Rix's Creek South Mine

SSD6300 IPCN Additional Information – Mine Plan

6 September 2019

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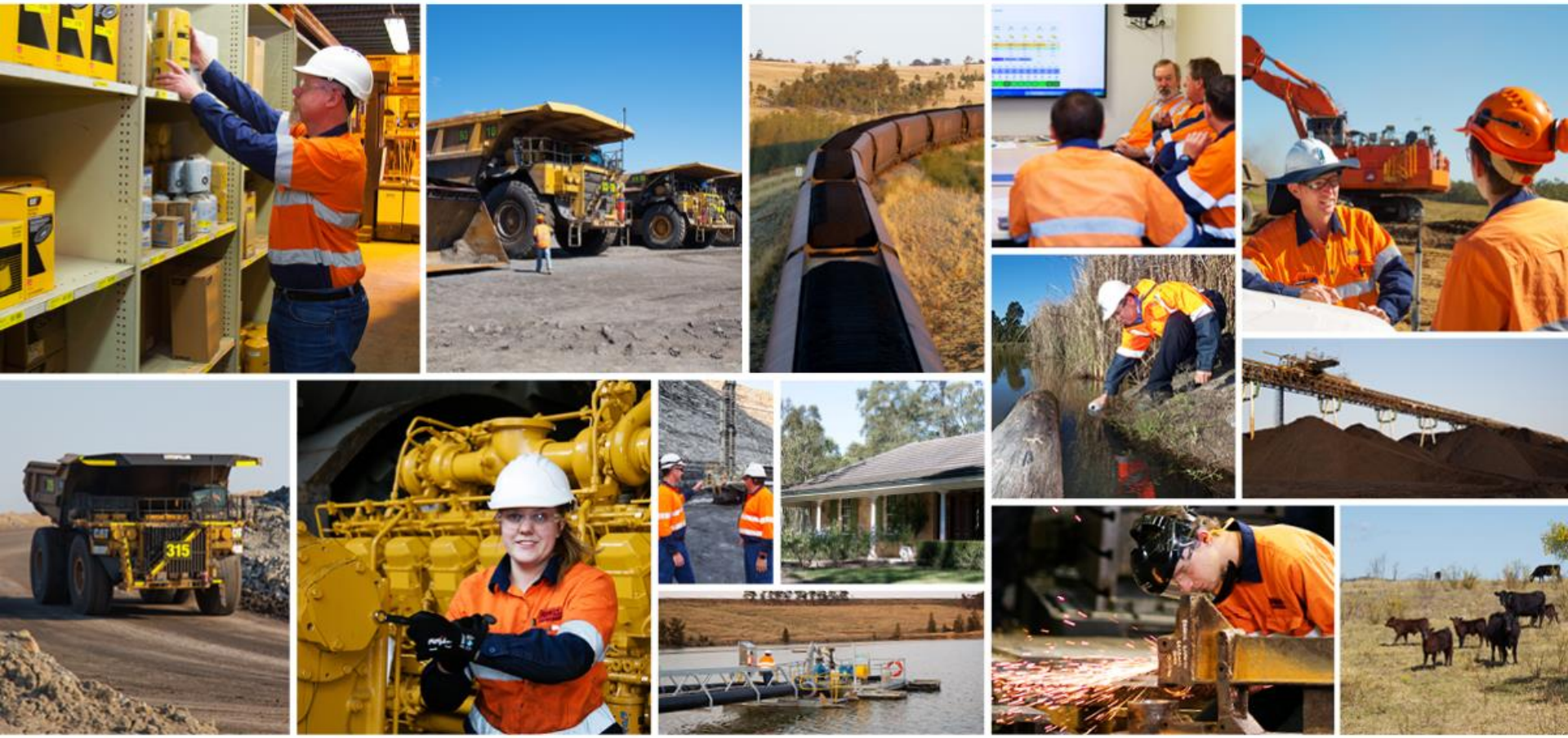

OUR PURPOSE: We are a proud and successful Australian mining and engineering group

OUR VISION: We seek excellence in all we do: respecting our history as we shape our future

OUR VALUES: We Care. We Deliver.

Preferred Mine Plan and Option 1 Comparison 2020

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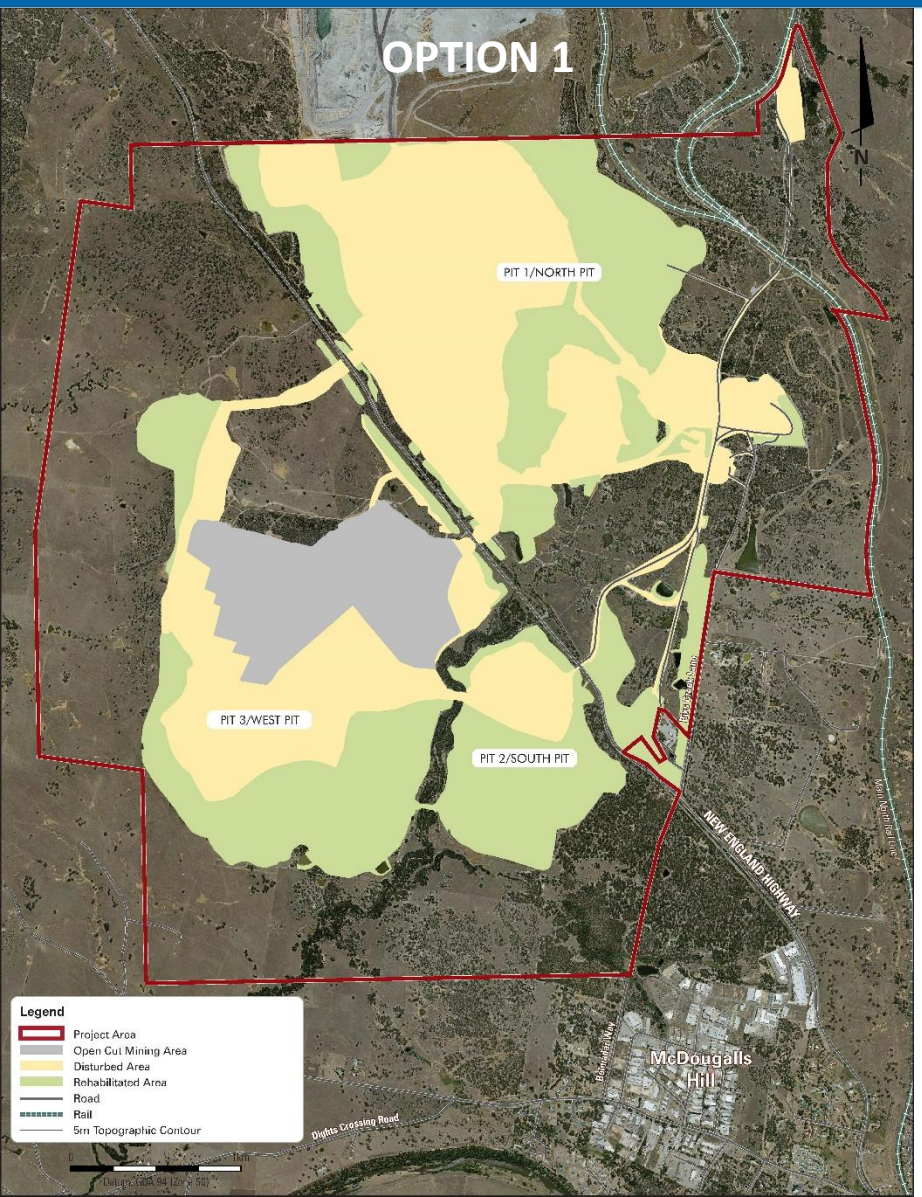

