

Dunloe Sands Quarry

April 2016 – June 2016
3 Month Monitoring Report

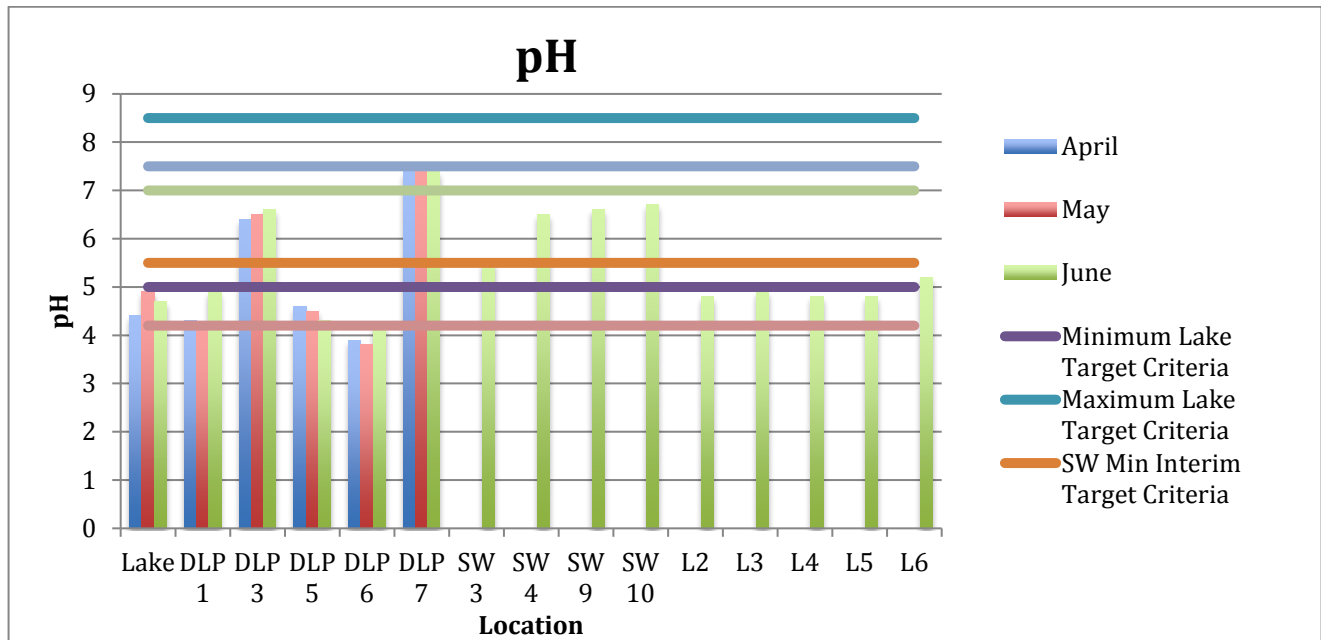
Prepared by Sasha Peterson for Ramtech Pty Ltd

1.0 - Lake, Groundwater and Surface Water (Surrounding Environment) Monitoring Results

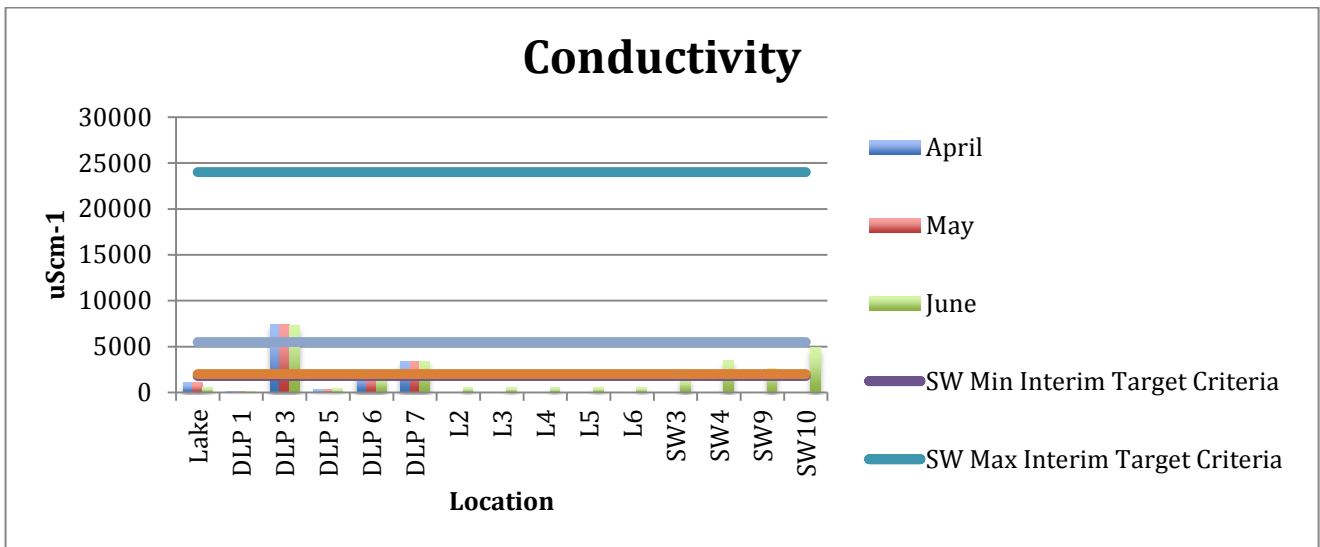
Table 1: Lake Algae Sampling

	07/04	29/04	24/05	30/06
Cyanophyta (cells/mL)	-	-	-	-
Chlorophyta (cells/mL)	9700	11800	5700	28930

