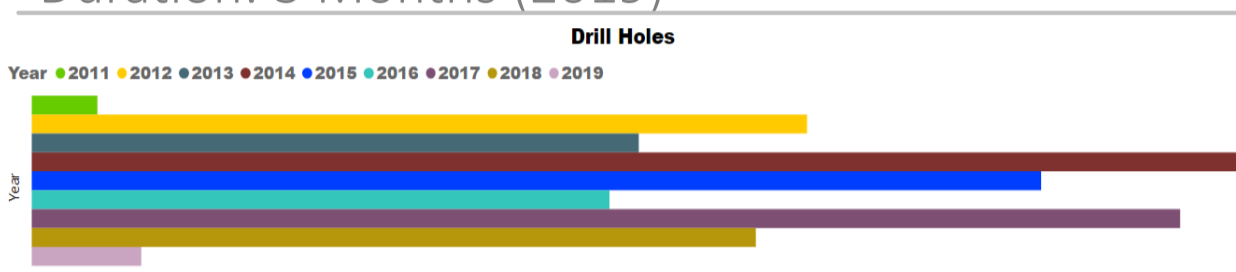




# ENVIRONMENTAL MANAGEMENT DATABASE

Client: Kumba Iron Ore  
Duration: 3 Months (2019)

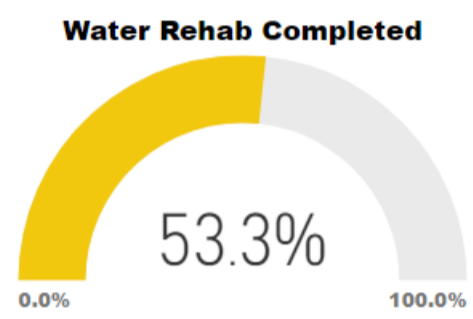
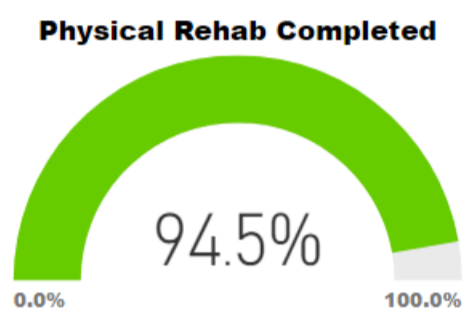
Project Team:



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## CLIENT NEED

Consolidating many years of exploration hole rehabilitation data and developing a database that contains real-time accurate data and can be accessed by all stakeholders.

## APPROACH

VBKOM investigated the complete need of the client to understand the requirement. All the previous years' environmental data was consolidated, and a structure was developed for the database. VBKOM collaborated with the client every step of the way to ensure that they were satisfied with the developing database and assured that their needs would be met completely.

Based on geological models, potential exploration holes are identified. Not all identified holes are drilled and therefore not all the holes need rehabilitation. Both physical rehabilitation and water rehabilitation are required on all the holes that were drilled for exploration purposes.

## VALUE DELIVERED

The database provides the following value-add:

- › Track which exploration holes require rehabilitation
- › List site conditions before drilling so that the environment can be returned to its original state after rehabilitation
- › Track progress of physical and water rehabilitation
- › Dashboards that provide a one-page view of the rehabilitation status for the exploration site
- › Send weekly updates to key stakeholders via email

## CAPABILITIES

The database has the following capabilities:

- › **Track Potential Exploration Holes:** All geologically identified co-ordinates of potential drill holes.
- › **Track Drilled Exploration Holes:** Holes that were drilled for exploration purposes and require rehabilitation.
- › **Compare Pre-Drill Site Status to Current Rehabilitation Status:** Ensure that each site is returned to pre-drill status with rehabilitation.
- › **Track Legal Requirements:** Environmental laws may prevent drilling in protected areas.
- › **Track Various Physical Rehabilitation Requirements for Each Hole:** Customisable physical rehabilitation criteria.
- › **Track Various Water Rehabilitation Requirements for Each Hole:** Customisable water rehabilitation criteria.
- › **Track Rehabilitation for Various Sites / Areas:** The client can track their rehabilitation status for various sites or mines, not just exploration.



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