



Broken Head Quarry

Enforceable Undertaking Progress Report

Report #2 – September 2018

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1 Introduction

This Report is the monthly report required to be given under clause 4.4(a) (“Reporting”) of the Enforceable Undertaking given by Leadshine Pty Limited on 20 August 2018 (“**Enforceable Undertaking**”). The Enforceable Undertaking commenced operation Tuesday 28 August 2018, the date of receipt of the withdrawal on that date of the Order 15 issued by the Department of Planning and Environment.

This is the second progress report under clause 4.4(a) of the Enforceable Undertaking. It relates to the period from Saturday 1 September 2018 until Sunday 30 September 2018.

The report describes works undertaken on the following aspects:

- Planning for the undertaking of rehabilitation works;
- Landforming Works and Stormwater Management Works carried out in September 2018;
- Vegetation Work carried out in September 2018; and
- Other rehabilitation related activities carried out in September 2018.

The director of Leadshine Pty Limited (Stuart Dixon-Smith) attended at the Quarry all day on 4 October 2018 to meet with Quarry staff (John Ward, Quarry general manager and Leonie Rowe, Quarry bookkeeper and office administration manager) to inspect the Quarry regarding progress on satisfaction of the requirements of the Enforceable Undertaking, and to Assist in preparation of this report.

2 Rehabilitation Planning

In conjunction with Mark Free of Blackwood Ecology and Ross Faithful of Eastcoast Bush Regeneration, a plan dividing the Quarry into manageable sectors has been prepared to aid in planning, implementation and reporting on rehabilitation works at the Quarry. The plan for the Eastside is attached at Annexure A and for the Westside is attached at Annexure B. A detailed description and high level sequencing for the next 3 months has been established for the Eastside, set out in the table in Annexure A. The focus for revegetation for October, November and December 2018 is to be on the Eastside, particularly areas PZE2, PZE3, PZE4, PZE5, PZE6, PZE7, PZE10, PZE 11, PZE12 and the Stony Hillside. This advance planning work will be replicated for the Westside during October 2018.

Mark Free is now undertaking the task of species identification and sourcing for these planned plantings, including an onsite meeting in the last week of September 2018 with Ross Faithful.

3 Landforming Works and Stormwater Management Works Progress

During September 2018 the Quarry’s landforming and stormwater works activities included 8 major activities over the month, summarised as follows:

- Re-landforming of the fire access trails and batters in areas PZE2, PZE3, PZE4 and PZE5 to reduce batter gradient, as required by the Rehabilitation Works Plans and Specifications. Civil contractors were engaged to undertake this tricky process given the difficulty of the batter

slopes, the proximity to mature vegetation and the amount of material required to be removed. Works involved moving the lower trail west to reduce batter between the upper and lower trail, and significantly lowering the trail north of the junction, and reshaping and topsoil of batters. Some further work removing oversized bunds and drainage work is still required.



Figure 1 - Eastside fire trail and batter reforming

The following series of photos show the completed landform:



Looking North, at crest of lower trail



Looking South, at crest of lower trail



Looking South east, below junction of upper and lower trail



Looking South, on relocated lower trail



Looking North, relocated lower trail



Edge of relocated lower trail – requires grassing



Looking North from base of upper trail



Looking North towards crest, upper trail



Looking South from middle of upper trail



Looking North from near crest, upper trail



Looking North from crest of upper trail



Looking South west from near junction of trails

- Finalisation of batter reshaping and topsoiling in the area PZE11 (Area 4 from the Rehabilitation Works Plans and Specifications) on the Eastside. Further fill materials have been placed in this gully, track rolled and seeded topsoil applied.



Figure 2 – Area 4 landforming and seeding

- Bund works and batter erosion repair in Area 5b on the Rehabilitation Works Plans and Specifications as shown below. A bund has been formed at the top of the batter to contain water flows down batter and prevent further erosion. A trial emplacement of seeded topsoil to fill eroded and rilled batter was undertaken in the most affected area and is being monitored. If successful, this procedure will be repeated across the entire battered area:



Figure 3 – Area 5b bund and erosion repair

The following photo shows the works undertaken as a trial. Further eroded areas in Area 5b will require similar treatment and hydromulching and revegetation:



- Repair of eroded drain area PZE10 on the Eastside. The eroded batter below a major drainage culvert was filled, covered with seeded topsoil and a drainage channel formed to take discharge from the culvert and prevent a repeat of the erosion. The formed channel was lined with concrete canvas. A second drainage channel was formed to take discharge from the road and it was also lined with concrete canvas:



Figure 4 – Drain repair

The following photos show the works undertaken:





- Preparation works have been undertaken for the creation of the new Central Dam on the Westside. This involved the deployment of civil contractors once the fire trail reforming works were complete. Works were very involved and are described further below. The dam wall had not been commenced as at the end of September 2018.



