WATER SOURCING & DISCHARGE

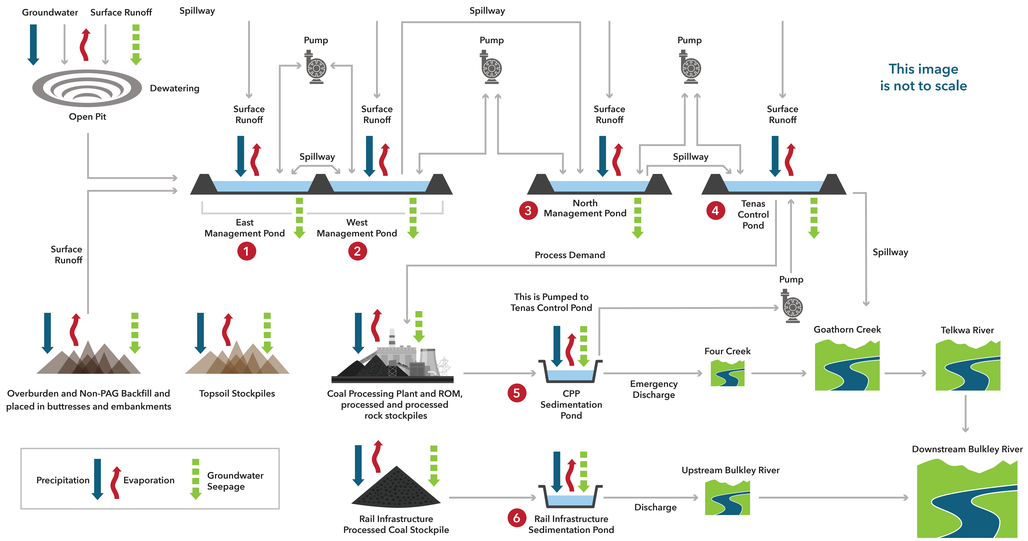
TENAS PROJECT

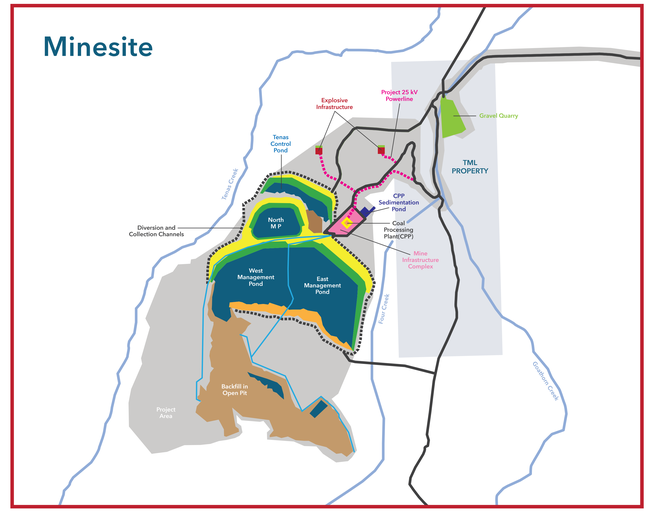
Water Management Plan

- Water collected on the minesite moves through multiple ponds, from the West and East Management Ponds to the North, and finally to the Tenas Control Pond.
  - This process allows suspended sediment to settle in the multiple ponds.
- Water collected in the Open Pit will move, by gravity or pumping, to the East, West or North Management Ponds.
  - Water in the West or East management ponds can flow or be pumped to each other and flow or be pumped to the North Management Pond.
  - Water in the North Management Pond can flow or be pumped to the Tenas Control Pond or pumped to either of the East and West Management Ponds.
- The Tenas Control Pond is the lowest elevation water management facility in the proposed mine development.
  - Used as a water storage facility and the last sedimentation pond for water that is to be discharged or is pumped for use in the Coal Processing Plant (CPP) and Maintenance Facility.
  - Water in the Tenas Control Pond is tested regularly to monitor water quality, even when there is no discharge.
  - Water is discharged to Goathorn Creek via a pipeline.
- Water in the Coal Processing Plant (CPP) Sedimentation Pond is pumped to the CPP to be used for process water or pumped to the Tenas Control Pond.
  - The CPP Sedimentation Pond is not forecast to discharge during the Operation phase of the Project.
- The Rail Infrastructure Sedimentation Pond collects contact water from the processed coal stockpiles and loading area and discharges into a dry tributary to the Bulkley River.
  - Water in the Rail Infrastructure Sedimentation Pond is tested regularly to monitor water quality, even when there is no discharge.

Water Sourcing

- Water for the Project will be sourced from precipitation that falls within the Project Footprint (onsite).





Non-Contact Water

- From areas that have not been affected by mining activities.
- This water will be diverted around mining activities.
- Precipitation that falls outside of the Project is diverted to prevent it from becoming contact water and requiring it to go through Mine Water Management System.

Water Movement Onsite

- Depending on where precipitation falls on site, contact water is directed and collected in one of six ponds:

1. West Management Pond
2. East Management Pond
3. North Management Pond
4. Tenas Control Pond
5. Coal Processing Plant Sedimentation Pond
6. Rail Infrastructure Sedimentation Pond

Contact Water

- Water that flows through the active mine area is called contact water.
- Contact water is collected and directed to management, control or sedimentation ponds where it is tested prior to discharge to the receiving environment.
- Contact water to be used in the Coal Processing Plant to separate processed coal from mine rock in the Maintenance Facility washbays and is used to cover potentially acid generating (PAG) materials within the Management Ponds.

Watersheds

- The minesite straddles two watersheds.
  - half of the minesite is in the Tenas Creek watershed, while the other half of the minesite is in the Four Creek watershed.
- Water modelling, baseline monitoring, and historical records show that there is sufficient water volume even in low water years to supply the Project for both the water needed to cover PAG materials and to process coal.

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