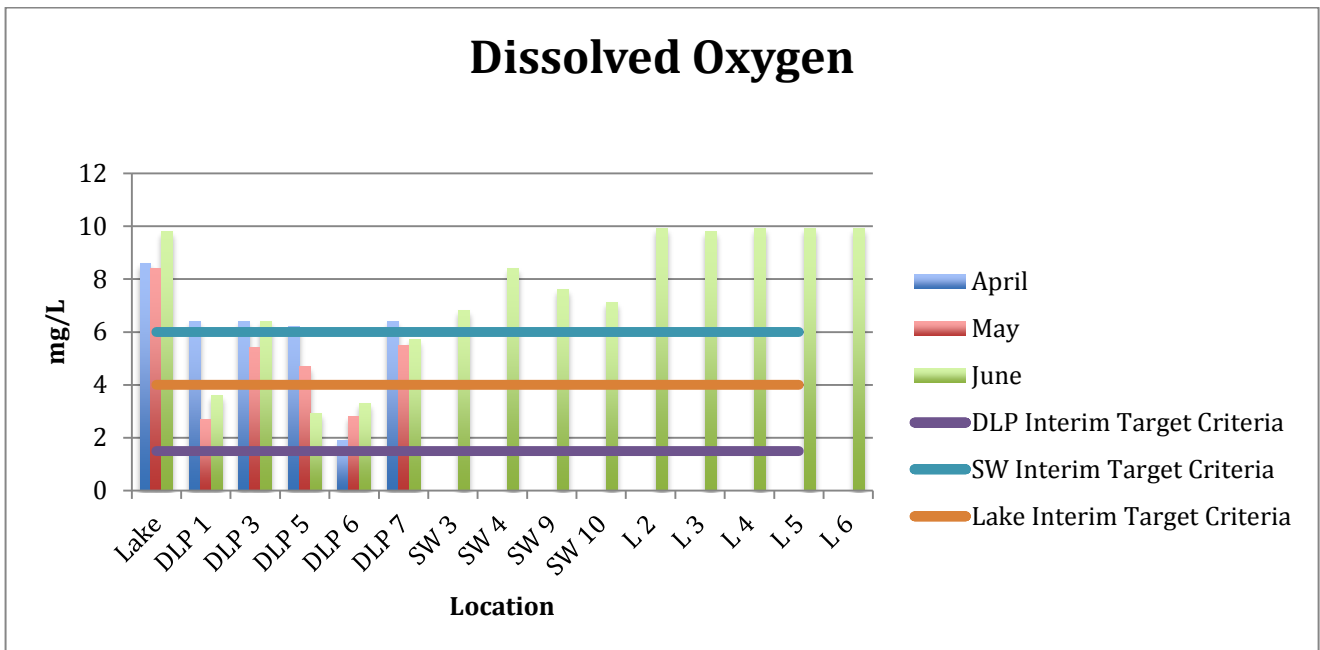
Graph 1: pH Sampling Chemical Analysis



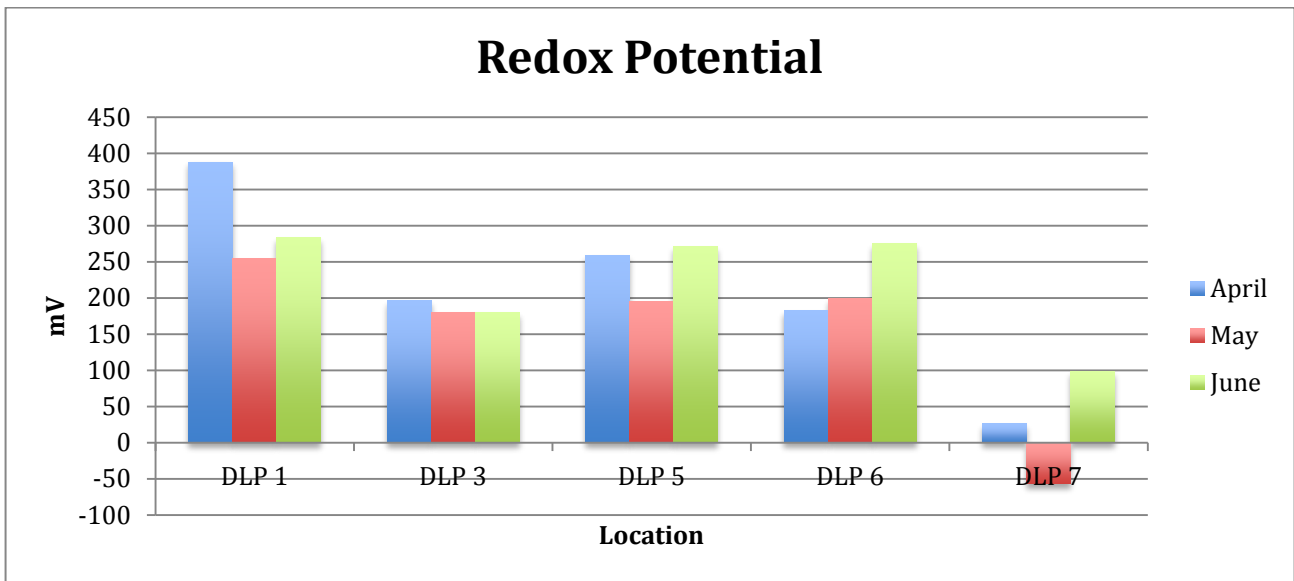
Graph 2: Electrical Conductivity Chemical Analysis