Figure 5 - Westside Central Dam Area

Further detail of works undertaken, and photos, follow:

- excavating the dam wall site and keying in to lateral cliff;
- excavation of channels for sub-dam drainage pipes;
- specifying and ordering of pipes and valves;
- excavation of dam and removal of old silt, causeway and culvert;
- reforming and topsoiling of dam banks, including Area 12 in the Rehabilitation Works Plans and Specifications;
- enlargement of wetland area adjacent to site of new dam wall; and
- creation of temporary emplacement site for excavated mud and silt for drying before being used for fill in the main fill emplacement area, PZW21

The following photographs show the works as at 4 October 2018:



Reformed dam banks (Area 12) circled



Excavated dam and reformed dam banks (taken from dam wall site)



Looking towards site of dam wall



Removed causeway and culvert and dam wall keyed area



Site of dam wall with drainage pipes installed



Site of enlarged wetland area

- The steep batter in area PZW11 was removed, battered to a shallow gradient, track rolled and topsoiled:



Figure 6 - Westside Batter works

See the following photographs:



- Westside drain from northern pad to Central Dam (Area 11 on the Rehabilitation Works Plans and Specifications) has been re-formed and rock-lined. Further work closer to the Central Dam will be undertaken once the dam is complete:



Figure 7 - Westside Upper Drain reforming

See the following photographs:





- Westside drain from central pad to the proximity of the Process Pond concrete lined and rocked:



Figure 8 - Westside Middle Drain concrete lined

4 Vegetation Works Progress

The significant areas were topsoiled and seeded, including those described in shown in Figure 1 - Eastside fire trail and batter reforming, Figure 2 – Area 4 landforming and seeding, Figure 3 – Area 5b bund and erosion repair, Figure 4 – Drain repair, Figure 5 - Westside Central Dam Area and Figure 6 - Westside Batter works, were hand seeded with grass following completion of the final landform and water cart irrigated.

Areas topsoiled and seeded in the past few months have struggled with low rainfall and have required water cart irrigation, but this has been with limited success. Heavier rainfalls experienced in September has assisted in the striking of seed and the seeded areas are looking good at present, as demonstrated by the photos preceding in this report and the following photos:



Areas PZE4, PZE5, PZE6, PZE9 and PZE13



Areas PZE11, PZE12 and PZE13



Areas PZE11, PZE12, PZE14 and PZE15



Areas PZE9, PZE14, PZE15 and PZE17



Areas PZE4, PZE6, PZE 11, PZE12, PZE13, PZE15 and PZE17

Detailed inspection was undertaken of the revegetation works on 4 October 2018 and further plans and sequencing of the next 3 months' revegetation activities, focussed on the Eastside, was undertaken for the purpose of this report – and is detailed in the table attached to Annexure A. The same process will be undertaken in October 2018 or early November 2018, focussed on the Westside, and the table attached to Annexure B will be completed in the report of activities for October 2018.

5 Other Works

Arrangements were further progressed for the decommissioning and removal of the Quarry washplant and weighbridge facilities. The washplant power supply disconnection was organised in the last week of September and undertaken on 3 October 2018. The workplace safety plan and method statement for removal was commenced by the buyer. Removal is expected during October 2018.

The weighbridge office shed was cleared in Early September and an inspection to plan the electrical and communications decommissioning was undertaken on 3 October 2018. Plans were made for the removal of the shed including preservation of the roof structure. The weighbridge and weighbridge office shed are expected to be removed by December 2018.

