Plan Ref #	Activity	Approx Area (ha)	Approx Vol (m3)	Approx Duration of Activity (Months)	General Approach to Works	Water Management
Steady State Mining						
1	Topsoil Strip ahead of mine path	2	NA	Ongoing for consent duration 0-10 years	Stripping of topsoil ahead of mine path will occur on a just in time basis and will be stored in temporary stockpiles or in rehabilitation.	Infiltration Trench/Dredge Pond Infiltration
2	Dredge Pond	0.7	NA	Ongoing for consent duration 0-10 years		
3	Tails area & topsoil replacement	4	NA	Ongoing for consent duration 0-10 years		
4	Temp Topsoil Stockpiling	2	40,000	0-10 years	Material excavated from the starter pit and first mining sequence to enable a tailings deposition.	Infiltration Trench.
5	Temp Out of Pit Dump	3	60,000	0 – 5 years	Material excavated from the starter pit and first mining sequence to enable a tailings deposition.	Infiltration Trench.
6	Drainage Swales	6.4	64,000	0-10 years	Drain swale on either side of the dredge pond and topsoil stripping/replacement.	Discharge to infiltration trench.
7	Service roads etc	3	30,000	0-10 years	Strip topsoil and place geotextile and aggregate for road establishment. Once initial earthworks are completed the road surface will be stabilised.	Infiltration Trench.
8	Vegetation establishment.	3	NA	6-36 months	Related to the eastern area vegetation removal operation	SSESCP Detail ESC measures.
Total Steady State Area (ha)		24.1				
Mining Contingency						
	15% Contingency	3.6				
Maximum Disturbed Area Steady State (ha)		**27.72**				

Plan Ref #	Activity	Approx Area (ha)	Approx Vol (m3)	Approx Duration of Activity (Months)	General Approach to Works	Water Management
Plant Establishment Phase						
9	Plant site	4.4	NA	0 – 3 months	This involves stripping the topsoil and then placement of aggregate. Will occur over a short period then fully stabilised.	Surface water to be treated in infiltration trench. Traditional controls can be implemented if required.
10	Bund establishment	2.5	30,600m^3	0 – 3 months	As per project description, material will be sourced from the site and consist of top soil overburden and potentially washed tailings. The placement involves strip topsoil and then place fill. Stabilise (plant) as bund reaches height.	Eastern side of the bund will utilise infiltration and the western side (roadside) we will place a silt fence (or similar) between the bund earthworks and the water table drain.
11	Northern Bunds and Walkway	0.4	12,000m^3	0 – 3 months	As per project description, material will be sourced from the site and consist of top soil overburden and potentially washed tailings. The placement involves strip topsoil and then place fill. Stabilise (plant) as bund reaches height.	Infiltration utilised.
Eastern Boundary						
12	Vegetation removal and required diversions etc during this process.	4	NA	6-36 months	Vegetation will be removed in stages with advancement of the mining void. Trees are dropped and stumps and soil and organic matter removed and placed in rehabilitation area behind mining (VDT) Drainage channels with the vegetation will be bunded off at the end of removal works. we would place a decant or SRP at the lower end of the “drain” and then undertake these works above this location. Vegetation only removed immediately ahead of the mine path	Stream diversion may not be required but will assess in detail. Establish a SRP at lower end of the 4ha area. Undertake during a period of no flow and in summer months only.
13	Eastern boundary Drainage channel	2.5	N/A	6-12 months	Mining in close proximity to two existing drainage points.	Diversion channels, sediment control methods and infiltration.
Total EW Area Establishment Phase		**9.8 ha excluding vegetation removal**				