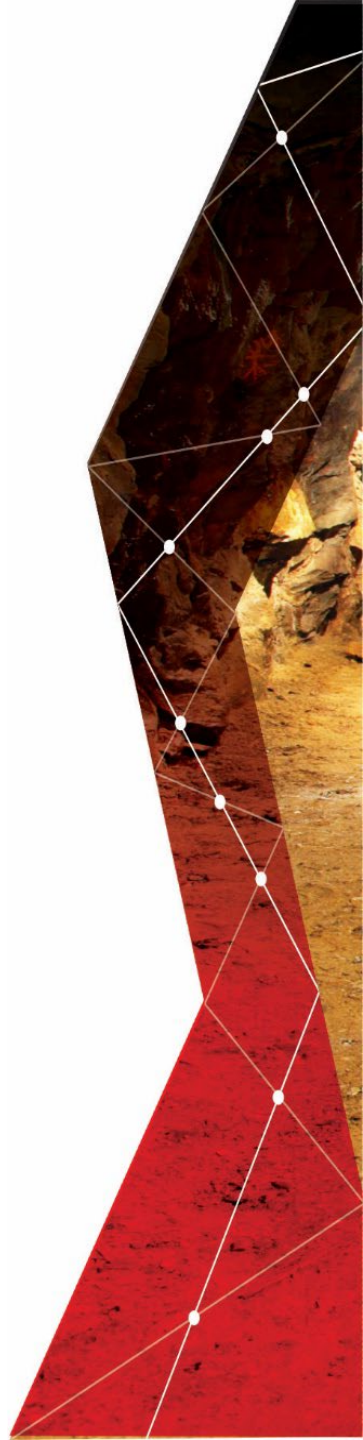




PROUDLY SOUTH AFRICAN LEVEL TWO B-BBEE CONTRIBUTOR & ISO 9001

Conveyor belt cleaning.



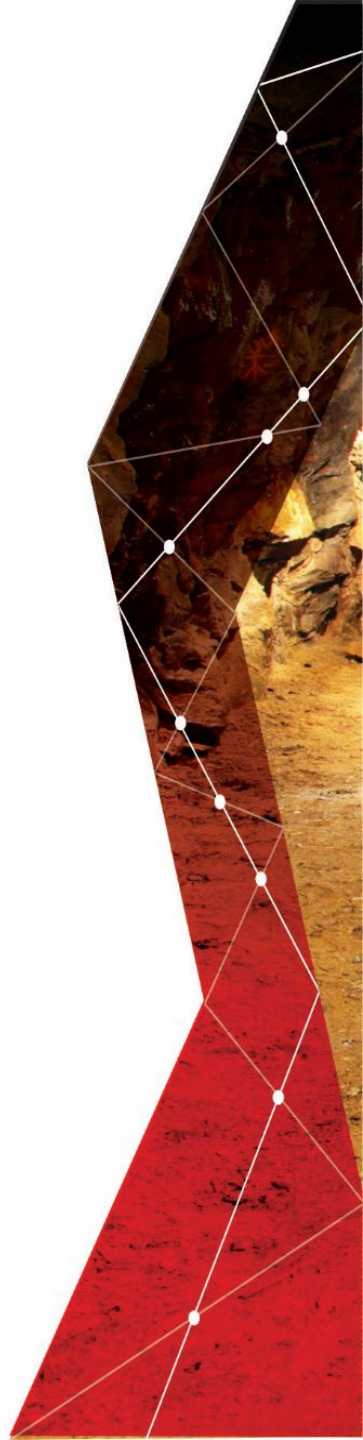
WHY DO WE NEED TO CLEAN CONVEYOR DECLINES

Enhances safety

To avoid slip and falls.

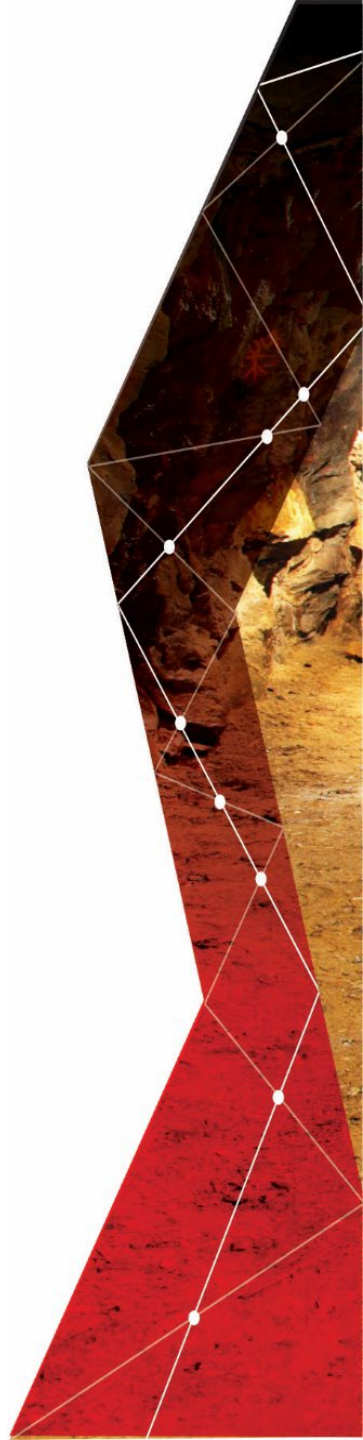
You need to do maintenance on the conveyor structure