6 Other Matters

The Department published a press release during September 2018 (<https://www.planning.nsw.gov.au/News/2018/Broken-Head-Quarry-Agree-to-Rehabilitate-Old-Site-by-Mid-2019>) notifying of the execution of the Enforceable Undertaking, as envisaged and mandated by clause 5(b) of the Enforceable Undertaking.

Leadshine believes the press release included a number of factually incorrect statements about the requirements of the Enforceable Undertaking and will write separately to the Department regarding these items.

Leadshine has commissioned Sensis, which hosts the Broken Head Quarry website (<http://www.brokenheadquarry.com.au/>), to create a place for the Enforceable Undertaking, monthly progress reports and other documents relevant to the Enforceable Undertaking to be uploaded and viewed by the public, including a link to the Enforceable Undertaking at the Department's website if made available as envisaged by clause 5(a) of the Enforceable Undertaking. It is expected that these resources will be made available during October 2018.

7 Glossary, Definitions and Locations of Features

7.1 Features at Broken Head Quarry

The following plan identifies key areas at Broken Head Quarry and names used to define those areas in this and other Report.



The following waterbodies are contained at Broken Head Quarry:

- Sediment Pond No. 2 – this is the lower dam on the East Pit which has formed part of the Quarry for most of its operation.
- Sediment Pond No. 1 – this is the upper dam on the East Pit, constructed in 2014 with dam wall alterations undertaken in 2017.
- North No 1 Sediment Pond – this is the small pond on the West Pit at the north eastern edge of the limit of extraction.
- Temporary West Sediment Pond – or Central Dam – this is the pond in the centre of the West Pit which collects stormwater runoff from most of the West Pit and feeds the cut off drain.
- Process Pond – this is the main working waterbody for the Quarry, located north of the Maintenance Sheds on the West Pit. It supplied water for the sand and gravel washing plant.
- Upper Lilypond – This is a dam on the edge of the West Pit which collects natural waterflows from west and north of the Quarry and overflows from the Process Pond.
- Lower Lilypond – This is a dam on the edge of the West Pit which is downstream of the Upper Lilypond and collects natural waterflows from the Upper Lilypond.

7.2 Other Defined Terms

Broken Head Quarry means the former sand and gravel quarry operated on the land comprised in the Eastside Land and the Westside Land and consists of the following parcels of land:

- Lot 2, Deposited Plan (“**DP**”) 700806;
- Lot 1, DP 123302;
- Lot 1, DP 184443;
- Lot 1, DP 245836;
- Lot 1, DP 245605; and
- Auto Consol 12993-34.

Department means the NSW Department of Planning and Environment.

Eastside Land means the land comprised in titles:

- Lot 1, DP 184443;
- Auto Consol 12993-34; and
- Lot 1, DP 245605.

Enforceable Undertaking means the enforceable undertaking given by Leadshine to the Department dated 20 August 2018 accepted by the Secretary of the Department on 27 August 2018.

Leadshine means Leadshine Pty Limited (ABN 21 102 229 943).

Order means the Order 15 order issued by the Department to Leadshine under section 121B of the *Environment Planning and Assessment Act 1979* on 11 August 2017.

Rehabilitation Works Plans and Specifications means the plans and notes in in Appendix 1 and Appendix 2 of the Enforceable Undertaking.

Westside Land means the land comprised in titles:

- Lot 1, DP 123302;
- Lot 1, DP 245836; and
- Lot 2, DP 700806.

Terms defined in the Enforceable Undertaking and not defined in this Report have the same meaning as defined in the Enforceable Undertaking.

Annexure A Eastside Sectors



-  PZE - Planting Zone (Eastside)
-  E2 - Final Plantings
-  E3 - Supplementary Plantings