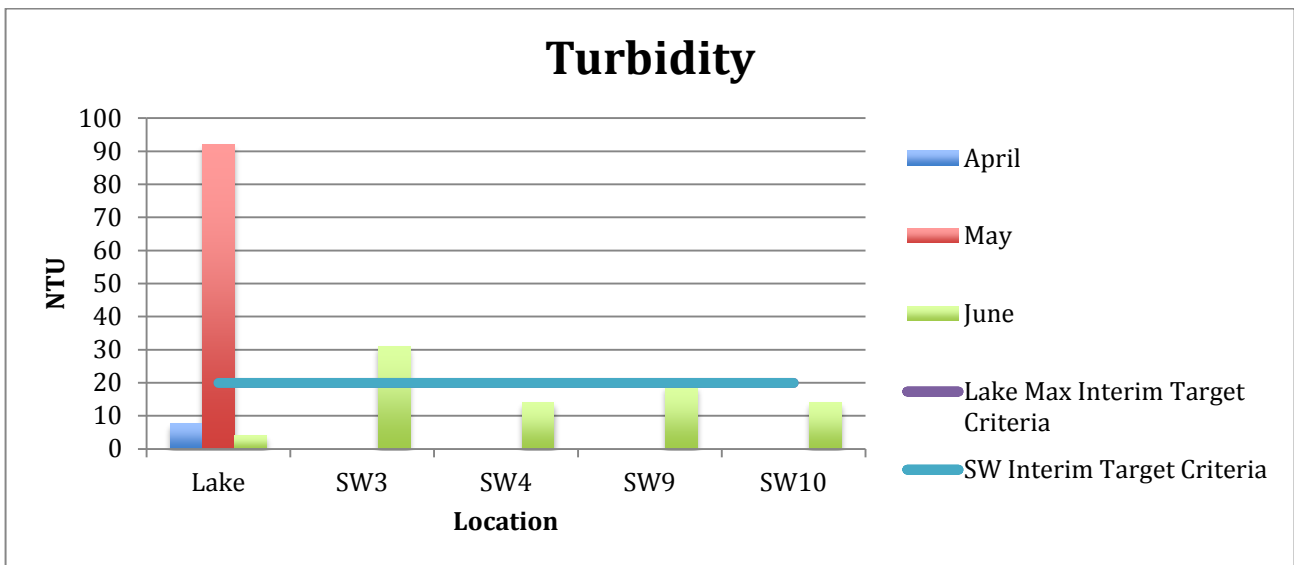
Graph 3: Dissolved Oxygen Chemical Analysis



Graph 4: Redox Potential Chemical Analysis



Graph 5: Turbidity Chemical Analysis



Graph 6: Suspended Solids Chemical Analysis

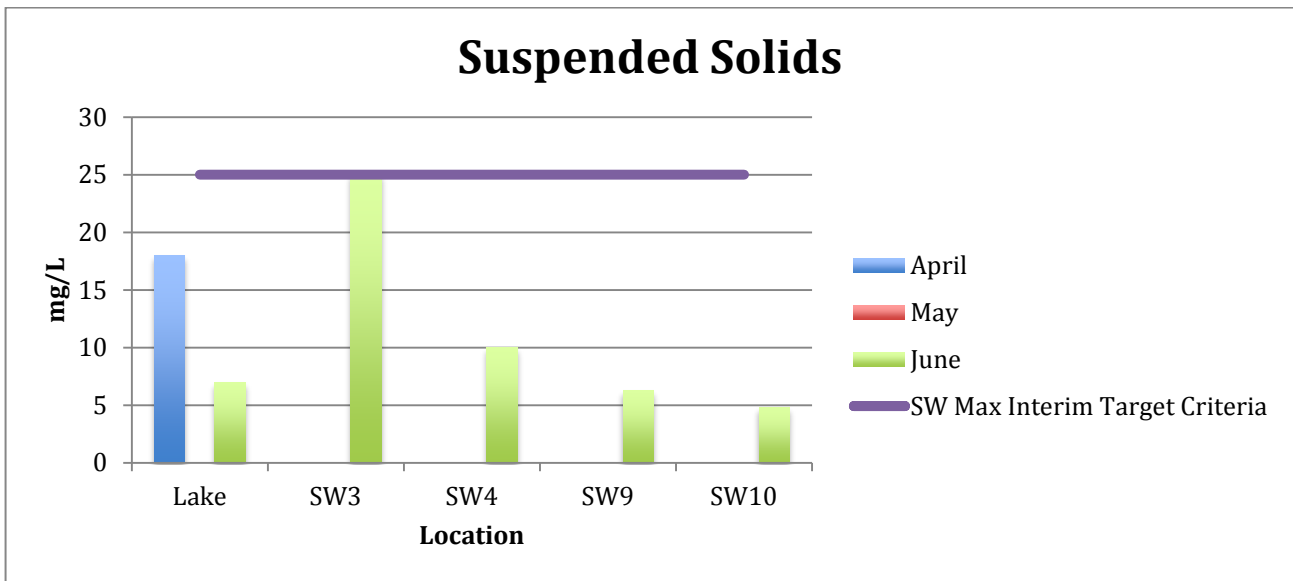


Table 2: Lake Oil and Grease Sampling

Oil and Grease	January 2016	February 2016	March 2016
Lake (mg/L)	<2	4	<2
Interim Target Criteria (mg/L)	10	10	10