To avoid build up of stuff under the belt that can damage the belt and the rollers .



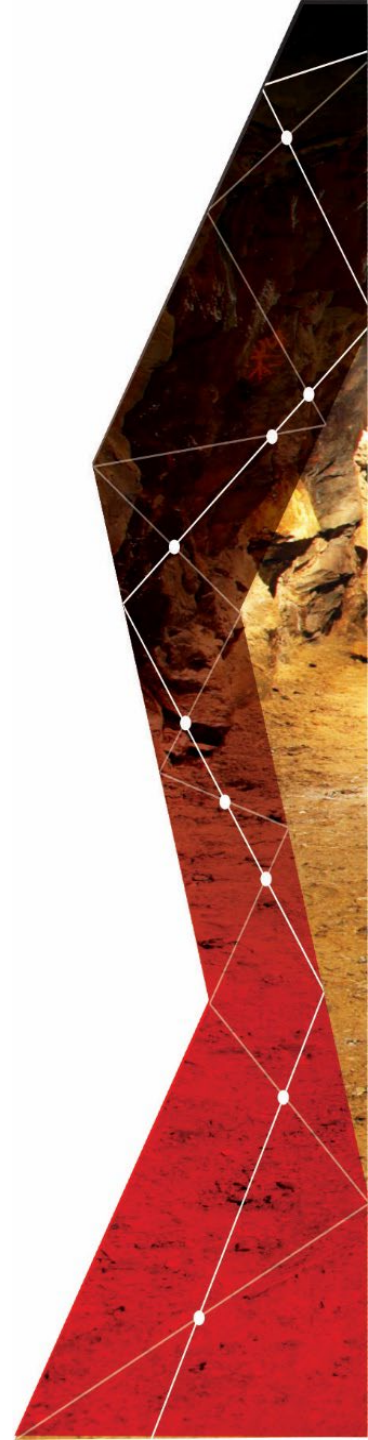
BENEFITS OF USING A VACUUM TO DO CONVEYOR BELT CLEANING

- **You can clean along side the conveyor belt whilst running .**
- **Can reach into small cracks and crevices, maximizing the recovery**
- **Reduced material handling - dumping straight back onto the conveyor belt .**
- **Can vacuum dry and wet material.**
- **Environment friendly reduces dust.**
- **Good house keeping = proper maintenance .**



ADVANTAGES MAKING USE OF A VACUUM UNIT

- Safety is enhanced – material is kept in both the collector and pipe line.
- Saving on labour costs
- Reducing double handling – the materials is contained with in the collector while transported.
- Increase plant efficiency
- Reducing dust pollution.
- The vacuum operates at noise level of approximately 90dpa
- Improving handling of fine particles.
- Can handle both wet and dry application.
- Quick and easy spillage removal - high suction rate.
- The sucked material can be tipped to the clients desired configuration.