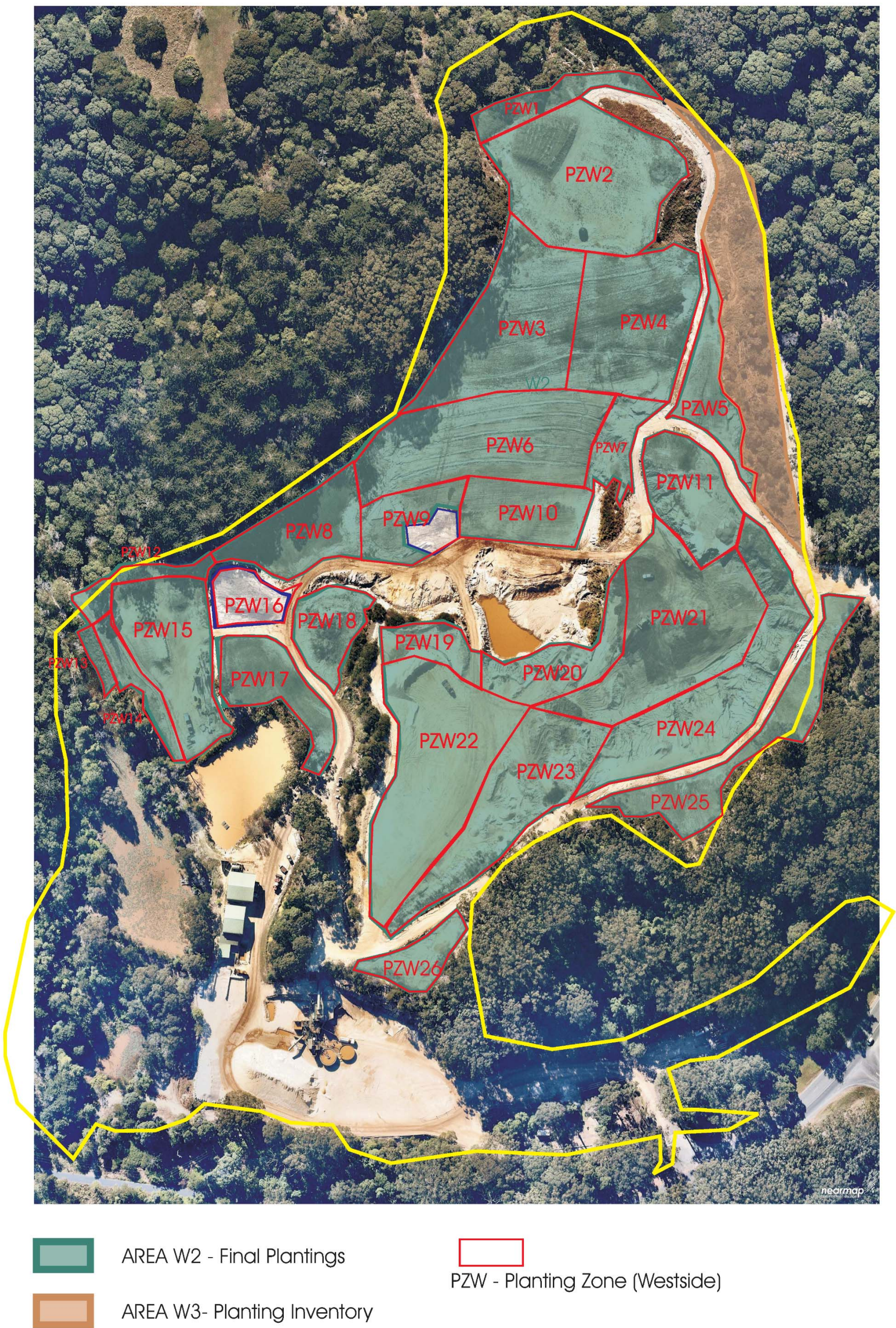
Eastside Rehabilitation Zones

Zone	Description	Status	Activity in September 2018 and Future Plans
PZE1	North Facing Batter below future fire trail	Well vegetated with established semi mature vegetation.	Under observation to see if any damage from earthworks above requires remedial planting. Unlikely any further vegetation will be required.
PZE2	Batter below future fire trail. Comprises part of Area 1 in the Rehabilitation Works Plans and Specifications	<p>Future fire trail to be re-landformed to reduce slope of batter. Area was hydromulched in January 2018 and contains some areas with semi mature regenerated plants. However, large areas are bare soil due to landforming works.</p> <p>Once fire trail is re-landformed batter to be hydromulched and planted with shrubs selected by Mark Free.</p> <p>Rehabilitation Works Plans and Specifications requires the following action: “REGRADE AREA TO LOWER TRACK ELEVATION TO MATCH GRADES TO SOUTH EAST. TRACK TO BE PROFILED WITH SINGLE CROSS FALL SOUTH EAST DISCHARGING TO EXISTING VEGETATED SLOPES. WHERE OUTFALL IS NOT POSSIBLE MITRE DRAINS TO BE PROVIDED AT 20 M INTERVALS.</p> <p>UNVEGETATED PORTIONS OF BATTER TO THE NORTH WEST OF TRACK TO BE REGRADE TO PROVIDE MAXIMUM 50% GRADE. BATTER TO BE TRACK ROLLED, TOPSOILED THEN REVEGETATED WITH SHORT TERM COVER CROP. FINAL REHABILITATION BY PLANTING WITH APPROVED SPECIES.”</p>	<p>Landforming works were undertaken during September 2018 in accordance with the Rehabilitation Works Plans and Specifications.</p> <p>Topsoil and planting expected to be undertaken in October and November 2018.</p>
PZE3	East side of future fire trail. Comprises part of Area 1 in the Rehabilitation Works Plans and Specifications	<p>Area outside of areas to be revegetated under Enforceable Undertaking. However, this area will be impacted by the re-landforming of the fire trail. Following fire trail re-landforming it is expected this will need some revegetation.</p> <p>Once fire trail is re-landformed batter to be planted with shrubs selected by Mark Free.</p>	<p>Landforming works were undertaken during September 2018 in accordance with Rehabilitation Works Plans and Specifications.</p> <p>Planting expected to be undertaken in October and November 2018.</p>
