed by two 35 kV shaft feeders from the service shaft for Jansen Stage 1. In the event of a utility power off the essential loads will be fed from the site's generation facility.

The Jansen Stage 1 natural gas usage is estimated to be 2,254,040 GJ/year. Electricity is estimated to be 543,823 MWh/year, and diesel is estimated to be 1,569,993 L/year.

Process Materials

A variety of reagents are required for operating the flotation circuits, thickener operation, and treating the product for shipping. Process reagents include flotation amine, acid, flotation oil, frother, depressant, and flocculent. Product anti-cake amine combined with dedusting oil is applied in product loadout. These reagents are available in Saskatchewan and are used in existing potash facilities. Sufficient work has been completed to ensure supply and availability to the BHP Canada Jansen site.

Personnel

See Section 13.6 for Jansen staffing information. See Section 13.6 for Jansen staffing information.

14.4 Novel Processing Methods

The Jansen processing facility is expected to use proven process control technology designed to support high yields, low cost of production with remote operation capability, and reduction in the amount of field operator support. In addition to common process control technology, Jansen is expected to employ additional digital technology to improve recovery, operability, and availability using systems such as advanced process control, digital twin for raw ore pile management, and use of equipment health monitoring for predictive maintenance. No new processing methodologies or commercially unproven methods are expected to be incorporated into the Jansen process plant design.

15 Infrastructure

Jansen is currently in construction phase and has completed a significant amount of development in the past several years. The US\$4.5 billion (pre-tax) of capital invested to date includes construction of the shafts and associated infrastructure, as well as engineering and procurement activities, and preparation works related to underground infrastructure.

A substantial portion of the site grading, drainage and road network is in place that allows for access to all areas of the site and facilitates water management during spring melt, rain events and ongoing construction.

The site is connected to off-site infrastructure including natural gas, temporary electrical power, communication fibre and non-potable water. These utilities are provided by Crown Corporations and contractual agreements have been reached for service provisions as necessary. The local road network has been upgraded to allow for year-round access for primary weight vehicles to support the movement of equipment and materials as necessary during the construction period.

Additionally, there have been several facilities for both permanent operations and temporary construction purposes that have been successfully installed to date including:

- The Discovery Lodge camp (2,600 beds) for housing the construction work force;
- A modern water treatment plant and raw water well for provision of potable water;
- A state-of-the-art sanitary treatment plant for treating sewage;
- A concrete batch plant;
- Temporary offices, locker rooms and lunchrooms for construction team;
- Service and Production headframes;
- Freeze plant to support shaft sinking and lining;
- Temporary warehousing and maintenance buildings;
- Permanent cold storage warehouse;
- Vehicle wash bay;
- Guard houses and site fencing for access control;
- Laydowns for material storage/staging ;
- Storm water ponds and effluent storage facilities;
- Environmental monitoring equipment for ground water, air quality, noise and vibration levels.

Starting in 2022, the remaining earthworks, the utility distribution system, piling for building foundations, diesel storage area and the Tailings Management Area are scheduled to begin.

In the subsequent years, BHP Canada plans to erect the following:

- Mill buildings
 - Raw ore storage
-

- Conveyor galleries
- Product storage buildings
- Product loadout building

Once these buildings are complete, the equipment and building services are scheduled to be installed to support commissioning activities leading to a planned first production and ramp up to full production accordingly.

In the Non Process Infrastructure scope space, the remainder of the Tailings Management Area (including disposal wells) are scheduled to be developed, the rail infrastructure and control systems are scheduled to be installed and a number of permanent facilities are scheduled to be constructed. These facilities are expected to include:

- Admin Building with offices, locker rooms, security and training
- Heated warehousing
- Mechanical and mobile equipment repair shops
- Laboratory
- Mill support facility
- Rail support facility
- Modular Data Centre, electrical houses and substations
- Pump houses, environmental data collection units and/or other small buildings

Figure 15-1 below, shows the current design layout of the surface infrastructure of a fully completed Jansen Stage 1 and includes the processing and non-processing facilities, tailings management area and the mining headframes with their respective shafts below ground.

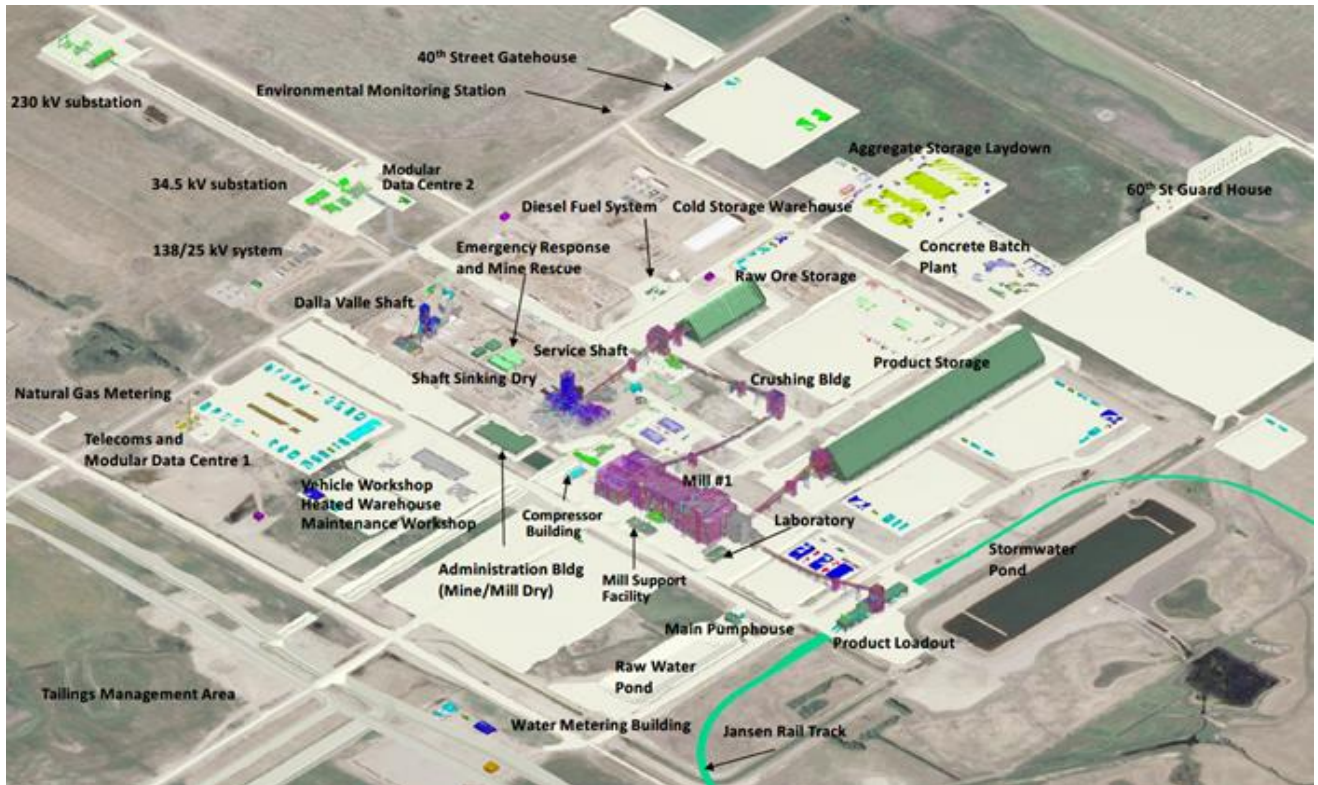


Figure 15-1: Schematic of Jansen Operations when in production

The Jansen basic value chain is comprised of a number of major sub-systems and process steps as shown in Figure 15-2.

1. mining, including continuous miner, and conveyor
2. Ore hoisting via shaft conveyance
3. mine processing and ore handling plant including crushing and screening
4. mine stacking (stockpiling) into the product types
5. train loading
6. train empty and loaded travel to and from the port facilities
7. port car dumping (train unloading)
8. port direct ship loading (product is taken directly to the vessel, skipping process steps eight to ten)
9. port stacking (stockpiling) into the product types
10. port reclaiming
11. port ship loading

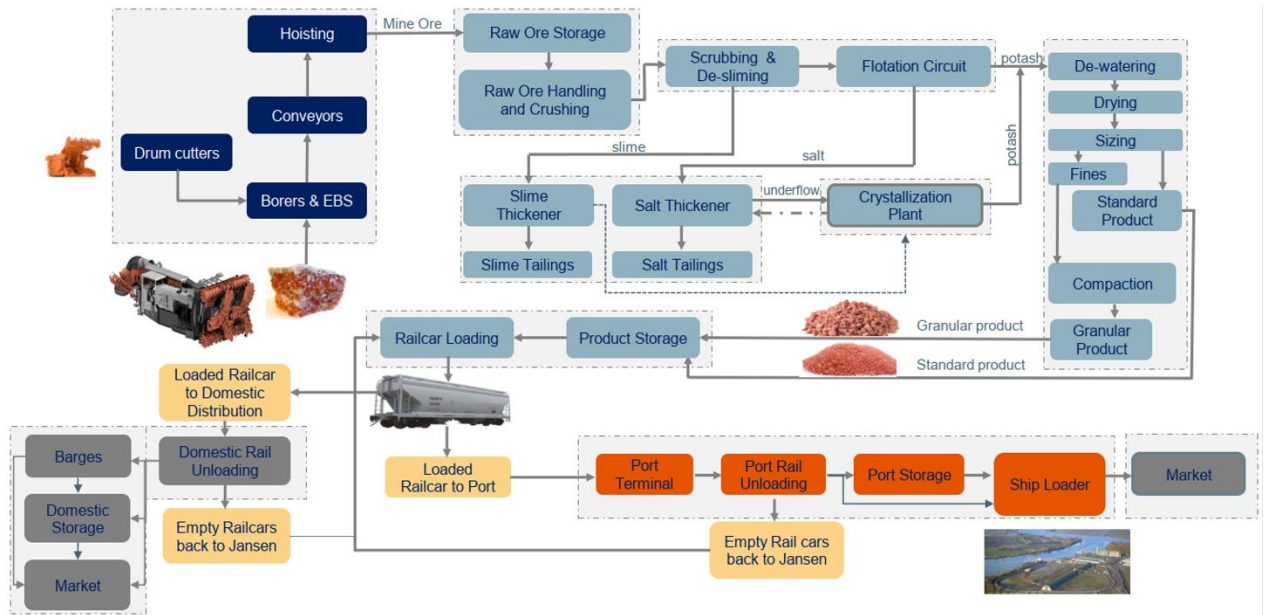


Figure 15-2: Basic Value Chain

15.1 Roads

The road work for the site consists of new roads and upgrading existing roads. All new site roads constructed are expected to be gravel roads with subbase and base course materials. Most of the existing plant site roads have a subbase course and are expected to be upgraded during construction. These existing roads range between 11 metres and 13 metres wide and planned to be topped with a granular base course to a 9.4 metres width. All roads are expected to be crowned with a 3 per cent cross slope to allow storm water drainage.

Many existing roads that form the majority of Jansen site road workings are already in use. Some of these existing roads need to be upgraded with a granular base topping. Some are expected to be demolished because they are located in areas where facilities are to be constructed.

15.2 Rail

The on-site railroad, including the Joint Access Spur and Onsite Rail, for the mine site is planned to be constructed during the project execution period. A series of switches (ladder) are located just inside the Jansen property fence line to provide an inbound/outbound yard. This yard terminates at the north end at a double crossover. Beyond the crossover is a loop track through the loadout facility, where empty trains are planned to access the loading area in a clockwise manner.

The off-site railway is planned to connect the on-site railway to both Class I carriers as shown below in Figure 15-3.

