

# **Uranium Development & Exploration**

The Athabasca Basin, Northern Saskatchewan

November 2018 | Investor Update



# **Cautionary Statements & References**

This presentation and the information contained herein is designed to help you understand management's current views, and may not be appropriate for other purposes. This presentation contains information relating to other companies and provincial infrastructure, and the plans and availability thereof, derived from third-party publications and reports which Denison believes are reliable but have not been independently verified by the Company.

#### Certain information contained in this presentation constitutes "forward-looking information", within the meaning of the United States Private Securities Litigation Reform Act of 1995 and similar Canadian legislation concerning the business, operations and financial performance and condition of Denison.

Generally, these forward-looking statements can be identified by the use of forward-looking terminology such as "plans", "expects", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates", or "believes", or the negatives and / or variations of such words and phrases, or state that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur", "be achieved" or "has the potential to". In particular, this presentation contains forward-looking information pertaining to the results of, and estimates, assumptions and projections provided in, the PFS, including future development methods and plans, market prices, costs and capital expenditures; assumptions regarding Denison's ability to obtain all necessary regulatory approvals to commence development; Denison's percentage interest in its projects and its agreements with its joint venture partners; and the availability of services to be provided by third parties. Statements relating to "mineral resources" are deemed to be forward-looking information, as they involve the implied assessment, based on certain estimates and assumptions that the mineral resources described can be profitably produced in the future.

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**Readers should not place undue reliance on forward-looking statements**. The forward-looking information contained in this presentation is expressly qualified by this cautionary statement. Any forward-looking information and the assumptions made with respect thereto speaks only as of the date of the September 24, 2018 press release to which this presentation relates. Denison does not undertake any obligation to publicly update or revise any forward-looking information sexcept as otherwise required by applicable legislation.

Cautionary Note to United States Investors Concerning Estimates of Measured, Indicated and Inferred Mineral Resources: This presentation may use the terms "measured", "indicated" and "inferred" mineral resources. United States investors are advised that while such terms are recognized and required by Canadian regulations, the United States Securities and Exchange Commission does not recognize them. "Inferred mineral resources" have a great amount of uncertainty as to their existence, and as to their economic and legal feasibility. It cannot be assumed that all or any part of an inferred mineral resource will ever be upgraded to a higher category. Under Canadian rules, estimates of inferred mineral resources may not form the basis of feasibility or other economic studies. United States investors are cautioned not to assume that all or any part of measured or indicated mineral resources will ever be converted into mineral resource exists, or is economically or legally mineable.

#### **Qualified Persons**

The disclosure of the results of the PFS contained in this presentation was prepared and approved by Peter Longo, P. Eng, MBA, PMP, Denison's Vice-President, Project Development, who is a Qualified Person in accordance with the requirements of NI 43-101.

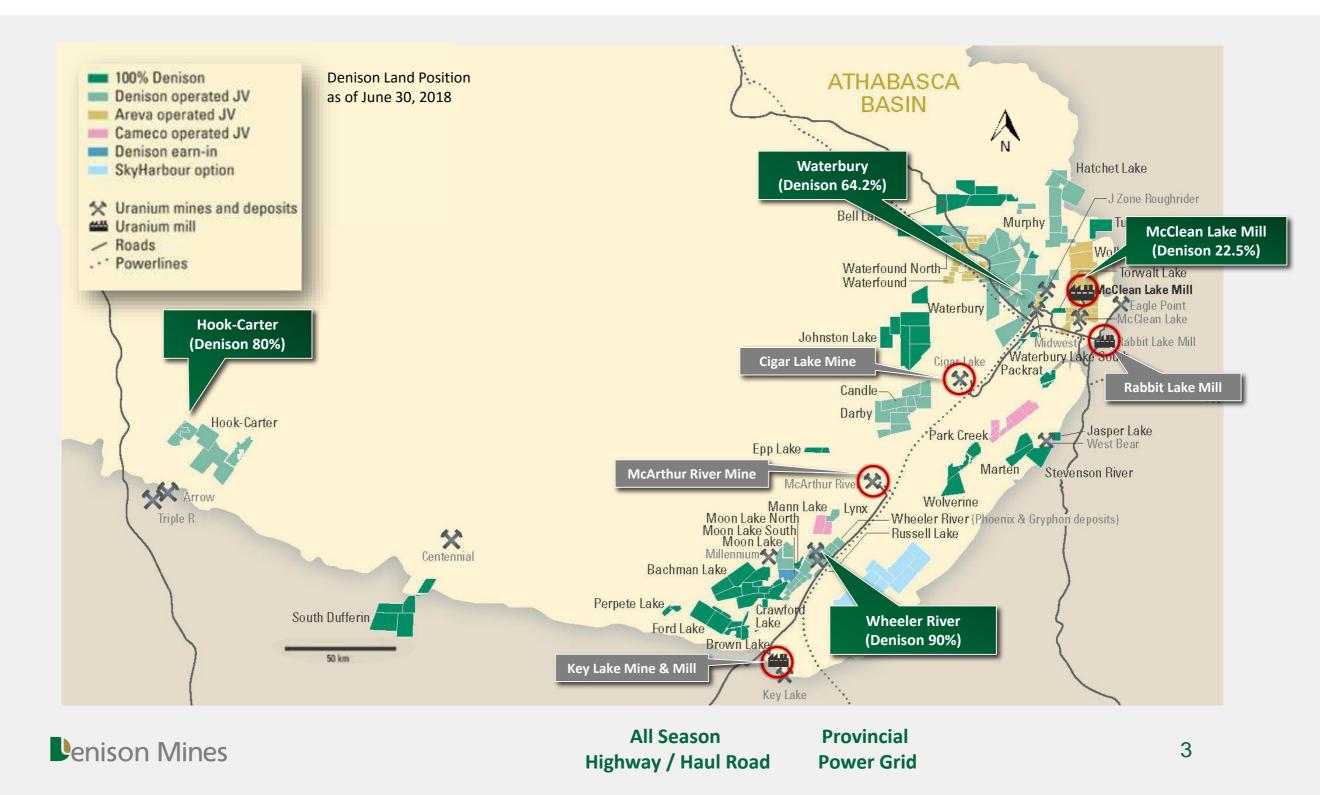
The disclosure of a scientific or technical nature regarding the Phoenix and Gryphon deposits, including the resources and reserves thereof, contained in this presentation was reviewed and approved by Dale Verran, MSc, P.Geo., Pr.Sci.Nat., Denison's Vice President, Exploration, who is a Qualified Person in accordance with the requirements of NI 43-101.

#### **Technical Reports**

For further details regarding the Wheeler River project, please refer to the Company's press release dated September 24, 2018 and the technical report titled "Prefeasibility Study for the Wheeler River Uranium Project, Saskatchewan, Canada" with an effective date of September 24, 2018. For a description of the data verification, assay procedures and the quality assurance program and quality control measures applied by Denison, please see Denison's Annual Information Form dated March 27, 2018. Copies of the foregoing are available on Denison's website and under its profile on SEDAR at www.sedar.com and on EDGAR at www.sec.gov/edgar.shtml.