Graph 7: Total Phosphorus - P Chemical Analysis

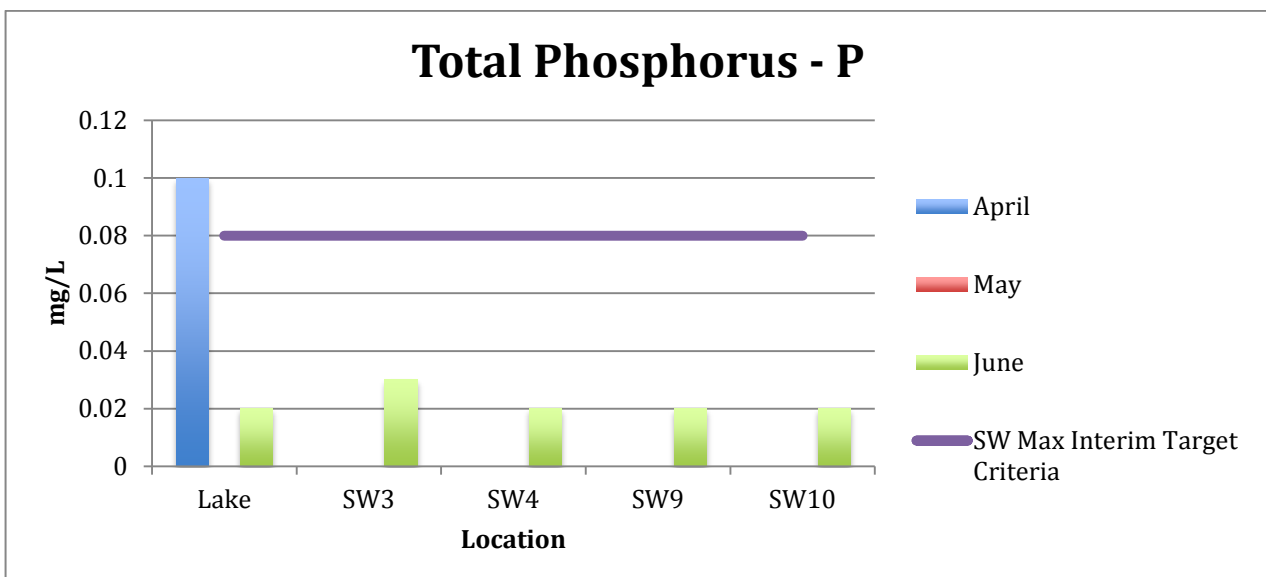


Table 6: Sulfur as Sulfate Chemical Analysis

	Lake	DLP 1	DLP 3	DLP 5	DLP 6	DLP 7
June 2016 (mg/L)	185	9.6	-	-	-	-
Sample Interim Target (mg/L)	175	175	175	175	175	175

Table 7: Aluminium (Total) Chemical Analysis

	Lake	DLP 1	DLP 3	DLP 5	DLP 6	DLP 7
June 2016 (mg/L)	4.50	0.47	-	-	-	-
Sample Interim Target (mg/L)	0.75	0.75	0.75	0.75	0.75	0.75

Table 8: Arsenic Chemical Analysis

	Lake	DLP 1	DLP 3	DLP 5	DLP 6	DLP 7
June 2016 (mg/L)	0.002	0.001	-	-	-	-
Sample Interim Target (mg/L)	<0.005	0.005	0.005	0.005	0.005	0.005

Table 9: Iron Chemical Analysis

	Lake	DLP 1	DLP 3	DLP 5	DLP 6	DLP 7
June 2016 (mg/L)	0.41	2.51	-	-	-	-
Sample Interim Target (ug/L)	<7.5	7.5	7.5	7.5	7.5	7.5

Table 10: Manganese Chemical Analysis

	Lake	DLP 1	DLP 3	DLP 5	DLP 6	DLP 7
June 2016 (mg/L)	0.555	0.014	-	-	-	-
Sample Interim Target (mg/L)	0.15	0.15	0.15	0.15	0.15	0.15

Table 11: Ammonia Chemical Analysis

	Lake	DLP 1	DLP 3	DLP 5	DLP 6	DLP 7
June 2016 (mg/L)	<0.02	-	-	-	-	-
Sample Interim Target (mg/L)	20	20	20	20	20	20

Table 12: Chlorophyll 'a' Chemical Analysis

	Lake
June 2016 (ug/L)	16
Sample Interim Target (ug/L)	2-10

Table 13: Alkalinity as CaCO₃ Chemical Analysis

	Lake	DLP 1	DLP 3	DLP 5	DLP 6	DLP 7
June 2016 (mg/L)	2	3	-	-	-	-
Sample Interim Target (mg/L)	-	185	185	185	185	185

Table 14: Bicarbonate as CaCO₃ Chemical Analysis

	Lake	DLP 1	DLP 3	DLP 5	DLP 6	DLP 7
June 2016 (mg/L)	2	3	-	-	-	-
Sample Interim Target (mg/L)	400	400	400	400	400	400

Table 15: Chloride Chemical Analysis

	Lake	DLP 1	DLP 3	DLP 5	DLP 6	DLP 7
June 2016 (mg/L)	36	18	-	-	-	-
Sample Interim Target (mg/L)	285	285	285	285	285	285