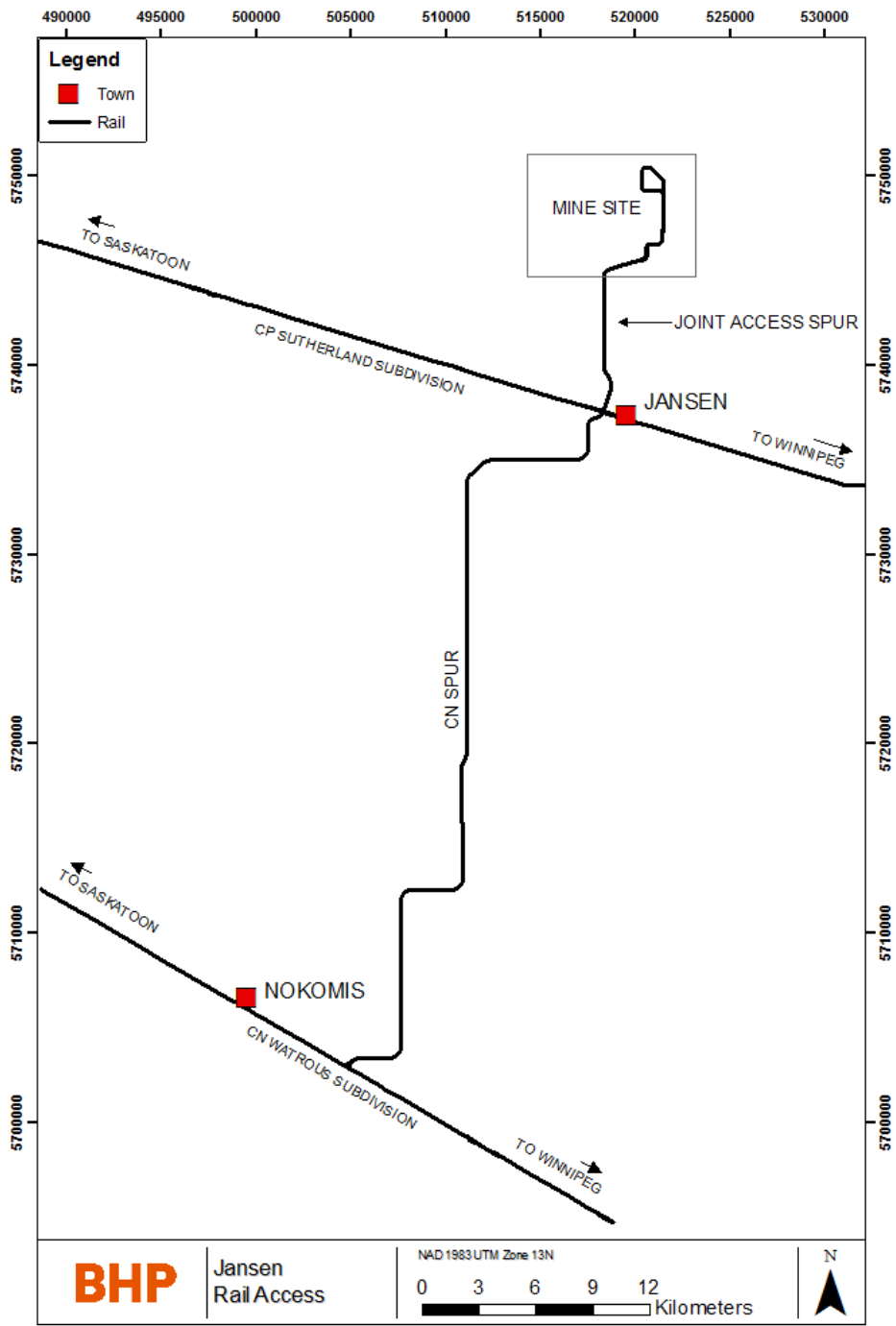


Figure 15-3: Off-site rail connections

15.3 Port Facilities

Potash for export is expected to be shipped out of Westshore Terminals Limited Partnership (Westshore). Westshore is an existing coal export terminal operating since 1970 at Roberts Bank, Delta, British Columbia on Vancouver Fraser Port Authority managed federal lands and waters. Currently the terminal handles coal, and with financial support from BHP Canada, Westshore has agreed to convert their facilities from exclusively shipping coal to shipping BHP Canada potash and some third-party coal. All required permits for the facility development have not been issued. BHP Canada currently has a terminal services and development agreement in place with

Westshore for this development and shipping services with an initial service term through CY2051.

15.4 Dams

The perimeter dykes within the Tailings area is expected to be constructed of suitable earthen material with an upstream slope of 2.5H:1V and a downstream slope of 3H:1V. The minimum dyke crest width is 5 metres to accommodate one-way mine traffic. A dyke key is to be constructed at the center of the dyke's base to assist with stability and seepage. Interceptor ditches is expected to be constructed with interior and exterior side slopes of 2.5H:1V and expected to have a minimum bottom width of 2 metres.

To reduce erosion from wave action, rip-rap material is expected to be placed on the interior slopes within the decant pond as well as the coarse and fine tailings areas. Rip-rap is expected to also be placed at locations where continuous concentrated flow is anticipated, such as the outlets of the granular toe drains.

15.5 Dumps and Leach Pads

There are no dumps or leach pads required for Jansen mine.

15.6 Tailings Disposal

Waste produced from the mill processing is planned to be composed of fine tailings (insolubles), coarse (salt) tailings, and brine. Fine tailings are expected to consist primarily of silt and clay particles with some fine salt. Coarse tailings are expected to be medium-to-coarse grained salt crystals. The fine and coarse tailings are expected to be separated during processing and transported hydraulically (i.e., pumped) to the TMA with brine, where they are deposited in their respective storage areas. Separate coarse and fine tailings storage areas are expected to be contained by perimeter dykes. The collective footprint of the TMA is planned to be surrounded by an interceptor ditch.

Brine storage in the TMA is expected to consist of a decant pond in the fine tailings area and a tailings free area within the footprint of the coarse tailings area. Brine is expected to be recycled back to the mill by a floating brine pumping barge located in the coarse tailings area and excess brine is expected to be pumped to the disposal wellfield for injection into the Winnipeg-Deadwood Formation (the disposal horizon). This disposal horizon has historically demonstrated sufficiently permeable and compatible water chemistry, and is the disposal horizon of choice for the potash mines in central Saskatchewan. The number of wells is expected to increase over time as required to support the disposal requirements of the mine site.

On-site water balance is planned to be maintained by disposing of excess brine using disposal wells. The disposal wells are planned to inject brine, created during operations and closure phase of the project, into the deep disposal horizon. In accordance with the Jansen Site Closure Plan, brine disposal is expected to be an essential step for reducing the coarse tailings pile.

Deep well injection is the regulatory accepted method to dispose of excess brine for all existing potash mines in Saskatchewan. No feasible alternatives to using disposal wells at Jansen are known. The alternatives considered unfeasible include evaporation, other desalination methods

(which would not allow Jansen to meet its closure objectives), and brine disposal to the environment.

15.7 Power, Water and Pipelines

The estimated peak power demand is expected to be approximately 66.5 MW. Power is expected to be supplied by SaskPower using 230 kV overhead lines terminating at the 230 kV main plant substation dead-end structure (the point of common coupling). Main plant electrical services (i.e., 230 kV substation plus 34.5 kV substation and distribution) were sized to support future expansions. The electrical distribution system is expected to be designed for expansion without requiring a significant shutdown of plant equipment.

The Jansen site is located in an area with no access to a major watercourse to support on-site infrastructure. The raw water system consists of the incoming water supply line from SaskWater and groundwater sourced from the existing Raw Water Well 1 (RWW 1). The ultimate capacity of the water supply pipeline is expected to be 7M m³/y for the Jansen project.

During construction and operations (all stages), potable water is expected to be supplied to both on-site accommodation (Discovery Lodge) and construction management facilities through a centralized water treatment system located near Discovery Lodge. Potable water is expected to be distributed to the plant site by centrifugal potable water distribution pumps. Three pumps are expected to be provided with two pumps operating and one on standby. Potable water is expected to be distributed by an underground HDPE pipeline network. A single network is expected to be provided for the plant site. The potable water distribution system is expected to ensure a minimum pressure of 415 kPa (60 psi) at the buildings. Connections to future buildings (process plant lines or ancillary buildings) are expected to be installed complete with valves and blind flanges to enable straight tie-ins in future.

Sanitary sewage is expected to be treated by an existing Sewage Treatment Plant (STP) sized to accommodate the anticipated loading from construction activities, including the Discovery Lodge. Sewage is expected to be collected and directed to the STP through a combination of gravity and pressurized systems that collect sewage from both process and non-process buildings. Both the existing and future systems lead to the existing STP. The sanitary sewer lines is expected to have enough capacity to convey the design peak flow as well as infiltration and inflow. The minimum diameter for gravity sanitary lines to be used for single building lateral drains is 150 millimetres. The minimum diameter for gravity sanitary sewer systems is 200 millimetres. All pipes are expected to be polyvinyl chloride (PVC) and are expected to have a minimum slope to achieve self-cleansing velocity.

The incoming gas supply battery limit for natural gas is located on the southwest side of the plant site, outside the main plant, to allow free access by SaskEnergy and TransGas. Throughout the plant site, the buried natural gas distribution system is expected to be sized to support the production capacity up to and including future expansions. It is expected to consist of medium density polyethylene pipelines. Major line isolation valves are expected to be installed at specific locations to isolate a branch of the gas network. These line isolation valves are expected to be located above ground. Furthermore, each building connection is expected to include a dedicated isolation valve.

15.8 Underground Infrastructure

15.8.1 Mine bulk material handling (BMH) system

The mine conveyor network is designed to transport ore from each mining face to the shaft pillar, where it is transferred to the raw ore storage bin or horizontal remote storage area before being transferred to the surge bin and hoisted to surface for processing. The conveyors are expected to be installed using modularized units, each consisting of a head/drive station, take-up station, belting, and structure. These units are expected to have standard lengths and widths, depending on their duty requirements. Permanent conveyors are rigid frame structures that are suspended from the back (roof) to minimize effects of ground movement. Where the design warrants it and the salt beam in the floor is of suitable thickness some parts of the BMH may be floor mounted. The three main conveyor system configurations are panel, block and mainline conveyors shown in Figure 15-4.

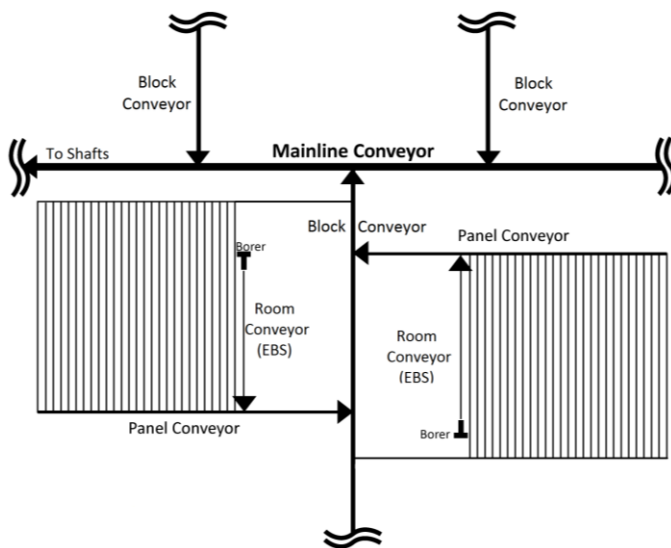


Figure 15-4: Simplified flow diagram of underground conveyor systems

15.8.2 Underground Electrical Distribution

The Jansen mine is expected to be supplied from the surface 34.5 kV distribution system. The two service shaft feeder circuits are expected to each consist of two 350 MCM cables. They are expected to terminate in a mine substation through which power is expected to be transformed from 34.5 kV down to 13.8 kV for distribution into the mine. Design of the main substation enables complete isolation of any one of the shaft circuits while still maintaining power into the mine. The 13.8 kV distribution voltage is expected to supply all electrical power for Stage 1 loads within the shaft pillar area as well as out into the mine. A radial distribution is expected to branch out from the main substation with circuits strategically run so that only minimal disruptions are intended to occur with the failure of any one.

Providing a ground path back to earth is a critical safety feature in all electrical distribution systems. Potash rock cannot be used for direct earth grounding. Therefore, the mine distribution system is expected to use three internal bond conductors in each cable. The shaft cables are expected to also have three internal bond conductors working in parallel with separate bonding cables in the shaft. These together are expected to be used to tie the mine bonding network to the surface ground network.

15.8.3 Mine ventilation infrastructure

The mine ventilation system is designed to provide adequate airflow to all active areas of the underground mine to ensure the health and safety of workers is maintained throughout development, construction, and steady state production. The ventilation system is expected to control accumulation of heat, gases, dust, and other contaminants within all accessible areas underground by diluting the air to safe concentrations and/or removal of the contaminants.

The ventilation system mechanical components consist of a push-pull arrangement with both surface and underground fans. Under normal operating conditions, the Service shaft is the fresh air path and the Production shaft serves as the return air path. Each shaft has a sub collar connection to the ventilation plenum and two surface ventilation fans are expected to be installed, and optionality for a third fan. The intake air is expected to be heated by a natural gas fired heating plant to supply a minimum air temperature of 4°C.

Surface fans are designed to push intake air to just below the shaft collar. The main underground booster fans are designed to draw the intake air down the shaft and distribute it within the shaft pillar and into the mining districts. Each mining district is expected to have a set of booster fans to circulate the air to the working area, with local ventilation fans and ventilation tube to direct air to the working face. Return air is expected to flow from the district conveyors. The main return air underground booster fans are designed to mirror the fresh air arrangement. The return air is expected to exit the mine through the DV shaft. DV shaft surface return air fans are expected to be used to bring the return air from just below the shaft collar through to atmosphere.

Controlling risk related to ventilation is composed of several systems and strategies, namely the use of electric vehicles to reduce the exposure to Diesel Particulate Matter, network connect ventilation stations to monitor the flow and air quality at key points in the mine, and proper maintenance of heating and ventilation control systems.

15.8.4 Dewatering

A mine dewatering system is expected to be installed to collect drainage water in the shaft pillar area. Sources of drainage water are expected to include the wash bay water, raw water tank overflow, air condensation from mine ventilation, and shaft drainage from leakage and periodic shaft wash-downs. Jansen intends to limit the use of water underground.

The dewatering system is expected to consist of sumps at the bottom of the Service shaft and DV shaft as well as in the wash bay. The sumps are expected to be wide enough to allow for slimes removal using an LHD where feasible. Submersible pumps in each of the sumps are expected to pump to a main mud separation storage tank in the mine dewatering station for collection and settling prior to delivery to surface. The mine dewatering station is expected to consist of two dewatering pumps as well as a settling tank. Discharge lines are expected to be installed in each of the shafts with the ability to be drained back into the dewatering tanks when the pumps are not operating.

The planned mine discharge design flow rate up the shafts is 30 L/sec from two 15 L/sec pump skids, with latent pipe capacity in the shaft enabling up to 60 L/sec of extra capacity to be installed as a first response to an inflow event.

15.8.5 Underground maintenance

Areas are expected to be developed in the shaft pillar area to cater for the various underground facilities. All facilities are expected to include suitable power, compressed air, lighting, offices, and other services to complement the planned use of the facility. Adequate parking is expected to be provided for the underground mobile equipment fleet including charging facilities for battery and electric equipment. The shaft pillar facilities are planned to include areas for equipment assembly and rebuild, mobile equipment maintenance shop, electrical shop, wash bay, warehouse and tool crib, fuel and lube storage, refuge chambers, lavatories, raw water storage, and central office space.