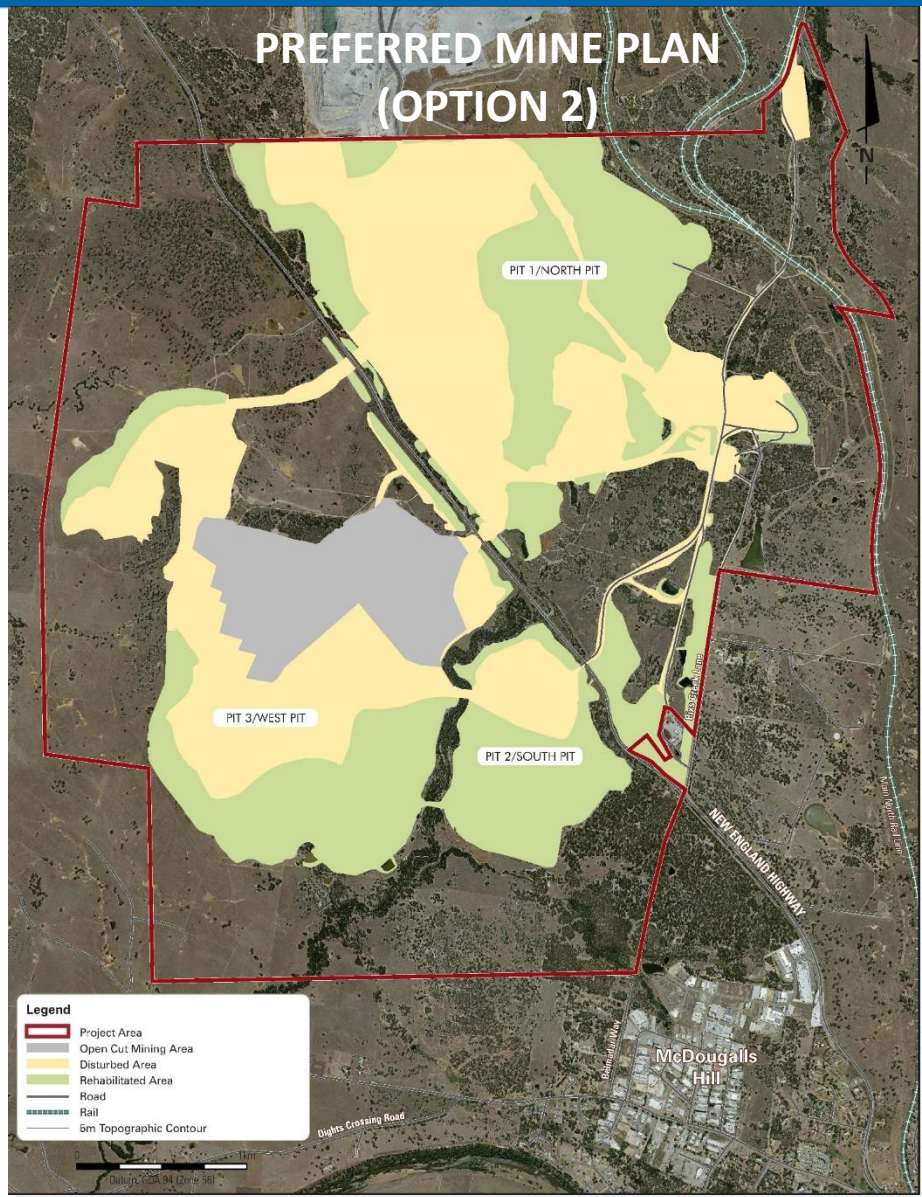

Preferred Mine Plan and Option 1 Comparison 2021

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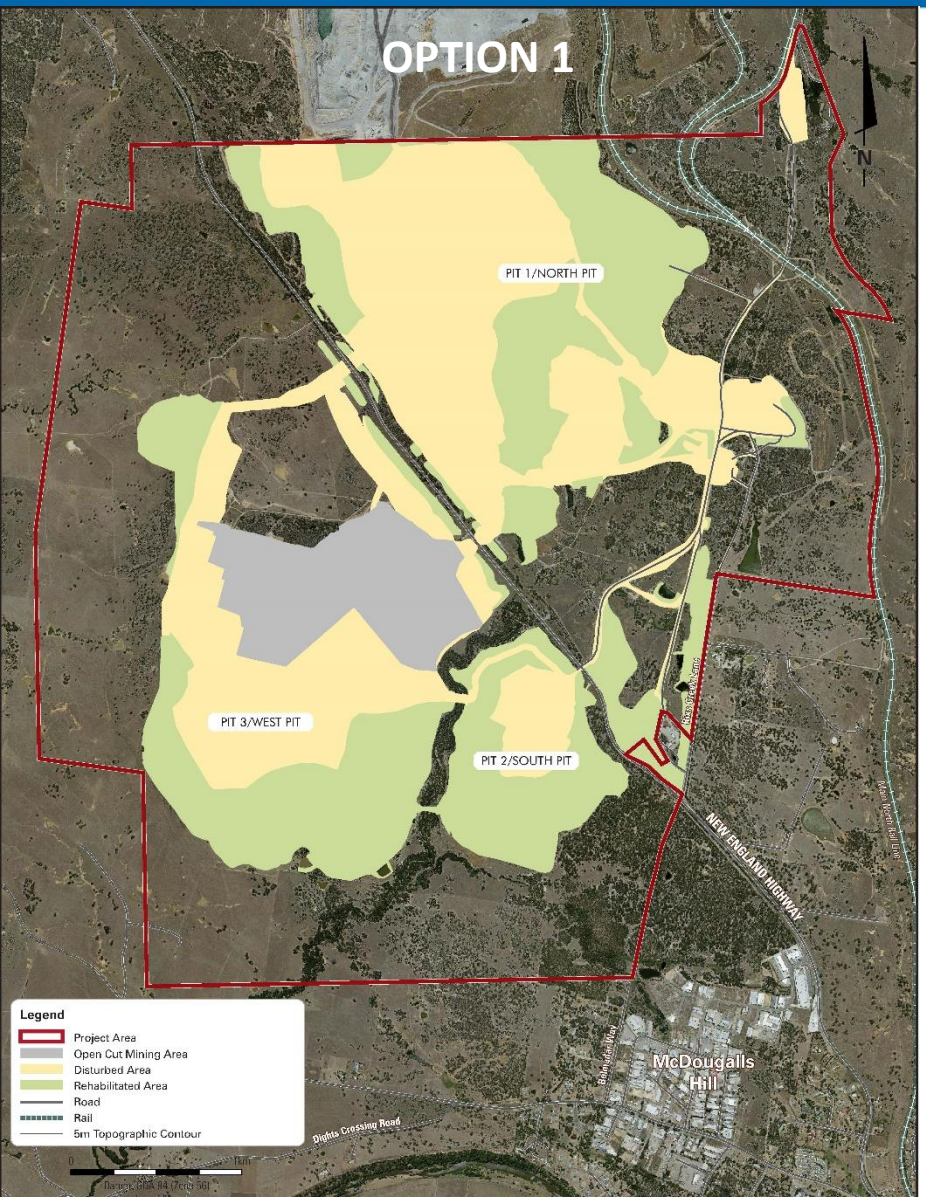

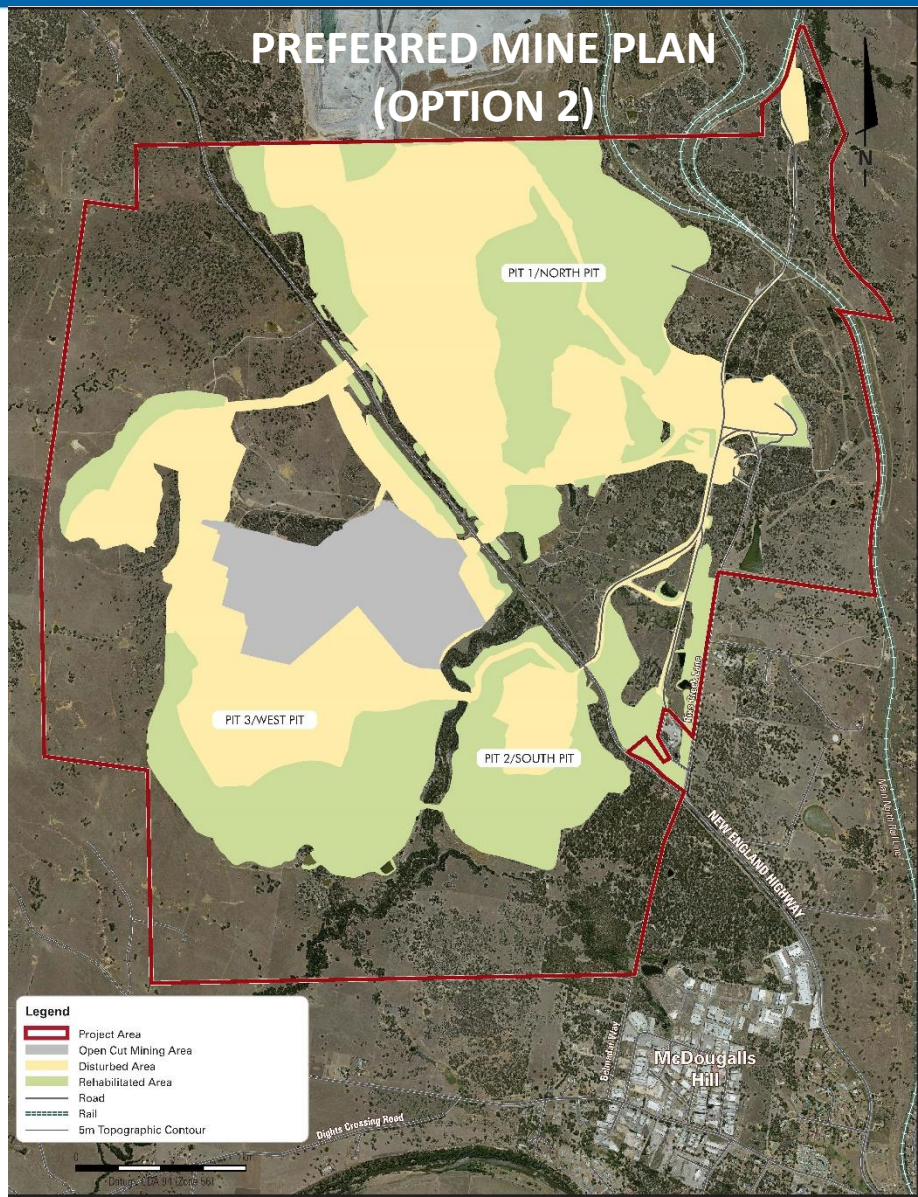

Preferred Mine Plan and Option 1 Comparison 2022

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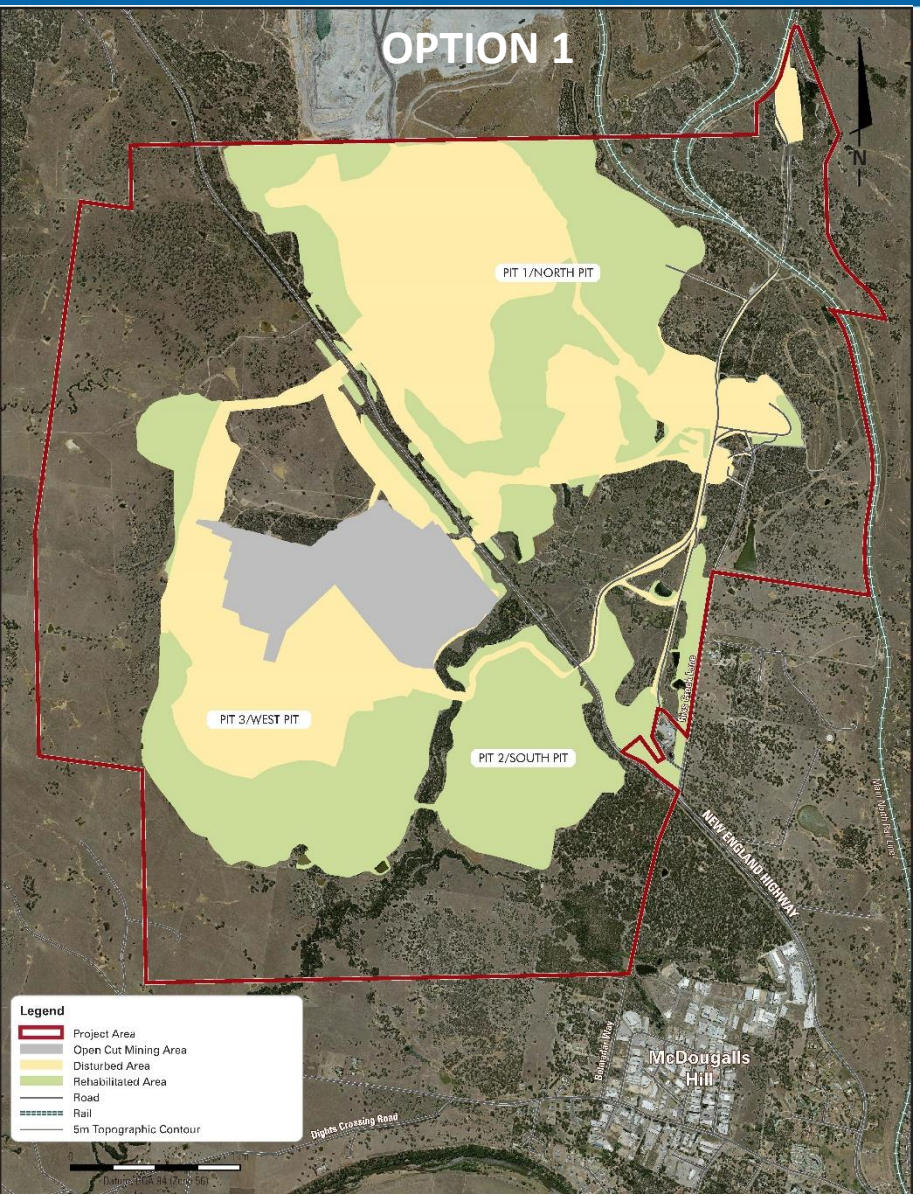