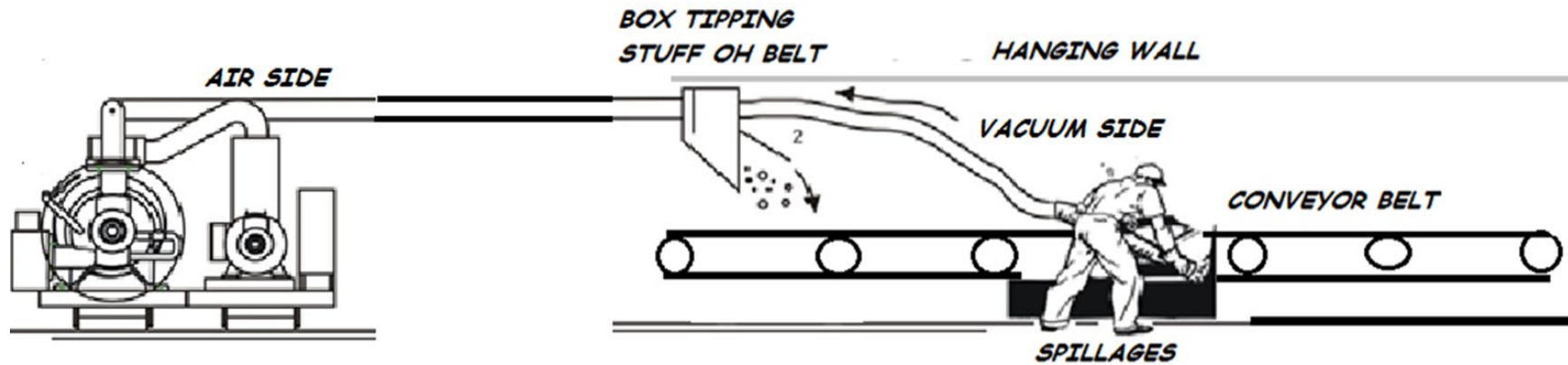


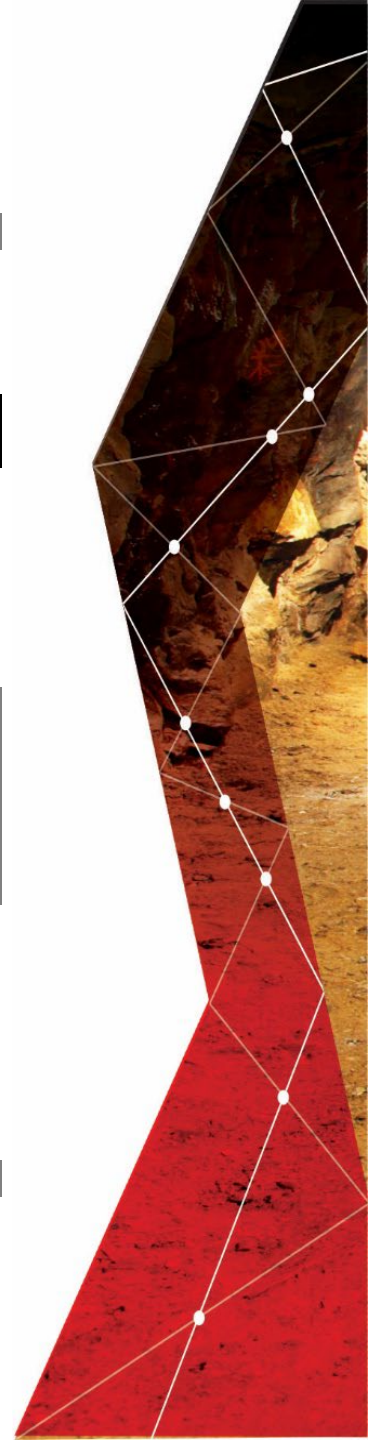