Table 16: Calcium Chemical Analysis

	Lake	DLP 1	DLP 3	DLP 5	DLP 6	DLP 7
June 2016 (mg/L)	57	3.5	-	-	-	-
Sample Interim Target (mg/L)	-	55	55	55	55	55

2.0 – Air Quality Monitoring

Table 17: Deposited Dust Chemical Analysis

Units (g/m ² /mth)	April	May	June
D1	0.2	0.3	0.3
D2	1.6	1.2	1.1
D3	0.2	0.3	0.3
D4	0.8	1.6	0.5

3.0 – Vegetation Monitoring

3.1 – Rehabilitation Monitoring Forms



FORM A: ROUTINE QUARTERLY REHABILITATION MONITORING SHEET		
<p>General Management</p> <p>Has there been a fire within the last quarter? <u>NO</u></p> <p>Do the bushfire trails or adjacent pasture areas require slashing or maintenance to reduce fire risk? <u>NO</u></p> <p>Is there evidence of rubbish dumping within the rehabilitation zones? <u>NO</u></p> <p>Is there evidence of plant theft within the rehabilitation zone? <u>NO</u></p> <p>Does it appear that the rehabilitation zone has been utilized for stockpiling, vehicle parking, building waste dumping, cattle grazing or person traffic? <u>NO</u></p> <p>If yes, acknowledge below what works were undertaken to rectify/restore and the date _____</p>	<p>Weeds</p> <p>Have any areas of weeds re-established within the rehabilitation zones during the last quarter? <u>NO</u></p> <p>What species? _____</p> <p>What management was undertaken to eradicate these weeds? _____</p> <p>If management was undertaken acknowledge that such was performed in accordance with the approved rehabilitation management plan. _____</p>	<p>Vegetation regeneration</p> <p>Natural regeneration is occurring in (record height range estimate):</p> <ul style="list-style-type: none"> - Tree species <u>1m-5m</u> - Shrub species <u>2m</u> - ground covers <u>1m</u> <p>What are the dominant species within each layer?</p> <ul style="list-style-type: none"> - Tree <u>Melaleuca quingginerita</u> - Shrub <u>Hebe acutifolia</u> - ground covers <u>Austromyrtus dulcis</u> <p>Have you noticed any new native plant species since the last monthly inspection? <u>NO</u></p> <p>If yes name the species or take a photograph _____</p> <p>Acknowledge that the required routine photographs have been taken within the rehabilitation zones</p>
<p>Biodiversity</p> <p>Have you spotted native fauna within the rehabilitation zone during inspection? <u>yes</u></p> <p>If yes, what types?</p> <p>Koala _____</p> <p>Kangaroo/wallaby _____</p> <p>Possums/glidens _____</p> <p>Small mammal (i.e. bandicoot, echidna) <u>yes</u></p> <p>Reptiles (i.e. snakes/lizards) <u>yes</u></p> <p>Birds of prey <u>yes</u></p> <p>Large nectar feeding birds (i.e. lorikeets, parrots, cockatoos) _____</p> <p>Small tree and ground birds (i.e. finches, fairy wrens, treecreepers) _____</p> <p>Glossy Black Cockatoos _____</p> <p>Other _____</p>	<p>Modifications</p> <p>Have there been any structural additions (eg. new tracks, buildings) to the rehabilitation zones since the last visit? <u>NO</u></p> <p>What actions were undertaken to remove any illegal modifications? _____</p> <p>Condition of fences</p> <ul style="list-style-type: none"> - <u>Good</u> - Need minor repair - Poor (need replacement) 	<p>Are any of the following performance criteria exceeded (refer Section 4.5 below)?</p> <p>Declared Weeds? <u>NO</u></p> <p>Extent of other Weeds? <u>NO</u></p> <p>Survival Rate of Plants? <u>Good</u></p> <p>Condition of Plants? <u>Good</u></p> <p>Canopy Coverage? <u>Good</u></p> <p>Tree, Small Tree & Shrub Diversity? <u>Good</u></p> <p>Groundcover Coverage? <u>OK</u></p> <p>General Coverage/Success? <u>OK</u></p> <p>If yes, what corrective action was performed (i.e. plant showed drought stress and so watering was undertaken, plant was dead so a replacement plant was pocket planted, canopy plant coverage was not achieved so relevant pioneer plants were pocket planted).</p>



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Rehabilitation & Revegetation Management Plan
 Dunloe Park Sand Quarry
 Ramtech Pty Ltd

PROFORMA FOR ASSESSING SITE CONDITION
PROJECT DESCRIPTION *Note: where options are given, put an 'X' next to the appropriate term(s):*

Project name: **DUNLOE SANDS QUARRY**

Site name: **REHABILITATION AREA 1A + B**

Type of on-grounds: Assisted Natural Regeneration

Current assessment conducted by: **DAVE WOODLEE**

Overall comments on site condition: *The Zone has heavy Regrowth and regeneration; condition of site is excellent.*

Project ID: **—**

Site ID: **—**

Years since site commenced:

Date of current assessment:

When was this site last assessed?