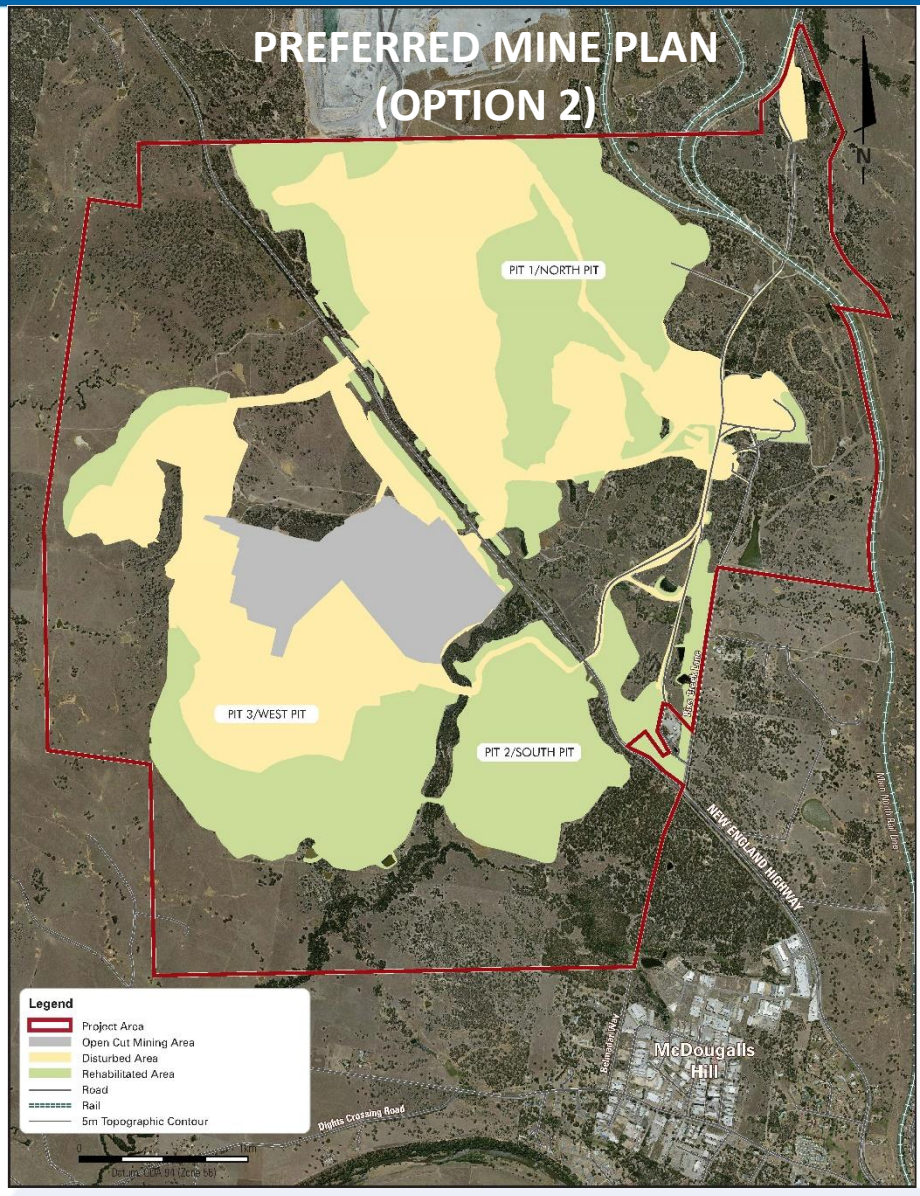

Preferred Mine Plan and Option 1 Comparison 2023

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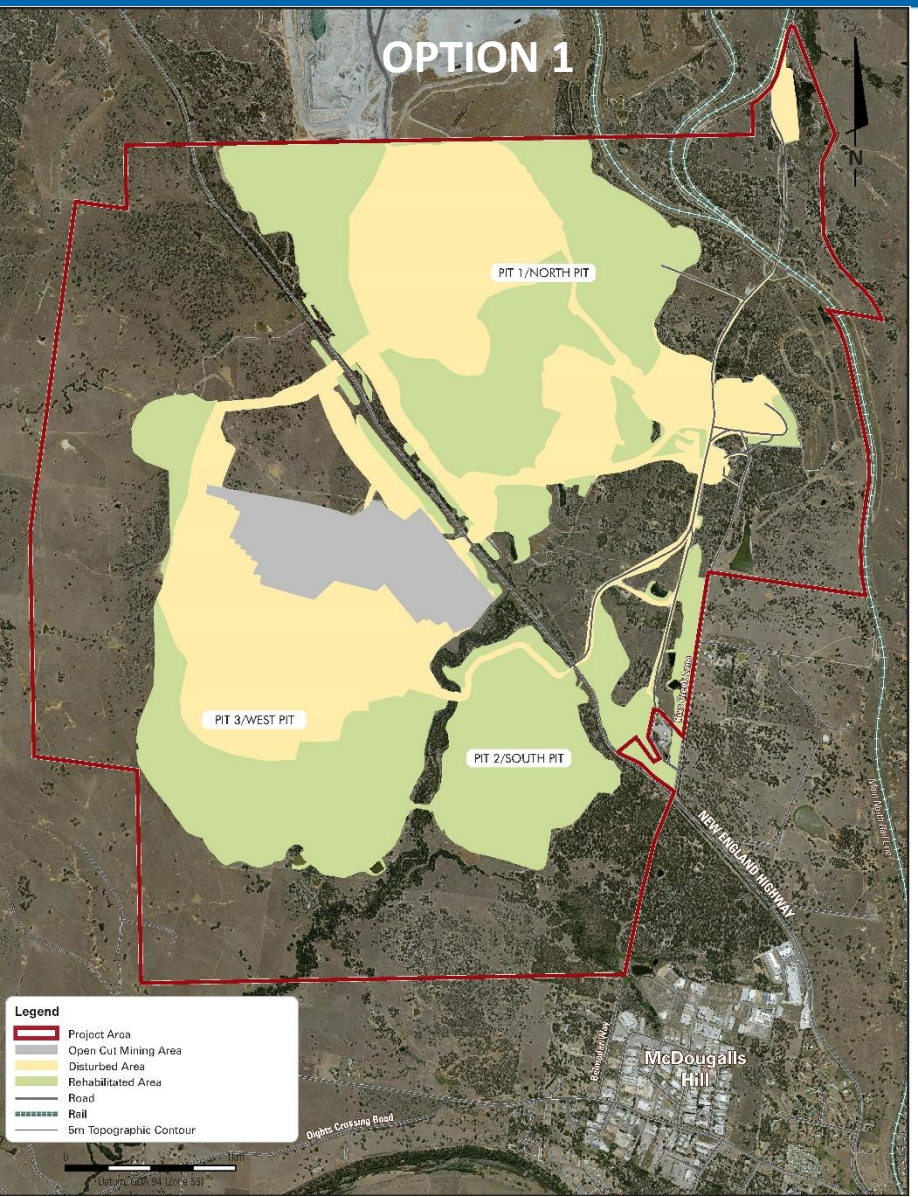