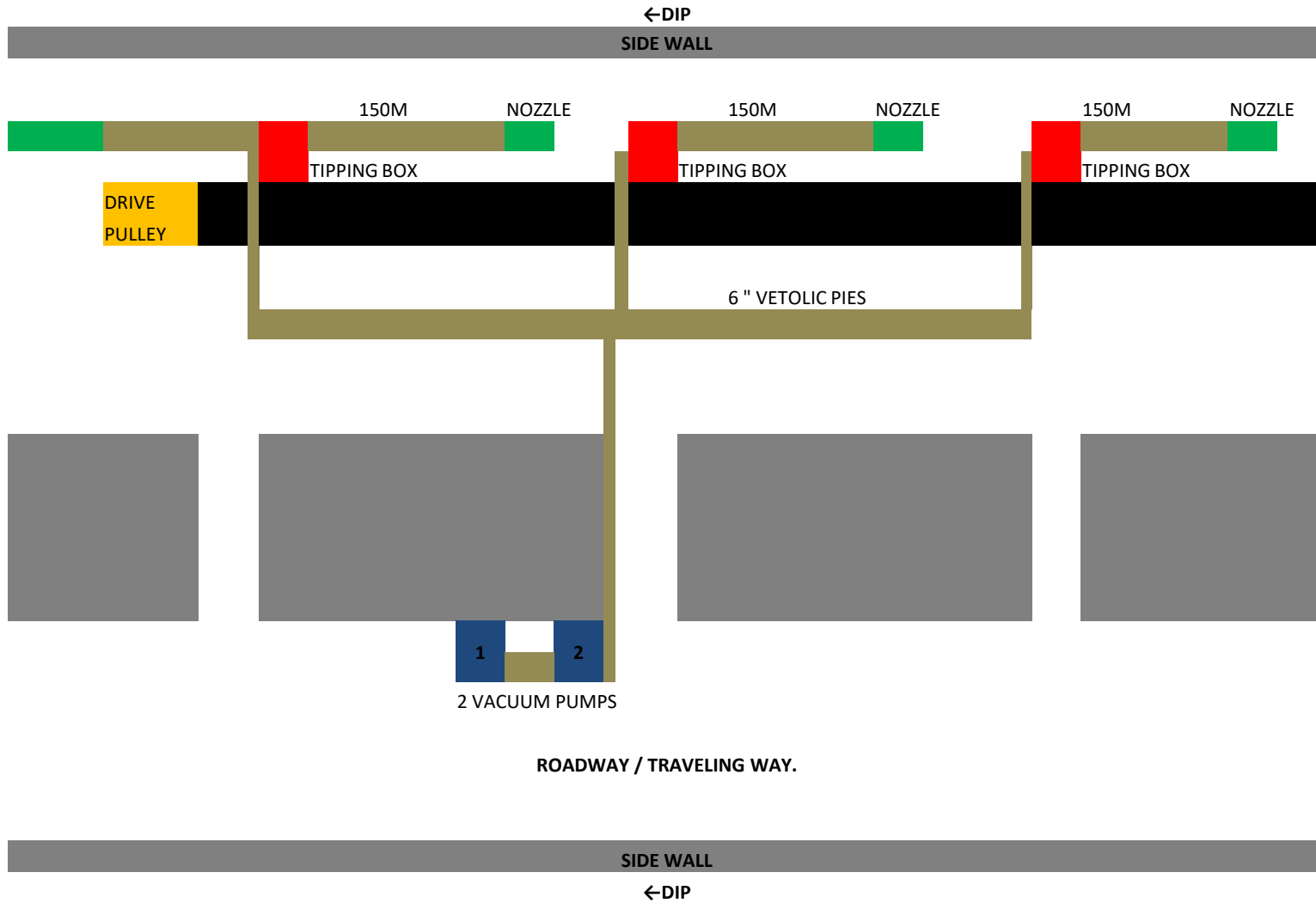
Cleaning of conveyor belts.