15.9 Shafts and Hoisting

15.9.1 Hoist and headframe

The Jansen Project has two mine shafts, the service shaft (SS) and the production shaft (DVS). Both shafts have an internal diameter of 7.3 metres and go down to a depth of approximately 1,000 metres. For Jansen Stage 1 only the Service shaft is required for production. During this phase the production shaft is expected to be equipped to support initial underground infrastructure development using two skips with the existing sinking hoist. The cage, for personnel and equipment, is expected to rely on a new Blair hoist. Once the development work is completed this shaft is expected to be used for ventilation and as a second means of egress. For Jansen Stage 1 the production shaft headframe is the existing sinking headframe used for the sinking and lining of the shaft. Although this headframe has been modified to accommodate the new skips and cage configuration. The conveyances is expected to rely on guide ropes for this shaft.

In the service shaft, the hoist system uses ground mounted Koepe hoists (friction hoists) supplied by ABB and designed by the Hatch Bantrel Joint Venture (HBJV). The hoists are expected to be delivered as per specifications defined by the designer (HBJV). The headframe is a typical A-Frame steel construction. The system comprises a cage and counterweight for personnel and material as well as two skips for ore hauling. The cage and hoist travel through the shaft on a system of rigid steel guides. The system is designed as a Class A guide system to support skips travelling at speeds that could reach 18 m/s. In the opinion of the Qualified Person, the hoisting system is expected to be capable of sustaining the production rate anticipated.

The shaft steel is designed on a fully cantilevered Bunton to minimize stresses transferred to the shaft liner. This is to promote a longer design life of the liner. As the liner in these shafts is a fully hydrostatic design, the conditions in the shaft are designed to be dry (meaning no seepage). In the opinion of the Qualified Person, for such conditions, coupled with a good maintenance program, the design life of the shaft steel could be expected to be 50 years.

15.9.2 Shaft liner

The Jansen shafts have an internal diameter of 7.3 metres. Both shafts are lined with an integral hydrostatic concrete/steel composite design. From one shaft to the other the geology is similar but shows slight elevation differences. For that reason, although the liner design is the same in both shafts, there are slight variations in the elevations of the liner features from one shaft to the other. The waterproofing being provided by an integral outer welded liner (OWL) from a depth of approximately 835 metres all the way to the top. This combined with a set of redundant water

seals at the bottom. The basis of Design for these liners is for a design life of 70 to 80 years. Considering the performance of other potash mines shafts, coupled with the asset integrity management plan, it is the opinion of the Qualified Person that the design life of these liners could be extended beyond the 70 to 80 years stated in the design basis. By promoting dry shaft conditions, the maintenance requirements should be minimized which in turn supports the higher availability of the hoisting system.

To support better design life of the shaft liner, the service shaft steel guide system was designed with a fully cantilevered configuration. This promotes a reduction of the slamming loads transferred to the liner, hence reducing the cyclic stress levels supported by the liner. In the opinion of the Qualified Person, this design choice will be beneficial to the shaft liner design life as well as the steel design life.

15.10 Infrastructure Layout Map

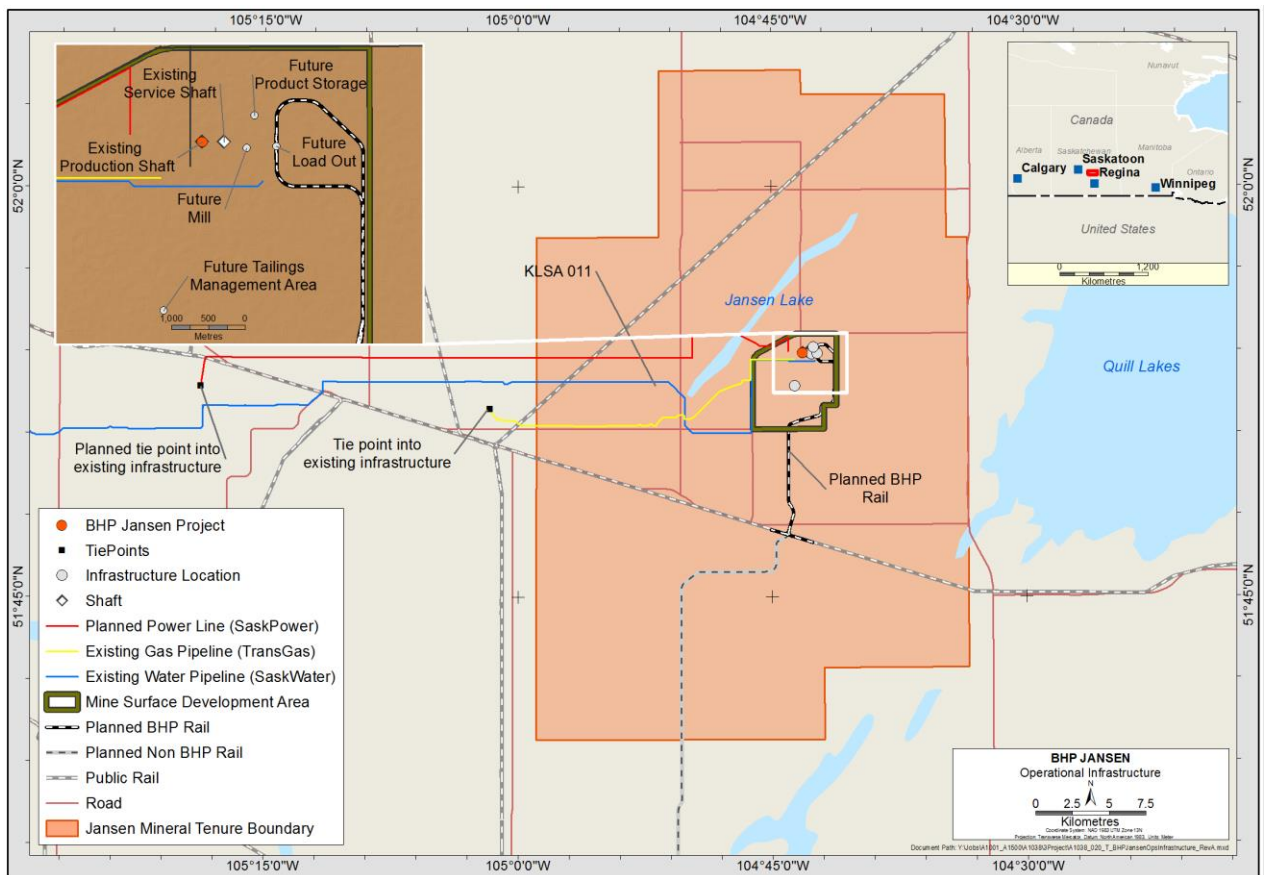


Figure 15-5: Infrastructure Layout Map

Figure 15-5 above shows the layout of the surface infrastructure for Jansen Stage 1 and includes the processing and non-processing facilities, tailings management area and the mining headframes.

16 Market Studies

16.1 Market Information

Potassium (K) is one of three essential macronutrients that plants need to thrive, along with nitrogen (N) and phosphorus (P). Total potassium uptake of global agriculture is determined by the quantity and mix of crops that is grown.

Potassium nutrient is supplied to crops in three ways:

- through the application of mineral fertilizers
- through organic manures and crop residues
- from the native mineral content of the soil

Native potassium levels vary geographically, and within areas from field to field, and may be depleted over time through intensive cultivation, so farmers commonly provide additional potassium through the application of organic materials (principally, crop residues and animal manures) and/or potash fertilisers to ensure that yields are not limited by inadequate potassium availability.

Potash is the name of a group of potassium compounds. Specifically, it usually refers to potassium chloride (“KCl”), which is by far the most widely used potassium product. Potassium chloride is also known as “MOP”, from the archaic name “muriate of potash”. The potash market is projected to be around 71 Mt-73 Mt (MOP equivalent) in 2021, with MOP representing around 90 per cent of this. MOP is consumed principally as fertilizer (92 per cent), although numerous industrial end-uses make up a small minority of the market. As fertilizer, it is most commonly used straight or physically blended with other fertilizers (‘bulk-blends’), but it can also be processed into other forms of potash or Nitrogen-Phosphorus-Potassium (NPK) compound fertilizers.

16.1.1 Product Specifications

Potassium content is commonly measured in units of potassium oxide (K_2O), a notional substance, rather than units of K. MOP used in agricultural application is typically ~95 % KCl, which is equivalent to ~60 % K_2O ; this is in general the threshold required to qualify product in most major agricultural markets.

A large proportion of global market production is chemically/physically similar and produced from similar sylvinitic ore in Canada, Belarus, and Russia, and processed by one of two methods of beneficiation. Most suppliers produce a ‘fine’ or ‘standard’ crystalline powder (primarily used to manufacture compound NPK fertilizer and for direct application by hand) and a larger-sized ‘granular’ grade (used for mechanical application, either straight or bulk-blended with other granular fertilizers), that together comprise the large majority of their sales. These may be red/pink or white (sometimes dyed red) and usually have a guaranteed purity of 60 % K_2O . Some suppliers also make higher purity grades and/or more sizes that are sold for industrial use, niche agriculture applications or feedstock for derivative fertilizers.

Jansen plans to sell two agricultural potash grades, red standard (~60 % K_2O equivalent, ~0.5 to 1 millimetres in size) and red granular (~60 % K_2O equivalent, ~3-4 millimetres in size) potash, to retain simplicity while ensuring sufficient market access.

16.1.2 Supply Demand and Pricing

Demand

Global demand for potash fertilizers is driven by the need for higher crop production to feed a growing and more affluent, global population. It is also driven by the need to reduce reliance on native soil potassium, which in many places will be unable to support the necessary increase in crop yields. Fundamentally, the relationship between population growth, crop production and potash demand has been extremely reliable and provides a solid basis for projecting future fertiliser needs.

As shown in the two charts below (Figure 16-1), over the last sixty years, crop production has consistently outgrown population while potash has in turn exceeded growth in crop production.

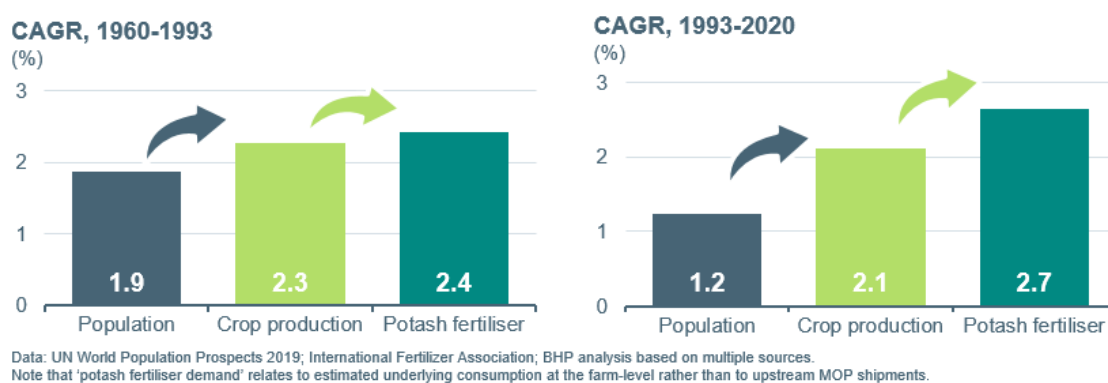


Figure 16-1: Historical relationship between crop production, population and potash demand

While the demand trend is reliable over five to 10 year periods, potash demand is at times subject to considerable year-to-year variations due to shifting farm economics, weather, policy and the ability of soils to retain potassium from one season to the next. However, long term demand is underpinned by slow moving, yet very reliable drivers consistent across decadal time spans. This broadly includes the number of mouths to feed, the scale and scope of diets and long run trends in soil fertility and the associated interplay with fertiliser application rates.

Historical growth since 2000 has been 2.7 per cent per annum on average, with the most recent ten year period coming in around 2.4 per cent. Global potash demand growth over the next decade is estimated in the range of 1-3 per cent.

Supply

According to independent market analyst CRU about three-quarters of MOP production comes from underground ores – mainly located in Canada, Russia and Belarus (Figure 16-2). It is simple and established technology, low-cost and energy-efficient. Much of the remainder is extracted from natural brines in China and Dead Sea. Ore is most commonly processed through flotation that yields a product that is pink or red and usually about 95 per cent pure. Jansen is designed to employ the conventional underground mining and flotation route. As of 2021, there are only two large-scale solution mines, both in Canada.