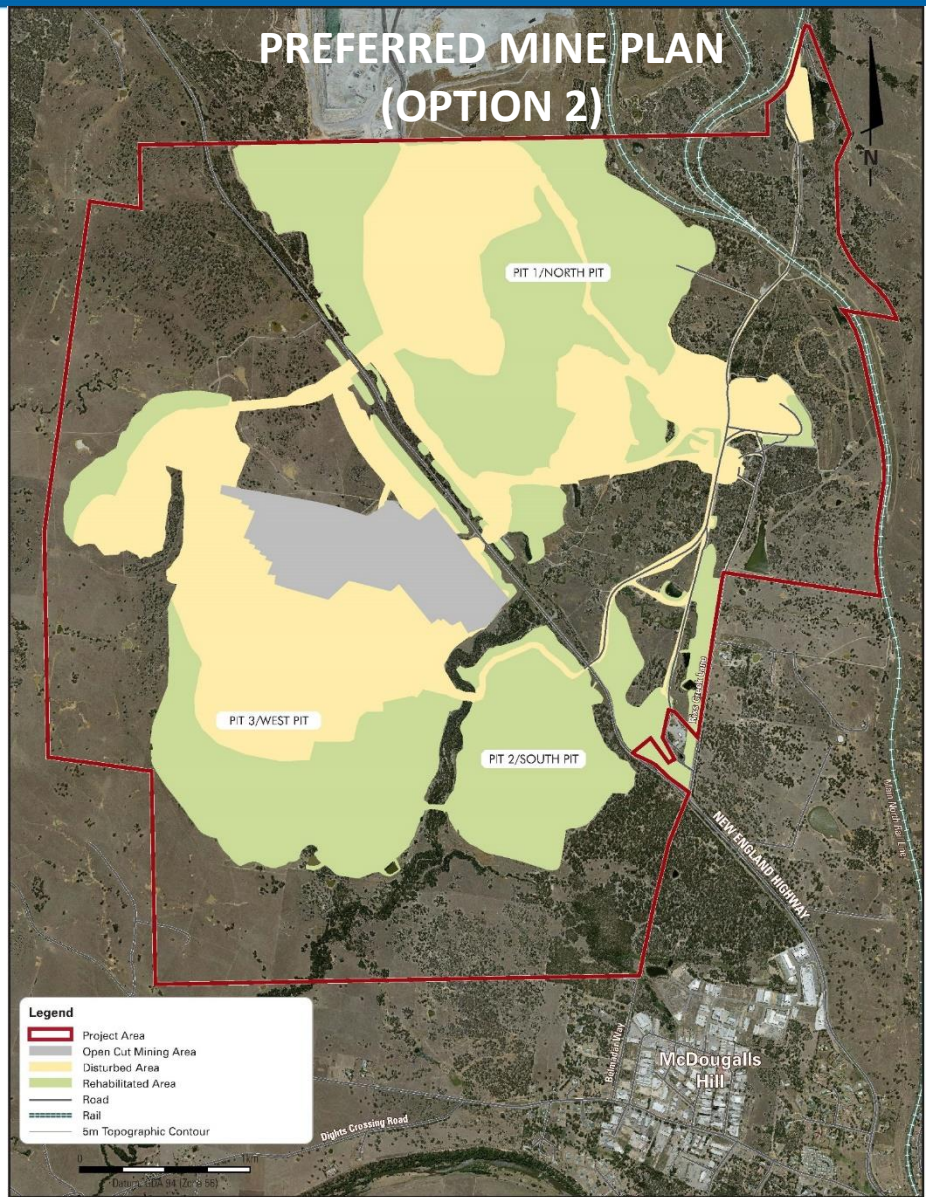

Preferred Mine Plan and Option 1 Comparison 2024

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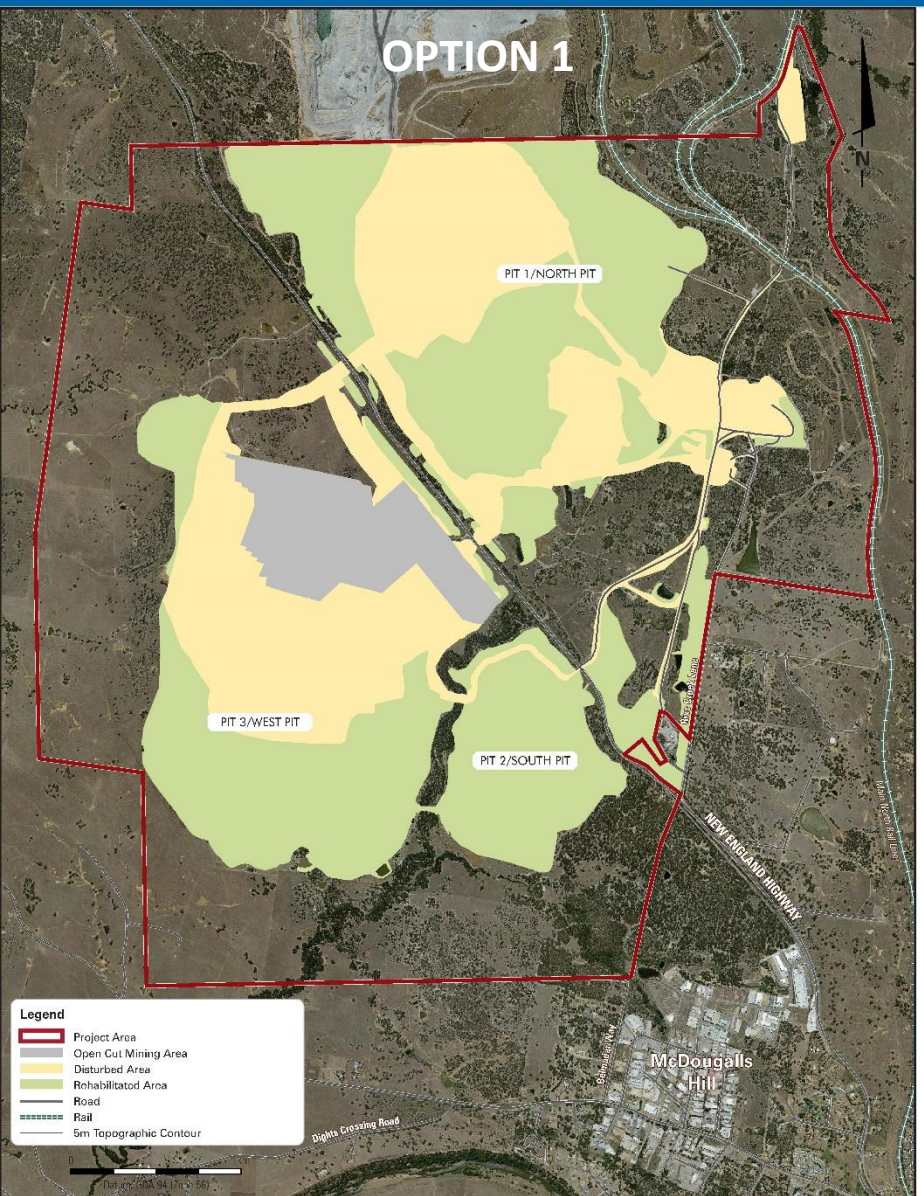

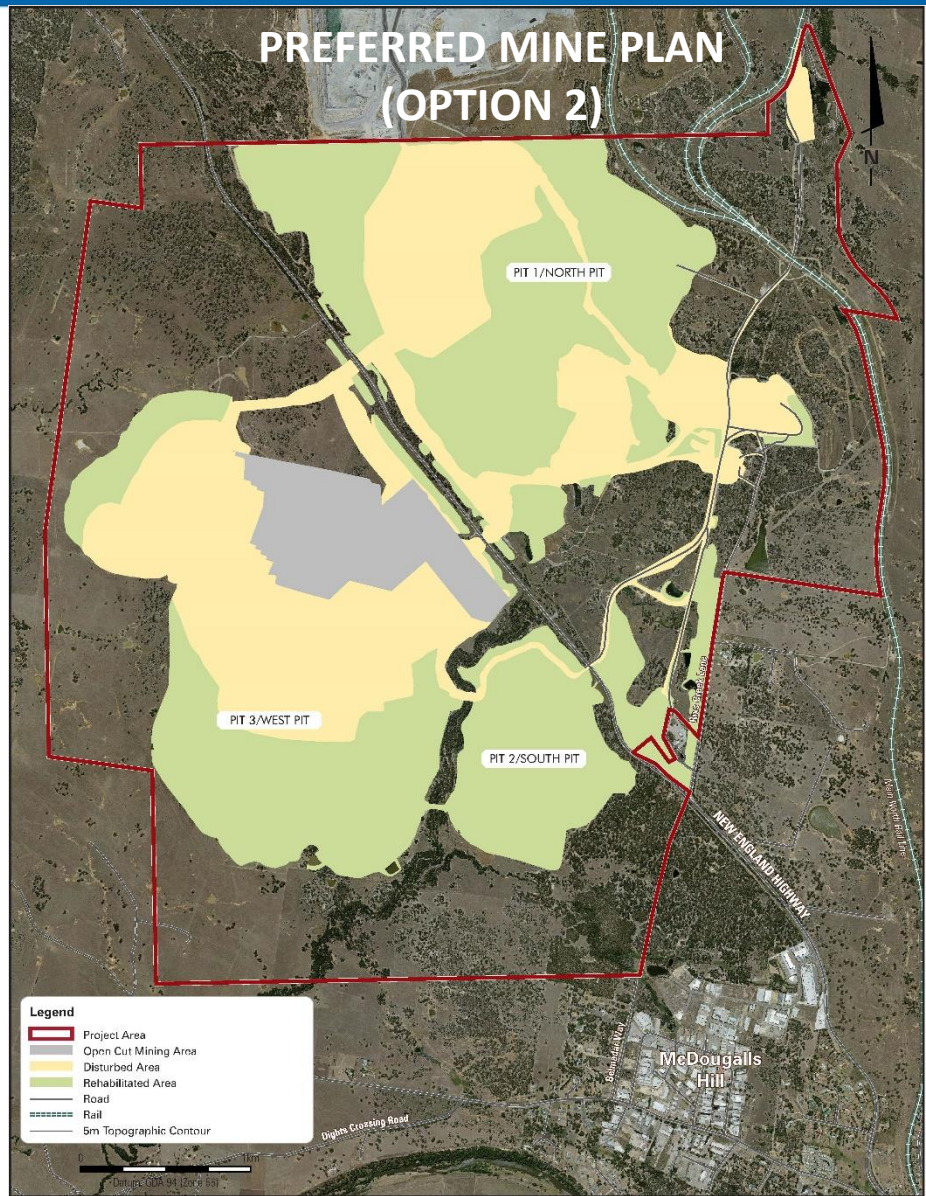

Preferred Mine Plan and Option 1 Comparison 2025

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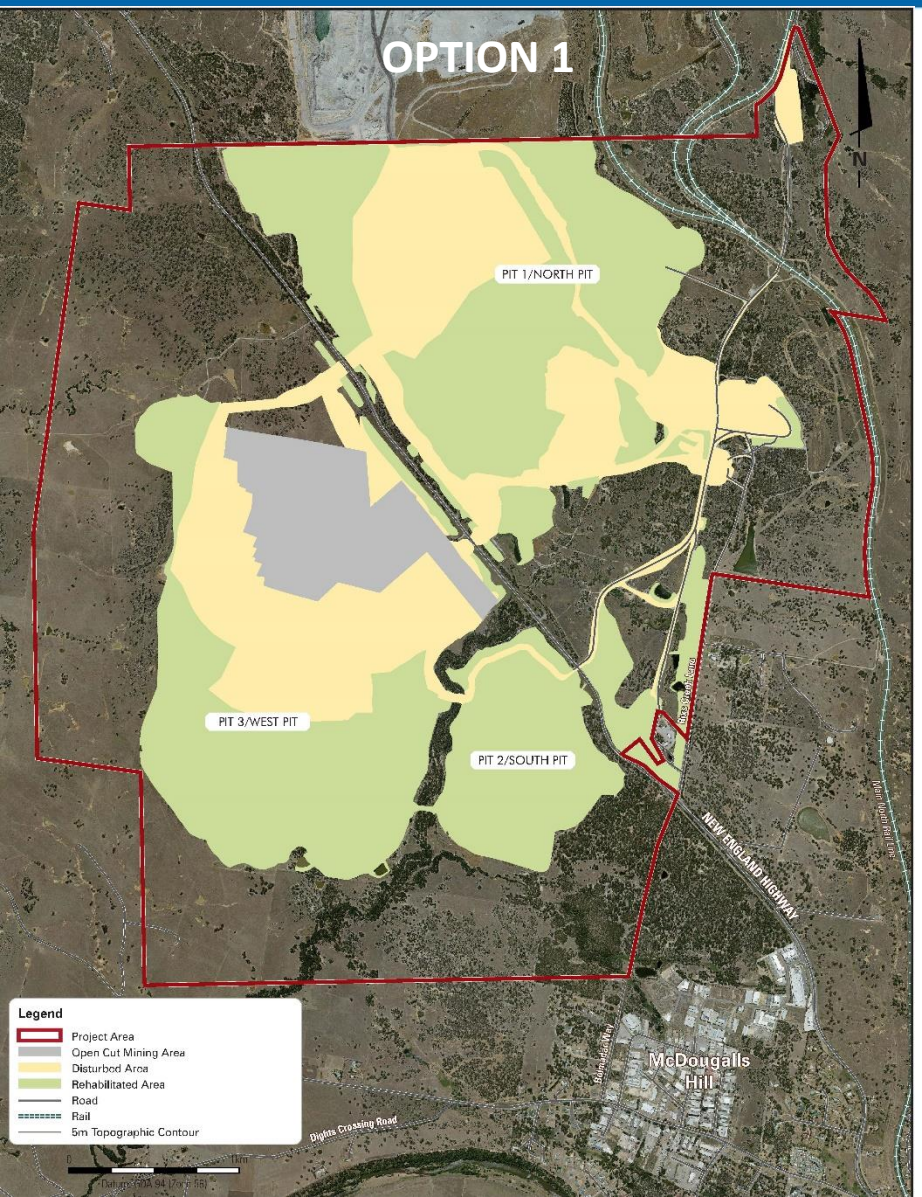