- Enhances safety .
- To avoid slip and falls.
- You need to do maintenance on the conveyor structure .
- To avoid build up of stuff under the belt that can damage the belt and the rollers .
- Keep return pulleys clean to prevent damage to pulley and belt.



ILLUSTRATION OF A TYPICAL INSTALLATION





Equipment to be used for conveyor belt cleaning.

- With one installation you are able to clean up to 150 meters on both side of your installation.
- In gold mining operations we will suggest that you make use of a 6inch vacuum unit.
- In chrome and platinum due to the weight we always go with a double 6inch installation.
- Please see the technical data sheet.



6 inch water ring vacuum .



For belt cleaning we suggest 2x 6 inch water ring pumps in series to up the velocity.

2000cfm , 90 KW motor , 140 amps

Maintains up to 3 -6 tons per shift depending the material that is vacuumed.

Vertical suction distance up to 20 meters (Up to 50 meters with multiple units in parallel)

Horizontal suction distance up to 150 meters

Dimensions: 3 100 x 1 200 x 1 800 mm



TECHNICAL SPECIFICATIONS 5" VACUUM PUMP

| | |
|----------------------------------|--|
| Vacuum: | -88 kPa (Gage) |
| Volume: | 1200 cfm |
| Power Supply: | 75 kW, 525 Volt, 90 A |
| Dimensions: | 1350 (W), 1450 mm (H), 1 800 mm (L) |
| Suction distance | 30 – 60 m |
| Vertical suction distance | 20m depending on material vacuumed. |
| Material size | 50mm |
| Production average | 3-4 tons per hour |
| Coupling | direct |
| Weight | 2.0 tons |

TECHNICAL SPECIFICATIONS 6" VACUUM PUMP

| | |
|----------------------------------|--|
| Vacuum: | -85 kPa (Gage) |
| Volume: | 1775 cfm |
| Power Supply: | 90 kW, 525 Volt, 180 A |
| Dimensions: | 1500mm (W), 1850 mm (H), 3200 mm (L) |
| Suction distance | 60 – 120 m |
| Vertical suction distance | 30m |
| Material size | finest upto 60mm |
| Production average | 4-5 tons per hour depending on the material |
| Coupling | direct |
| Weight | 3 tons |

