



K+S Potash Canada

# THE SASKATCHEWAN MINING SUPPLY CHAIN FORUM

K+S Potash Canada GP

Thomas Papst

# K+S POTASH CANADA



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# BETHUNE MINE



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# BETHUNE MINE

- Bethune mine is a greenfield solution potash mine.
- Saskatchewan's first new potash mine in over 40 years.
- Potash production began in June 2017
- The gradual extension of the annual capacity to 2.86 million tonnes will occur in subsequent years.
- Approximately 4 Billion dollar investment





# BETHUNE PRODUCTS

The Mine extracts potash crude salt, which is further processed to three different products of potassium chloride:

- MOP standard white
- MOP granular
- (Future) KCl 99 compacted



# PORT FACILITY



- In 2014, KSPC and Pacific Coast Terminals (PCT) signed a long-term agreement to ensure that products from KSPC's Bethune mine would be delivered to international clients in a secure and competitive manner.
- The agreement included modifications to PCT's existing facility and the construction of a new potash storage building on the site. Now that these modifications have been completed, PCT's site is the most innovative of its kind in the world.



# PARTNERSHIP WITH CANADIAN PACIFIC



- To ensure a rail connection, KSPC partnered with Canadian Pacific (CP). Potash bound for port is transported by CP from the Bethune mine.
- In spring 2017, CP completed the 30 km Belle Plaine subdivision, a new line of rail that links Bethune mine to existing CP track near Belle Plaine.
- KSPC also completed an additional 14 km of rail line that links CP's new track to a loop at the potash mine's loading facilities and 6 km of storage track adjacent to its line. This ~20 km of line is owned and operated by KSPC.



# OUR WORKFORCE



- ~430 KSPC employees total
  - 348 at the mine site
  - 76 at our corporate office in Saskatoon
  - 6 in Vancouver
- Contractors working on site vary by project





# PROJECTS



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# WELLPAD PROGRAM



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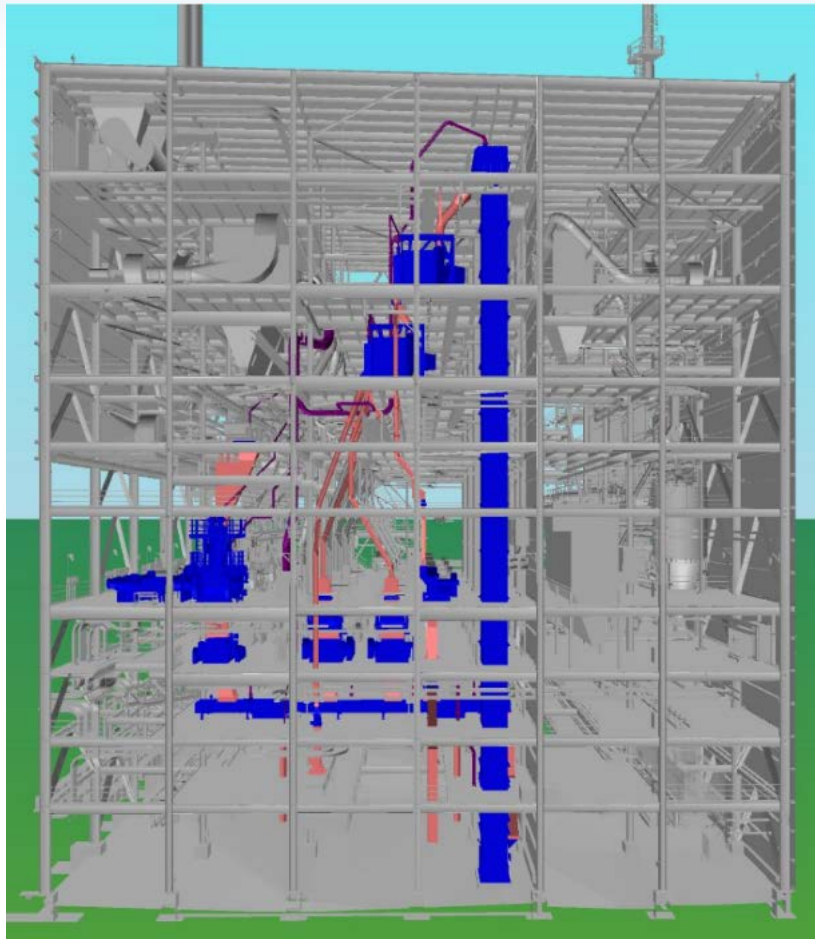
# WELLPAD PROGRAM