PZE4	Lower west facing batter above Sediment Pond No 1	<p>Area landformed and hydromulched in January 2018. Grass well established with some native plants self-generating.</p> <p>Area to be planted with shrubs selected by Mark Free. Minor additional grassing to be undertaken at edges of reformed road.</p>	<p>Minor alteration to location of road, relocating the lower access trail further west to allow for reduction of batter in area PZE5 Upper was undertaken during September 2018 in accordance with Rehabilitation Works Plans and Specifications.</p> <p>Timing of shrub plantings not yet determined.</p>
PZE5 (upper portion)	Upper west facing batter above Sediment Pond No 1. Comprises Area 2 in the Rehabilitation Works Plans and Specifications	<p>Area landformed to remove eroded slope and rilling in March/April 2018. Enforceable Undertaking requires area to be re-landformed to reduce batter and then revegetated.</p> <p>Once the batter is reformed to a reduced gradient area to be hydromulched (if required) and planted with shrubs selected by Mark Free.</p> <p>Rehabilitation Works Plans and Specifications requires the following action: REGRADE BATTER FROM LOWER TRACK TO PROVIDE MAXIMUM 50% GRADE. UPPER TRACK WIDTH TO BE ADJUSTED TO SUIT. UPPER TRACK SINGLE CROSS FALL TO SOUTH EAST TO BE MAINTAINED WITH DISCHARGE TO MITRE DRAIN AT NORTH EASTERN END OF AREA.</p> <p>LOWER TRACK TO BE REPROFILED WITH OUTFALL DRAINAGE TO REVEGETATED SLOPE TO WEST.</p>	<p>Landforming works were undertaken during September 2018 in accordance with the Rehabilitation Works Plans and Specifications.</p> <p>Mitre drain at bottom of upper trail yet to be installed.</p> <p>Hydromulching (if required) expected in October 2018 or November 2018. Planting expected to be undertaken in October and November 2018.</p>
PZE5 (lower portion)	Southern batter facing west above Sediment Pond No 1.	<p>Site of new drain and reformed batters where topsoil store previously located, fringed by vegetated and rehabilitated areas.</p> <p>Topsoil store removed and area re-landformed and drain constructed in August 2018. Seeded topsoil spread in August 2018.</p>	Area to be monitored to see if grass germinates and strikes given sandy quality of the endemic topsoil store and monitoring for erosion. Grass strike beginning to be evident in early October 2018.