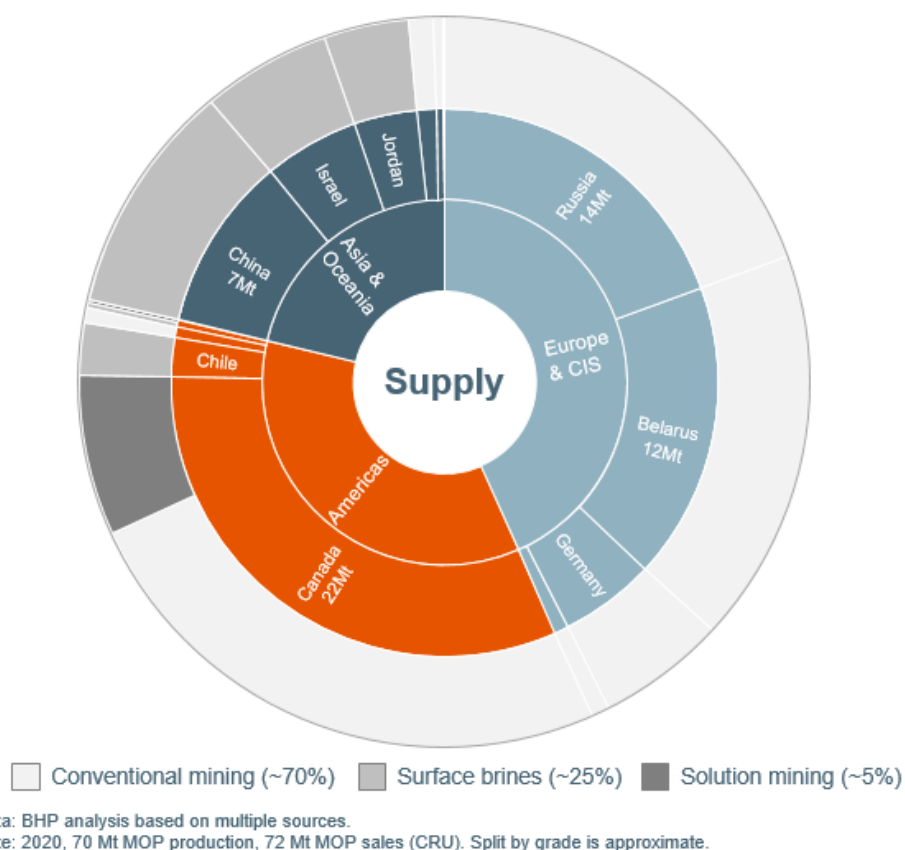


Figure 16-2: MOP supply by regions (Mt)

Most potash operations produce between 1 and 4 Mtpa. The mines in Canada mostly date back to a period of rapid development in the 1960s and 1970s, while much of the capacity in Russia and Belarus was built in the Soviet era. The potash industry structure is presently characterized by a small number of large suppliers. In terms of supply concentration, four producers (Nutrien, Mosaic, Uralkali and Belaruskali) accounted for ~65 per cent of global production in 2020. During periods of excess capacity and short term demand volatility, parts of the industry have historically adjusted utilization rates with the objective of “matching supply with demand”. Excess production capacity has been absorbed through curtailed production.

In addition to existing supply capacity, there are ten major MOP mine projects under construction or already ramping-up. Four of these are replacing exhausted reserves and planned to feed existing processing plants. If successfully executed, these projects are expected to add about 10 Mtpa of net incremental supply versus calendar 2020.

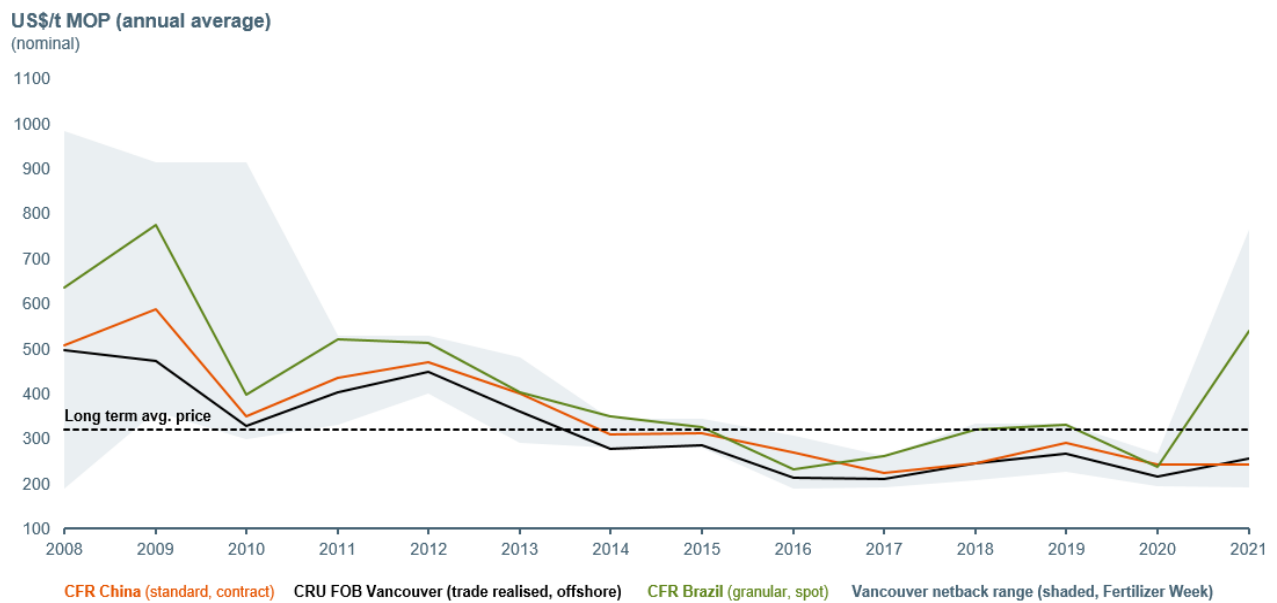
Potash Pricing

Potash is not an exchange-traded commodity and there is no single benchmark representing global market pricing. Transactions are typically bilateral between seller and buyer. There are a number of specialist publications that journalistically assess transacted prices. Most potash sales are made on a delivered “CFR” basis, like granular MOP CFR Brazil or standard MOP CFR China. Prices are published in ranges to reflect the inherent variation in observed pricing due to various factors.

Published journalistic price assessments do not always neatly reflect the net price the seller receives. To estimate a mine netback from a particular delivered location, a number of factors need to be considered. These could include:

- Regional prices (Brazil CFR, SE Asia CFR and US Free-On-Board “FOB” Midwest) are considered, in addition to annual contract prices in China and India.
- Customary industry discounts and rebates are deducted from the listed price – this information is not publicly available.
- Freight costs are subtracted for CFR (or delivered) sales.
- Port costs and inland freight are subtracted.

The resulting netback gives the approximate realised price. The chart below, Figure 16-3, illustrates import price of MOP to Brazil against the annual contract price that is fixed for imports in China. The shaded area shows the implied range of netbacks FOB Vancouver after deducting ocean freight from these and other delivered benchmarks (reported by Fertilizer Week). The lower line is CRU reported FOB Vancouver for offshore sales (trade-weighted export price).



Source: CRU (Fertilizer Week)

Figure 16-3: MOP pricing (US\$/t annual average)³

³ - The sole purpose of the presented information above is to demonstrate the economic viability of the mineral reserves for the purposes of reporting in accordance with S-K 1300 only and should not be used for other purposes. The annual cash flow data was prepared based upon Pre-Feasibility-level studies and the historic average prices and costs described in this Technical Report Summary; it is subject to change as assumptions and inputs are updated. The information presented does not guarantee future financial or operational performance. The presented information contains forward-looking statements. Please refer to "Note Regarding Forward Looking Statements" at the front of this Technical Report Summary.

Pricing assumption for economic analysis

The potash market has underutilised supply capacity which would need to be absorbed before a structural balance is achieved. The potash price of US\$338/t is based on a central case for BHP that demand is expected to have “caught-up” by the late 2020s or early 2030s by when new supply is expected to be required.

Before the market reaches a structural balance, we expect prices to cycle at or trend slightly above forward looking estimates of short run marginal cost (SRMC), which are similar to the average prices seen since 2014. This does not preclude the possibility of price upswings, as witnessed for most of calendar 2021. It essentially implies that while excess capacity is present, prices are unlikely to sustain at inducement levels.

Once structural balance is achieved, and with demand expected to continue to increase, new supply would be induced. In a central case for BHP, the estimate of the inducement price for the most likely consistent source of Greenfield supply (identified as a large “bench” of Canadian resource suitable for solution mining), is similar to the average through cycle price realised over the last dozen years. In short, the forward looking long run marginal cost (LRMC) is broadly in line with through-cycle averages, which is considerably above SRMC experience of the last few years.

To estimate this through-cycle average, Nutrien’s published (quarterly) offshore and onshore realised prices during 2008-2020 were considered and with quality (standard/granular) and geographical sales mix adjustments to suit future expected sales from the Jansen operation, as exhibited in our current plans. Nutrien’s realised prices are net of discount/rebates/freight, reported on FOB mine basis. After accounting for above adjustments, the average price is estimated at US\$338/t FOB mine (Saskatoon, Real June 2022 basis). For the economics analysis covered in Chapter 19, the FOB mine price is used as defined above.

16.1.3 Competitors

Existing producers collectively sell the vast majority of their MOP on a CFR basis, typically as standalone product, directly to independent bulk buyers, utilizing regional offices, and sometimes agents. Producers typically sell to well over a hundred buyers that collectively form a diverse and competitive demand pool. MOP producers’ geo diverse sales help to balance regional offtake variation that occurs due to local weather conditions, seasons, and crop economics.

Post CFR logistics span from discharge port to 100s of millions of farms around the world. In-market supply chains can be complex. For the most part, in-market distribution is disaggregated and managed by many independent downstream entities. Barriers to entry are often low and margins are often smaller than those captured further upstream.

Where producers choose to sell a portion of their production via their own distribution, manufacturing or retail assets, it is usually done when they want to capture downstream synergy from selling other fertilizers, agricultural products, and/or services. Even in regions where potash producers are particularly active downstream, such as the US and Brazil, the majority of the in-market supply chain remains independently owned.

Competitors currently produce between two and ~fifteen grades of Potash. Product characteristics are principally due to the ‘natural’ result of variation of the mill feed and choice of

beneficiation method, but also to suit customers' needs and preferences. Below is a summary of key potash producers⁴:

Nutrien

Nutrien is a member of Canpotex, an export association of Canadian potash producers through which they sell their Canadian potash outside the US and Canada. Nutrien was formed through a merger between Potash Corporation of Saskatchewan and Agrium. The merger officially closed on 01 January 2018 and formed the world's largest provider of crop inputs and fertilizers. Nutrien is the world's largest potash producer with over 20 million tonnes of potash capacity at six potash mines in Saskatchewan. Nutrien sells nine MOP products including speciality products such as soluble grade, turf grade, chiclets, animal feed, micro-nutrients, and pharmaceutical grade.

Mosaic

Mosaic is a member of Canpotex, an export association of Canadian potash producers through which they sell their Canadian potash outside the US and Canada. Mosaic has approximately 10 million tonnes of operational potash capacity. Mosaic sells eight different MOP products including red/white granular and standard products, and crystal turf.

Every year, Canpotex sells a little less than 20 per cent of global MOP sales from Canada, outside North America. These sales are handled on behalf of Nutrien and Mosaic.

Uralkali

Uralkali is one of the leading global producers of potash. The Company accounts for a large share of global potash production. They sell eight different MOP products including: red granular and standard, white fine and standard and potassium chloride pellets.

Belaruskali

Belaruskali is one of the largest state-owned companies of Belarus and one of the largest producers of potash fertilizers in the world, accounting for 20 per cent global supply as of 2019. Belaruskali sells four MOP products including white/red standard and fine MOP.

K+S

K+S Potash Canada is part of the K+S Group, a German-based company that has been mining and processing potash and salt for over 125 years. K+S Potash Canada extracts potash crude salt which is further processed into three types of potassium chloride. K+S is the largest potash producer in Europe. K+S sell four products including pharmaceutical grade MOP.

EuroChem

EuroChem owns and operates plants in Russia, Belgium, Lithuania and China and produces both standard and enhanced nitrogen, phosphate, two potash products, complex fertilizers as well as several industrial product lines.

⁴ Competitor information sourced from each competitor's corporate website

16.1.4 Market Entry Strategies

The marketing plans for the material are ultimately under the control of the registrant. As such, the Qualified Person has relied upon BHP for this information. In the Qualified Person's opinion and based on industry experience to date, the marketing plans provided by BHP appear to be reasonable in this context.

BHP expects to market directly to major customers via a network of regional offices, leveraging BHP's existing footprint and capabilities.

From a logistics perspective, like other established sellers, BHP intends to focus on upstream CFR sales. Jansen expects to also benefit from being able to direct-rail to North American customers. Jansen has logistics optionality and flexible granular processing capacity that means it could shift sales between export regions and North America, depending on the market. By staying upstream, Jansen can focus on the highest margin part of the value chain and leverage BHP's experience in exporting bulk commodity marketing and sea-freight.

BHP plans to target dozens of large buyers across growth regions in the Americas, Asia, and the rest of the world, by example Africa, noting Jansen will be under-weight in regions such as China given their historical product preferences. BHP plans to also sell some volumes into the US and other smaller established regions. Geographic and customer diversity is expected to provide competitive global access and average out regional demand variation and price netbacks. Actual sales splits are currently uncertain and depend upon various factors (including regional netback prices, logistics costs, reliability, and the need for location diversity) and vary over time.

BHP is new to potash, and intends to become in time one (of only a few) established sellers. Entry risk is only present for a relatively short period of time at the beginning of Jansen Stage 1. Market conditions at the time of entry are uncertain, and therefore any entry strategy must be fit for purpose under different conditions.

In anticipation of Jansen production coming to market, BHP established a dedicated potash marketing team in 2016 to build a practical understanding of how the potash market works. This team has recruited and consulted with many industry experts who collectively have extensive first-hand experience marketing and distributing potash. BHP has spoken with potential potash buyers and developed working relationships with major potash buyers and has non-binding Memorandums of Understanding (MOUs) in place with key strategic buyers. The marketing team is intended to be expanded to bring in more specific regional sales experience as considered to be appropriate.

16.2 Contracts and Status

All material contracts required for the development of Jansen Stage 1 are listed below in Table 16-1 and Table 16-2. Jansen does not intend to have agreements with affiliated parties and plans to create direct purchase engagements.