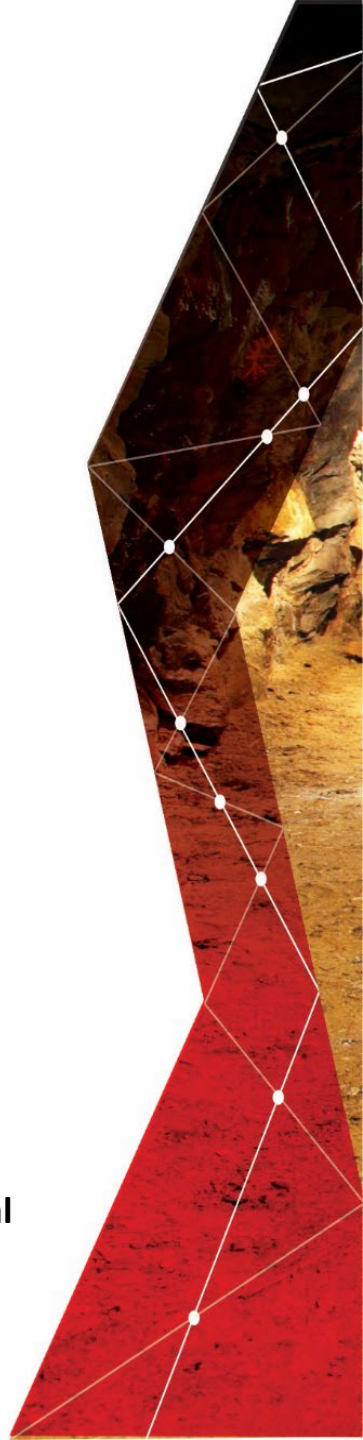
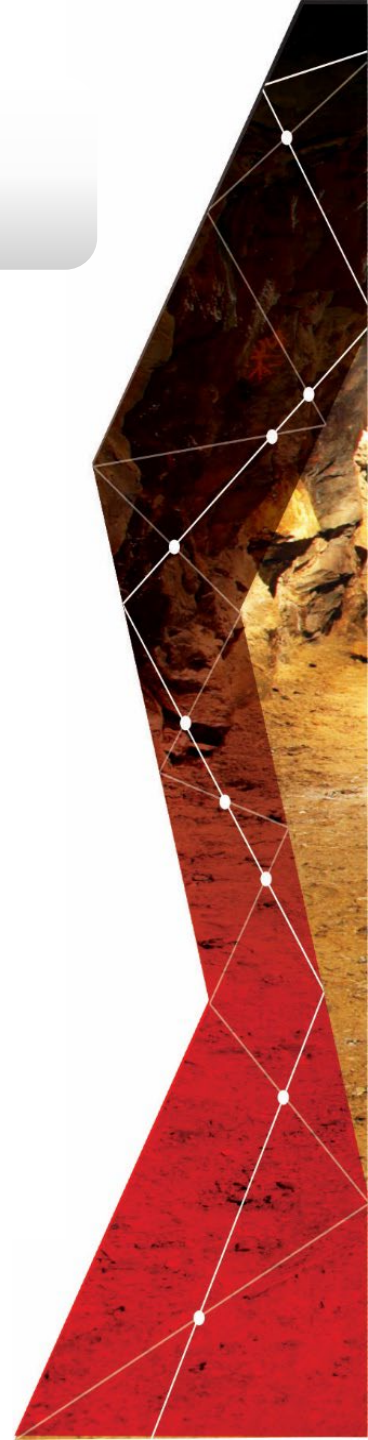
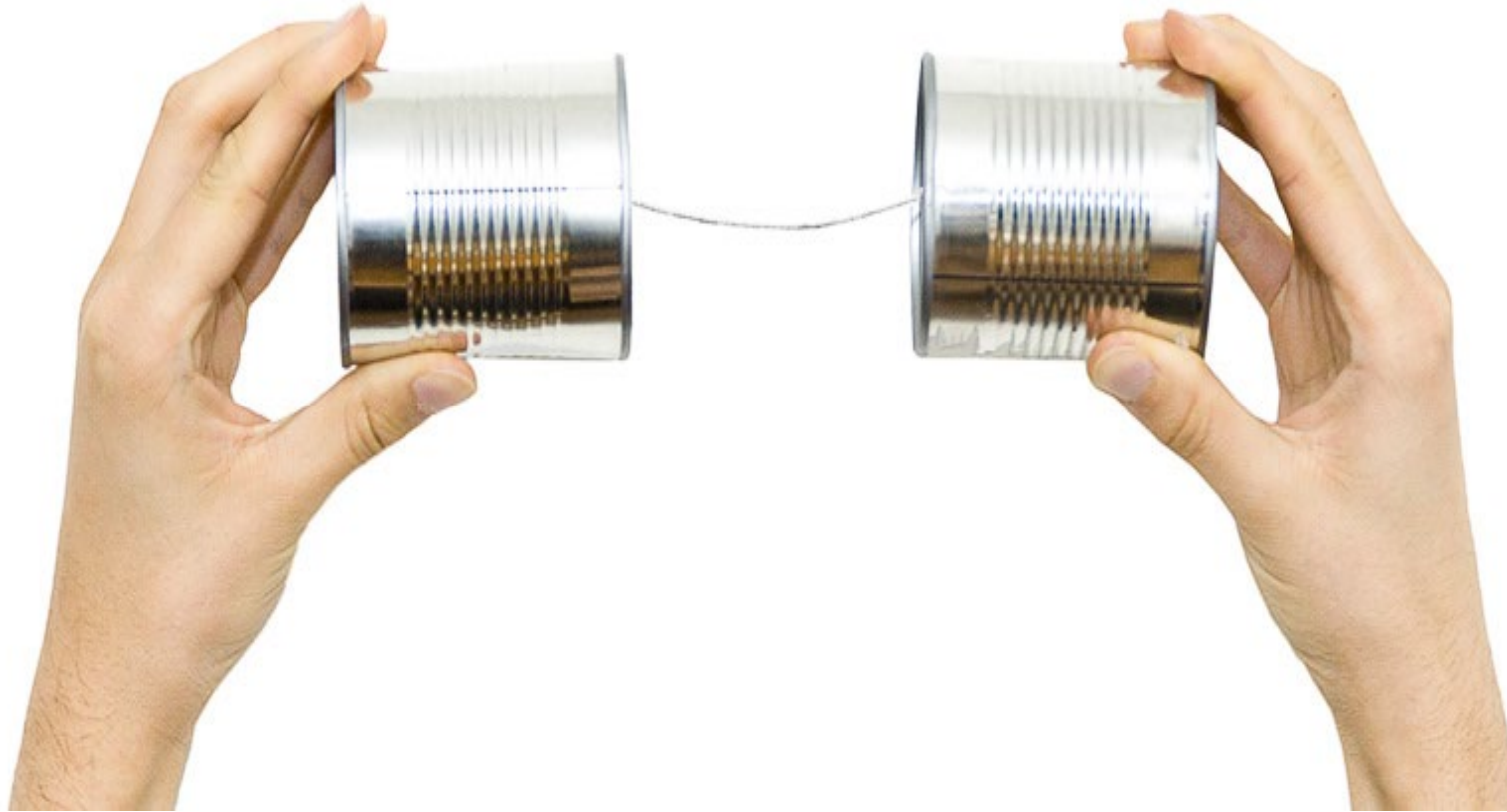