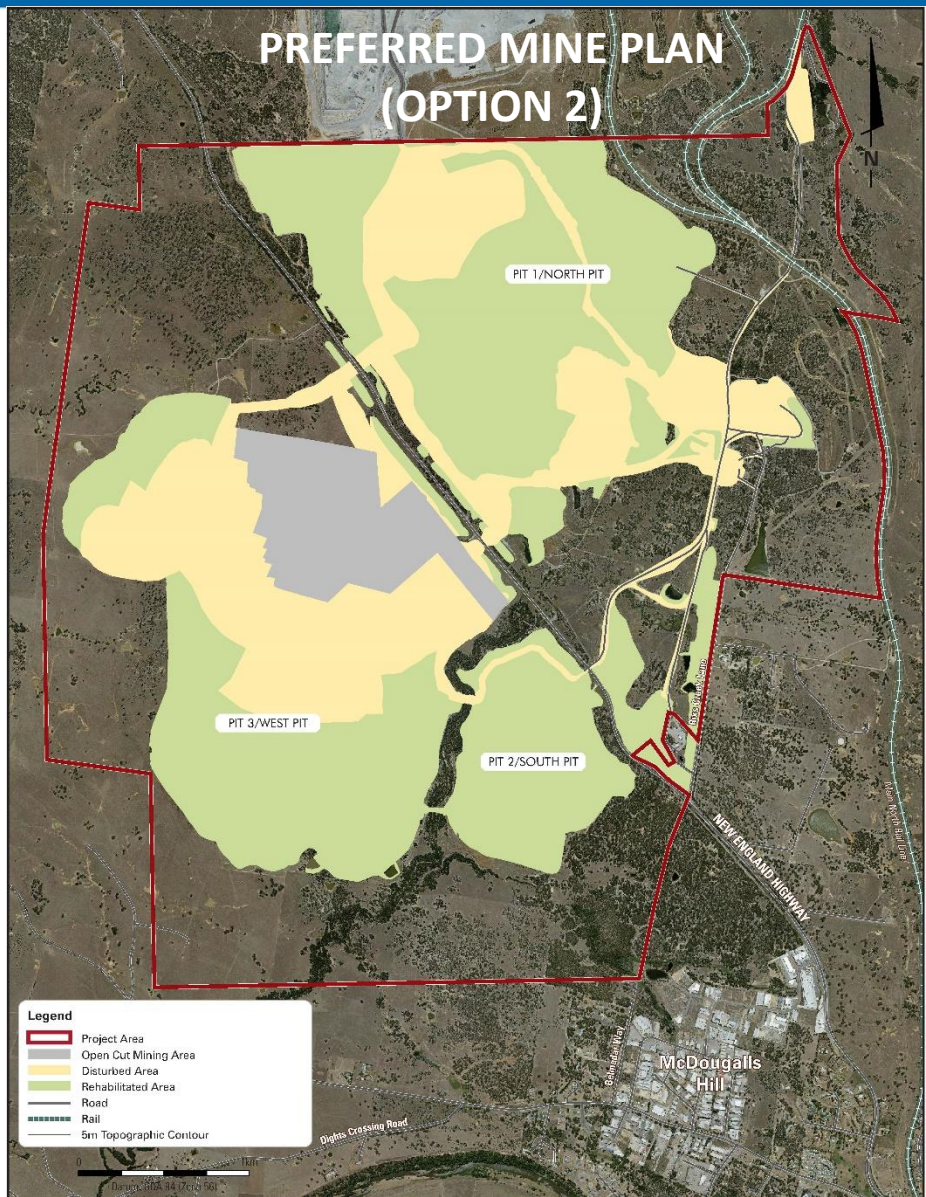

Preferred Mine Plan and Option 1 Comparison 2026

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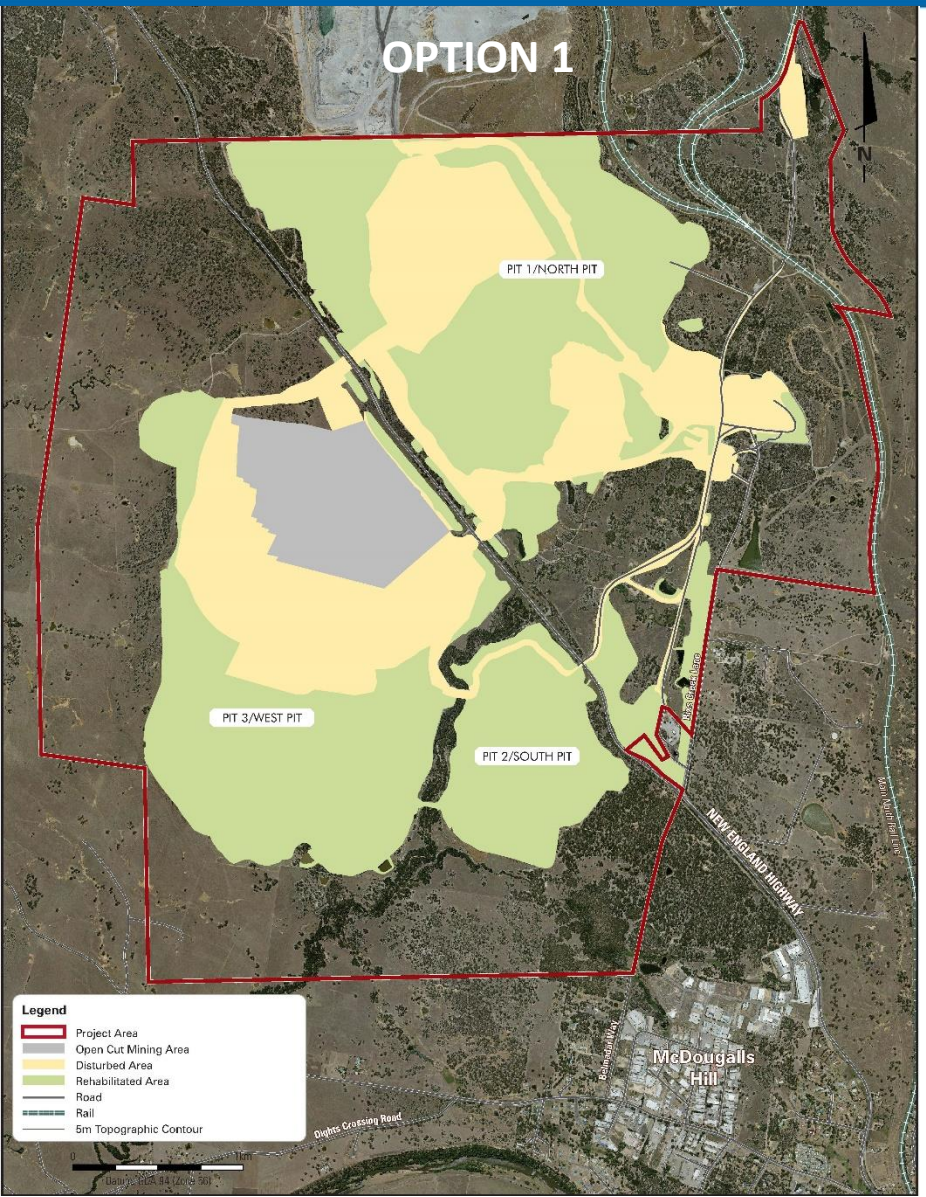

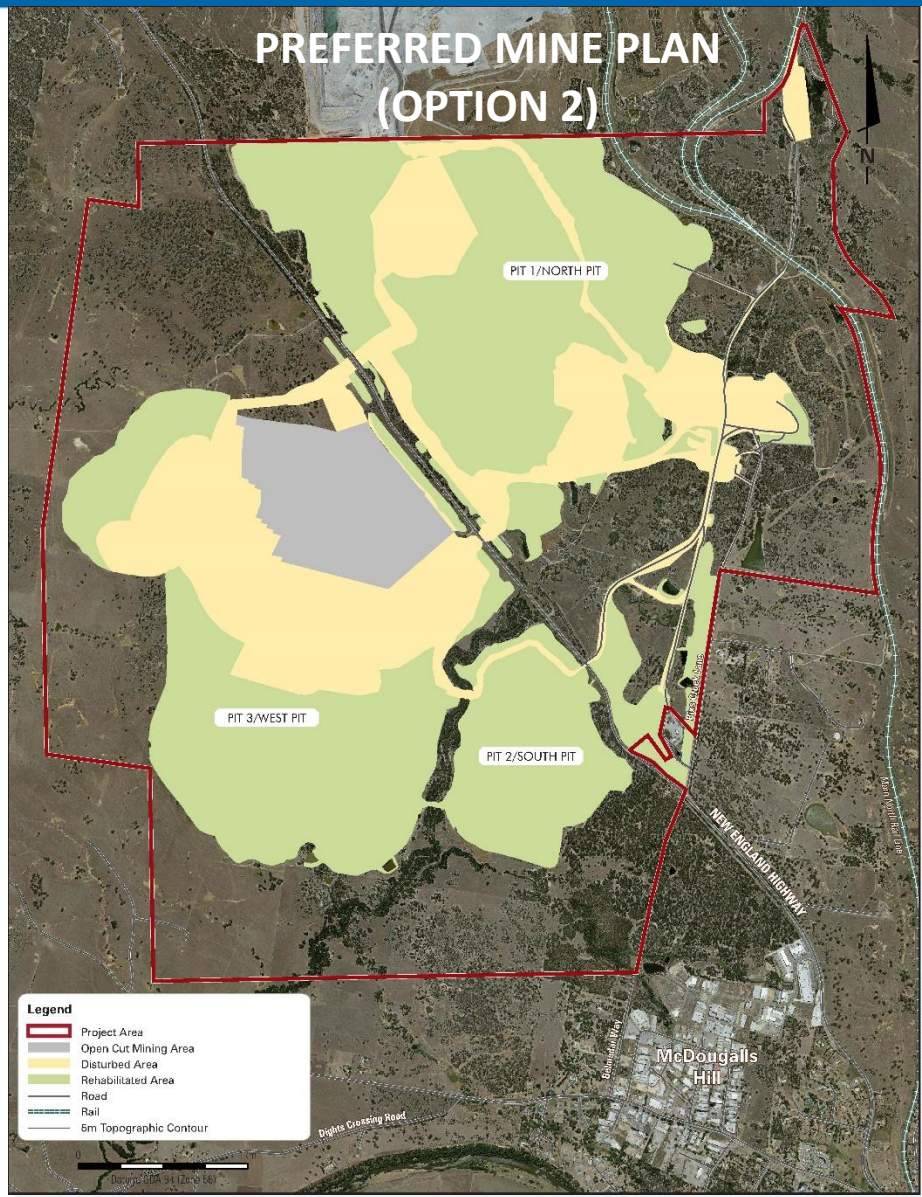

Preferred Mine Plan and Option 1 Comparison 2027

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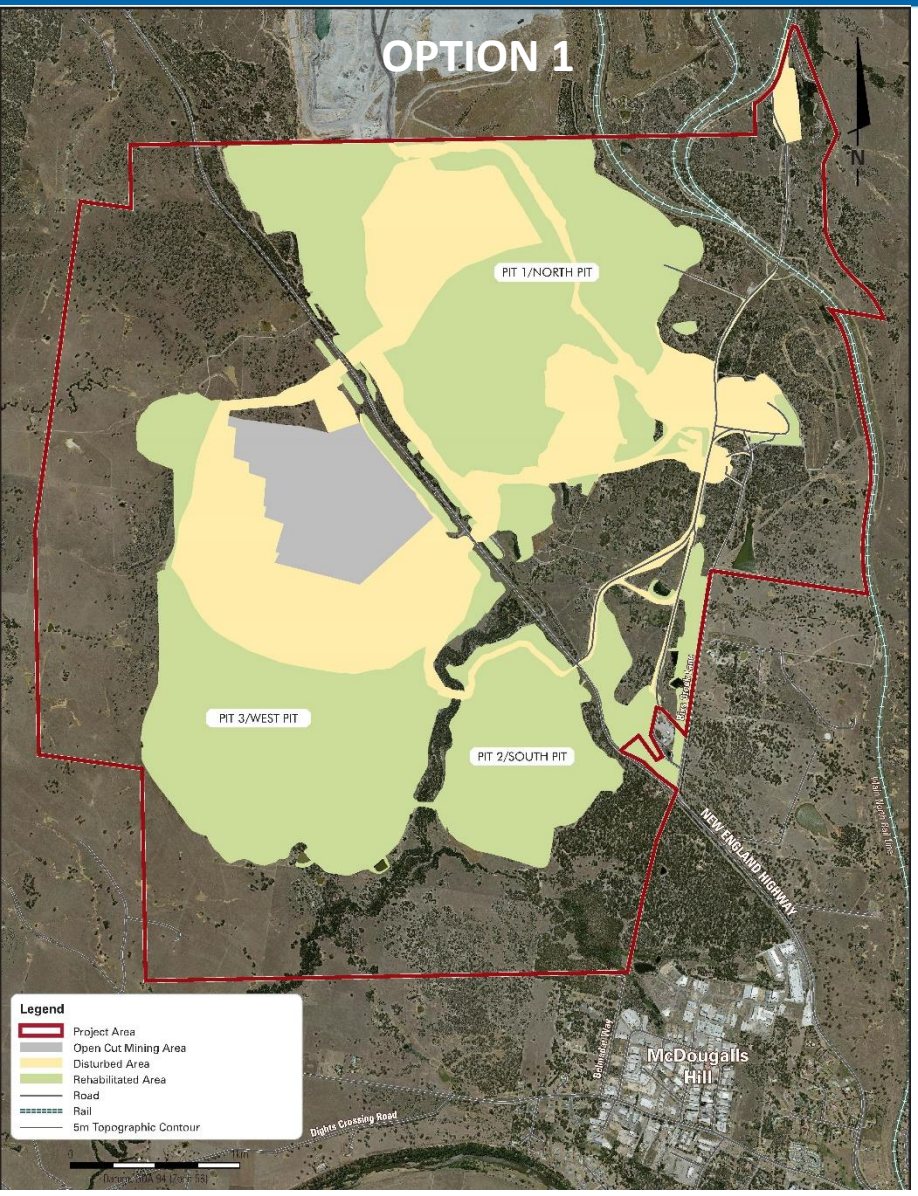