Has the condition of the site changed since last assessment? YES or NO *If Yes, briefly describe changes in this box, and provide details in table below.*

DETAILED DESCRIPTION OF SITE CONDITION *Complete table quarterly, or if conditions have changed since last assessment. Also draw map.*

Rating/ zone	Area (ha)	% of site	Location and factors affecting outcomes	Canopy cover (%)	Ground cover	Problem weeds	Tree survival or Recruitment	Other comments	Suggested maintenance
A = OK on track towards target			X	X	X	X	X		(should be routine: describe if necessary)
B = Uncertain significant problems									(describe)
C = Poor major problems, likely to fail									(describe)

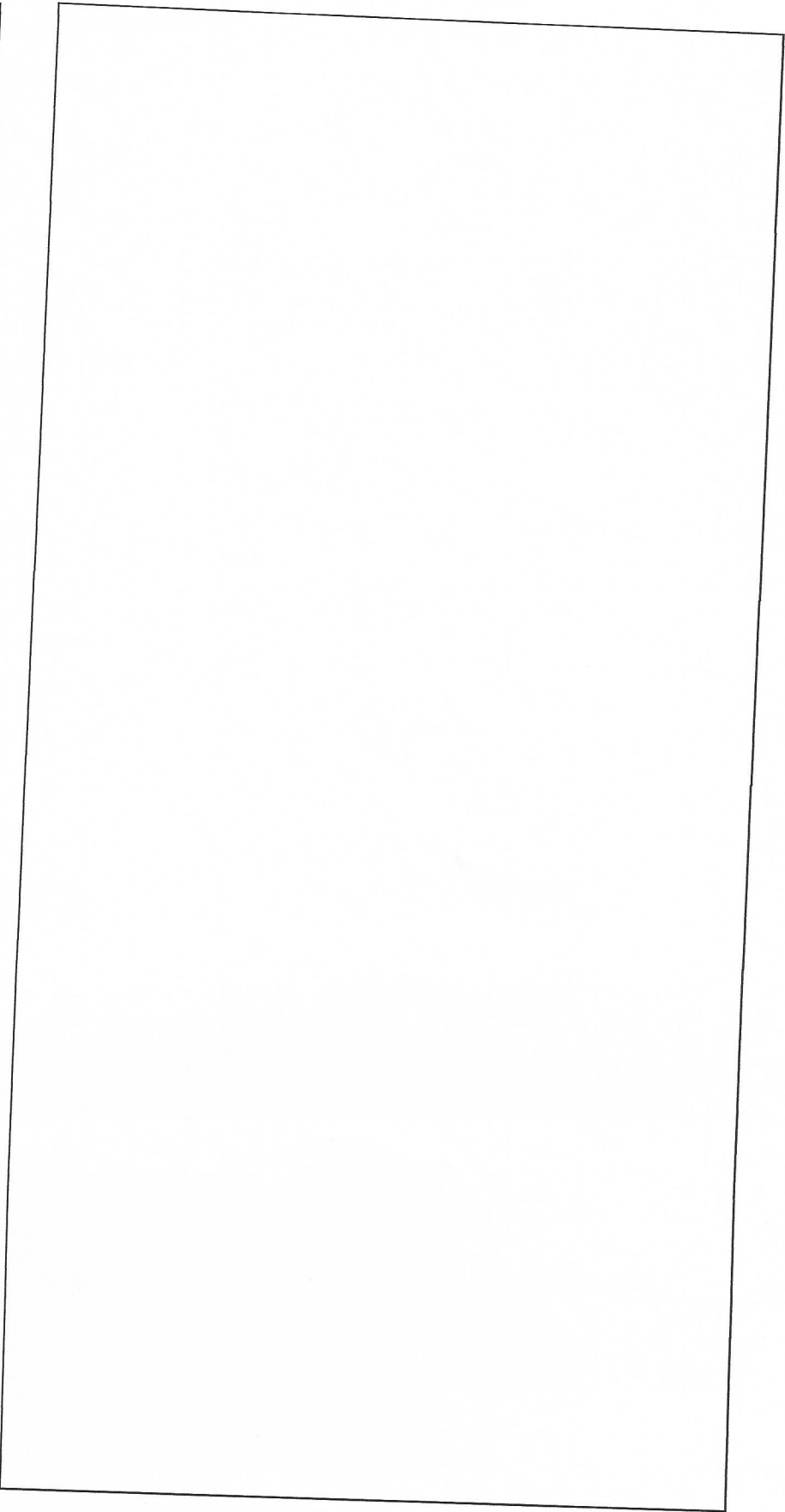
Overall Condition Score (ranges from 0-100%) *Multiply percentage of site occupied by each zone (A, B or C), by the condition rating for each zone (A = 1; B = 0.5; C = 0), and add the products: e.g. (70% x 1) + (20% x 0.5) + (10% x 0) = 80%*

..... %



Rehabilitation & Revegetation Management Plan
Dunloe Park Sand Quarry
Ramtech Pty Ltd

MAP OF SITE CONDITION *Note: also describe the condition of the site (previous page).*
Draw a map of the site, showing variation in outcomes as zones (Zone A = OK, Zone B = Uncertain, Zone C = Poor).
Include an approximate scale (e.g. 0-100 m) and North arrow.





PROFORMA FOR ASSESSING SITE CONDITION
PROJECT DESCRIPTION Note: where options are given, put an 'X' next to the appropriate term(s):

Project name: **DUNLOE SANDS PROJECT**

Site name: **REHABILITATION AREA 1C**

Type of on-grounds: Assisted Natural Regeneration

Years since site commenced:

Project ID: **—**

Site ID: **—**

When was this site last assessed?

Current assessment conducted by: **DAVE WOODLEE**

Date of current assessment:

Overall comments on site condition:
The zone is regenerating very well, lots of new species are coming up and getting to mid establishment height.