Table 16-1: Awarded Packages

Material Description	Mine Areas
Switchgear	Surface and Mining Electrical Equipment
Mine Ventilation Fans	Underground Mining Equipment
Hydraulic Power Packs	Underground Mining Equipment
Drag Conveyors	Underground Mining Equipment
Barge Pumps	Underground Mining Equipment
HVAC Equipment	Underground Mining Equipment
Bolter Fleet	Underground Mining Mobile Equipment
Conveyances, Pumps and Hydro-cyclones	Underground Mining Equipment
Axial Fans	Underground Mining Equipment
Valves, Transmitters and Process Control System	Mill Equipment
Modular E-Houses	Surface Electrical Equipment
Underground Conveyor Take-up Winches	Underground Mining Equipment
Dry Screens	Mill Equipment
Development Conveyors	Underground Mining Equipment
Blair Hoist	Mining Equipment
Surface and Underground LTE Communications	Surface and Mining Electrical Equipment
VFD Skids and Mine Load 15 kV Switches	Surface and Mining Electrical Equipment
Shaft Excavation, Steel and Equipping	Underground Mining Construction
Vent Plenums	Underground Mining Construction
Permanent Power	Surface Electrical Construction
Pulleys and Idlers	Mill Equipment
Surface and Underground Conveyor Belt Supply	Surface and Mining Equipment
Compactors	Mill Equipment
Fluid Bed Dryers	Mill Equipment
Gearbox and Conveyor Drives	Mill Equipment
Bucket Elevators	Underground Mining Equipment
Dust Collection Bag House	Mill Equipment
Crushers	Mill Equipment
Centrifuges	Mill Equipment
Survey, Drilling, Early Earthworks	Surface Civil Construction
Valves	Mill Equipment
Flotation Columns	Mill Equipment
Salt and Slimes Centrifuges	Mill Equipment
Coarse Particle Flotations Cells	Mill Equipment
Conditioning Drums	Mill Equipment

Table 16-2: Pending Packages

Package Description	Notes
Site Support Services	Bussing, Heavy Haul, Security, Emergency Response, Medical Services, Camp Management (including catering and janitorial), aggregate sourcing and management, courier services, trucking services, concrete batch plant, communications, general site services, testing and inspection services, Diesel supply and delivery, Bulk Propane Supply and Delivery,
Rail	Onsite rail, Offsite rail provider, Offsite earthworks, Spur Construction, Rail Cars
Mill Area	Foundations, Piling, Raw Ore Storage and Handling, Tailings Management, Dry and Wet Mill Area,
Mining	Underground Development, Headframe Changeover,

17 Environmental Studies, Permitting, Plans and Agreements

Operational controls for environmental management are guided by BHP's Charter Values. The Charter Values outline a commitment to develop, implement and maintain management systems for sustainable development that drive continual improvement and set and achieve targets that promote efficient use of resources. The Charter is reinforced by a series of *Our Requirements* (OR) documents that have been developed, including *Our Requirements for Environment and Climate Change* (OR E&CC). These enterprise-level documents set out minimum performance requirements to everyone in BHP that must be met to ensure the strategy is delivered, legal obligations are met, defined risks are management and productivity is improved. The OR E&CC applies to environment-related risks and potential impacts on the physical environment: air, water, land, biodiversity, communities and their interrelationships.

17.1 Environmental Studies and Impact Assessments

The Jansen Project was considered a development subject to the Saskatchewan *Environmental Assessment Act* and required the submission of an Environmental Impact Assessment (EIA). EIAs are used to assess the effect a proposed project may have on the environment by gathering information about the receiving environment and assessing the consequences that planned actions may have on the environment. EIAs help determine the necessary mitigations and other management or remedial measures that may be required for the project to proceed. EIAs define the receiving environment, identify any potential adverse impacts, and propose measures to reduce or prevent these impacts. Controls to manage significant impacts are conditioned in the relevant approval issued by the MOE.

The EIA also determines if any actual or reasonably foreseeable activities conflict with the following conditions, which are outside BHP's appetite for risk and listed in OR E&CC, including:

- Do not explore or extract resources within the boundaries of World Heritage listed properties
- Do not explore or extract resources adjacent to World Heritage listed properties unless you have approval and can demonstrate that the proposed activity is compatible with the outstanding universal values for which the World Heritage property is listed
- Do not explore or extract resources within or adjacent to the boundaries of International Union for Conservation of Nature (IUCN) Protected Areas Categories I to IV unless you have approval and you implement a plan that meets regulatory requirements, takes into account stakeholder expectations and contributes to the values for which the protected area is listed
- Do not operate where there is a risk of direct impacts to ecosystems which could result in the extinction of an IUCN Red List Threatened Species in the wild
- Do not dispose of mined waste rock or tailings into a river or marine environment

In November 2008, BHP Canada submitted a Project Proposal to the Environmental Assessment Branch. After a 30 day public comment period, the Environmental Assessment Branch issued its Project-specific Guidelines, which defined the type of information BHP Canada would need to submit in the Environmental Impact Statement (EIS). The Project Proposal was also sent to the

Canadian Federal Government for review in accordance with the Canada-Saskatchewan Agreement on Environmental Assessment Cooperation. Subsequently, the relevant federal agencies determined that there were no triggers for a federal assessment.

BHP Canada completed numerous environmental and socio-economic baselines surveys in 2008 and 2009 to support the EIS, inform environmental permit applications and provide information for management decision making. The survey scopes consist of air, noise, surface and groundwater, soils, wildlife and vegetation and heritage baseline and targeted surveys across BHP Canada's Jansen Project tenure.

Initial public feedback to support the scoping of the baseline surveys and submission of the EIS started in 2009. During the engagement process, a broad range of interested parties were engaged at the federal, provincial, regional and local levels. These included, local communities, Indigenous communities, non-governmental organizations, local business, Crown corporations and government agencies. Within the local communities, potash mining and its effects are generally familiar and well understood and the project received strong overall community and stakeholder support.

In December 2010, BHP Canada submitted the Jansen Project Environmental Impact Statement (EIS) to the Saskatchewan Ministry of Environment (MOE). The EIS and governments technical review were made available to the public for comment. The EIS received Ministerial Approval on 29 June 2011.

Since the EIS approval, further engineering and project optimization was completed that resulted in changes to the mine plan, site layout, and schedule. To maintain Ministerial Approval, two submissions were made in November 2017 to the MOE Environment Assessment and Stewardship Branch under Section 16 of *The Environmental Assessment Act*. The proposed changes included:

- change in ownership of the 7.98 kilometres (km) joint access rail spur connecting the on-site rail to the Canadian Pacific (CP) Railways mainline from CP to BHP Canada;
- increased potash production from 8 to 8.6 million tonnes per annum (Mtpa); and
- expansion of the tailings management area (TMA) from 388 to 450 hectares (ha).

Approval was received for both submissions on 19 April 2018.

The Jansen Project EIS identified several Valued Ecosystem Components, which were drawn from government requirements, public input, applicable legislation and guidelines, results of baseline studies, the Jansen Project description and the professional judgement of environmental and social scientists. The Jansen Project Valued Ecosystem Components are listed in the table below (Table 17-1), including mitigation measures.

Table 17-1: Jansen Project Valued Ecosystem Components and Mitigation Measures

Valued Ecosystem Components	Mitigation Measures
Air	Use diesel particulate filters, dust suppression, maintaining on-site unpaved roads, air quality will meet government standards for protection of people and the environment
Greenhouse Gas	Subject to Government of Saskatchewan mitigation regulations
Noise	Installation of noise reduction equipment, noise monitoring program to track noise, use best practises with mining equipment to minimize Project-related noise
Soils	Safe disposal of soil contaminants, re-vegetating soil surfaces to prevent wind and water erosion, designing refuelling stations and maintenance facilities to minimize and control spills, usage of seepage interceptor ditches to prevent brine migration
Groundwater	Ongoing monitoring program, control of brine (perimeter dykes and ditches, slurry walls, pile drainage system)
Ground Subsidence	Ongoing monitoring of ground elevation
Plants and Wetlands	Cleaning off-road equipment coming on to site for the first time, limiting soil disturbances, promptly re-vegetating disturbed areas, monitoring invasive plant populations
Wildlife	Habitat Compensation Plan, deterring birds from the brine area as appropriate, no-hunting policy on BHP controlled land, Canadian toad salvage program, avoiding clearing sensitive areas of vegetation during animal breeding seasons, minimizing light on tall site structures
Archaeology and Heritage	Avoid heritage and archaeology sites during construction and mining activities

The Jansen Project EIS found no significant effects on the Valued Ecosystem Components listed above after the proposed mitigation measures.

In accordance with the commitments and conditions in the EIS, long-term environmental monitoring programs were established to monitor for potential environmental effects arising from site operations. A network of monitoring stations were established in 2013 around the boundary of the Project. The monitoring programs include air quality, meteorology, noise, groundwater, wetlands, soils, and wildlife.

BHP Canada committed to developing a habitat compensation program to ensure no net loss of wetlands and associated habitat as a result of the Project. This program started in 2014.

BHP Canada committed to implementing an environmental management program for the Project that follows the framework outlined in the EIS. The Jansen Environment Management Plan (JEMP) describes site specific requirements that have been established for the Project to minimize environmental impacts during construction and future operations. The JEMP incorporates internal BHP environmental standards, federal and provincial environmental standards, and Project regulatory approval requirements.

17.2 Waste and tailings disposal

BHP's commitment to safe tailings management, the Global Industry Standard on Tailings Management (GISTM) and our ambition to achieve zero harm from tailings is outlined in the BHP Tailings Storage Facilities (TSF) Policy available on bhp.com (see downloads section) as approved by the BHP Board in April 2021.

The BHP Tailings Policy outlines our approach to TSF management including:

- governance and accountability;
- TSF failure risk management (additional detail on risk management/ three lines model is available on the website);

- Emergency preparedness and response and mechanisms for recovery; and
- Transparency

Mandatory minimum performance requirements for TSFs govern how we manage TSF failure risks across BHP are aligned with the Global Industry Standard on Tailings Management (GISTM) (and outlined applicable processes and associated internal guidance). This is publicly available as the Our Requirements for Tailings Storage Facilities (see link to external OR above).

BHP has developed short-, medium- and long-term tailings management strategies.

- Our short-term strategy continues to focus on improving Key Risk Indicator performance in line with defined targets.
- Our medium- and long-term strategies focus on the development of technologies to improve tailings management storage. Asset-specific strategies have been developed for all of our operated and legacy assets and seek long term alternative tailings solutions.

17.2.1 Waste and Tailings Disposal

The waste produced from the mill process will be comprised primarily of fine tailings (insoluble), coarse tailings (salt) and brine. All tailings will be stored within the Tailings Management Area (TMA). Separate coarse and fine tailings cells will store the respective waste products and a brine recycling system connected to the coarse tailings cell will provide brine management for reuse by the mill. Excess brine from operations or resulting from precipitation events will be pumped to the disposal wellfield for injection into the Winnipeg-Deadwood Formation (the disposal horizon).

Containment for tailings and brine will be controlled by a combination of dykes, drains, and interceptor ditches. The coarse tailings area consists of a storage area surrounded by perimeter earthen dykes designed to store coarse tailings and brine produced during operations. The facility was designed to store the Environmental Design Flood (EDF) equal to a 1:100 year precipitation event occurring over a 24-hour period safely within the dykes while maintaining the minimum freeboard requirements. Additional flood storage will be available for precipitation events exceeding the EDF up to the Inflow Design Flood (IDF) utilizing overflow spillways constructed into the crest of the dyke. The overflow spillways allow for brine transfer into the interceptor ditches for temporary storage. The IDF used for design is 300 millimetres in 24 hours which is slightly greater than the calculated IDF for high Canadian Dam Association (CDA) consequence dam of 1/3 between 1:1,000-year and the rational Probable Maximum Precipitation (PMP). As the coarse tailings volume increases with production, a phased expansion of additional cells will be incorporated to maintain coarse tailings and flood storage capacity.

The fine tailings area will consist of a storage area surrounded by perimeter earthen dykes, including a decant pond, a filter dyke, decant structures and an underdrainage system. The facility was designed to store the fine tailings produced during operations and clarify the associated brine within the tailings through the filter dyke and the underdrainage system. This facility was designed to contain the IDF within a 24-hour period within the dykes while maintaining the minimum freeboard requirements in the system. As fine tailings volumes increase with production, a perimeter dyke raise and phased expansion of additional cells will be incorporated to maintain fine tailings and flood storage capacity.

The network of interceptor ditches will surround the TMA. These ditches were designed to collect shallow subsurface lateral brine migration below the perimeter dykes as well as contain any seepage collected within the perimeter toe drains. The base of the interceptor ditches will be keyed into the underlying unoxidized materials to intercept shallow brine migration and facilitate brine flow to a collection point at which the brine will be pumped back into the TMA storage facilities.

Slurry walls will be constructed as required in the future to mitigate migration of brine in the Upper and Lower Floral Aquifers from the area underlying the TMA. The timing of the slurry wall installations will be based on the results of regular monitoring of groundwater wells installed in these aquifer units.

17.2.2 Site Monitoring

Visual inspections of the TMA dykes and ditches will be completed on an annual basis by an independent geotechnical engineer. A comprehensive annual visual dyke inspection (AVDI) will be conducted to visually examine the containment structures and qualitatively evaluate the stability of the structures based on the observed appearance. The emphasis of the AVDI will be to identify any observable danger signs associated with failure mechanisms of the structures. The findings will be provided to the MOE.

Geotechnical monitoring instrumentation will consist of slope inclinometers, vibrating wire piezometers and standpipe piezometers installed to varying depths within the dyke, coarse tailings pile, and foundation soils to monitor pore water pressures and stability conditions. Geotechnical monitoring instrumentation are to be installed in the dykes and pile foundation soils shortly after construction, with a continuous growing network of instrumentation installed in the tailings pile as it grows to facilitate management of the facility.

The minimum calculated Factor of Safety (FOS) equal to 1.5 is presently required for containment dykes, as per the Saskatchewan Potash Industry Brine Pond Freeboard Guidelines and Reporting Requirements (MOE, 2018). The calculated FOS is modelled assuming the brine pond levels at the maximum flood storage level with all modelled dyke cross-sections exceeding the minimum FOS of 1.5. A minimum calculated FOS equal to 1.3 is required for all segments of the coarse tailings pile.