# ~320,000 Hectares of Prospective Exploration & Development Ground Focused in the Infrastructure Rich Eastern Athabasca Basin



### Wheeler River Project Pre-Feasibility Study<sup>(1)</sup>

#### Highlights:

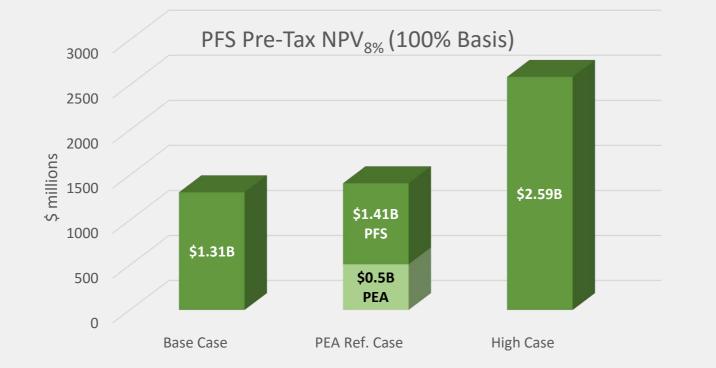
- Selection of In-Situ Recovery ("ISR") mining method for Phoenix with onsite processing at Wheeler River
- Phoenix estimated to have exceptionally low operating costs for an undeveloped uranium deposit globally US\$3.33/Ib U<sub>3</sub>O<sub>8</sub>
- Conventional UG Gryphon contributes additional low cost pounds – US\$11.70/Ib U<sub>3</sub>O<sub>8</sub>
- 109.4M lbs U<sub>3</sub>O<sub>8</sub> Probable Reserves
- 14 year mine life (7.8m lbs  $U_3O_8$ /year on avg.)
- Base-case pre-tax  $\mathsf{NPV}_{8\%}$  (100%) of \$1.31B
- Base-case pre-tax IRR of 38.7%
- Initial CAPEX of \$322.5M (100%)
- ✓ Recently announced completion of transaction to increase Denison's interest in the Project to 90%<sup>(2)</sup>



**P**enison Mines

**NOTES:** (1) See Denison news release dated September 24, 2018 for additional details regarding the PFS results. (2) See Denison' news releases from January 17, 2017, September 4, 2018 and October 29, 2018 for additional details.

### Wheeler River PFS: Ownership, uranium price assumptions, and sensitivities



Assumptions / Results <sup>(1)</sup>	Base Case	PEA Ref. Case	High Case
Uranium selling price	As above	US\$44/lb U <sub>3</sub> O <sub>8</sub>	US\$65/lb U <sub>3</sub> O <sub>8</sub>
Pre-tax NPV <sub>8%</sub> <sup>(2)</sup> (100% Basis)	\$1.31 billion	\$1.41 billion	\$2.59 billion
Pre-tax IRR <sup>(2)</sup>	38.7%	47.4%	67.4%
Pre-tax payback period <sup>(3)</sup>	~24 months	~ 15 months	~ 11 months

#### **Base Case Price Assumptions:**

- Phoenix Operation:
  - > ~US\$29/lb U<sub>3</sub>O<sub>8</sub> to US\$45/lb U<sub>3</sub>O<sub>8</sub>
  - UxC Spot price forecast
  - "Composite Midpoint" scenario
  - Stated in "constant" 2018 dollars
- Gryphon Operation:
  - >US50/lb U<sub>3</sub>O<sub>8</sub> fixed price

#### Comparison to 2016 PEA

- 2016 PEA provided pre-tax project NPV<sub>8%</sub> of \$513 million at fixed uranium price of US\$44/lb U<sub>3</sub>O<sub>8</sub>
  - PFS equivalent NPV<sub>8%</sub> at US\$44/lb
     U<sub>3</sub>O<sub>8</sub> (\$1.4 billion) represents +275%
     of pre-tax project NPV from PEA

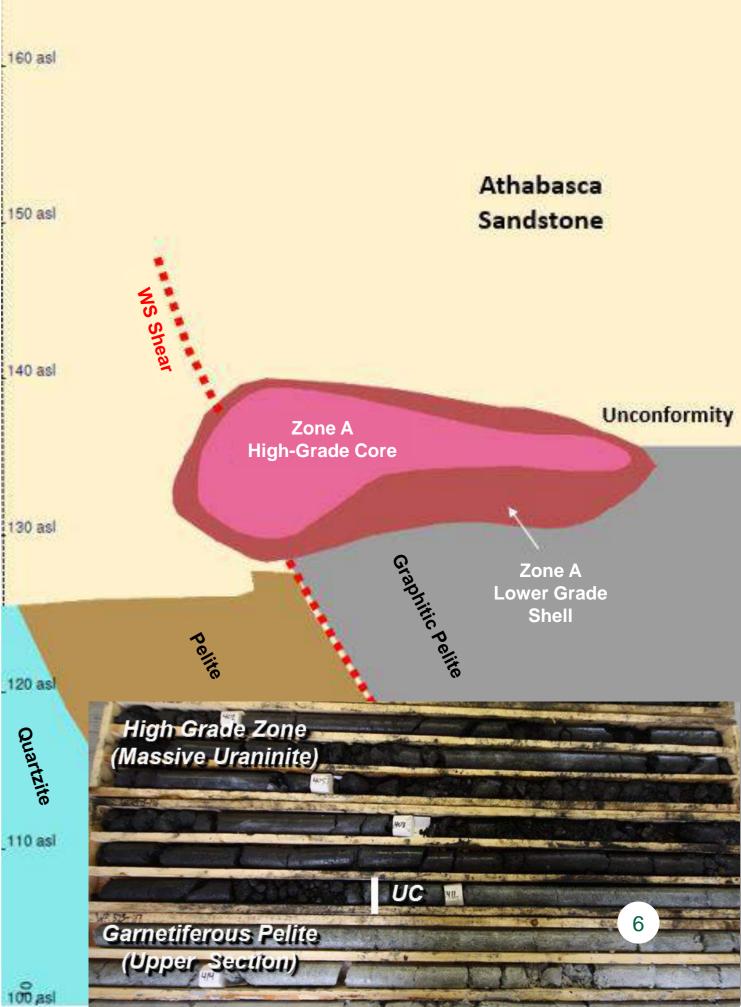
### Penison Mines

**NOTES:** (1) See Denison news release dated September 24, 2018 for additional details regarding the PFS results; (2) NPV and IRR are calculated to the start of pre-production activities for the applicable operation; (3) Payback period is stated as number of years to pay-back from the start of commercial production.

### Phoenix Geology: Unique uranium deposit with exceptionally high grades

#### Highlights<sup>(1)</sup>:

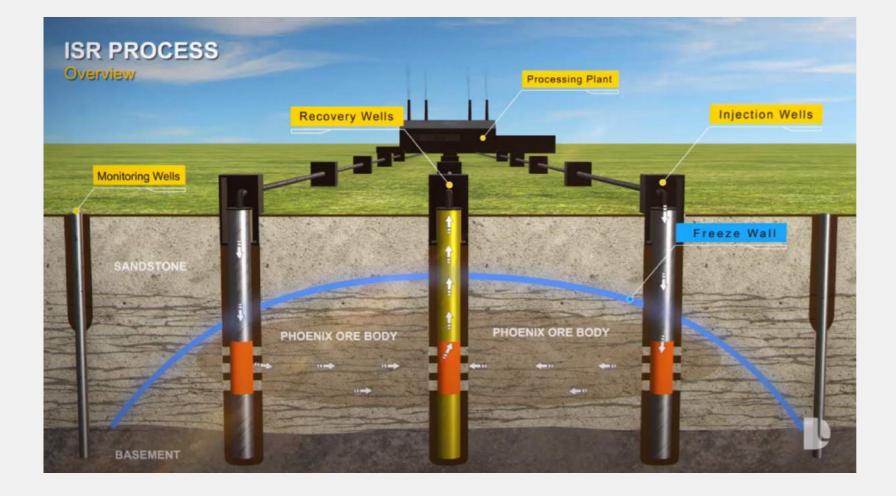
- Mineralization is situated at or immediately above the unconformity("UC")
- Two distinct zones Phoenix A + B
- Approximately 400m below surface
- 70.2 million pounds U<sub>3</sub>O<sub>8</sub> @ 19.14% U<sub>3</sub>O<sub>8</sub> Indicated mineral resources (166,400 tonnes)<sup>(2)</sup>
  - World's highest grade undeveloped uranium deposit
  - ≻Cut-off grade of 0.8% U<sub>3</sub>O<sub>8</sub>
  - ➤ 1.1M lbs U<sub>3</sub>O<sub>8</sub> in Inferred resources (8,600 tonnes @ 5.8% U<sub>3</sub>O<sub>8</sub>)<sup>(3)</sup>
- $\checkmark$  Geological setting is amenable to ISR mining



#### **P**enison Mines

**NOTES:** (1) See Denison news release dated September 24, 2018 for additional details regarding the PFS; (2) Indicated mineral resources are inclusive of Reserves; (3) The PFS does not include any economic analysis based on estimated Inferred mineral resources;