- PAD 11 / 12 2019
- PAD 13 2020
- PAD 14 2021
- PAD 15 2022

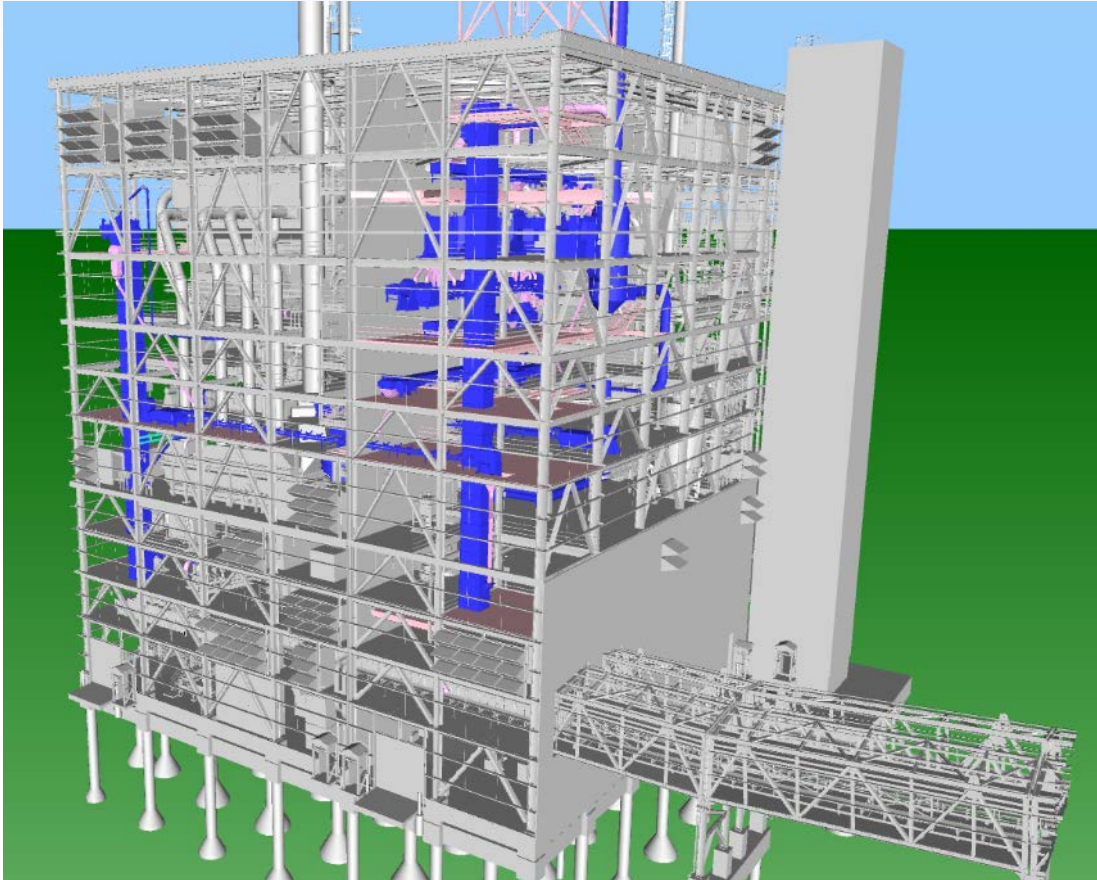


# 4<sup>TH</sup> COMPACTION LOOP

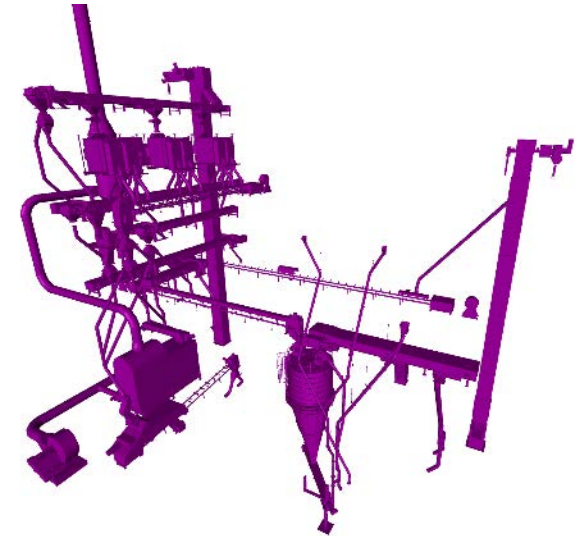




# QUALITY IMPROVEMENT (PQP)

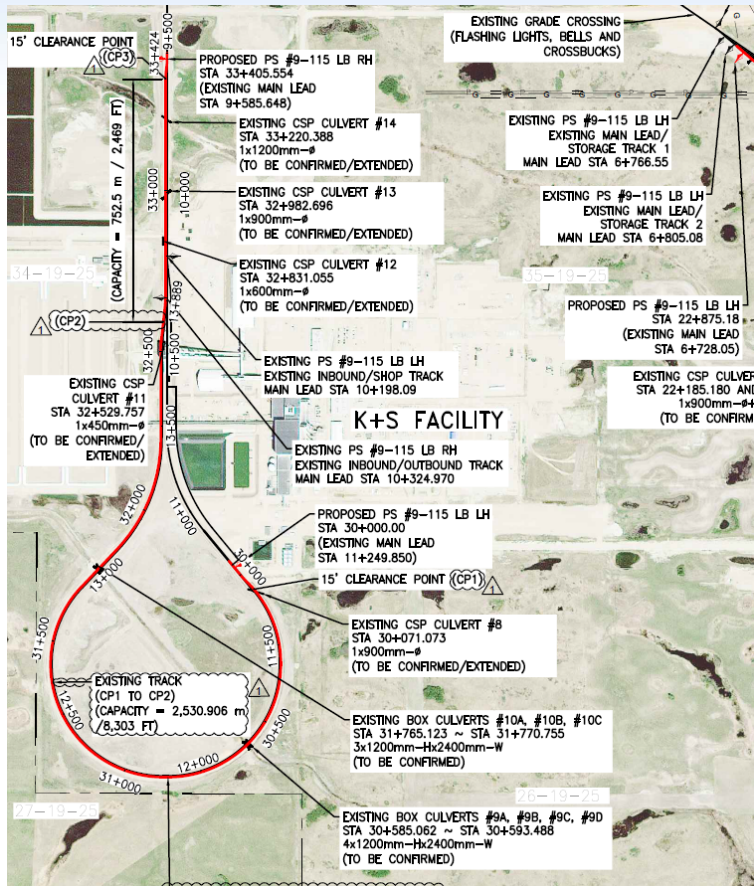


- Ongoing Quality Improvement Project
- Planned Handover 2019



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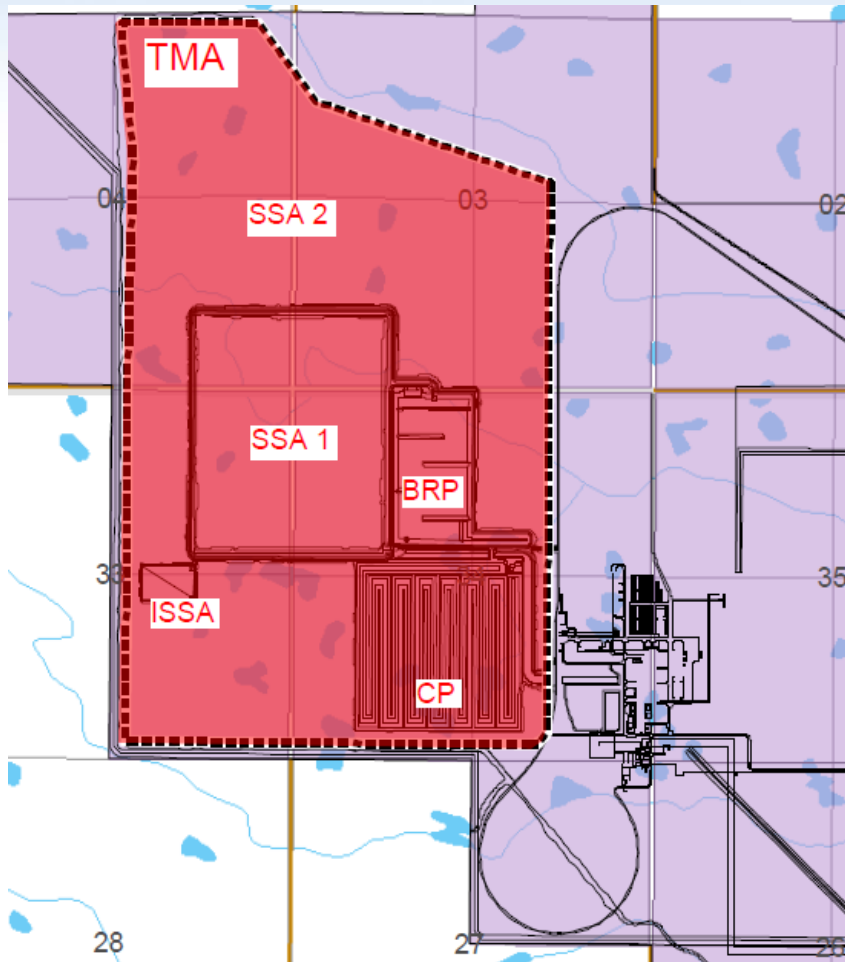
# ADDITIONAL STORAGE TRACK



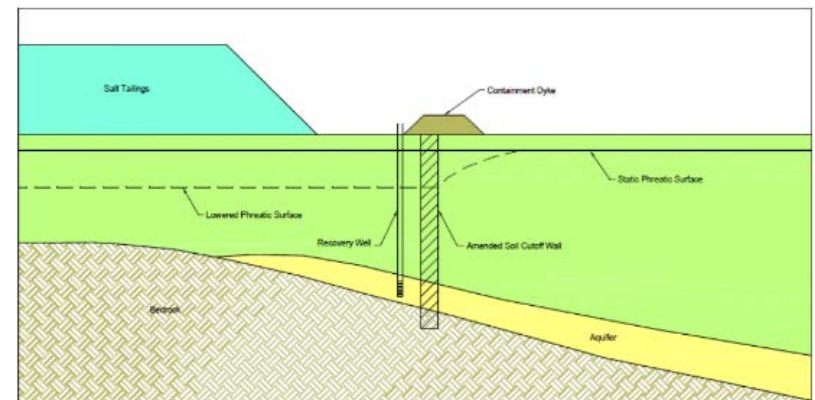
- Additional Loop around the existing Loadout Loop
- Length: approx. 3.4 km
- Status: FEL2 (Project is approved)
- Access Road
- Execution in Q3 / 2019



# CUT OFF WALL



- Project staged in several Phases
- Stage I in 2019
- Soil Bentonite
- Part of Legacy Project
- Approx. overall length 9.4 km





[illegible]

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# DREDGE II



- Secondary Mining
- Part of Legacy Ramp up
- Start Up in 2021



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# PACIFIC COAST TERMINALS MODIFICATIONS



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# PACIFIC COAST TERMINALS MODIFICATIONS



- Building Modifications
- Equipment Optimization
- Technology Improvements



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# EXECUTION STRATEGY

## Study / Engineering

Self Execution

Self Execution +  
3<sup>rd</sup> Party

3<sup>rd</sup> Party

## Construction

Owners Team + 3<sup>rd</sup>  
Party

Equipment by  
supplied by Owner

Detail Engineering  
Internal or 3<sup>rd</sup> Party

## Commissioning

Self Execution

Self Execution +  
3<sup>rd</sup> Party

3<sup>rd</sup> Party





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THANK YOU

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