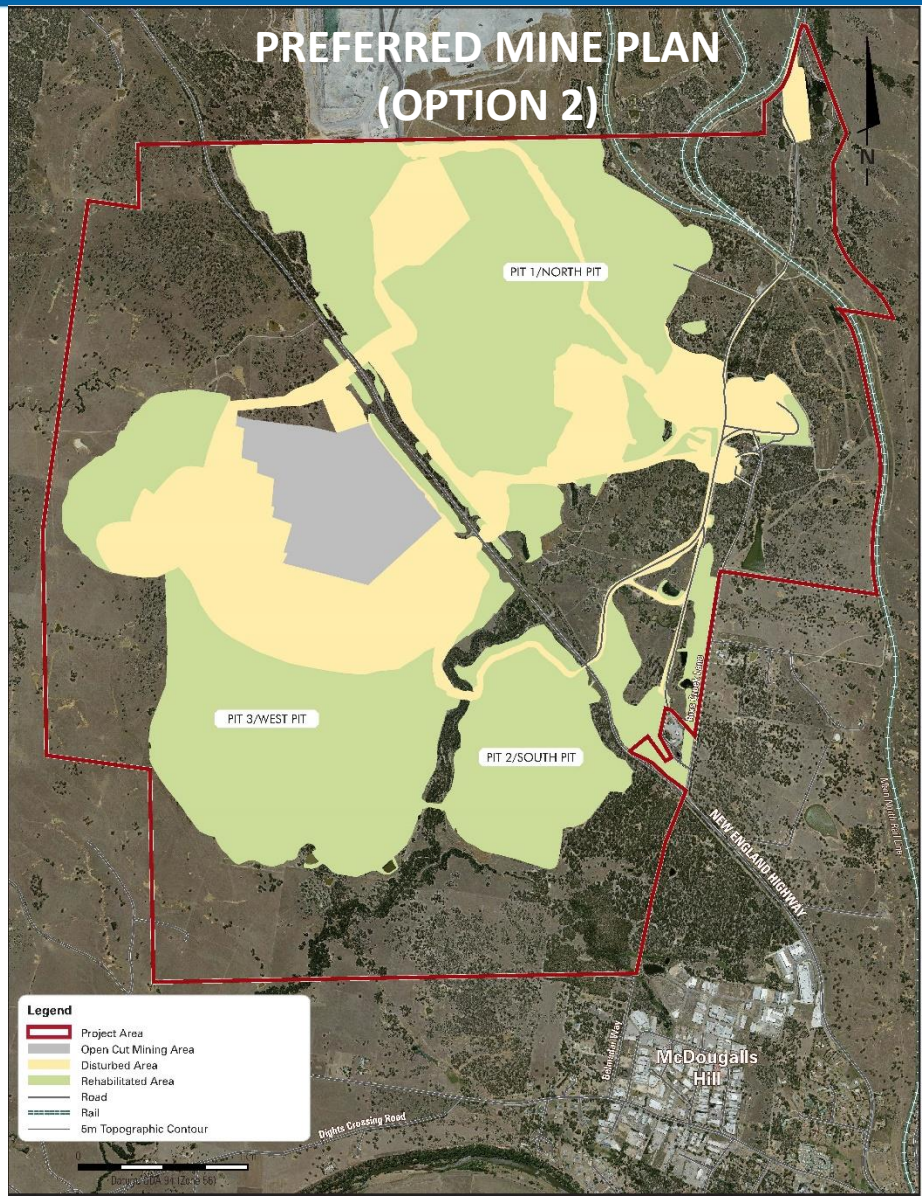

Preferred Mine Plan and Option 1 Comparison 2028

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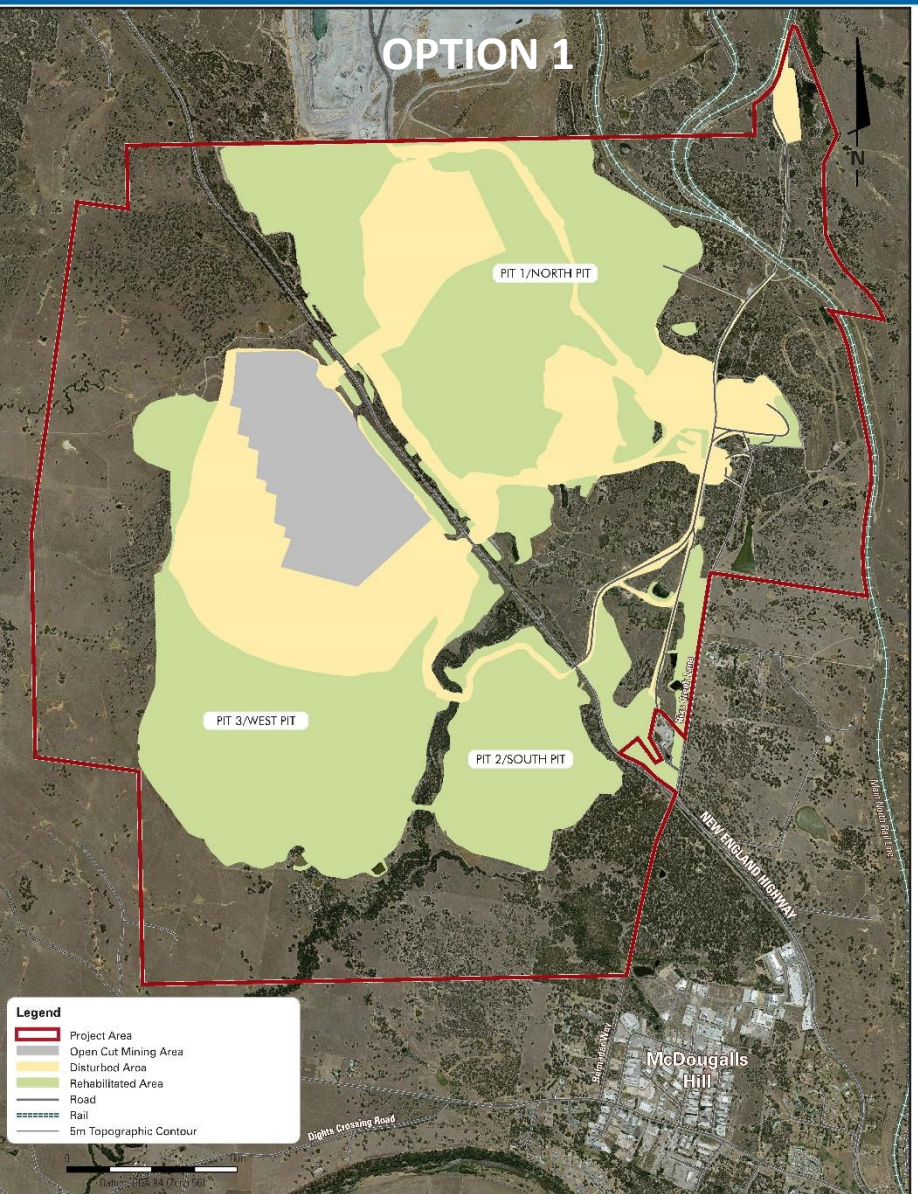