Zone	Description	Status	Activity in September 2018 and Future Plans
			Depending on success or not of grass cover, the area may be hydromulched in November 2018. Once the grass cover is established naturally or through hydromulching, the area is to be planted with shrubs selected by Mark Free. Planting expected to be undertaken in November 2018.
PZE6	Dam wall and edges to Sediment Pond No 1	No landforming works required. Large culvert from PZE5 (lower portion) drain to Sediment Pond No 1 discharges to a highly eroded bank. Downstream area to be concrete filled to prevent further erosion. Revegetation required. Dam wall to be topsoiled as required to support selected plantings. Area to be planted with grasses and other vegetation selected by Mark Free.	Drain concreting to be undertaken in October 2018 or November 2018. Planting expected to be undertaken in October and November 2018 subject to availability of species.
PZE7	Batter below level pad. Comprises Area 5b in the Rehabilitation Works Plans and Specifications	Steeper batter showing some signs of rilling and erosion, but with a scattering of well-established shrubs. Hydromulched in January 2018 with limited grass cover established from that exercise. Bund to be constructed to stop water flowing from level pad PZE8 above. Erosion rills to be filled with seeded topsoil and plantings undertaken to assist in stabilising slope. Rehabilitation Works Plans and Specifications requires the following action: WHERE VEGETATION HAS NOT ESTABLISHED AND WHERE SURFACE RILLS HAVE FORMED REPROFILE WITH TOOTHED EXCAVATOR BUCKET {ACCESS FROM ROADWAY ABOVE OR ON SLOPE WHERE POSSIBLE). APPLY TOPSOIL THEN PROVIDE SHORT TERM COVER CROP. FINAL REHABILITATION BY PLANTING WITH APPROVED SPECIES.	Bund established during September 2018. Half of the eroded area successfully re-topsoiled during September 2018. Further topsoil emplacement and shrub plantings expected in November 2018 and December 2018.
PZE8	Level Pad	Landform finished except bund described in PZE7. Seeded in November 2017 and Hydromulched in January 2018. Bund to be constructed to stop water flowing to batter in PZE7 below. Area to be planted with shrubs selected by Mark Free.	Bund established during September 2018. Minor additional grassing to be undertaken at edges where new bund erected. Timing of shrub plantings not yet determined.
PZE9	Batter below access trail to settlement areas. Comprises Area 5a in the Rehabilitation Works Plans and Specifications	Hydromulched in January 2018 with very limited success. Scattered shrubs developed in clusters. Rehabilitation Works Plans and Specifications requires the following action: WHERE VEGETATION HAS NOT ESTABLISHED AND WHERE SURFACE RILLS HAVE FORMED REPROFILE WITH TOOTHED EXCAVATOR BUCKET {ACCESS FROM ROADWAY ABOVE OR ON SLOPE WHERE POSSIBLE). APPLY TOPSOIL THEN PROVIDE SHORT TERM COVER CROP. FINAL REHABILITATION BY PLANTING WITH APPROVED SPECIES.	Trial emplacement of seeded topsoil from road above undertaken during September 2018 which appears to have been successful. Trial hydromulch to be undertaken in October 2018 or November 2018 with shrub plantings to follow. Further seeded topsoil to be emplaced where required by December 2018, followed by hydromulching and shrub planting. Timing of shrub plantings not yet determined.
PZE10	Site of concrete pipe drain from above.	Highly eroded and disturbed area. Rehabilitation of highly eroded batter and new drain to be installed, and then hydromulched and revegetated.	Area filled with fill sand and seeded topsoil during September 2018. Concrete canvas drain installed to take discharge from concrete pipe in September 2018. Performance observed during recent rainfall and observed to perform well, future erosion eliminated. Area to be hydromulched in October 2018 or November 2018 and planted with shrubs selected by Mark Free. Planting expected to be completed by December 2018.
PZE11	Batter area. Comprises Area 4 in the Rehabilitation Works Plans and Specifications	Partially completed batter, awaiting further fill material and topsoil. Rehabilitation Works Plans and Specifications requires the following action: EXTEND BATTER WEST AND SOUTH TO PROVIDE MAXIMUM 50% BATTER SLOPES DOWN FROM ROAD. BATTER TO BE TRACK ROLLED,	Further fill emplacement undertaken and seeded topsoil spread during September 2018. Now being monitored for drainage performance and erosion. Area to be planted with shrubs selected by Mark Free.