Site monitoring of environmental risks including brine migration outside of the TMA footprint will be completed predominantly through groundwater and surface water monitoring programs. A long-term groundwater monitoring plan was established for the Project in 2012. The objectives of the environmental monitoring are to detect and estimate the rate of lateral brine migration from the TMA and the extent and magnitude of drawdown due to groundwater extraction. Throughout operations, groundwater levels, surface water and groundwater water chemistry, and electromagnetic survey data will be collected and analysed in accordance with the Site's Approval to Operate.

17.2.3 Water Management

In accordance with OR E&CC, the Project maintains a quantitative water balance. The water balance provides a summary of the meteorological data, camp occupancy, pond levels, and inputs and outputs.

In production, the raw water system will consist of the incoming water supply line from SaskWater, raw water pond, and main pump house. This area will provide raw water to the plant, for fire protection and to the operating facilities. The onsite storm water pond was designed for zero discharge; however, design changes have resulted in a requirement for construction phase discharge from the pond. Permits are issued by provincial regulatory agencies to discharge annually. During construction and operation, potable water will be supplied through the operating and permitted centralized water treatment system.

17.3 Project Permitting and Approvals

Construction and Operation Environmental Permits

Following the Approval of the EIS, the Jansen Project required federal, provincial and municipal permits and approval for construction and operation. BHP Canada has received all permits that have been applied for to-date and do not anticipate any risks to obtaining the required construction and operation permits for the Project.

The Project maintains an electronic permit register that lists all permits for the Project, which contains the permit details, requirements, and expiration dates. An internal notification system alerts the applicable parties when permits are up for renewal.

Decommissioning and Reclamation Plan

A Decommissioning and Reclamation (D&R) Plan has been developed in accordance with the Saskatchewan *Mineral Industry Environmental Protection Regulations*, Jansen EIS Commitments and EIS Approval. Provincial regulations also require that financial assurance be provided for the mining operations to ensure there are sufficient funds available for the necessary D&R activities. The D&R Plan was developed to provide information and costs on the concepts that would be implemented in the event the Jansen Project was to close in December 2021 and discusses the safety and security of the site, the decommission and reclamation concepts and addresses the residual risks of the Project through monitoring programs. In accordance with the *Mineral Industry Environmental Protection Regulations*, BHP Canada is required to submit and review the D&R Plan and financial assurance every five years. BHP Canada submitted and received approval for the first D&R Plan in 2016 and submitted a revised D&R Plan in 2021 and received approval in 2022.

Heritage

In 2009, a Heritage Resource Impact Assessment (HRIA) was completed to support the submission of the Jansen Environmental Impact Statement (EIS). The HRIA involved pedestrian surveys, documentation of existing heritage features and informal interviews. Three heritage sites were identified, one prehistoric archaeological site and two historic built heritage sites. The Heritage Conservation Branch (HCB) determined that no further work was required at the two historic built heritage sites. With respect to the third site, a Heritage Resource Impact Assessment (HRIA) was completed in May 2021. The assessment was submitted and the Saskatchewan

Heritage Conservation Branch determined all HRIA regulatory requirements had been satisfactorily completed, and there are no concerns with the project proceeding as planned.

17.4 Social Plans and Agreements

In the case of Jansen, no aboriginal rights were impacted by the project, the Duty to Consult with Indigenous groups was not triggered. However, during the development of the Jansen project, BHP Canada negotiated voluntary agreements with six local Indigenous communities to provide a basis for collaboration and for effective ongoing communication. As part of the agreements, commitments to capacity building initiatives on education, training and labour force development and addresses sharing of information important to environmental management practices. The agreements are refreshed every five years.

17.5 Closure Planning

Conceptual Closure Plan and Associated Costs

A Conceptual Closure Plan has been developed for the Jansen Project with an anticipated ore throughput of 11.4 Mtpa and an approximate 100-year life of mine. The main areas include the mine site, raw ore handling and storage, process plant, tailings and brine disposal, product storage and loadout, non-process infrastructure and onsite rail, joint access spurs and wyes. The objective of the closure activities is to achieve the conditions for physical and chemical stability of the mine site, similar to its pre-development condition and land use, to ensure public safety and environmental protection. Specific stakeholder consultation relating to closure has not been conducted to date but will be undertaken based on the stakeholder engagement strategy for the Project.

Progressive reclamation is the reclamation of areas no longer required for operations and provides a potential means to enable a cost-effective, timely closure. It is anticipated that the majority of the Project site will be actively utilized while the mine is operational and therefore opportunities for progressive reclamation may be limited.

Site decommissioning will be staged, first with the mine site, then process facilities and finally the TMA. All buildings and associated infrastructure will be decommissioned and demolished once no longer required for long-term closure activities. All waste will be classified as either hazardous or non-hazardous and disposed accordingly.

The TMA at closure will consist of the fine and coarse TMAs. The fine tailings are expected to consolidate to enable access for equipment to cover with granular fill, soil and re-vegetate. The coarse TMA will be closed and reclaimed through either natural or enhanced dissolution. The current conceptual closure plan for coarse tailings involves long-term natural dissolution by precipitation, and the collection and disposal of the resulting brine through brine disposal wells into the Winnipeg-Deadwood Formation, which are highly saline aquifers below the mining horizon. Enhanced dissolution involves the water sources identified in natural dissolution as well as utilizing poor quality water (unusable for consumption or irrigation) from an aquifer.

The end uses for the rehabilitated site are currently identified as a mix of agricultural and wetland/upland habitat, but will be subject to future stakeholder discussions.

An environmental monitoring and maintenance program will be conducted to assess the physical, chemical, and biological stability of the rehabilitated mine, where necessary, proactively identify areas where maintenance is required. The intention of this program is to confirm whether the site closure criteria have been achieved, and to ensure the closure activities are progressing successfully towards meeting these criteria and attaining the close out status.

The conceptual closure cost model is made up of a detailed direct cost estimate for each of the reclamation activities identified for each project component. Despite the detailed estimation of the closure costs, there is a vast amount of time before the closure plan is to be executed, and consequently limits the accuracy of the cost, with the current conceptual closure plan representing one of many possible closure options. BHP Canada continues to work with the relevant provincial ministries to maintain an appropriate level of financial security for mine closure requirements

The conceptual closure costs are represented in the economic evaluation as a lump sum one year after active mining stops, with primary closure of the mine site buildings, processing plant, and non-process infrastructure occurring approximately within the first five years of closure. An annual cost of CA\$2.7M, exclusive of indirect costs and contingency, is captured in the economic evaluation for the duration of the post closure monitoring, maintenance, and the reclamation of coarse tailings, accomplished through long-term dissolution by precipitation, collection and disposal of the resulting brine through disposal wells, and the reclamation of said disposal wells. The closure cost estimate is CA\$2.4B, excluding contingency and indirect costs.

17.6 Local procurement and hiring

BHP works in partnership with Indigenous peoples around the world. The success of these relationships is critical to our success as a company.

BHP is committed to supporting the communities in which we operate through the delivery of local industry participation benefits.

Local and Indigenous Procurement

The Jansen Project brings significant potential for involving Indigenous and local contractors and suppliers with a focus on First Nation organizations. BHP Canada has signed voluntary Opportunity Agreements (OAs) with communities near the Jansen Project as follows: Kawacatoose First Nation, Day Star First Nation, Muskowekwan First Nation, Beardy's and Okemasis' Cree Nation, Fishing Lake First Nation, and George Gordon First Nation. The purpose of the OAs is to enable a collaborative working relationship between the First Nations and BHP Canada by providing business and economic, employment, training and community development opportunities. This, in addition to the introduction of 7-day payment terms for all small, local and Indigenous owned businesses, which took effect in June 2021.

Local and Indigenous Hiring

During Jansen mine operations, BHP Canada has publicly stated our intent is that our Indigenous workforce reflects the underlying demographic of the region. For more on Indigenous hiring, please see Section 17.4 on social value and agreements.

Additionally, BHP Canada is expected to implement processes designed to increase Indigenous and female participation in employment opportunities independent of the apprenticeship program.

17.7 Discussion of Relative Accuracy/Confidence

In the Qualified Persons opinion, the risks associated with environmental compliance and permitting, water management and cultural heritage are well understood and managed in accordance with BHP's *Our Requirements Health, Safety, Environment and Community Reporting* and regulatory requirements. Our approach to social investment and commitment to our local communities has resulted in long-term relationships that will continue for the life of the project.

In the opinion of the Qualified Person, there is a high likelihood that changes to the closure plan and cost will occur as it progresses from conceptual design to detailed design. The closure management plans should be regularly reviewed to reflect updated asset planning and include current knowledge from on-site experience, regionally, across other BHP businesses, and globally in the mining industry.

18 Capital and Operating Costs

18.1 Operating Cost

18.1.1 Operating Cost Estimate

The operating cost estimate for Jansen were developed to capture costs defined as mine gate. This includes all costs spanning from the mining face underground to the loading of product to rail at the site.

The operating cost estimate includes all personnel and activities within the battery limits of the scope, and also includes operational and statutory management, administration, and support personnel associated with the operation. Specifically, the operating cost estimate captures all costs related to:

- Mining operations and maintenance
- Processing operations and maintenance
- Non-process infrastructure operations and maintenance
- Indirect costs including:
 - costs associated with the Saskatoon Integrated Operations Centre (IOC)
 - Marketing and selling costs
 - Intra-Group Service Charges (IGSC's) and share & executive awards
- Carbon costs and applicable sales tax
- Sustaining capital associated with any of the items identified

There are tax-related expenses that will be incurred by Jansen that are not covered in the operating cost estimate and are instead captured within the economic analysis separately. These include:

- Royalties (including Crown royalties and Saskatchewan resource surcharge)
- Business income taxes including potash production taxes, federal income taxes and provincial income taxes)

The operating cost inputs and drivers have been primarily sourced from bottom-up estimates, operational experience and benchmarking, budget quotes from potential vendors, design specifications, and currently contracted rates where applicable. The operating cost estimate for Jansen Stage 1 is developed to an accuracy level within a +/-25% range. The estimate includes costs from all areas from the mine face up to and including the load out operations. Table 18-1 reflects the operating cost in CA\$ and US\$ equivalent with breakout between variable and fixed costs.

Table 18-1: Major Components of Operating Costs for Jansen⁵

Cost Category	Cost Sub Category	CA\$/t KCI	US\$/t KCI
Product Variable Costs	Mine Operating Costs	5	4
	Processing Operating Costs	18	13
	Other Variable Costs	2	2
		CA\$M	US\$M
Fixed Costs	Mine Operating Costs	80	61
	Processing Operating Costs	64	48
	Non-Process Infrastructure (NPI)	19	14
	Indirect & Overhead	59	45
	Other Fixed Costs	16	12
Sustaining Capital		74	56

Variable costs in each of the areas referenced in Table 18-1 include production consumables, utilities (power, natural gas, diesel, and water), as well as processing reagents as the primary drivers. These costs will be incurred with the start of saleable product being produced as outlined in Table 131. All consumption values per tonne were estimated considering the Jansen engineering design and benchmarked estimates from our Potash SME team. The unit costs used in the variable cost calculations were sourced from budget quotes from local vendors as well as publicly available information where possible.

Fixed costs within each area consist of labour and maintenance as the primary drivers. Labour costs unit rates referenced locally benchmarked labour rates in the region with total headcount estimated utilizing the Jansen mining and processing design. Maintenance costs utilized benchmarked annual costs for known equipment types multiplied with the known asset counts from within the design. Indirect costs were developed reviewing the current BHP benchmarked costs from other assets while considering the Potash specific work requirements.

Sustaining capital costs take into account the continued development of the mine and need to install additional material handling infrastructure. Other main drivers within sustaining capital are major maintenance programs, asset replacement, and tailings area expansions throughout the life of the mine.

18.1.2 Basis and Accuracy Level for Cost Estimates

The cost estimation procedure and the uncertainty analysis for the operating cost of the project has been reviewed and analysed by an independent 3rd party team to remove potential bias from the process. The uncertainty analysis was facilitated by the 3rd party team and utilized external subject matter experts. All outputs of the estimated process have been reviewed and approved as accurate in the opinion of the qualified person and are within level of accuracy stated at the

⁵ - The sole purpose of the presented information above is to demonstrate the economic viability of the mineral reserves for the purposes of reporting in accordance with S-K 1300 only and should not be used for other purposes. The annual cash flow data was prepared based upon Pre-Feasibility-level studies and the historic average prices and costs described in this Technical Report Summary; it is subject to change as assumptions and inputs are updated. The information presented does not guarantee future financial or operational performance. The presented information contains forward-looking statements. Please refer to "Note Regarding Forward Looking Statements" at the front of this Technical Report Summary.

time that they were developed. At the conclusion of the process the mid case estimate outlined within this document was acknowledged as within the range of accuracy with limited changes suggested.

The results of the ranging exercises determined the contingency for mine gate, on site rail, and sustaining capital fall within the 15% allowable contingency in a PFS. Contingency is developed for the Operating Cost estimate and applied within the economic analysis and economic evaluation modelling.

The culmination of the ranging exercises resulted in contingencies appropriate to prefeasibility accuracy, which were developed for the Operating Cost estimate and applied within the economic analysis, decision evaluation modelling.

The final resulting estimate that was utilized in the cost analysis was reviewed and endorsed by the operating cost estimate owner and deemed suitable for use in the opinion of the qualified person within the accuracy stated within this document.

18.2 Capital Cost

18.2.1 Capital Cost Estimate

Capital cost estimating is the predictive process used to quantify, cost, and price the resources required by the scope of an investment option, or project. The basic estimating steps are to understand the scope of the activity to quantify the resources required; apply costs to the resources; apply pricing adjustments and organize the output in a structured way that supports decision-making.

