

COPPABELLA COAL MINE

CHPP AREA – IMPLEMENTATION REPORT

EROSION AND SEDIMENT CONTROL IMPLEMENTATION AND MONITORING PLAN
December 2015

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1 Implementation Plan

This area specific Erosion and Sediment Control (ESC) implementation plan has been developed in accordance with the Coppabella Erosion and Sediment Control Plan. This ESC implementation plan has been divided into 3 key areas (Figure 1).

The ESC plan is based on a combination of erosion, sediment and drainage controls. The primary control to ensure the movement of sediment off lease is through erosion management and there is increased delineation between ESC and Worked water.

The CHPP ESC implementation plan was submitted to DEHP during March 2015. This report details and provides evidence of the completion of this plan.

1.1 Area 1

The extent of Area 1 as seen in the original ESC Implementation plan in March (Figure 10) has changed slightly as the western toe drain around the Co-disposal area was built for life of mine as per Figure 1 below.

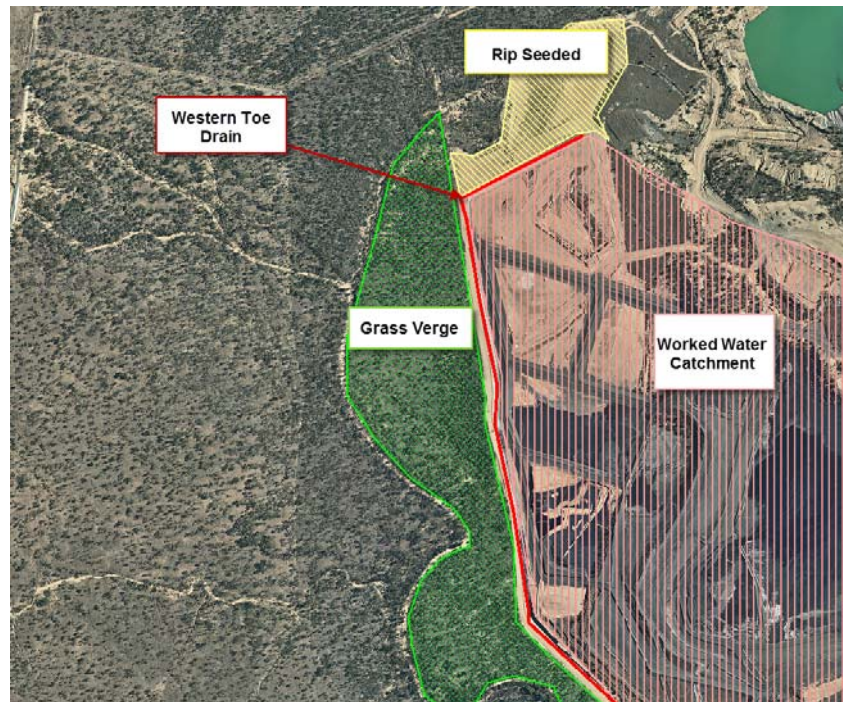


Figure 1 – Revised ESCP for Area 1 - CHPP

Erosion Controls

- The topsoil stockpile area to the North of the new C0-Disposal has been Ripped and Seed as per Figure 2 below.



Figure 2 – Co-Disposal Topsoil stock pile Ripped and Seed

Drainage Controls

- The construction of the Co-disposal Extension project also installed a long term drainage structure, the Western toe drain. This drain separates the worked water catchment from the ESCP catchment.



Figure 3 – Western Toe Drain

Sediment Controls

- Only small regions of area remained in the CHPP ESCP Area 1 which are not captured by the Western Toe Drain or that have not been ripped and seeded (LV Access road). The water from this catchment passes through a grass verge prior to entering the creek system.

1.2 Area 2

Area 2 (Figure 10) is located adjacent to the Return water dam. The small ESCP catchment area is predominantly dominated by an access road. Minor changes to the original implementation plan have occurred over the period and are seen in figure 4, and discussed below.