Zone	Description	Status	Activity in September 2018 and Future Plans
		TOPSOILED THEN REVEGETATED WITH SHORT TERM COVER CROP. FINAL REHABILITATION BY PLANTING WITH APPROVED SPECIES.	Timing of shrub plantings not yet determined.
PZE12	South East facing batter	Landforming works complete and finished with seeded topsoil. Grass has germinated and beginning to establish.	Now being monitored for drainage performance and erosion. Area to be planted with shrubs selected by Mark Free. Timing of shrub plantings not yet determined.
PZE13	Settlement area	Boggy and very wet flat area. Sedge grass and other suitable species have been established and are being monitored. Planting of shrubs considered difficult if not impossible due to dangerous ground conditions meaning access for planting is unsafe.	Drainage boxes were altered during September 2018 in an attempt to lower the water level within the settlement area to see if water can be better drained to improve access conditions. Subject to ongoing monitoring. Planting at the very south end (where the ground level is higher is considered possible). Trial plantings to be conducted in early 2019.
PZE14	Upper reaches of Sediment Pond No 1	Comprises plume from settlement area PZE13 and runoff from road. Grasses slowly establishing themselves and small shrubs and sedge clumps establishing. Area to be planted with grasses and shrubs selected by Mark Free.	Road to be stabilised with road fill and possibly some drainage works to prevent further eroded runoff. Timing of shrub plantings not yet determined. Timing will depend on whether more radical earthworks are required to drain the settlement area PZE13 which might involve excavation of drainage lines in PZE14.
PZE15	East facing batter Comprises Area 3 in the Rehabilitation Works Plans and Specifications	Batter was landformed and topsoiled with seeded topsoil in late 2017. Small patches of un-topsoiled area remain where no vegetation exists, although these are not eroding. Shrubs have established well at the boundary with Sediment Pond No 1. Bare patches to be ripped, topsoiled and hydromulched. Area to be planted with shrubs selected by Mark Free. Rehabilitation Works Plans and Specifications requires the following action: ESTABLISHMENT OF VEGETATION TO BE MONITORED. WHERE VEGETATION ESTABLISHMENT IS INADEQUATE FURTHER SEEDING, HYDROMULCHING OR PLANTING TO BE UNDERTAKEN. WHERE SIGNIFICANT EROSION OCCURS (RILLS > 300 MM) FURTHER TOPSOILING, REPROFILING OR RIPPING WITH ADDITIONAL REVEGETATION WORKS TO ACHIEVE LONG TERM STABLE AND VEGETATED BATTER.	Timing of topsoil, hydromulch and shrub plantings not yet determined, likely to be early 2019.
PZE16	Flat pad former stockpile area	Stockpiles have all been removed during August 2018 and September 2018 except for topsoil awaiting emplacement in areas PZE7 through PZE12 inclusive.	Being monitored for erosion, at present no material erosion evident. Identified as one of the final areas to be topsoiled and planted, due to its suitability for, and use for, access, equipment parking and stockpile location. Expected to be ripped, topsoiled, seeded and planted in 2 nd Quarter 2019.
PZE17	Existing topsoil stockpile	Stockpile remains and occasionally is accessed to remove and screen topsoil for use in rehabilitation. Screening plant has been removed to Westside stockpile area.	Identified as one of the final areas to be rehabilitated and planted. Topsoil stockpile to be removed in 1 st Quarter 2019, then the site will be topsoiled, seeded and planted in 2 nd Quarter 2019.
"Stony Hillside"	Area identified as "stony hillside" in Mark Free monitoring report August 2018. Not shown in the plan above.	Mark Free Report identifies "Plantings on the stony hillside continue to develop slowly and there is some leaf litter buildup. Although there is little natural recruitment in these difficult conditions, a number of planted trees are very well established with Blackbutt, Turpentine, Coast banksia and Blackwood wattle forming an open canopy. Conditions will improve as leaf litter and organic material continues to build up. It has been decided to intervene to rehabilitate this area more quickly, and to introduce some topsoil, mulch and plant suitable species to complete the rehabilitation of area RE1 as identified in Mark Free's reports.	This work is expected to be undertaken by December 2018. Work will be undertaken in a manner that preserves access to the spillway for inspection, water sampling and maintenance.

Annexure B Westside Sectors



Westside Rehabilitation Zones [to be completed]

Zone	Description	Status	Future Plans
PZW1			
PZW2			
PZW3			
PZW4			
PZW5			
PZW6			
PZW7			
PZW8			
PZW9			
PZW10			
PZW11			
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