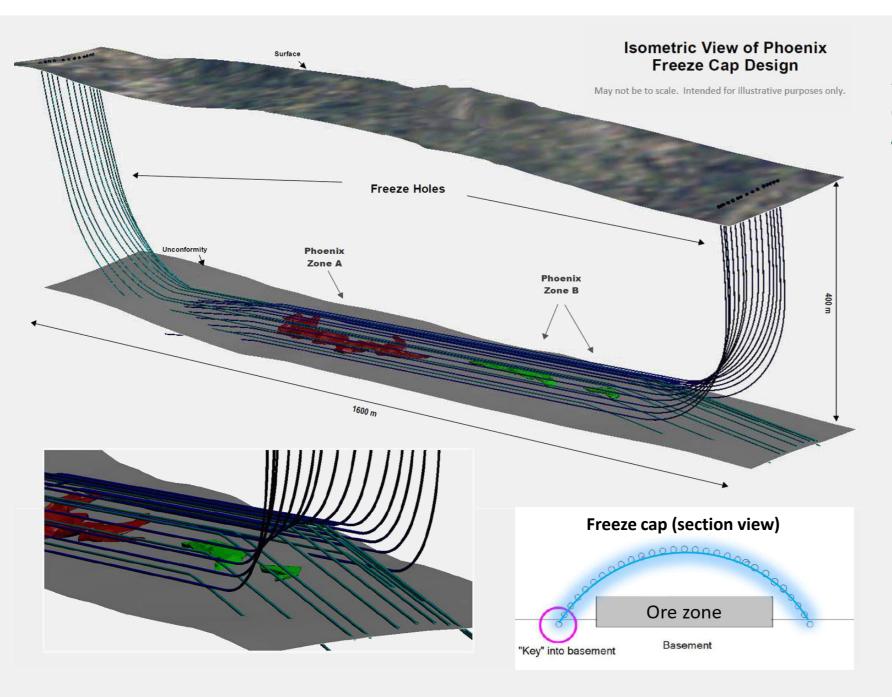
#### Phoenix Operation: Selection of ISR mining method



#### ISR Mining Process<sup>(1)</sup>:

- Mining solution (also known as "lixiviant") is pumped through a permeable orebody via injection well;
- Lixiviant dissolves the uranium as it travels through the orebody;
- Uranium bearing mining solution ("UBS") is pumped back to surface via recovery well;
- 4. UBS is sent to a processing plant on surface for chemical separation of the uranium and reconditioning of lixiviant;
- Lixiviant is returned back to well field for further production

### Phoenix Freeze Cap: Novel concept to contain lixiviant, using established technology



**Penison** Mines

Artificial freeze cap replicates confining layer typically required for ISR mining operations<sup>(1)</sup>

- Parallel cased holes drilled from surface and anchored into impermeable basement rock surrounding the Phoenix deposit
- Circulation of low-temperature brine solution through cased pipes will freeze groundwater in sandstone surrounding the deposit
- 10 metre thick freeze wall, together with basement rocks will encapsulate Phoenix deposit
- Eliminates common environmental concerns with ISR mining and facilitates controlled reclamation

### Phoenix Test Work<sup>(1)</sup>: Confirms suitability of ISR mining method

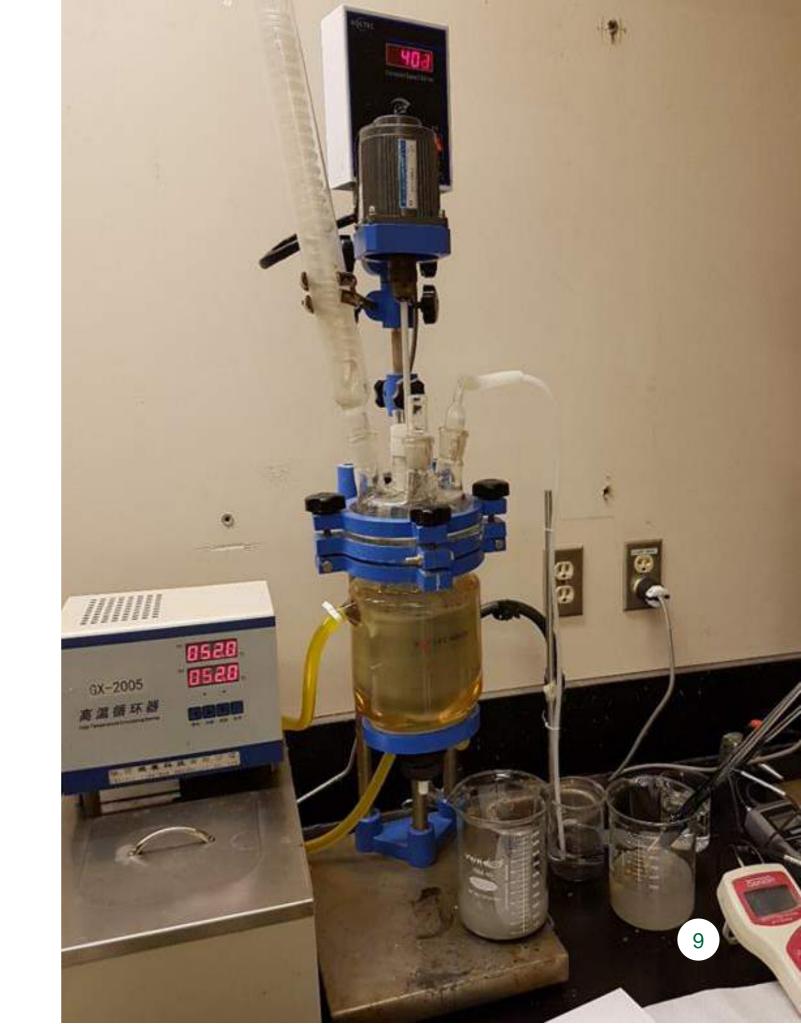
Field and laboratory work included drill hole injection, permeability, metallurgical leach, agitated leach and column testing

- Excellent Recoveries: High rates of recovery in extraction (+90%) and processing (98.5%)
- High Grade: Agitated leach and column tests returned uranium concentrations of 12 to 20 grams per litre (g/L) – significantly higher than conventional low-grade ISR operations
- High uranium concentrations in the mining solution, plus low level of impurities (deleterious elements), allows for direct precipitation of uranium

 ✓ No need for ion exchange or solvent extraction circuits = reduced costs

#### **P**enison Mines

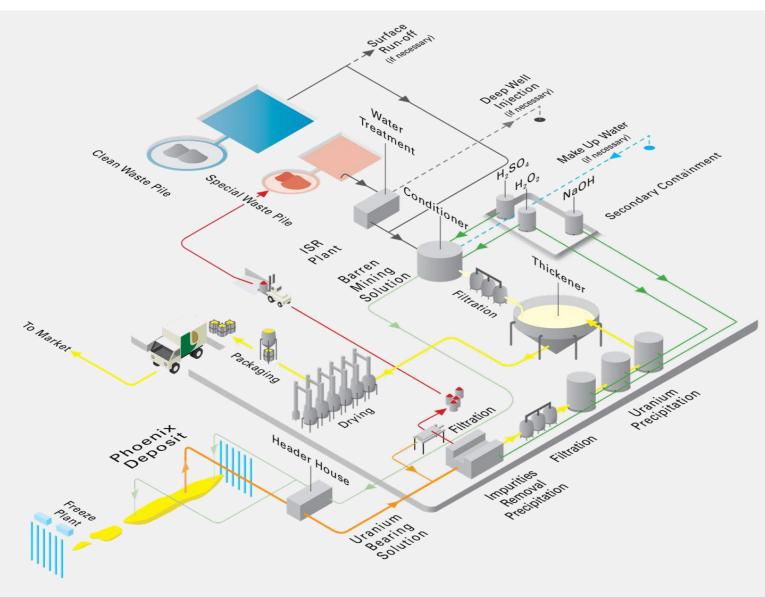
**NOTES:** (1) See Denison news release dated September 24, 2018 for additional details regarding the PFS results.