Has the condition of the site changed since last assessment? **YES** or NO If Yes, briefly describe changes in this box, and provide details in table below.

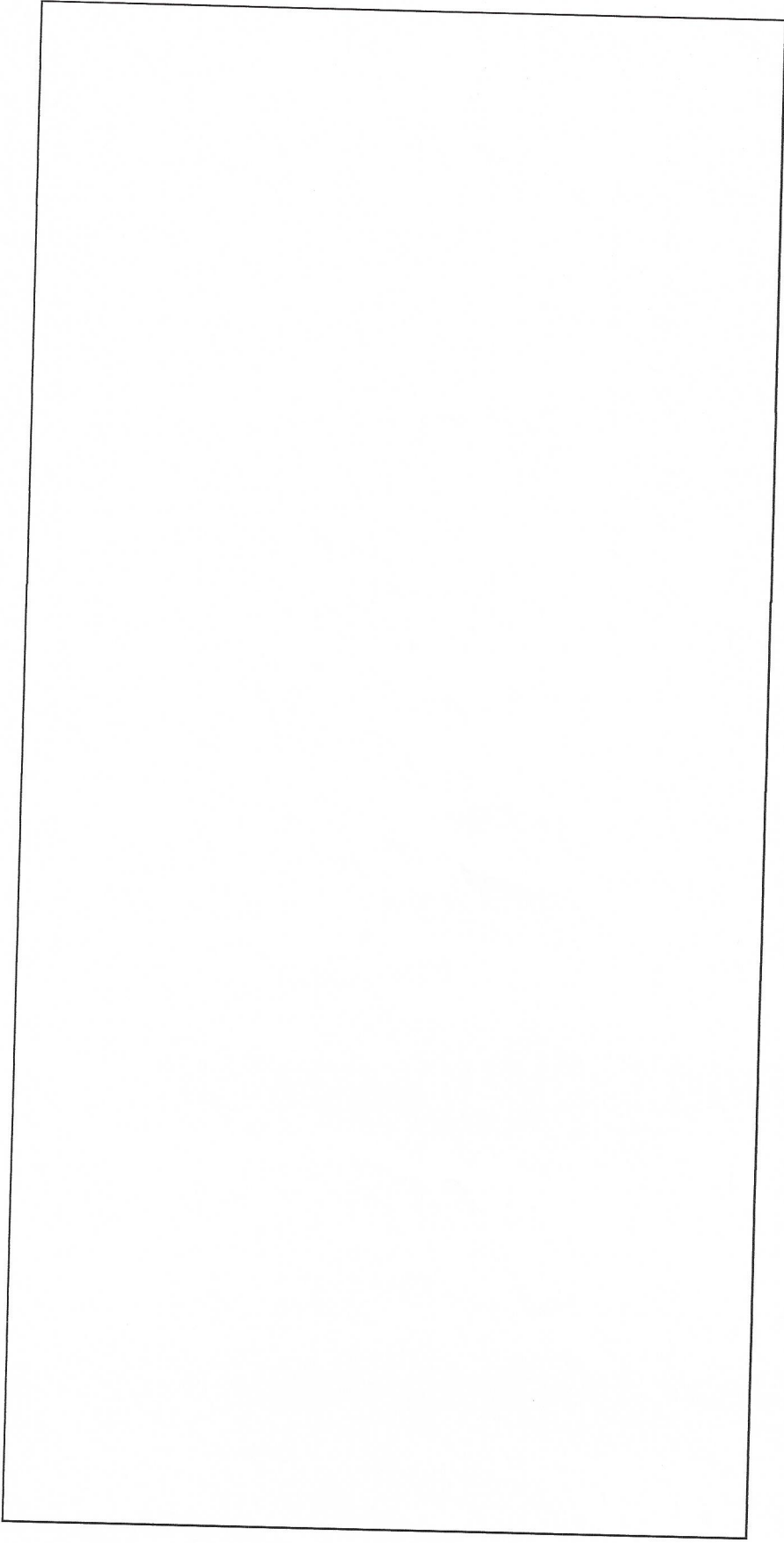
DETAILED DESCRIPTION OF SITE CONDITION Complete table quarterly, or if conditions have changed since last assessment. Also draw map.

Rating/ zone	Area (ha)	% of site	Location and factors affecting outcomes	Canopy cover (%)	Ground cover	Problem weeds	Tree survival or Recruitment	Other comments	Suggested maintenance
A = OK on track towards target				X	X	X	X		(should be routine: describe if necessary)
B = Uncertain significant problems									(describe)
C = Poor major problems, likely to fail									(describe)

Overall Condition Score (ranges from 0-100%) Multiply percentage of site occupied by each zone (A, B or C), by the condition rating for each zone (A = 1; B = 0.5; C = 0), and add the products: e.g. (70% x 1) + (20% x 0.5) + (10% x 0) = 80%



MAP OF SITE CONDITION *Note: also describe the condition of the site (previous page).*
Draw a map of the site, showing variation in outcomes as zones (Zone A = OK, Zone B = Uncertain, Zone C = Poor).
Include an approximate scale (e.g. 0-100 m) and North arrow.