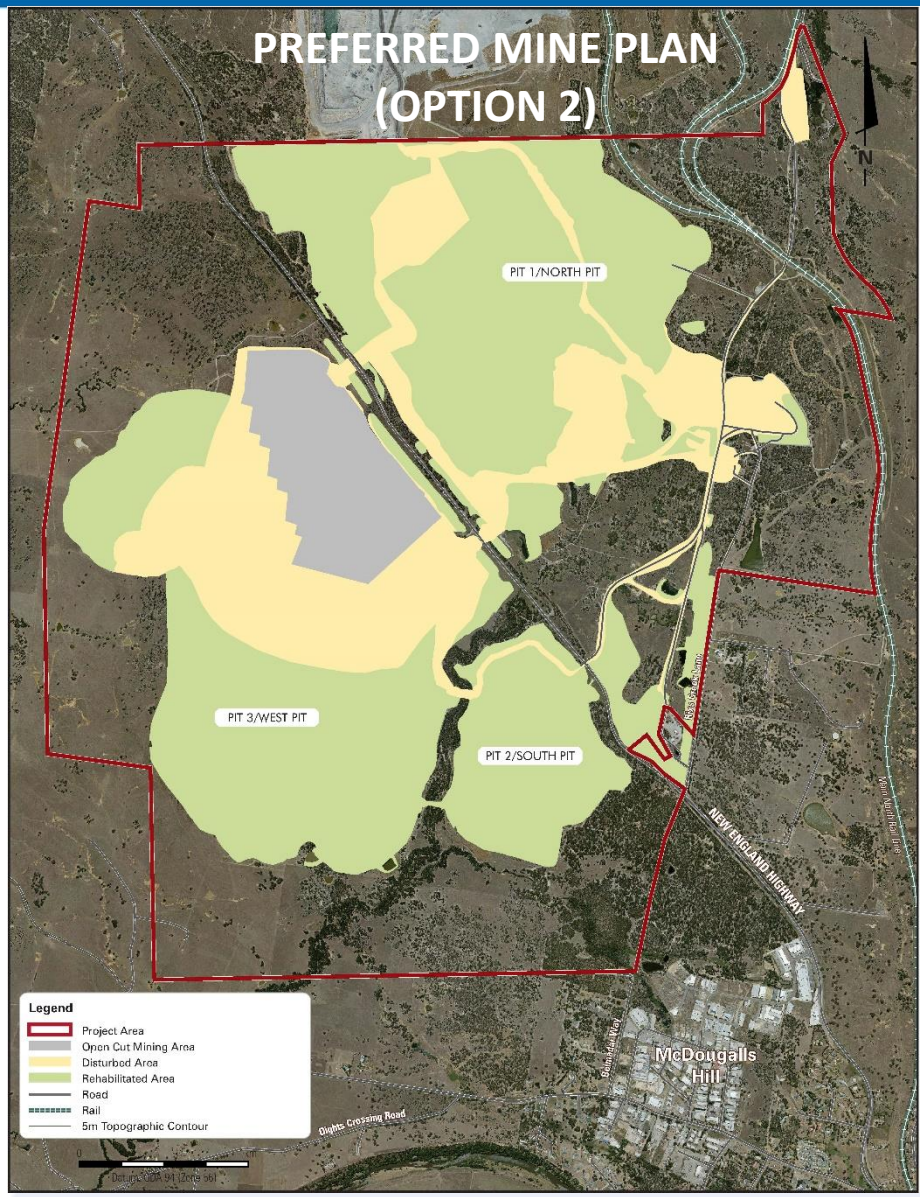

Preferred Mine Plan and Option 1 Comparison 2029

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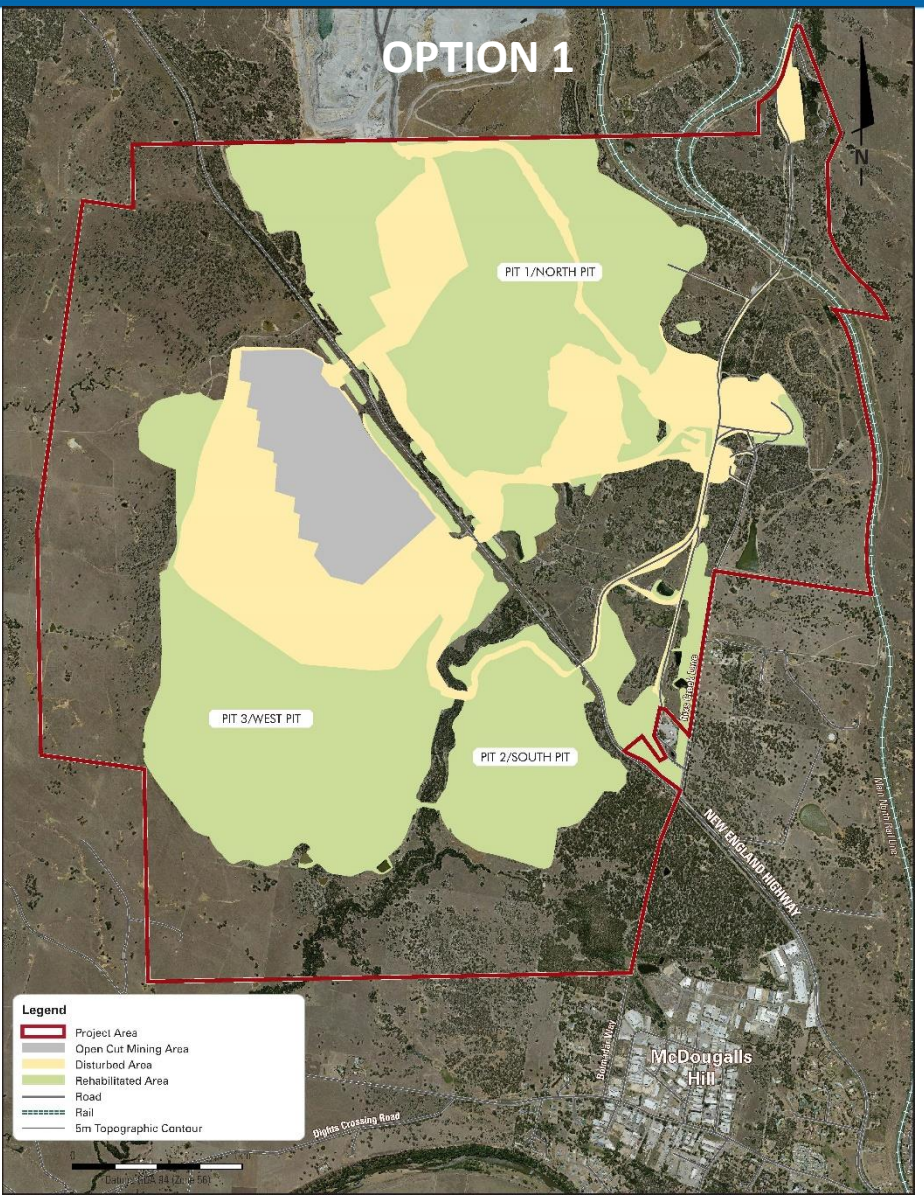

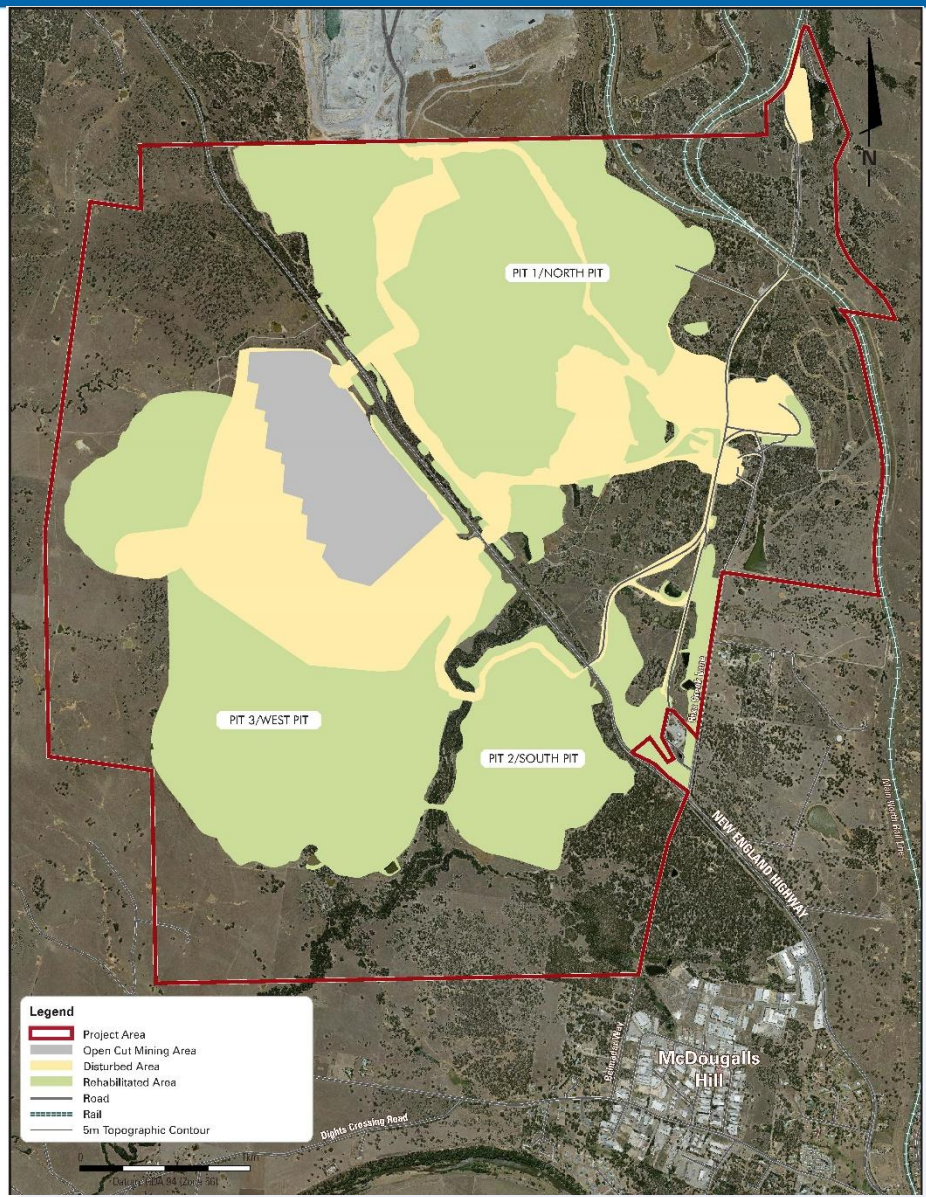

Preferred Mine Plan and Option 1 Comparison 2030

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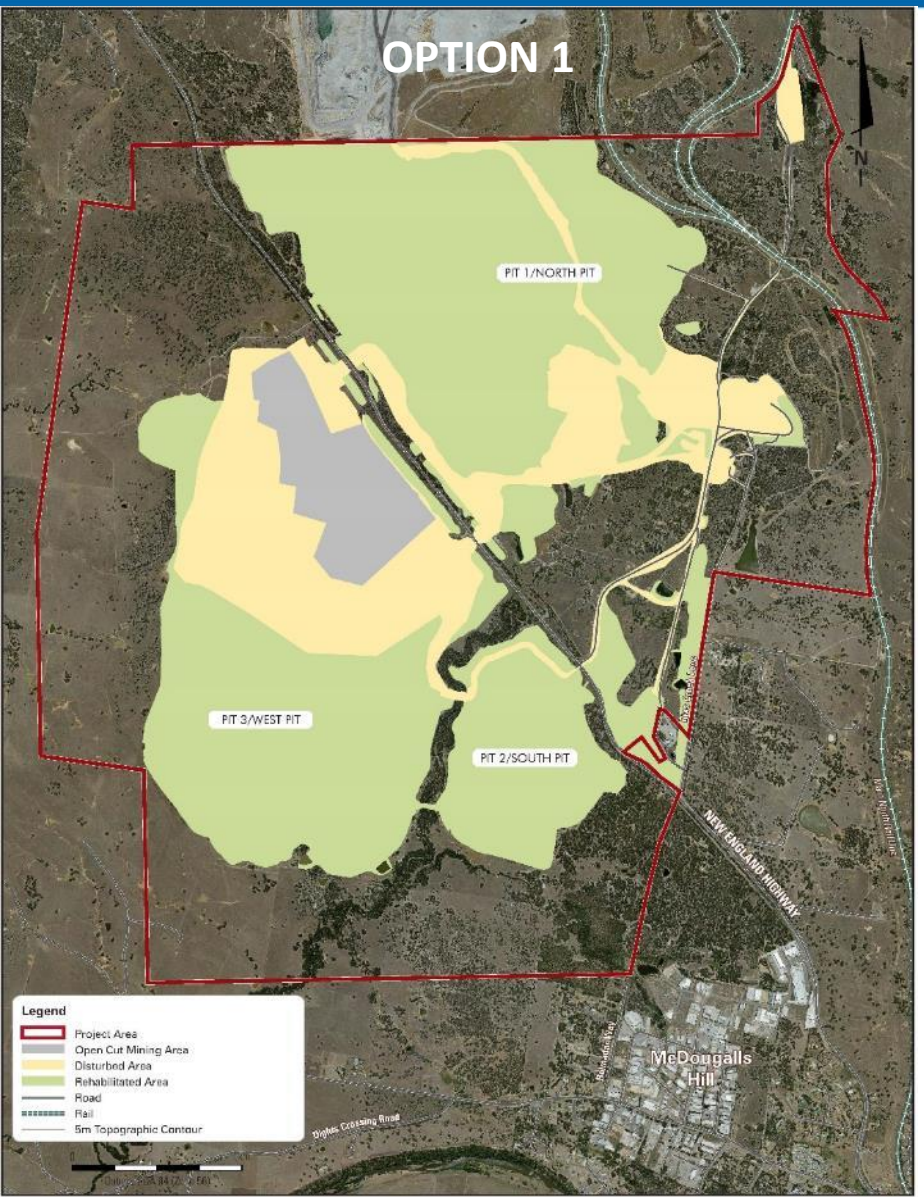