### Phoenix ISR Processing Plant:

**D**enison Mines

Closed loop system and simplified plant design eliminates the need for discharge

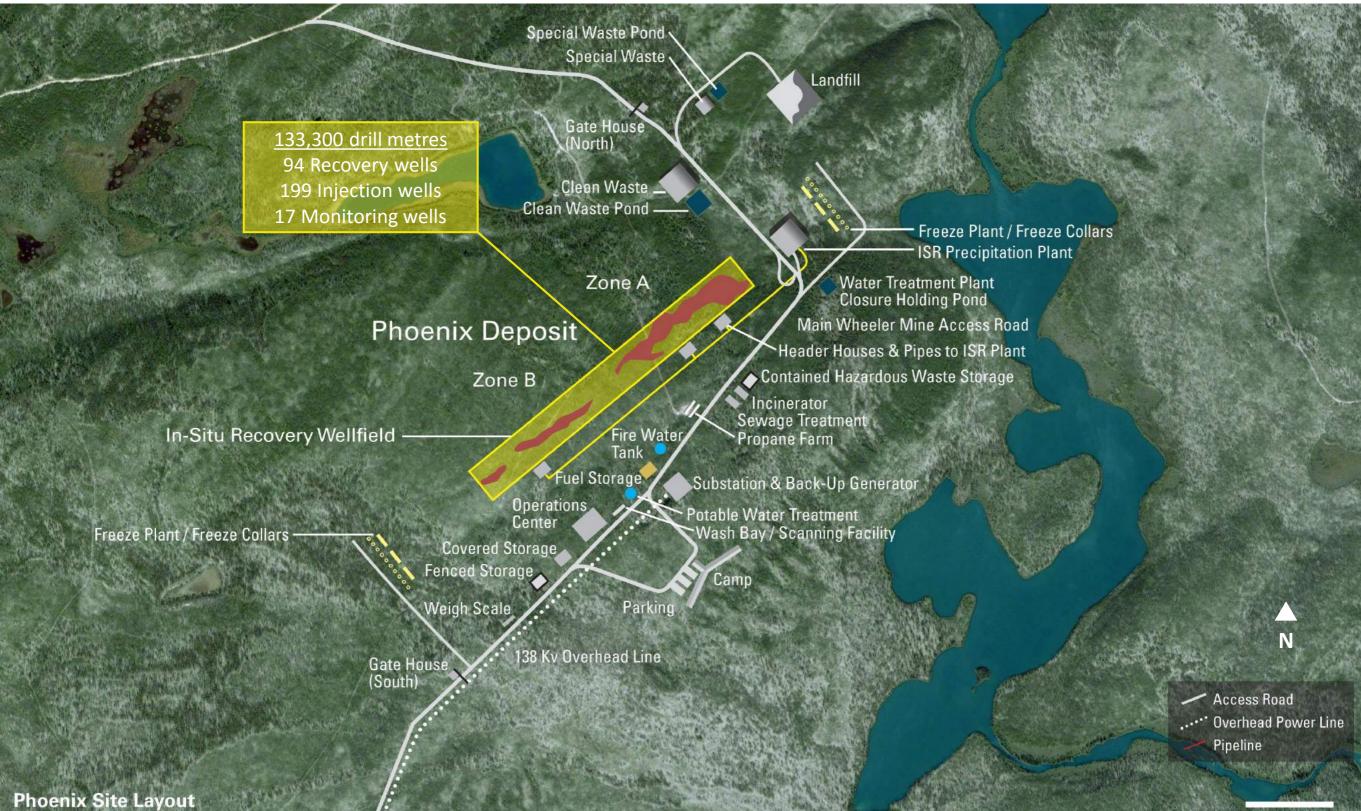


May not be to scale. Intended for illustrative purposes only.

#### **On-Site Processing Plant**<sup>(1)</sup>

- Designed for UBS concentrations of 10 g/L
- Throughput of 500 litres per min
- Annual production of up to 6 million lbs U<sub>3</sub>O<sub>8</sub>
- Closed loop system recycles mining solution and eliminates need for discharge of effluent
- No ion exchange or solvent extraction circuits
- Powered by Provincial power grid

#### Phoenix Operation: Proposed site layout highlighting ISR wellfield



Date: Sept. 2018 Source: Wheeler River Prefeasibility Study, (Sept. 2018)

### Phoenix Operation: ISR mining method delivers industry leading cost per pound $U_3O_8$

Phoenix Operation	PFS Result <sup>(1)</sup>		
Mine life	<b>10 years</b> (6.0 million lbs U <sub>3</sub> O <sub>8</sub> per year on average)		
Average cash operating costs	\$4.33 (US\$3.3	3) per lb U <sub>3</sub> O <sub>8</sub>	
Initial capital costs (100% basis)	\$322.5 million		
Operating margin <sup>(4)</sup>	<b>89.0%</b> at US\$29/lb U <sub>3</sub> O <sub>8</sub>		
All-in cost <sup>(2)</sup>	\$11.57 (US\$8.90) per lb U <sub>3</sub> O <sub>8</sub>		
Assumptions / Results	Base Case	High Case	
Uranium selling price	UxC Spot Price <sup>(3)</sup>	US\$65/lb U <sub>3</sub> O <sub>8</sub>	
Operating margin <sup>(4)</sup>	91.4%	95.0%	
Pre-tax NPV <sub>8%</sub> <sup>(5)</sup> (100%)	\$930.4 million	\$1.91 billion	

Pre-tax payback period<sup>(6)</sup>

#### **P**enison Mines

Pre-tax IRR<sup>(5)</sup>

**NOTES:** (1) See Denison news release dated September 24, 2018 for additional details regarding the PFS results; (2) All-in cost is estimated on a pretax basis and includes all project operating costs and capital costs, divided by the estimated number of total pounds  $U_3O_8$  to be produced; (3) Spot Price is based on the "Composite Midpoint" spot price scenario from UxC's UMO; (4) Operating profit margin is calculated as uranium revenue less operating costs, divided by uranium revenue. Operating costs exclude all royalties, surcharges and income taxes; (5) NPV and IRR are calculated to the start of pre-production activities for the Phoenix operation in 2021; (6) Payback period is stated as number of years to pay-back from the start of uranium production.

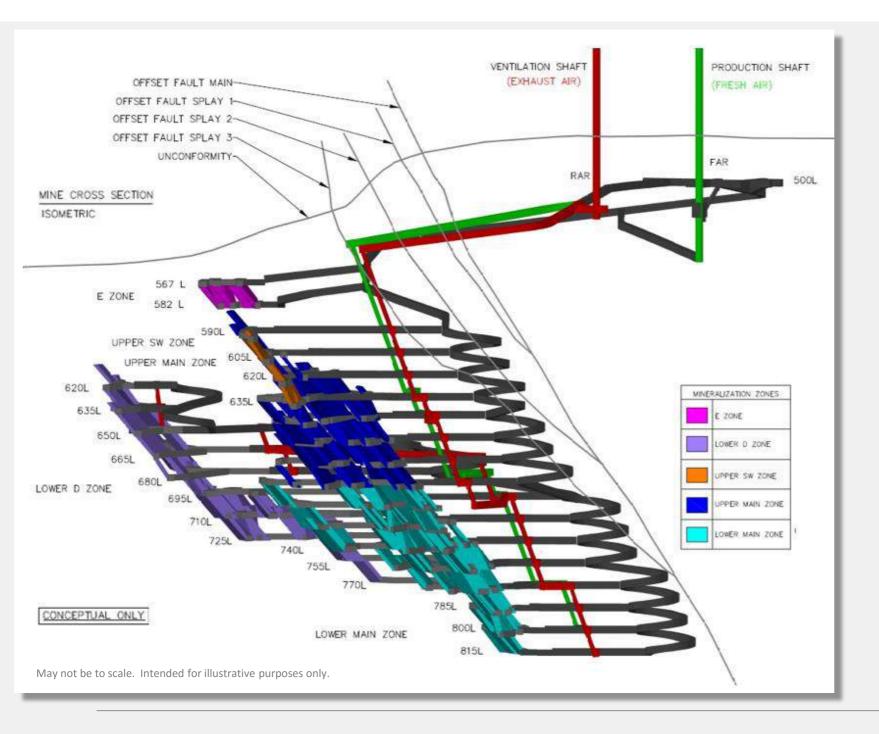
43.3%

~ 21 months

71.5%

~ 11 months

### Gryphon Operation: Additional low-cost production with conventional UG mining



(3) The PFS does not include any economic analysis based on estimated Inferred mineral resources.

