## Processed Kimberlite Mine Workings Project

## Advantages

- Eliminates the need to construct another on-land PKC dam raise
- Smaller on-land PKC Facility
- Best option for Lac de Gras water quality
- Less chance of caribou directly contacting PK material
- On-land PKC Facility closure can start 3 years earlier
- Enables additional PKC Facility closure options
- Uses less water from Lac de Gras to fill pit lakes

## Disadvantages

- Requires construction of a new pipeline
- More operating experience with deposition in PKC Facility
- Requires an Environmental Assessment and Water Licence Amendment
- Change from what was originally proposed in 1999



## **NEW SLIDE – Pros and Cons**

- This is a new slide that was prepared to address a request last night from Blake Rasmussen of YKDFN. He asked if we could summarize the pros and cons or advantages/disadvantages of the Project.
- I would like to start with the advantages:
- The Project eliminates the need to construct another PKC dam raise
  - o 6km of a 4m dam raise is a significant construction activity
- With the Project there would be a smaller surface PKC Facility
  - It would be 4m lower and contain about 5Mm3 less PK material
- The Project provides the safest long-term PK containment
  - Below ground storage is more secure than above ground
- The Project provides the best option for Lac de Gras water quality
  - Long-term pore water release deep below a chemocline will result in a lower loading rate to the Lac de Gras than if the porewater was released to Lac de Gras from the surface of the PKC.
- There is less chance of caribou directly contacting PK material if it is stored more than 100m below water.
  - Contact with surface PK in the PKC is also reduced as PKC closure can begin 3 years sooner with the Project.
- PKC surface facility closure can begin 3 years earlier
  - With the Project FPK deposition to the surface PKC will end and closure construction can begin 3 years earlier than if we had to wait until the end of commercial production
- The Project enables additional PKC closure options as there would be a place to dispose of EFPK if that is found to be a feasible benefit for PKC closure.

- With the Project there would be less Lac de Gras water used to fill the A418 pit/underground at closure
  - This could amount to more than 5Mm3 less Lac de Gras water use at closure.

These are what we believe to be the key advantages of the Project.

Disadvantages we identified are:

- Requires construction of a new pipeline
  - This would be a pipeline directly from the Process Plant to the A418 pit/underground.
- Diavik has more experience with PK deposition to the surface PKC rather than to mine workings
- The Project requires an Environmental Assessment and Water License Amendment
- The Project is a change from what was originally proposed in 1999.