The Jansen Stage 1 Capital Cost Estimate (Capex) was developed by BHP Canada, its consultants and engineering service providers. Communications, power, water, and natural gas are provided by provincial crown corporations. Connections to the water and natural gas infrastructure are complete from the previous phase. Permanent power and communications will be completed during the execution phase of the project. The optimized scope for Jansen Stage 1 comprises:

A fully lined Service shaft with permanent hoists capable of 1,750 tph, equipped with steel guides and loading/unloading to accommodate two 50-tonne skips and a 90-person service cage;

A fully lined Production shaft, known as Dalla Valle (DV) shaft. The existing sinking arrangement will undergo a hoist and headframe changeover to accommodate the interim hoisting requirements for the lateral connection of the two shafts and subsequent shaft pillar development. The DV shaft will also serve as secondary personnel and materials movement as well as second egress and return air ventilation circuit. This shaft will be fully equipped in subsequent stages;

A shaft pillar area with skip loading facilities, conveyor networks, raw ore storage bin (vertical), remote storage area (horizontal), refuge stations, workshops, materials management areas, offices, principal refuge chambers, mobile equipment battery charging stations, and parking areas;

Establishment of two mining districts that each contain two production panels and supporting development units, and are connected to the shaft infrastructure through conveyor networks;

Production and development mining equipment, including MF460 borers, extendable belt systems, continuous miners, batch haulage, and supporting fleet of underground personnel and service vehicles;

A 1,483 tph ore processing plant including:

- Raw ore handling, storage, and crushing
- Process mill building wet area comprising attrition scrubbing, desliming, flotation, and debrining
- Process mill building dry area comprising drying, screening, compaction, and glazing
- Tailings processing, crystallizer, and reagents
- Product handling, storage, screening, and loadout

Non-process infrastructure, including a tailings management area, administration building, warehousing, workshops, utilities and rail.

The majority of the direct cost estimate is based on engineering designs which include design drawings, 3D models, equipment, and instrument lists based on process flow diagrams and piping and instrumentation diagrams, and other engineered quantities. The capex estimate includes quantities for common indirects, implementation contractor services (EPCM), owner's team that are based on personnel requirements for the duration of the project. Provincial sales taxes are calculated based on Saskatchewan tax regulations. Escalation estimates during execution are calculated based on IHS Markit indexes for various commodities and labour types.

The majority of the direct bulks and equipment supply pricing is based on budget pricing from the market. Some of the packages were at very advanced stages of development thus had been awarded to the vendors at the time of study completion. The majority of the direct trade labour rates are based on input from the tier 1 construction contractors as well as the negotiated project labour agreement with the trade unions. In the opinion of the Qualified Person, based on the engineering, execution schedule, project execution plan, market pricing and labour pricing information available at the time of study, the capex estimate includes all required elements of cost to cover the defined scope and is appropriate for the project.

Total Jansen Stage 1 capex summary is as follows (Table 18-2). Sunk costs are exclusive; economic evaluation is performed using go forward costing.

Table 18-2: Jansen Stage 1 Capex by Area, Real CA\$M⁶

Description	Total Sunk Projected at end of FY22	Total to go FY23 Onwards	Grand Total Capex
Mine	131	1,927	2,058
Mill No. 1	45	2,002	2,047
Non-Process Infrastructure	92	862	954
Owners costs, and Operational Readiness Costs	45	409	455
Total Installed Cost (TIC)	312	5,201	5,513

Total sunk cost for FY22 (Jul-2021 to Jun-2022) in the above table is based on the capex input calculated in mid CY2021 for valuation purposes and may differ from the actuals by end of the FY22. All costs in Table 18-2 are Real CA\$M and excludes escalation and inflation.

18.2.2 Basis and Accuracy Level for Cost Estimates

The majority of the quantities are developed from design drawings, 3D models, equipment, and instrument lists based on process flow diagrams, piping and instrumentation diagrams, and other engineered quantities. The majority of the pricing of bulks and plant equipment is sourced from the market.

The uncertainty and risk analysis for capex has been facilitated by a 3rd party team to remove potential bias from the ranging process, however BHP Canada led the effort for model and results. In the opinion of the Qualified Person, the process undertaken for ranging is appropriate and based on the project information available at the time of study, covers for all the uncertainties and risks that the project may be subject to during execution. The team that ranged the risks and uncertainties consisted of both internal and external subject matter experts while applying the ranging methodology as described below:

- Estimate roll-up of cost and schedule
- Solicitation of ranges from various internal and external subject matter experts
- Range modelling and analysis
- Incorporating Jansen Independent Peer Review recommendations
- Final results and reporting

⁶ - The sole purpose of the presented information above is to demonstrate the economic viability of the mineral reserves for the purposes of reporting in accordance with S-K 1300 only and should not be used for other purposes. The annual cash flow data was prepared based upon Pre-Feasibility-level studies and the historic average prices and costs described in this Technical Report Summary; it is subject to change as assumptions and inputs are updated. The information presented does not guarantee future financial or operational performance. The presented information contains forward-looking statements. Please refer to "Note Regarding Forward Looking Statements" at the front of this Technical Report Summary.

Uncertainties and risks are quantified by the following ranging categories:

- Scope of work
- Labour or service rates
- Labour productivity
- Supply rates of equipment and bulks
- Discrete project risks

The culmination of the ranging inputs available at the time of risks and uncertainties assessment resulted in a total installed cost (TIC) of Real CA\$5,513M. This represents an expected contingency of up to but not exceeding 15 per cent of the total installed cost. The accuracy range around the expected overall capex of Real CA\$5,513M is +/-25 per cent. In the opinion of the Qualified Person, based on the technical information available and associated ranging on this information at the time, resulting contingency and ranges are appropriate for the project to cover for uncertainties and risks during execution.

19 Economic Analysis

19.1 Key assumptions, parameters and methods used

The economic analysis presented in this section is based on annual cash flow projections including sales revenue (sales point FOB Mine), operating and closure costs, capital expenditures, royalties, income and production taxes.

19.1.1 Mine Plan Physicals

The mine production is modelled on an expected basis. The expected value is considered to be the most likely outcome when considering a range and likelihood of possible scenarios. The Expected run-of-mine (RoM) production is 11.45 Mtpa, life of mine grade of 24.8 per cent, recovery of 92 per cent and a concentrate of 60.4 per cent K₂O resulting in a life of mine average of 4.35 Mtpa KCl. The development of the reserves generated is available in Section 12 and the mining profile is presented in Sections 13 and 14. Jansen expected annual production is presented in Figure 19-1: Jansen planned annual production of finished product.

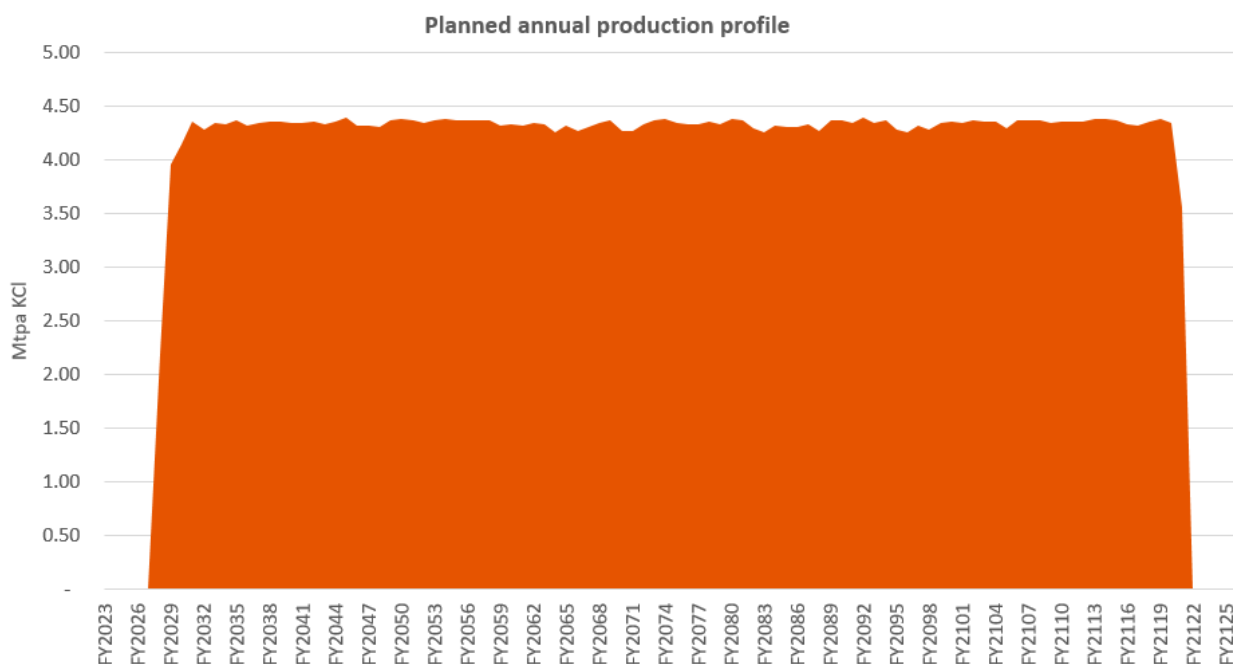


Figure 19-1: Jansen planned annual production of finished product⁷

⁷ - The sole purpose of the presented information above is to demonstrate the economic viability of the mineral reserves for the purposes of reporting in accordance with S-K 1300 only and should not be used for other purposes. The annual cash flow data was prepared based upon Pre-Feasibility-level studies and the historic average prices and costs described in this Technical Report Summary; it is subject to change as assumptions and inputs are updated. The information presented does not guarantee future financial or operational performance. The presented information contains forward-looking statements. Please refer to "Note Regarding Forward Looking Statements" at the front of this Technical Report Summary.

19.1.2 Potash Price

The sales point is assumed as Mine gate with annual revenue determined by applying the through cycle historic average price, FOB Mine, of US\$338/t to the annual life of mine production. The development of the historic average pricing is outlined in Section 16 of this document.

19.1.3 Foreign Exchange Rate

Inputs into the economic analysis are primarily in Canadian dollars with some United States dollars inputs. An average foreign exchange rate for the preceding three financial years (July 2018 to June 2021) of 1.32 CA\$/US\$ was provided by the registrant to convert and present cash flows in US dollars.

19.1.4 Capital and Operating Costs

Capital costs (refer Section 18.2) prior to FY2023 have been treated as sunk costs and are not included in the analysis. Capital expenditure is aligned with mine gate prices and therefore exclude all port capital requirements.

Sustaining capital is estimated over the life of mine at an average rate of US\$13/t KCI (refer Section 18.1).

The average operating cost over the life of mine is estimated to be US\$61/tonne (refer Section 18.1). Operating costs are aligned with mine gate prices and therefore exclude all port cost.

19.1.5 Closure Costs

Closure and rehabilitation costs are included in the economic analysis following the end of mine life (refer Section 17.5 Closure Planning).

19.1.6 Royalties and Taxes

BHP Canada's potash mining operations will be subject to the following royalties and taxes in Canada:

Saskatchewan Crown Royalties: Royalties of 3 per cent of the value of potash produced based on the average price realized by the producer in the year as determined by revenues and sales under The Potash Production Tax Regulations.

Saskatchewan Resource Surcharge: The Resource Surcharge is a corporate capital tax levied at a rate of 3 per cent of the value of sales of potash in Saskatchewan.

Saskatchewan Municipal and School Taxes: Saskatchewan property taxes are levied by municipal councils and school boards to support local infrastructure and school programs.

Saskatchewan Potash Production Tax: The Government of Saskatchewan imposes a Potash Production Tax comprising two components, a Base Payment and a Profit Tax.

Corporate Income Taxes: The Government of Canada and the Government of Saskatchewan charge corporate income tax at rates of 15 per cent and 12 per cent, respectively, for a combined rate of 27 per cent of taxable income for the year. Saskatchewan Crown Royalties, Resource Surcharge, Municipal and School taxes, and Potash Production Tax are deductible for Corporate Income Tax purposes.

19.1.7 Valuation Assumptions

Discounted annual cash flows are calculated using a 6.5 per cent real, post-tax discount rate at a valuation date of 30 June 2022. The discount rate has been provided by the registrant for utilisation in the economic analysis and is based on the average of weighted average cost of capital disclosures by brokers, adjusted where required for inflation of 2.0 per cent per annum.

19.2 Results

Results of the economic analysis based on the LoA production schedule of Jansen Stage 1 mineral reserves is summarised in Figure 19-2. Total cash flow forecast of US\$60.6 billion, discounted to June 2022 at 6.5 per cent results in a net present value (NPV) of US\$5.5 billion. Refer to Table 19-1

Table 19-1.