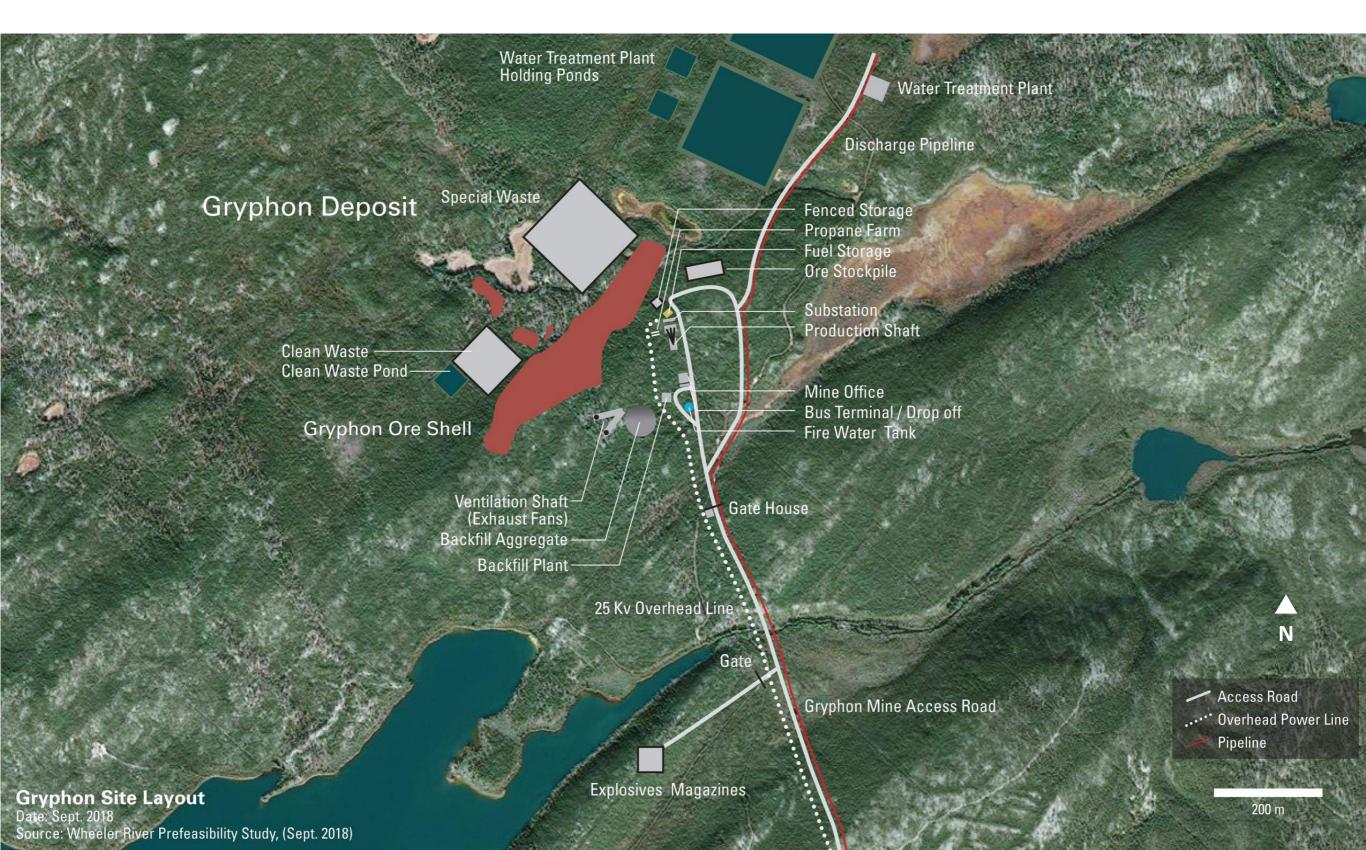
**Penison** Mines

#### Moderate grades and style of mineralization allows for conventional UG mining<sup>(1)</sup>

- 61.9 million pounds U<sub>3</sub>O<sub>8</sub> @ 1.7% U<sub>3</sub>O<sub>8</sub> Indicated mineral resources (1,643,000 tonnes)<sup>(2)</sup>
  - > 1.9M lbs U<sub>3</sub>O<sub>8</sub> in Inferred resources  $(73,000 \text{ tonnes } @ 1.2\% \text{ U}_3\text{O}_8)^{(3)}$
- Mineralization is hosted in basement rock, located 520 to 850 metres below surface - access via shaft and ramp
- Longitudinal retreat longhole stoping with 15 metre sub-level intervals
- 600 tonnes per day production
- · Generally constrained by available capacity at McClean Lake mill

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#### Gryphon Operation: Minimal site infrastructure owing to toll milling & Phoenix site



#### Gryphon Operation: Assumes processing at 22.5% Denison owned McClean Lake mill<sup>(1)</sup>

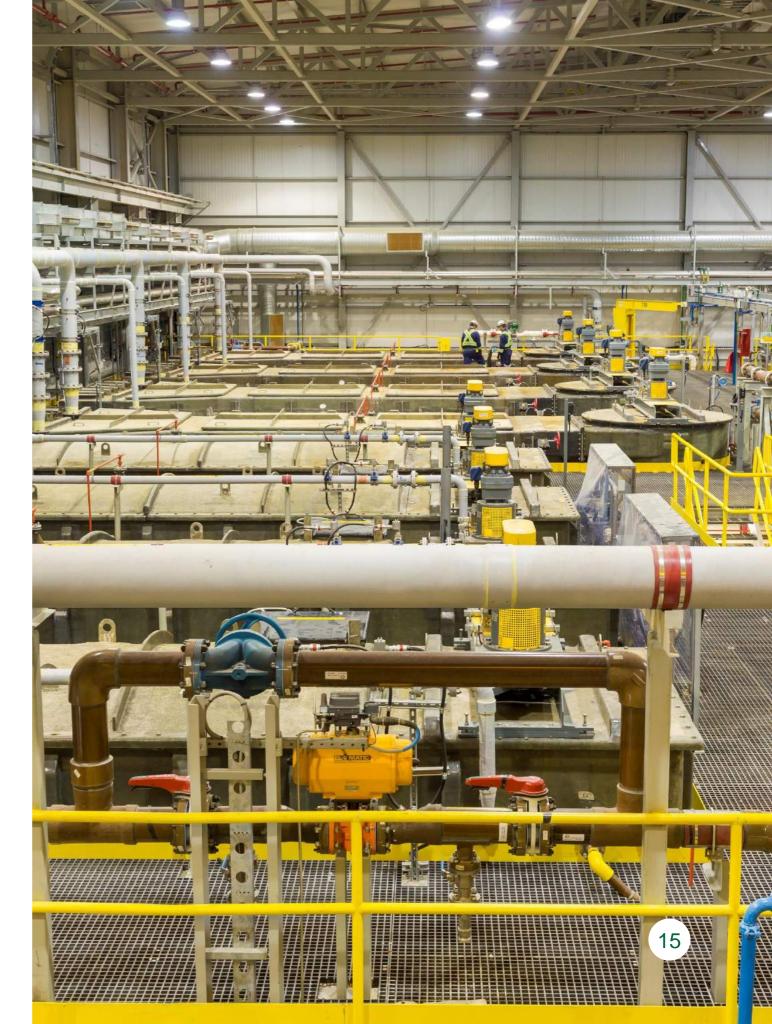
#### **Processes +12% of global uranium production:**