EXHIBIT Some of our recent Belt Cleaning works



CONVEYOR BELT CLEANING

BEFORE



AFTER



CONVEYOR BELT CLEANING

BEFORE



AFTER



CONVEYOR BELT CLEANING

BEFORE



AFTER



CONVEYOR BELT CLEANING

BEFORE



AFTER



CONVEYOR BELT CLEANING

BEFORE



AFTER

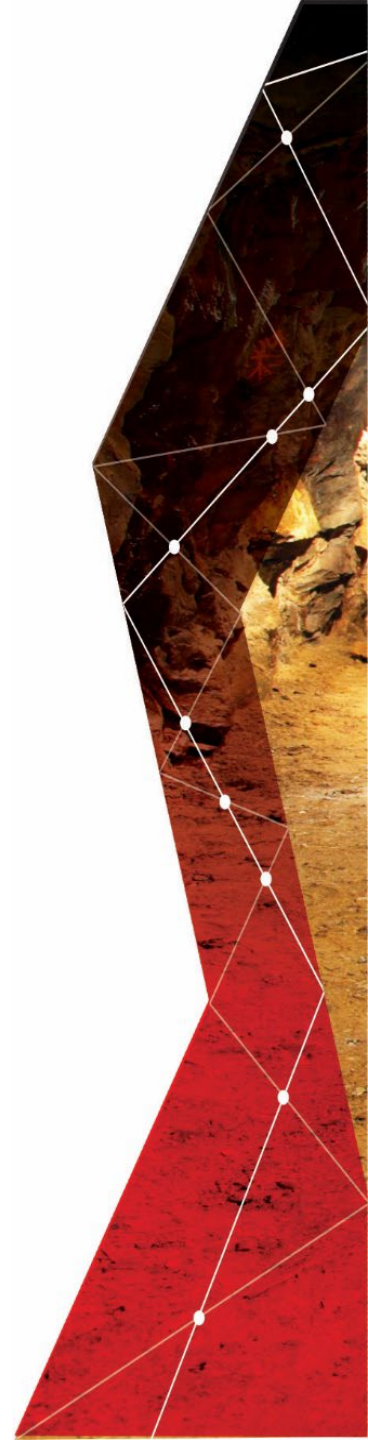


CONVEYOR BELT CLEANING

BEFORE



AFTER

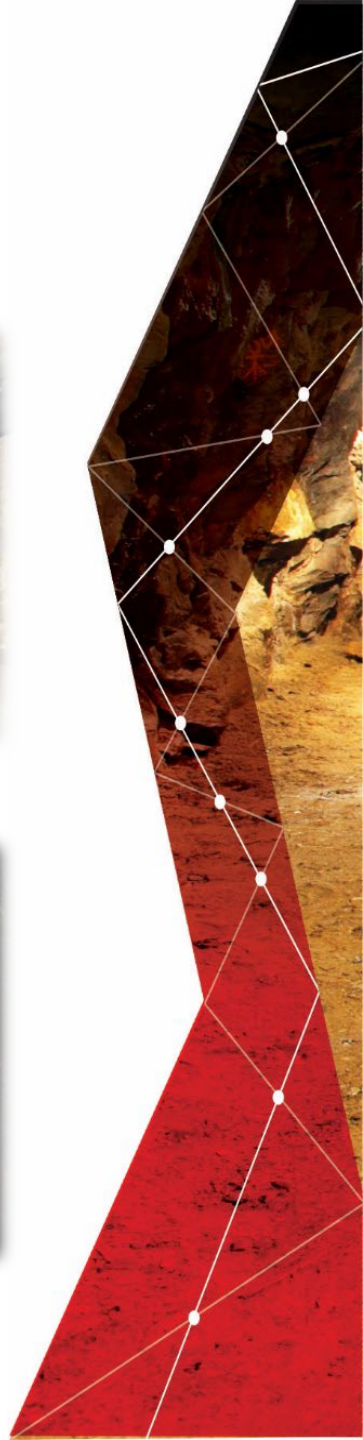


CONVEYOR BELT CLEANING

BEFORE



AFTER



CONVEYOR BELT CLEANING

BEFORE



AFTER

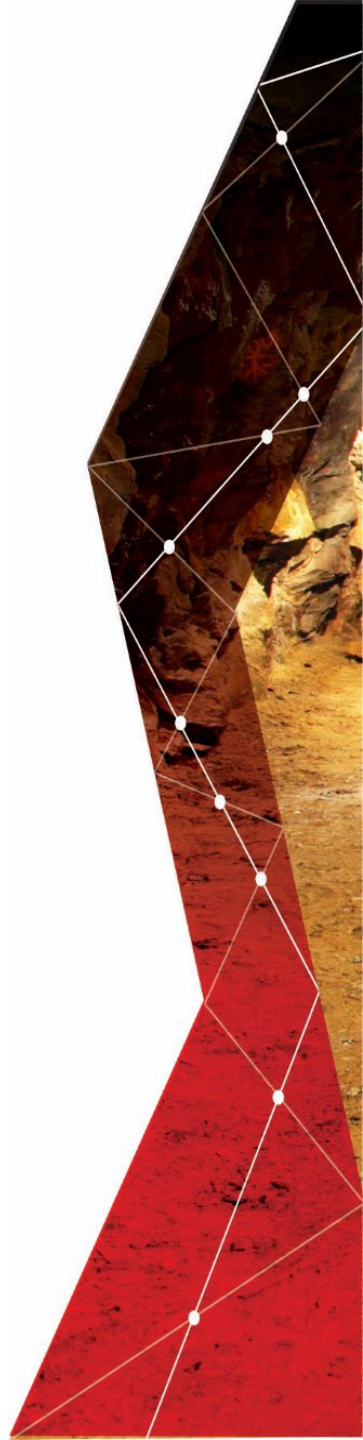


CONVEYOR BELT CLEANING

BEFORE



AFTER

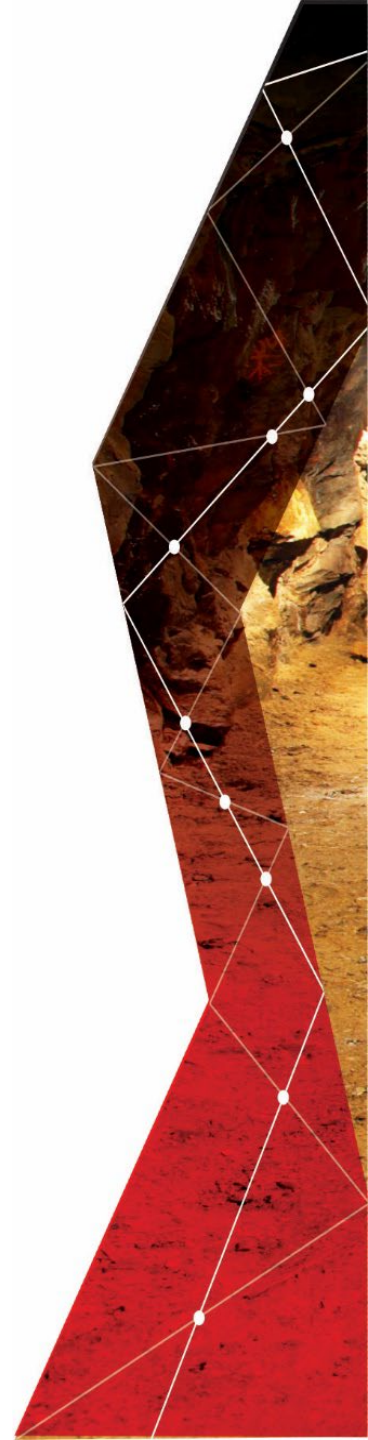


CONVEYOR BELT CLEANING

BEFORE

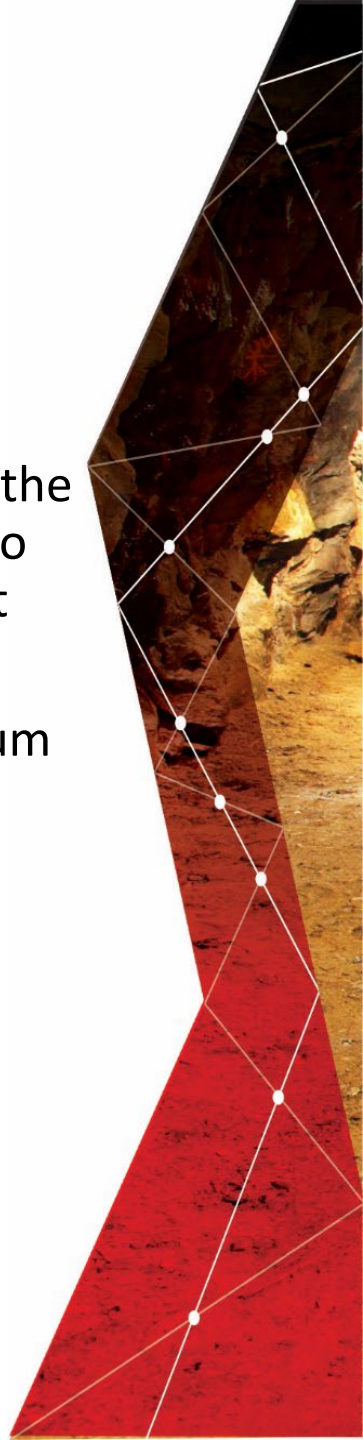


AFTER



Keep in mind.

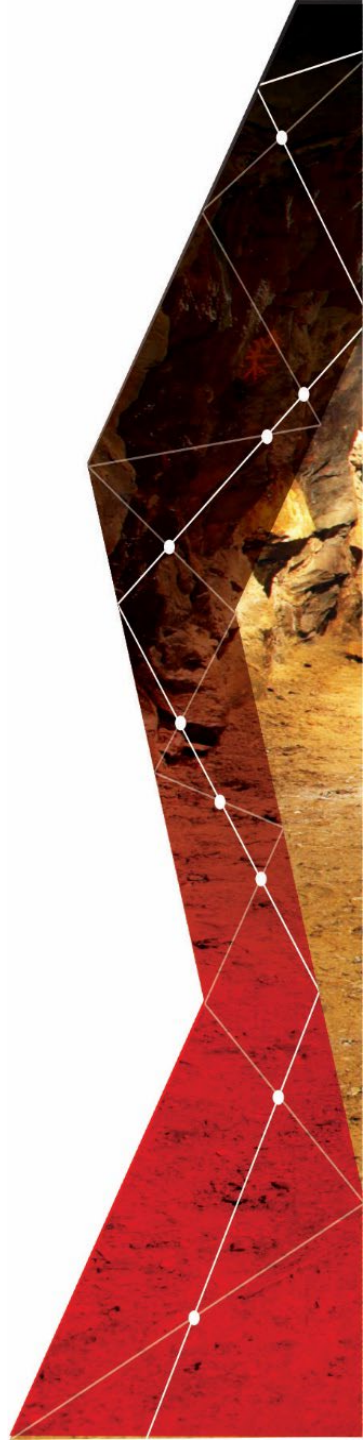
- Most of the vacuum projects are self sustainable operations and runs independently.
- How do we get to this statement – if we do conveyor belt cleaning , dam and setter cleaning, sweepings and vamping on reef or development ext the product(mineral) is available and had been paid for when it was mined ; so we clean the product that carries value so when it is cleaned by V TECH it contrubutes to the revenue of our clients.
- Lastly bring safety and cost together it makes sense to make use of vacuum technology as we improve safety conditions and recovery factor.
- **VACUUM MINING IS THE FUTURE SOLUTION TO TODAY'S CHALLENGING MINING AND INDUSTRIAL ENVIRONMENT AND V TECH TEAM ARE THE LEADERS IN THIS INDUSTRY.**



KEEP IN MIND

GOOD HOUSE KEEPING HAS A POSITIVE INFLUENCE ON SAFETY, ENVIROMENT AND FINANCIALLY (BREAK DOWNS AND MAINTENANCE COST AND STOPPAGES)

CLEANING SOLUTIONS BY MEANS OF VACUUM UNITS IS THE FUTURE SOLUTION TO TODAY'S CHALLENGING MINING, PLANT AND INDUSTRIAL ENVIRONMENT AND THE V TECH TEAM ARE THE LEADERS IN THIS INDUSTRY.



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