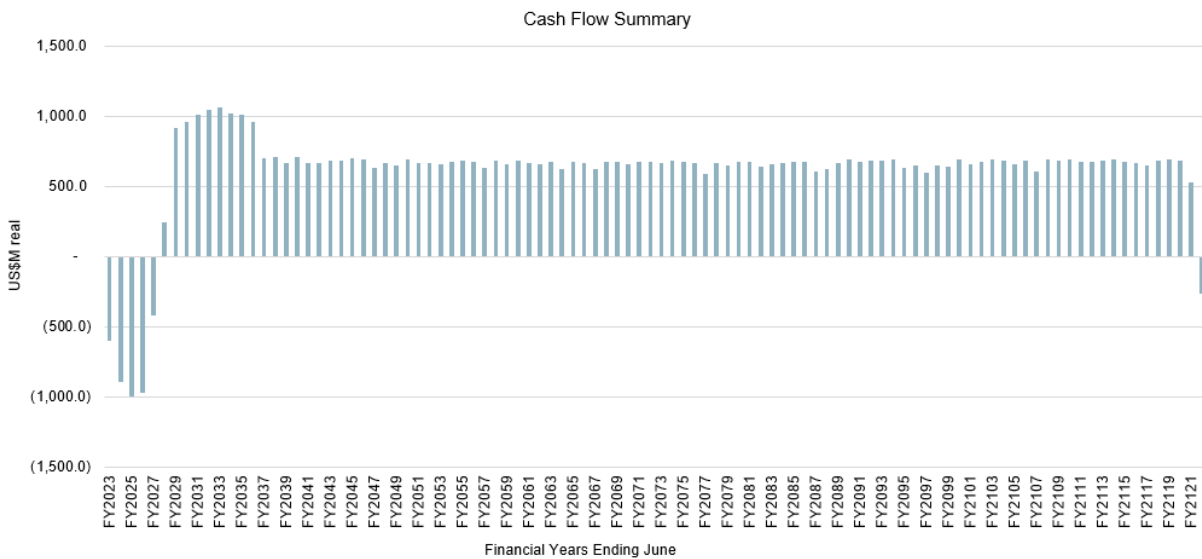


Figure 19-2: Cash Flow summary⁸

⁸ - The sole purpose of the annual cash flow data presented above is to demonstrate the economic viability of the mineral reserves for the purposes of reporting in accordance with S-K 1300 only and should not be used for other purposes. The annual cash flow data was prepared based upon Pre-Feasibility-level studies and the historic average prices and costs described in this Technical Report Summary; it is subject to change as assumptions and inputs are updated. The information presented does not guarantee future financial or operational performance. The presented information contains forward-looking statements. Please refer to “Note Regarding Forward Looking Statements” at the front of this Technical Report Summary.

Table 19-1: Cash Flow Summary⁹

Jansen Stage 1 Mineral Reserve Cash Flow Summary US\$ billion	
Revenue	136.6
Operating costs	(24.7)
Capital expenditures	(9.3)
Closure and rehabilitation	(0.3)
Taxes	(41.8)
After-tax cash flow	60.6
Net present value (6.5%, Jul-22)	5.5

The annual projected cash flow presented in Figure 19-2 includes all closure and rehabilitation related annual cash flows summed after the final year of mineral reserve production.

The internal rate of return (IRR) is 15.2 per cent and the payback period is 5 years following first production. It is the Qualified Person's opinion that extraction of the mineral reserve is economically viable.

19.3 Sensitivity Analysis

Economic sensitivity analysis results are presented in Table 19-2: Results of sensitivity analysis are based on variations in significant input parameters and assumptions.

Table 19-2: Results of sensitivity analysis⁹

NPV US\$ billion	-10%	Reference	+10%
Potash price	4.5	5.5	6.5
Throughput	4.5	5.5	6.5
Grade	4.5	5.5	6.5
Recovery	4.5	5.5	6.3
Exchange Rate	5.1	5.5	5.9
Capital expenditure – project costs	5.8	5.5	5.2
Operating costs	5.7	5.5	5.3

⁹ - The sole purpose of the presented information above is to demonstrate the economic viability of the mineral reserves for the purposes of reporting in accordance with S-K 1300 only and should not be used for other purposes. The annual cash flow data was prepared based upon Pre-Feasibility-level studies and the historic average prices and costs described in this Technical Report Summary; it is subject to change as assumptions and inputs are updated. The information presented does not guarantee future financial or operational performance. The presented information contains forward-looking statements. Please refer to "Note Regarding Forward Looking Statements" at the front of this Technical Report Summary.

20 Adjacent Properties

Figure 20-1 shows the properties and their owners adjacent to the Jansen project. BHP Canada owns additional potash dispositions north, south, and south-east of Jansen. Exploration on the KL 218, KL 211 (Burr) and on KL 205, KL 206, KL 207 (Boulder) properties includes 2D seismic surveys followed by some 3D seismic surveys and limited drilling.

West of Jansen is Nutrien's Lanigan operation (KLSA 001). Publicly available NI 43-101 reports indicate that the Lanigan operation has extracted potash from the same LPL sub-member as Jansen is planning to mine since production began in 1968. Since 2007 the Lanigan operation has also expanded mining to the UPL sub-member. Lanigan currently operates three disposal wells that inject waste brine into the Winnipeg and Deadwood formations.

Based on the Saskatchewan Ministry of Energy and resources information the KL 282 Potash disposition north, north-east of Jansen is owned by Canada Golden Fortune Potash Corp. a wholly owned Canadian subsidiary of the Shanghai Jingdi Investment Ltd. company based in Shanghai, China. The company's website indicates that exploration activities at the property were limited to 2D seismic surveys.

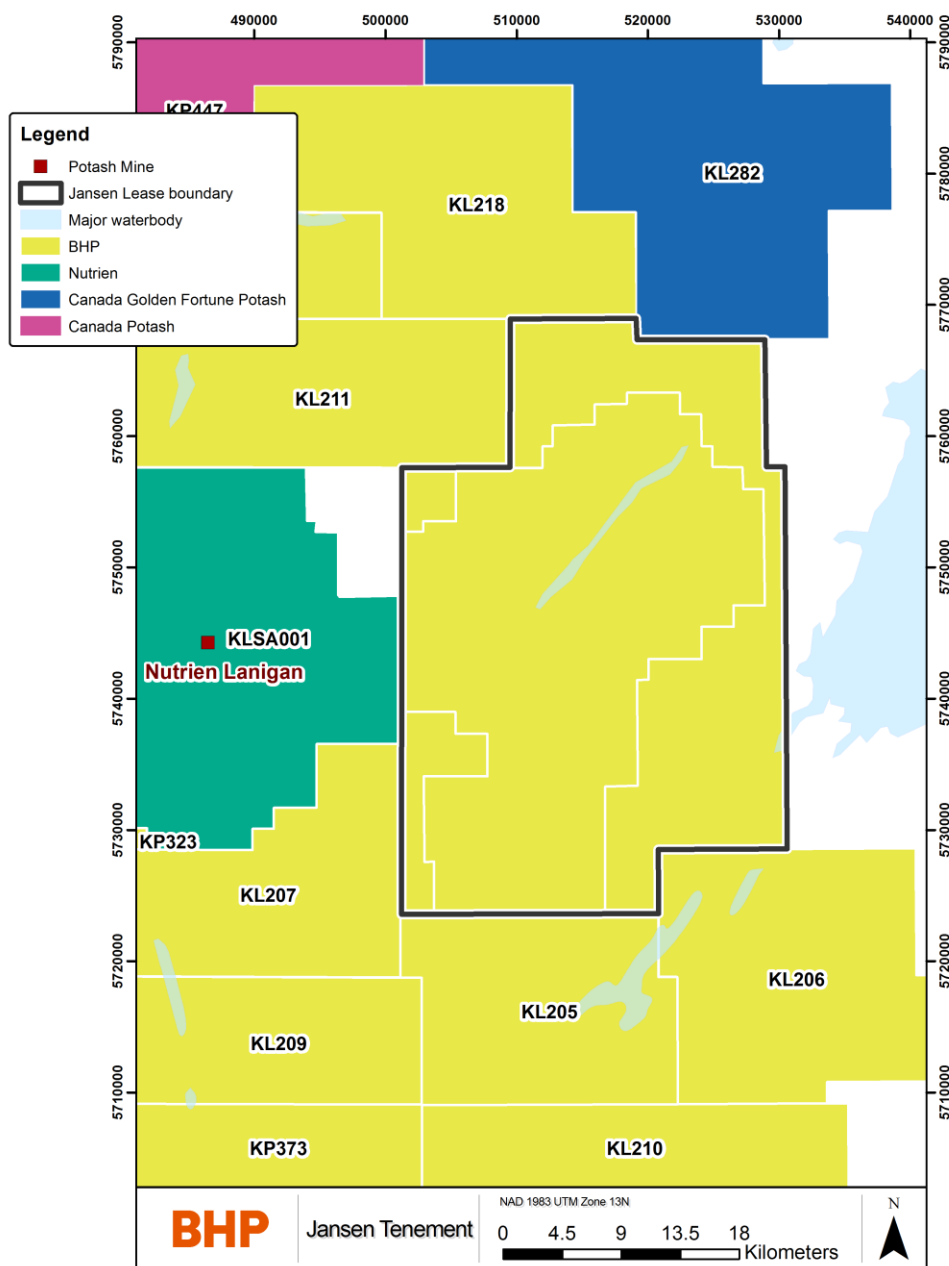


Figure 20-1: Jansen lease and neighbouring potash dispositions and properties.

21 Other Relevant Data and Information

Annual Risk Reviews are conducted jointly by Assets and the BHP Resource Centre of Excellence to ensure significant and material risks to Tenure, Mineral Resources and Mineral Reserves are adequately managed. The Risk Review process identifies key reporting changes regarding the annual declaration of Mineral Resources and Mineral Reserves and agreed actions requiring completion prior to BHP's annual reporting. Issues and opportunities identified during the Risk Reviews inform the Annual Assurance Plan and scopes for potential Controls Effectiveness Collaborative Assessment reviews and identify good practice that can be shared across BHP.

22 Interpretation and Conclusions

22.1 Mineral Resources

The Jansen Mineral Resources are based on available historical data and on an extensive exploration program conducted by BHP Canada at the Jansen project. Knowledge gained by exploration in adjacent properties and other areas of the basin, from publicly available historical data, and from publicly available mining history also contributed to the assessment and classification of the Jansen resource. The limited number of drill hole intersections, core sample sizes, horizontal and vertical resolution of the seismic data are factors that introduce uncertainty into the Mineral Resources estimates. The impact of these were carefully considered during the estimation process and in the classification of the resource areas. It is the opinion of the Qualified Person, that based on the available data, the known limitations of the data, interpretations, and methodologies the Jansen Mineral Resources estimate is considered fit for purpose in supporting and for forming the basis of a Mineral Reserves estimate.

22.2 Mineral Reserves

Uncertainties that affect the reliability or confidence in the Mineral Reserve estimate include but are not limited to:

- Future macro-economic environment, including product prices and foreign exchange rate;
- Changes to operating cost assumptions, including labour costs;
- Ability to continue sourcing water from the Saskatoon South East Water Supply;
- Ability to preserve ongoing reliable power supply;
- Changes to mining, hydrogeological, geotechnical parameters and assumptions reflected in mining recovery;
- Ability to maintain environmental and social license to operate;
- Integrity of the shaft liner beyond the design life of 70 to 80 years.

Confidence in the Mineral Reserve is reflected in the applied reserve classifications in accordance with the US SEC S-K 1300 with factors influencing classification including but not limited to mining methods, processing methods, economic assessment and other life of asset and closure assessments.

In the opinion of the Qualified Person, the positive project NPV provides confidence in the Mineral Reserve estimate and the supporting mine plan, under the set of assumptions and parameters used in which they were developed. The Probable Mineral Reserve classification considers the Measured classification of the Mineral Resources classification and the uncertainty of the mining factors.

23 Recommendations

The Jansen project is currently in Execution phase. First saleable product is expected in 2027, with construction expected to take six years. There are no current work plan recommendations for the next financial year outside of the planned Jansen Stage 1 project execution.

24 References

The list of the references cited in this report is given below.

BHP (2021) Press Release. BHP approves investment in Jansen Stage 1 potash project. Retrieved 03 March 2022.

Fuzesy, A. (1982). *Potash in Saskatchewan, Saskatchewan Industry and Resource Report 181*

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Mackintosh, A. D. and McVittie, G. A. (1983). *Geological anomalies observed at the Cominco Ltd. Saskatchewan potash mine; in McKercher, R.M. (ed.), Potash 83 Potash Technology – Mining, Processing, Maintenance, Transportation, Occupational Health and Safety, Environment, Pergamon Press Toronto, pp.59-64.*

Ministry of Environment (2018). *Saskatchewan Potash Industry Brine Pond Freeboard Guidelines and Reporting Requirement.*

The Oil and Gas Conservation Regulations, (1985)

The Environment Assessment Act. Saskatchewan

Mineral Industry Environmental Protection Regulations, Saskatchewan

Potash Production Tax and Crown Royalty:

<https://publications.saskatchewan.ca/api/v1/products/112630/formats/126664/download>

25 Reliance on Information Provided by the Registrant

The Qualified Persons have relied on information provided by BHP in preparing its findings and conclusions regarding certain aspects of modifying factors, which are listed in Table 25-1.

Table 25-1: Reliance on Information Provided by the Registrant

Category	Report Item/ Portion	Portion of Technical Report Summary	Disclose Why the Qualified Person Considers it Reasonable to Rely upon the Registrant
Marketing Plans	Section 16.1	Market Information and Market Entry Strategies	Based on industry experience to date, the marketing plans provided by BHP appear to be reasonable for a new market entrant.
Marketing Information	Section 16.1	Information concerning markets	Information maintained by BHP through a specialist Market Analysis and Economics team.
Marketing	Section 16.2	Contracts required to develop the property	Information maintained by a dedicated Supply team within BHP.
Environmental matters	Section 17.1 Section 17.3	Environmental Studies and Impact Assessments Project Permitting Requirements	Matters related to environmental studies and permitting are undertaken by professional teams within BHP.
Environmental matters	Section 17.5	Closure Planning	Matters related to environmental studies are undertaken by professional teams within BHP. The closure cost estimate represents future costs based on current conceptual expectations of site future conditions. Closure management plans are regularly reviewed and updated to ensure relevancy in current context.
Plans for local groups	Section 17.4 Section 17.7	Social Plans and Agreements with Local groups, Local procurement and Hiring	Matters related to social plans, agreements with local groups, local procurement and hiring are managed by dedicated professional teams within BHP.
Macro-economic Assumptions	Section 19	Foreign Exchange rates (FX) and discount rates	Matters related to discount rate, FX rates, and interest rates are maintained by financial professionals within BHP and the accounting practices are externally audited annually. The discount and FX rates appear appropriate and in line with current market conditions.
Governmental factors	Section 19.1	Royalty and taxation	These are external factors that BHP has to comply with and data is maintained by financial professionals within BHP