 Operating under 10-year license granted by Canadian Nuclear Safety Comm. in 2017

> Licensed for 24M lbs U<sub>3</sub>O<sub>8</sub> / year

- PFS assumes Cigar Lake production will decline to 15M lbs U<sub>3</sub>O<sub>8</sub>/year (Phase 2) at time of co-processing with Gryphon
  - > Up to 9M lbs  $U_3O_8$ /year excess capacity
- 98.2% estimated recovery from Gryphon under current McClean operating conditions
- Required upgrades: expansion of leaching circuit, addition of filtration system and tailings thickener, expansion of acid plant, various misc. upgrades, plus Highway 914 extension.
- Ownership: 22.5% Denison, 70% Orano (formerly "Areva"), 7.5% OURD





### Gryphon Operation: Additional low-cost production with conventional UG mining

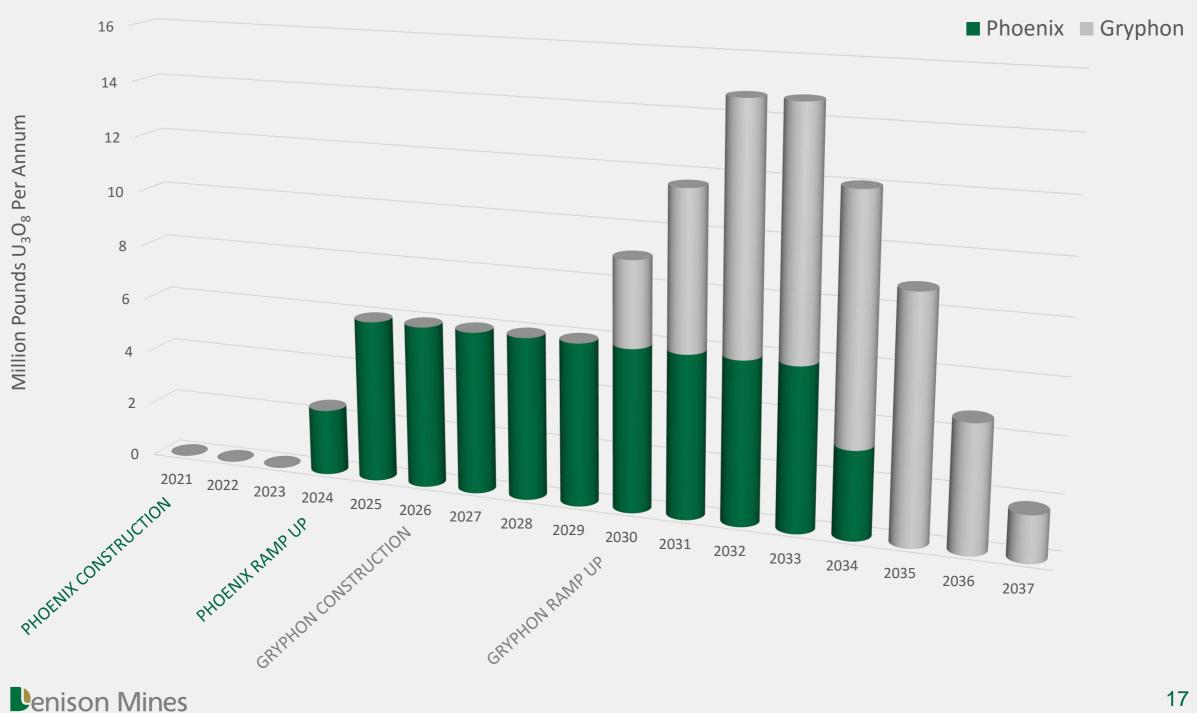
Gryphon Operation	PFS Result <sup>(1)</sup>
Mine life	<b>6.5 years</b> (7.6 million lbs U <sub>3</sub> O <sub>8</sub> per year on average)
Average cash operating costs	\$15.21 (US\$11.70) per lb U <sub>3</sub> O <sub>8</sub>
Initial capital costs (100% basis)	\$623.1 million
Operating margin <sup>(3)</sup>	<b>77.0%</b> at US\$50/lb U <sub>3</sub> O <sub>8</sub>
All-in cost <sup>(2)</sup>	\$29.67 (US\$22.82) per lb U <sub>3</sub> O <sub>8</sub>

Assumptions / Results	Base Case	High Case
Uranium selling price	US\$50/lb U <sub>3</sub> O <sub>8</sub>	US\$65/lb U <sub>3</sub> O <sub>8</sub>
Operating margin <sup>(3)</sup>	77.0%	82.3%
Pre-tax NPV <sub>8%</sub> <sup>(4)</sup> (100%)	\$560.6 million	\$998.8 million
Pre-tax IRR <sup>(4)</sup>	23.2%	31.0%
Pre-tax payback period <sup>(5)</sup>	~ 37 months	~ 31 months



**NOTES:** (1) See Denison news release dated September 24, 2018 for additional details regarding the PFS results; (2) All-in cost is estimated on a pre-tax basis and includes all project operating costs and capital costs, divided by the estimated total number of pounds  $U_3O_8$  to be produced; (3) Operating profit margin is calculated as uranium revenue less operating costs, divided by uranium revenue. Operating costs exclude all royalties, surcharges and income taxes; (4) NPV and IRR are calculated to the start of pre-production activities for the Gryphon operation in 2026; (5) Payback period is stated as number of years to pay-back from the start of uranium production.

### Wheeler River PFS: 14 year mine life producing +7.5M lbs $U_3O_8$ per year on average<sup>(1)</sup>



NOTES: (1) See Denison news release dated September 24, 2018 for additional details regarding the PFS results.

# Wheeler River PFS<sup>(1)</sup>: Statement of Reserves and Denison indicative post-tax results

Denison has increased its ownership in the WRJV from 63.3% to 90% under two recently announced agreements with partners to the Wheeler River Joint Venture. See Denison press releases dated Jan 10, 2017, Sept 4, 2018 and Oct 29, 2018 for details.

#### **Reserves**<sup>(2, 3, 4, 7, 8)</sup>

Deposit	Class.	Tonnes	Grade	Lbs U <sub>3</sub> O <sub>8</sub>	Denison (63.3%)	Denison (90%)
Phoenix <sup>(5)</sup>	Probable	141,000	19.1% U <sub>3</sub> O <sub>8</sub>	59.7M	37.8M	53.7M
Gryphon <sup>(6)</sup>	Probable	1,257,000	1.8% U <sub>3</sub> O <sub>8</sub>	49.7M	31.5M	44.7M
Total	Probable	1,398,000	3.5%	109.4M	69.3M	98.4M

#### **Indicative Denison post-tax results**

Financial Results	Denison (63.3%)	Denison (90%)
Initial capital costs	\$204.1 million	\$290.3 million
Base case post-tax IRR <sup>(9)</sup>	31.8%	32.7%
Base case post-tax NPV <sub>8%</sub> <sup>(9)</sup>	\$506.4 million	\$755.9 million
Base case post-tax payback period <sup>(10)</sup>	~ 27 months	~ 26 months
High case post-tax IRR <sup>(9)</sup>	53.9%	55.7%
High case post-tax NPV <sub>8%</sub> <sup>(9)</sup>	\$1.01 billion	\$1.48 billion
High case post-tax payback period <sup>(10)</sup>	~ 12 months	~12 months



**NOTES:** (1) See Denison news release dated September 24, 2018 for additional details regarding the PFS; (2) Reserve statement is as of September 24, 2018; (3) CIM definitions (2014) were followed for classification of mineral reserves; (4) Mineral reserves are inclusive of mineral resources; (5) Mineral reserves for the Phoenix deposit are reported at the mineral resource cut-off grade of 0.8% U<sub>3</sub>O<sub>8</sub>. The mineral reserves are based on the block model generated for the May 28, 2014 mineral resource estimate. A mining recovery factor of 85% has been applied to the mineral resource above the cut-off grade; (6) Mineral reserves for the Gryphon deposit are estimated at a cut-off grade of 0.58% U<sub>3</sub>O<sub>8</sub> using a long-term uranium price of USD\$40/lb, and a USD\$/CAD\$ exchange rate of 0.80. The mineral reserves are based on the block model generated for the January 30, 2018 mineral resource estimate. The cut-off grade is based on an operating cost of CAD\$574/tonne, milling recovery of 97%, and 7.25% fee for Saskatchewan royalties. Mineral reserves include for diluting material and mining losses; (7) Mineral reserves are stated at a processing plant feed reference point; (8) Numbers may not add due to rounding; (9) NPV and IRR are calculated to the start of pre-production for the Phoenix operation in 2021; (10) Payback period is stated as number of months to pay-back from the start of uranium production.

