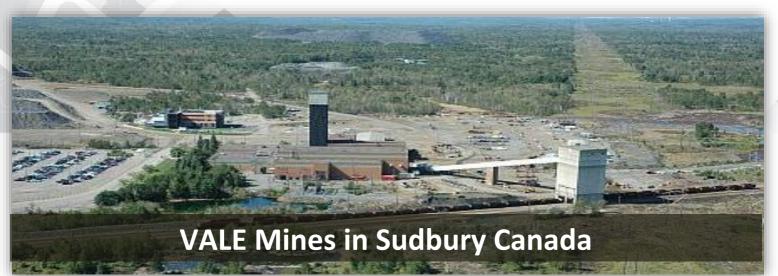
Case Study - Mine





Over 400 units of Andromeda[™] luminaires are installed in VALE mines in Canada including Stobie, Crieighton and Coleman. A variety of the Andromeda[™] series are in use including flood, linear, park and high/low bay luminaires are used in a diverse array of applications including:

- Underground lighting passageway, equipment and long wall.
- External flood lighting yard, loading areas, and external building lighting.
- Internal high and low bay lighting warehouses, storerooms and workshops.

The earliest Andromeda[™] luminaires were installed in early 2011 with the replacement of HID lights on site continuing in 2014.

With approximately 400 luminaires in use, the failure rate in this highly challenging environment has been 0% with no reported issues. Previous failure rates of HID were recorded at an average lifespan of 9000 hours.

Key deliverables:

- Replacement of luminaires
- Maintenance including cleaning cycles
- Power savings including start up and reduction of HVAC
- Safety and recycling

"Empyrean's Andromeda™ series of luminaires has become our preference for underground and warehousing lighting applications. They are heavyduty and perform above our expectations, they also seem to last forever. I would recommend these lights for any Mining application."

KEN MOORE, ELECTRICIAL/PURCHASING VALE STOBIE MINE

For details regarding calculations, please contact Empyrean Lighting

SUMMARY OF RESULTS



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MEMBER