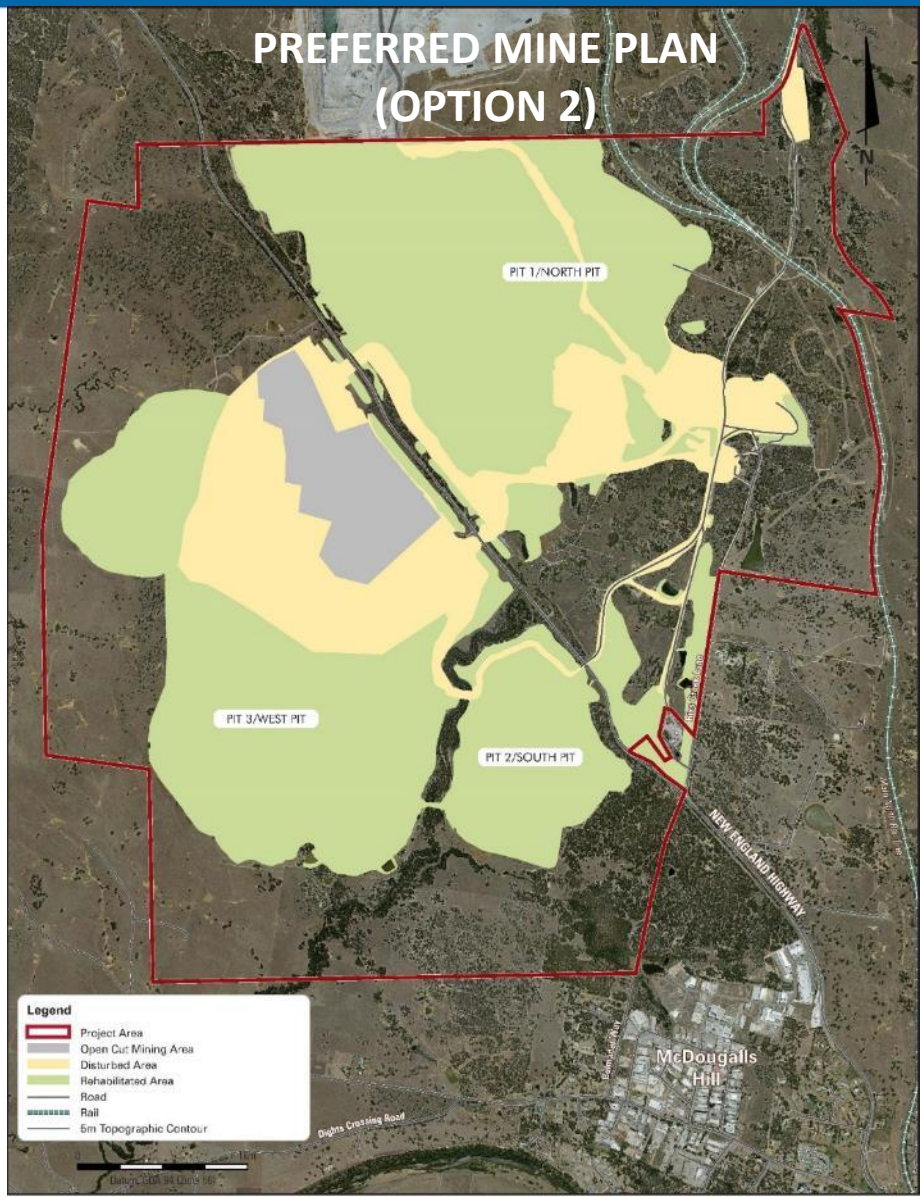

Preferred Mine Plan and Option 1 Comparison Final Landform

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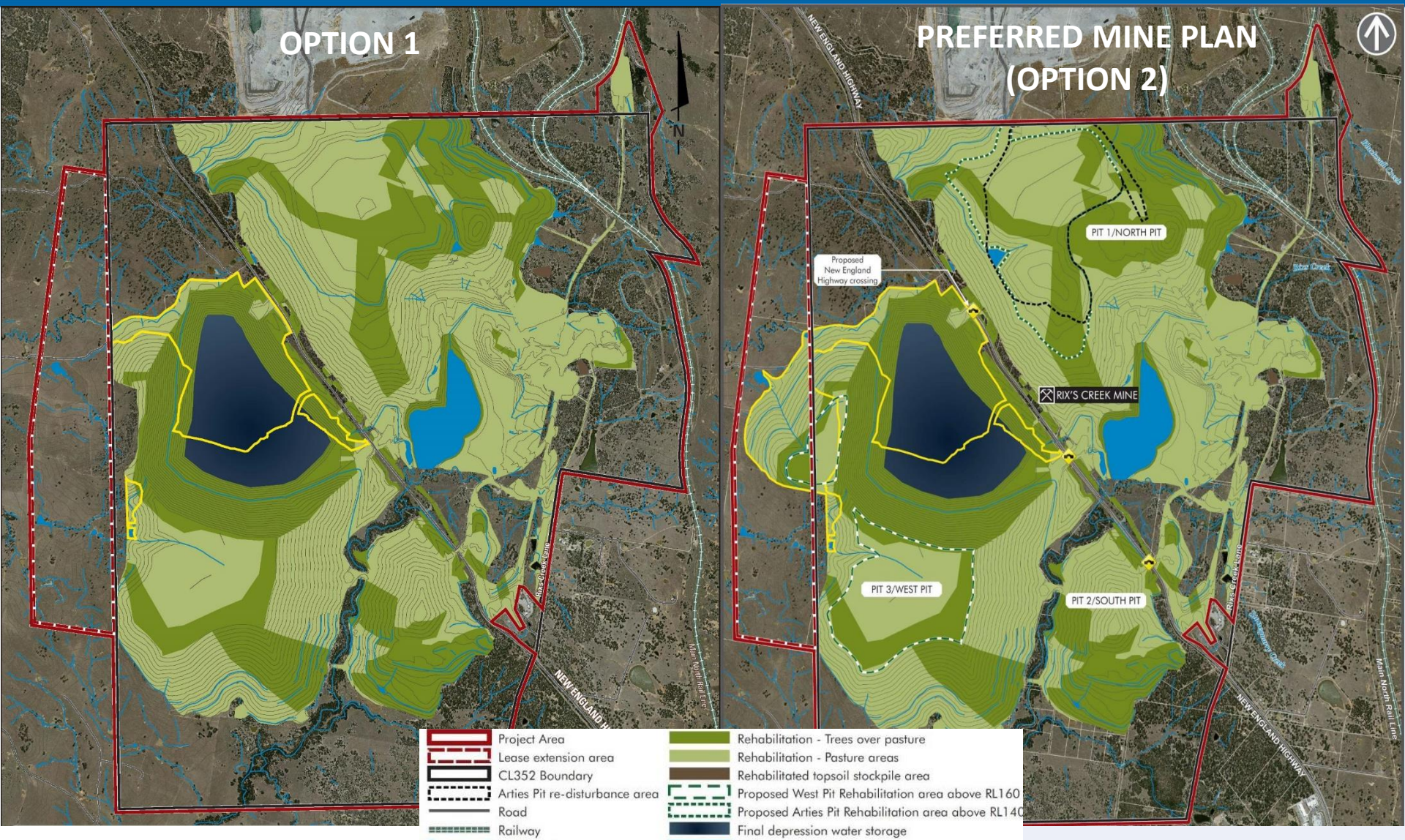

Progressive Rehabilitation Tables

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Progressive rehabilitation for Option 1

OPTION 1

	PIT 1				PIT 2				PIT 3				
YEAR	Active Mining	Disturbance area	New Rehab	Cumulative New Rehab	Active Mining	Disturbance area	New Rehab	Cumulative New Rehab	Active Mining	Disturbance area	New Rehab	Cumulative New Rehab	Total Cumulative Rehabilitation
2020	0	274.4	3.4	3.4	0	26.1	5.9	5.9	103.9	140	5.9	5.9	15.2
2021	0	264.9	9.5	12.9	0	27.9	6.3	12.2	97.8	153.6	5.6	11.5	36.6
2022	0	245.5	19.4	32.3	0	3.4	24.5	36.7	90.5	156.4	4.5	16	85
2023	0	200.7	45.3	77.6	0	3.4	0	36.7	71.8	178.4	22.5	38.5	152.8
2024	0	192.3	8.4	86	0	3.4	0	36.7	80.2	170	15.1	53.6	176.3
2025	0	176.4	15.9	101.9	0	3.4	0	36.7	88.2	150.6	26	79.6	218.2
2026	0	166.4	10.1	112	0	3.4	0	36.7	82.9	144.5	17.5	97.1	245.8
2027	0	153.2	13.1	125.1	0	3.4	0	36.7	71.5	142.6	13.3	110.4	272.2
2028	0	144	9.3	134.4	0	3.4	0	36.7	90.8	141.4	1.9	112.3	283.4
2029	0	123.5	20.4	154.8	0	3.4	0	36.7	82	142.5	7.6	119.9	311.4
2030	0	86.9	36.6	191.4	0	3.4	0	36.7	66.8	146	11.8	131.7	359.8

Note; all areas are in hectares

Disturbance area of 3.4ha in Pit 2 is associated with a roadway

Progressive Rehabilitation Tables

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Progressive rehabilitation for Option 2

OPTION 2

	PIT 1				PIT 2				PIT 3				
YEAR	Active Mining	Disturbance area	New Rehab	Cumulative New Rehab	Active Mining	Disturbance area	New Rehab	Cumulative New Rehab	Active Mining	Disturbance area	New Rehab	Cumulative New Rehab	Total Cumulative Rehabilitation
2020	0	244.8	5.5	5.5	0	26.1	5.9	5.9	103.9	176.8	14.7	14.7	26.1
2021	0	241.4	3.4	8.9	0	27.9	6.3	12.2	97.8	192.2	6.3	21.0	42.1
2022	0	232.7	8.7	17.6	0	3.4	24.5	36.7	90.5	195.1	4.4	25.4	79.7
2023	0	181.7	51.6	69.2	0	3.4	0	36.7	71.8	218.8	14.3	39.7	145.6
2024	0	173.7	7.9	77.1	0	3.4	0	36.7	80.2	215.2	22.9	62.6	176.4
2025	0	145	28.8	105.9	0	3.4	0	36.7	88.2	187.5	33.1	95.7	238.3
2026	0	124.6	20.4	126.3	0	3.4	0	36.7	82.9	174.4	23.7	119.4	282.4
2027	0	118.4	6.2	132.5	0	3.4	0	36.7	71.5	166.8	18.9	138.3	307.5
2028	0	116.4	2	134.5	0	3.4	0	36.7	90.8	161.9	5.7	144	315.2
2029	0	108.8	7.5	142	0	3.4	0	36.7	82	150	17.1	161.1	339.8
2030	0	86.9	21.9	163.9	0	3.4	0	36.7	66.8	146.6	20.9	182	382.6

Summary

Option 2 is the preferred plan for the following reasons:

- Provides the greatest operational flexibility with additional dump destinations for managing air quality and noise impacts. The Option 2 Western OEA provides screened emplacement with the majority of the volume at levels 20m below the North Pit OEA.
- Improved final landform outcomes with slopes designed to facilitate cattle grazing with improved productivity and final landuse income along with reduced long term erosion compared with Option 1.
- Lower Scope 2 emissions for waste haulage compared with Option 1.
- Improved truck fleet utilization compared with Option 1.
- Biodiversity reduction in credits of 24% compared with the EIS case. The majority of vegetation in the Option 2 Western OEA is grassland and the impact on the area of trees is similar for Option 1 and Option 2.
- Visual impact and final landform assessments: no material difference but Option 2 does have a North Pit dump height 10 meters lower than Option 1.
- Noise and dust impacts comparable to the EIS case.
- Lower overburden haulage costs compared to Option 1.
- Cost assessment – Option 2 essentially cost neutral ($.9M additional cost on NPV basis) compared with EIS case and $5.5M less than Option 1 (on NPV basis).