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### The Infrastructure Rich Eastern Athabasca Basin

Existing infrastructure supports mining operations in proximity of Wheeler River:

- 4 licensed uranium mines (Cigar Lake, McArthur River, Eagle Point, McClean) + 3 licensed uranium mills (McClean, Key, Rabbit)
- Provincial power grid reliable, cost efficient, ability to power operation without emissions from / reliance on diesel fuel generators
- Existing Provincial highways / haul roads allows for transport of supplies, personnel, mine production, and finished goods
- Precedents set with local stakeholders

✓ Reduced risk and expectation of shorter timelines for regulatory approval





### Diversified Athabasca Basin Asset Base with Superior Development Leverage

#### Strategic Project Portfolio:

- 90% interest in Flagship Wheeler River project
   <sup>(1)</sup> largest undeveloped uranium project in infrastructure rich eastern Athabasca Basin
- 22.5% interest in operating McClean Lake
   Uranium Mill excess licensed capacity, +12%
   of global uranium production
- Interests in uranium resources at McClean Lake, Midwest, and Waterbury Lake
- ~320,000 hectares of prospective exploration ground in the Athabasca Basin
- ✓ Internal sources of cash flow from management services contract with Uranium Participation Corp. (TSX-U), and Denison Environmental Services (DES)

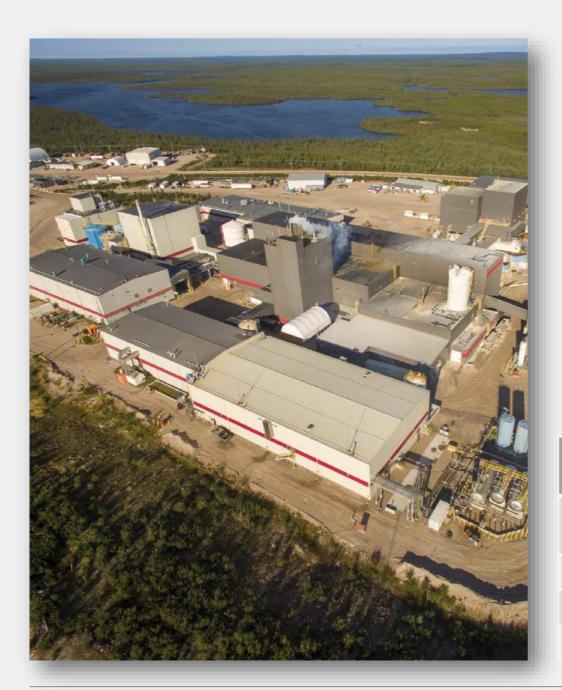
### **D**enison Mines



# Appendix: Diversified Project Portfolio – Project Profiles



#### McClean Lake Uranium Project Processing Plant Licensed for Annual Production of 24M lbs U<sub>3</sub>O<sub>8</sub>



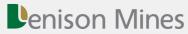
"(the APG) financing allows Denison to benefit immediately from the cash flow expected to be produced from the McClean Lake mill over the next several years, without the overhang of a bullet payment or convert at the end of a debt, and without selling its stake in the mill"

#### David Cates, President & CEO

- Processing ~18M lbs  $U_3O_8$ /year from Cigar Lake mine
- Cigar Lake toll milling cash flows monetized in transaction with Anglo Pacific Group ("APG") in 2017 for \$43.5M
- Operating license renewed for 10-year period by CNSC in 2017
- ✓ Ownership: 22.5% Denison, 70.0% Orano, 7.5% OURD

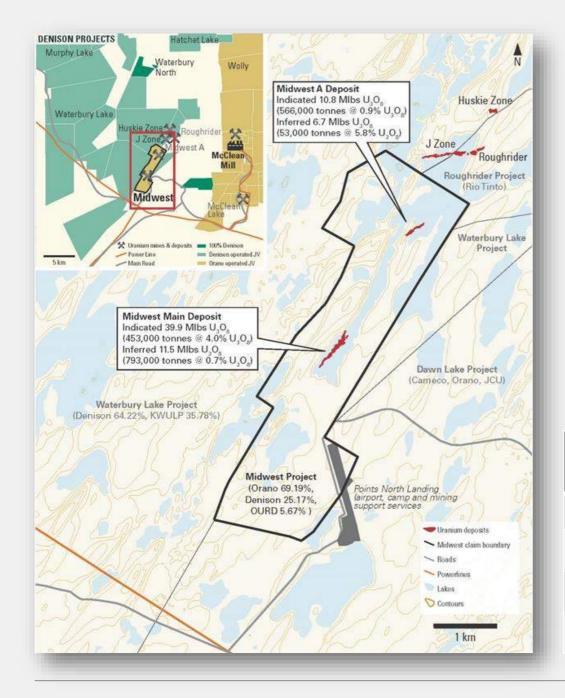
Deposit	Class.	Tonnes	Grade	Lbs U <sub>3</sub> O <sub>8</sub>	Denison Share
McClean North	Indicated	205,800	2.8% U <sub>3</sub> O <sub>8</sub>	12.4M	2.8M
Caribou	Indicated	47,800	2.6% U <sub>3</sub> O <sub>8</sub>	2.8M	0.6M
Sue D	Indicated	122,800	1.1% U <sub>3</sub> O <sub>8</sub>	2.8M	0.6M
Sue E	Inferred	483,400	0.69% U <sub>3</sub> O <sub>8</sub>	7.3M	1.6M

**Notes:** (1) The Mineral Resource estimates were prepared for the Company by Scott Wilson RPA (now RPA Inc.) in accordance with CIM Definition Standards and NI 43-101, (2) Mineral Resources are reported above a cut-off grade of 0.1% U<sub>3</sub>O<sub>8</sub>.



Sources: Technical Report on the Denison Mines Inc. Uranium Properties, Saskatchewan, Canada, dated November 21, 2005, as revised February 16, 2006, by Richard E. Routledge, M.Sc., P. Geo of Scott Wilson RPA (now RPA Inc.); Technical Report on the Sue D Uranium Deposit Mineral Resource Estimate, Saskatchewan, Canada, dated March 31, 2006, by Richard E. Routledge, M.Sc., P. Geo. and James W. Hendry, P. Eng of Scott Wilson RPA (now RPA Inc.); Technical Report on the McClean North Uranium Deposit Mineral Resource Estimate, Saskatchewan, Canada, dated January 31, 2007, by Richard E. Routledge, M.Sc., P. Geo. and James W. Hendry, P. Eng of Scott Wilson RPA (now RPA Inc.); Technical Report on the McClean North Uranium Deposit Mineral Resource Estimate, Saskatchewan, Canada, dated January 31, 2007, by Richard E. Routledge, M.Sc., P. Geo. and James W. Hendry, P. Eng of Scott Wilson RPA (now RPA Inc.); and subsequent revision by letter dated October 20, 2009 from Scott Wilson RPA.

### Midwest Uranium Project Significant Increase in Mineral Resources with Updated Estimate



Penison Mines

"With the application of more rigorous and robust estimation procedures, in accordance with NI 43-101, we are pleased to see a significant increase in overall project resources, without additional recent drilling."