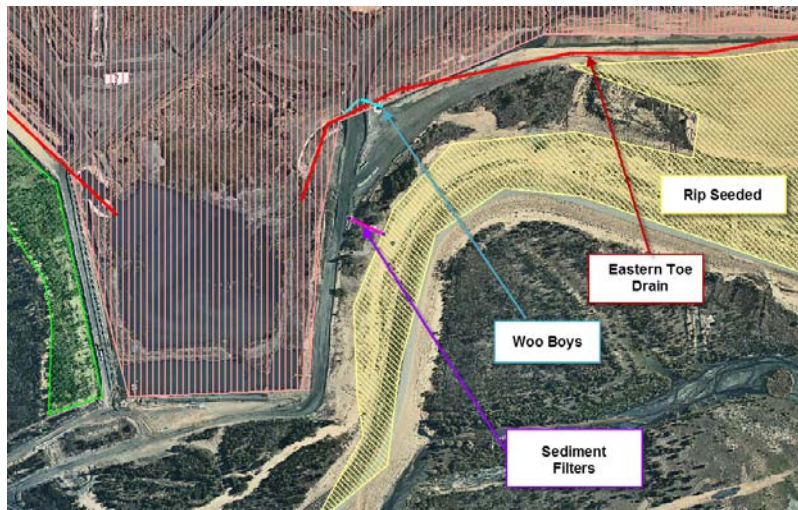


Figure 4 – Revised CHPP ESCP

Erosion Controls

- The road way has been Permian rocked capped for all weather access.
 - This was completed, however it was identified that additional controls would be required as mud from Moxi tires was transferring to the new surface.
- 2014 rehabilitation of the South Arm diversion was re-ripped and seeded during 2015 to encourage further growth in the area.

Drainage Controls

- A series of Woo Boys have been installed on the CDA access ramp, directing worked water into the Eastern Toe Drain, as seen in Figure 5 below.



Figure 5 – Woo Boy entry into Eastern Toe Drain

Sediment Controls

- A small sediment sump and spine drain was installed to the East of the Worked Water dam, however this was not effective in trapping the sediment.
- The installation of a sediment fence and fallen vegetation filters has now been installed as per Figure 6 below.



Figure 5 – Fallen Vegetation Filters.

- In addition to the above a series of rock checks have been installed in the south arm diversion to further aid erosion and sediment control until the diversion has sufficient vegetation to replace the structures.



Figure 6 – Rock Checks in South Arm Diversion.

1.3 Area 3

Area 3 (Figure 10) is located around the CHPP building and is predominantly focused around the segregation of worked and ESCP water. Details of area 3 are highlighted in Figure 7, and discussed below.



Figure 7 – Area 3 ESCP

Erosion Controls

- The topsoil stockpile has been seeded as seen in Figure 7
- Worked water catchments have been sheeted and drain into worked water structure and the catchment minimised as seen in Figure 7

Drainage Controls

- A drain has been formed along the North Western edge of the catchment with checks installed as per Figure 8.



Figure 8 – NW Clean water Drain.

Sediment Controls

- A Series of rock checks will be installed along the drain lines to slow velocity and trap sediment as illustrated in Figure 9.



Figure 9 – Clean water drain with rock checks.

2 Inspection and Maintenance Plan

The project will be inspected bi-annual, with a major inspection completed post wet season to highlight any required remediation works for that year. A minor inspection plan will then be completed pre wet season ensuring that any identified remediation requirements have been completed. Actions from inspections will enter the Peabody action tracking system.

2.1 Major Maintenance Inspection

A major maintenance inspection will be conducted post wet season (May), to ensure the structural integrity has been maintained and adequate sediment capacity is present.

- Area 1:
 - o Drains and Rock Checks inspected and desilted/ repaired where required.
- Area 2:
 - o Sediment trap will be inspected and desilted.
- Area 3:
 - o Drains and Rock Checks inspected and desilted/ repaired where required.

2.2 Minor Maintenance Inspection

A minor maintenance inspection will be completed pre wet season (November) or on completion of any actions from the Major inspection. The minor inspection will allow time for any minor remediation works to be completed prior to the wet season.

Figure 10 – CHPP ESCP AREA's