PROFORMA FOR ASSESSING SITE CONDITION
PROJECT DESCRIPTION *Note: where options are given, put an 'X' next to the appropriate term(s):*

Project name: **DUNLOE SANDS PROJECT**

Site name: **REHABILITATION AREA 2A + B**

Type of on-grounds: Assisted Natural Regeneration

Current assessment conducted by: **DAVE WOODLEE**

Overall comments on site condition: *Site condition is good for 2000 trees that have been planted and lots of new species are coming up.*

Has the condition of the site changed since last assessment? **YES** OR NO *If Yes, briefly describe changes in this box, and provide details in table below. Site is growing really well*

Project ID: **-**

Site ID: **-**

Years since site commenced:

Date of current assessment:

When was this site last assessed?

DETAILED DESCRIPTION OF SITE CONDITION Complete table quarterly, or if conditions have changed since last assessment. Also draw map.

Routine Maintenance only needed

Rating/ zone	Area (ha)	% of site	Location and factors affecting outcomes	Canopy cover (%)	Ground cover	Problem weeds	Tree survival or Recruitment	Other comments	Suggested maintenance
A = OK on track towards target			X	X	X	X	X		(should be routine: describe if necessary)
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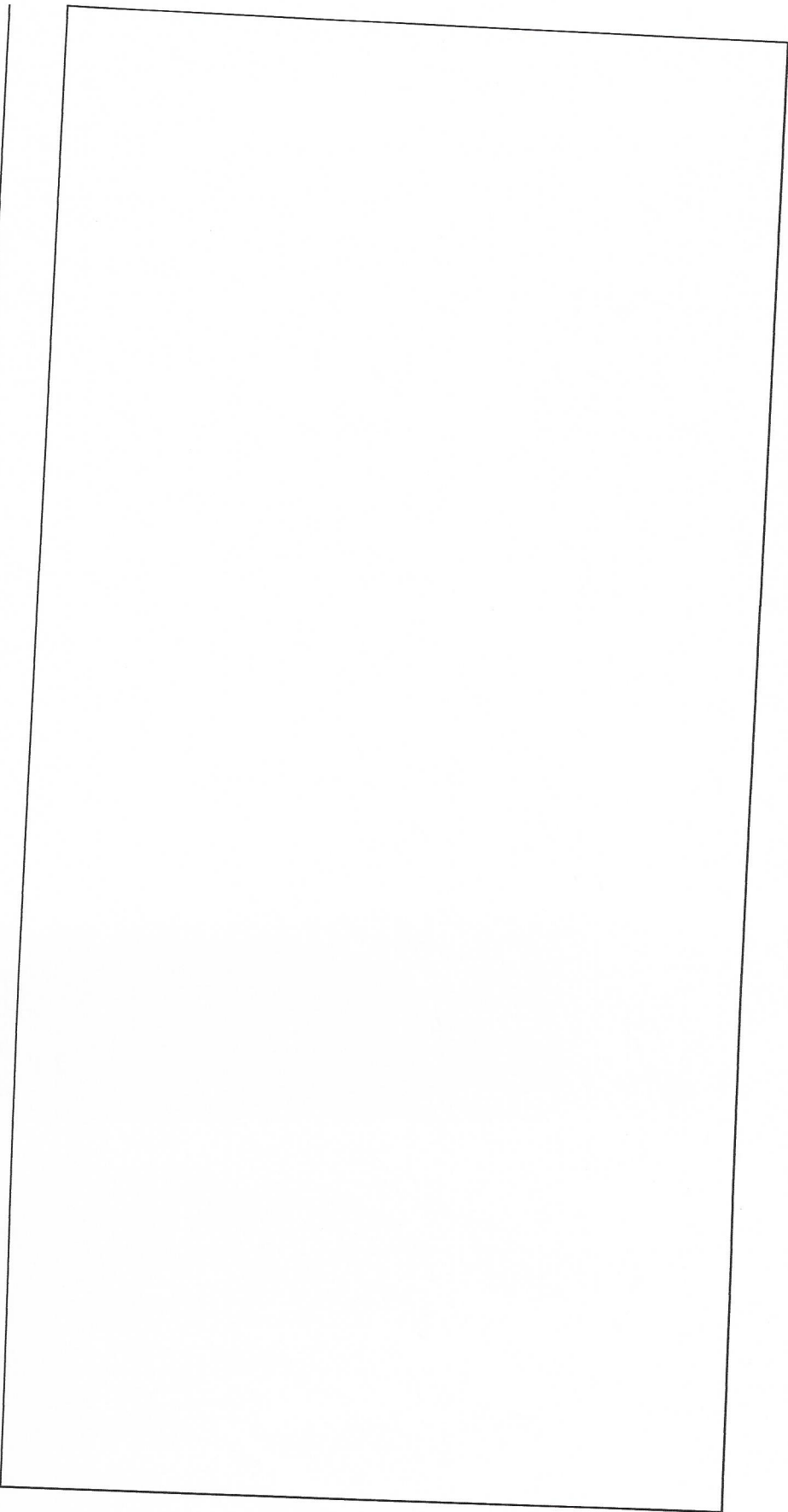
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..... %



CONSULTING

MAP OF SITE CONDITION *Note: also describe the condition of the site (previous page)*
Draw a map of the site, showing variation in outcomes as zones (Zone A = OK, Zone B = Uncertain, Zone C = Poor).
Include an approximate scale (e.g. 0-100 m) and North arrow.



3.2 – Rehabilitation Visual Monitoring



Image 1: Zone 1



Image 2: Zone 1



Image 3: Zone 1



Image 4: Zone 1



Image 5: Zone 1



Image 6: Zone 1



Image 7: Zone 1



Image 8: Zone 2



Image 9: Zone 2



Map 1: Photograph Locations