Dale Verran, VP Exploration

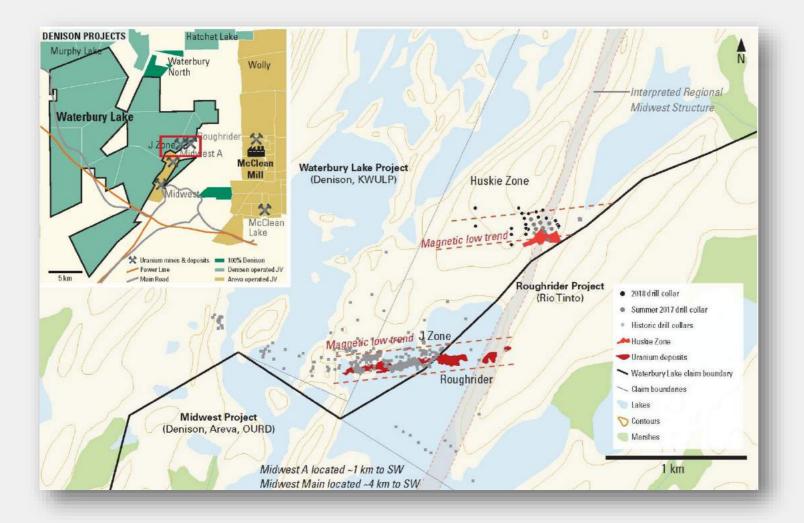
- Mineral resource estimate updated in March 2018
- 25 kilometres by existing roads to the McClean Lake mill
- Environmental Impact Statement ("EIS") approved in 2012
- ✓ Ownership: 25.17% Denison, 69.19% Orano, 5.67% OURD

Deposit	Class.	Tonnes	Grade	Lbs U <sub>3</sub> O <sub>8</sub>	Denison Share
Midwest	Indicated	453,000	4.0% U <sub>3</sub> O <sub>8</sub>	39.9M	10.1M
Midwest	Inferred	793,000	0.66% U <sub>3</sub> O <sub>8</sub>	11.5M	2.9M
Midwest A	Indicated	566,000	0.87% U <sub>3</sub> O <sub>8</sub>	10.8M	2.7M
Midwest A	Inferred	53,000	5.8% U <sub>3</sub> O <sub>8</sub>	6.7M	1.7M

#### **Notes:** (1) The Mineral Resource estimate was audited for the Company by SRK Consulting in accordance with CIM Definition Standards (2014) and NI 43-101, (2) Mineral Resources for the Midwest Main and Midwest A deposits are reported above a cut-off grade of $0.1\% U_3O_8$ .

**Source:** Technical Report with an Updated Mineral Resource Estimate for the Midwest Property, Northern Saskatchewan, Canada, dated March 26, 2018, by Dale Verran, MSc, P.Geo, Pr.Sci.Nat. and Chad Sorba, P.Geo, of Denison Mines Corp. and G. David Keller, PGeo, and Oy Leuangthong, PEng, of SRK Consulting.

#### Waterbury Lake Uranium Project Mineral Resources in Close Proximity to Roughrider & McClean Lake



"The high-grade mineralization at Huskie appears to be controlled by the intersection of east-west striking faults, associated with the graphitic gneiss unit, and cross-cutting northeast striking faults, possibly related to the regional Midwest structure."

#### Dale Verran, VP Exploration

- · Host to J-Zone and Huskie deposits
- Adjacent to Rio Tinto's Roughrider project and Denison's Midwest project
- Over 40,000 hectares of ground
- ✓ Ownership:

65.45% Denison, 34.55% KHNP

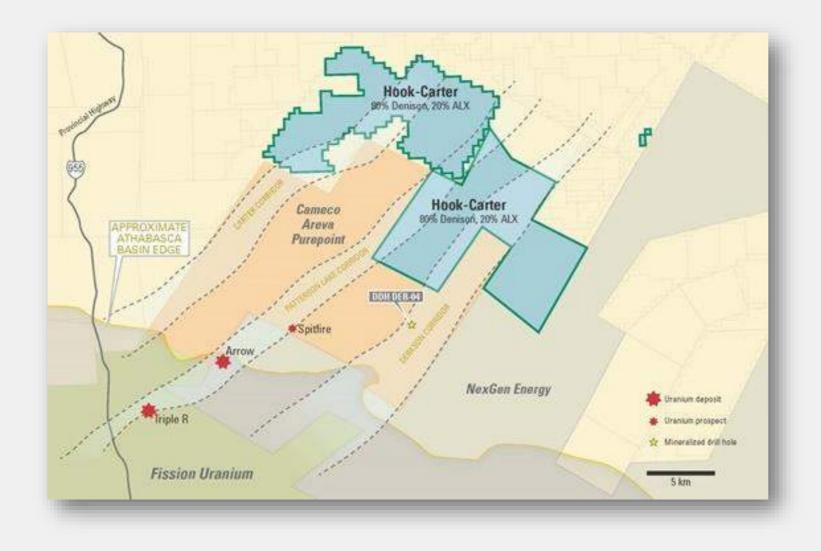
Deposit	Classification	Tonnes	Grade	Lbs U <sub>3</sub> O <sub>8</sub>	Denison Share
J-Zone	Indicated	291,000	2.0% U <sub>3</sub> O <sub>8</sub>	12.8M	8.M
Huskie	Not Estimated	n/a	n/a	n/a	n/a



Notes: (1) The J Zone Mineral Resource estimate was prepared for the Company by GeoVector Management Inc. in accordance with CIM Definition Standards (2005) and NI 43-101, (2) Mineral Resources for the J Zone deposit are reported above a cut-off grade of 0.1% U<sub>3</sub>O<sub>8</sub>. Source: Mineral Resource Estimate On The J Zone Uranium Deposit, Waterbury Lake Property, dated September 6, 2013, by Allan Armitage, Ph.D., P.Geo, and Alan Sexton, M.Sc., P.Geo of GeoVector Management Inc.

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### Hook-Carter Uranium Project Exploration on the Patterson Lake Corridor in the Western Athabasca Basin



"This is Elephant country - a large property that has seen very little drilling on a geological trend with a precedent for large and highgrade uranium deposits."

Dale Verran, VP Exploration

- 15 km of relative untested ground on the Patterson Lake Corridor
- Reconnaissance drill program completed in 2018
- Designed to generate targets for further exploration drilling in 2019

✓ Ownership: 80% Denison, 20% ALX

### SABRE Mining Method Experimental Mining Method with Potential to Access Orebodies from Surface



Surface Access Borehole Resource Extraction – or "SABRE" for short – is a proprietary mining method designed to excavate underground material from surface using a water jetting process

- +CAD\$50M invested for development

   including engineering, drilling,
   mining tests, and procurement
- Recently re-designed key SABRE equipment to improve performance and economics with a new mining test slated to occur 2017-2020
- Potential benefits include low CAPEX, scalability, reduced timelines, and minimal environmental impact
- Ownership: 22.5% Denison,
   70.0% Orano, 7.5% OURD

# Capital Structure & Corporate Information



Market Summary <sup>(1)</sup>				
Exchanges	TSX: DML, NYSE MKT: DNN			
Shares Outstanding	559.2 M			
Warrants	1.7 M			
Options	17.5 M			
Fully Diluted Shares	578.4 M			
Market Cap – DML @ C\$0.83/share <sup>(2)</sup>	CAD \$464.1			
Daily Trading Volume – DML <sup>(3)</sup>	0.52 M Shares			
Market Cap – DNN @ U\$0.64/share <sup>(2)</sup>	USD\$357.9 M			
Daily Trading Volume – DNN <sup>(3)</sup>	0.75 M Shares			

#### Management & Directors

- David Cates (President & CEO, Director)
- Mac McDonald (VP Finance & CFO)
- Tim Gabruch (CCO)
- Peter Longo (VP Project Development)
- Dale Verran (VP Exploration)
- Catherine Stefan (Non-Executive Chair)
- W. Robert Dengler (Director)
- Brian D. Edgar (Director)
- Ron F. Hochstein (Director)
- Jack Lundin (Director)
- William A. Rand (Director)
- Moo Hwan Seo (Director)
- Patricia M. Volker (Director)

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#### **P**enison Mines

(1) As of Aug 9th, 2018 – per Denison's Q2'2018 Report
(2) Based on shares outstanding above and DML/DNN share prices as of Oct 30th, 2018
(3) Average daily trading volume over 90 day period as at Oct 30th, 2018