Rates Table - 2012							
Unit Rate Code	Costing Items	Currency		Unit Rates		Unit	Notes
1	**Nominal cost and time related items**						
1.1	Not Applicable	:	Rands	R	-	na	
1.2	Sum	:	Rands	R	-	sum	
1.3	Rate	:	Rands	R	-	unit	
2	**Steel and related structures**						
2.1	Cladding / Sheeting	:	Rands	R	21.50	m²	
2.2	Structural steelwork	:	Rands	R	1 280.00	t	
2.3	Super structures						
2.3.1	Light plant structures	:	Rands	R	107.00	m²	up to 100kg of steel per square meter
2.3.2	Medium plant structures	:	Rands	R	590.00	m²	up to 450kg of steel per square meter
2.3.3	Medium / Heavy plant structures	:	Rands	R	1 280.00	m²	up to 1000kg of steel per square meter
2.3.4	Heavy plant structures	:	Rands	R	1 900.00	m²	up to 1500kg of steel per square meter
2.4	Steel tanks with rubber lining						
2.4.1	0-5m	:	Rands	R	10 600.00	no	diameter
2.4.2	5-10m	:	Rands	R	26 650.00	no	diameter
2.4.3	10-15m	:	Rands	R	37 300.00	no	diameter
2.4.4	15-20m	:	Rands	R	53 300.00	no	diameter
2.4.5	20-30m	:	Rands	R	69 300.00	no	diameter
2.5	Single steel tanks	:	Rands	R	5 300.00	no	small enclosed steel tanks
2.6	Carports						
2.6.1	Carports with IBR covering	:	Rands	R	90.00	m²	excludes paving
2.6.2	Carports with Shade net covering	:	Rands	R	43.00	m²	excludes paving
3	**Buildings and related structures**						
3.1	Brick buildings						
3.1.1	Single storey building	:	Rands	R	295.00	m²	includes soft strip, excludes disposal of waste
3.1.2	Double storey building	:	Rands	R	500.00	m²	includes soft strip, excludes disposal of waste
3.2	Substations, pump stations and strong rooms						
3.2.1	Single storey building	:	Rands	R	480.00	m²	includes soft strip, excludes disposal of waste
3.2.2	Double storey or double volume building	:	Rands	R	690.00	m²	includes soft strip, excludes disposal of waste
3.3	Prefabricated or temporary buildings	:	Rands	R	140.00	m²	
3.4	110mm Brick wall	:	Rands	R	15.00	m²	
3.5	230mm Brick wall	:	Rands	R	30.00	m²	
3.6	Workshop & Stores	:	Rands	R	320.00	m²	single volume buildings
3.7	Workshop & Stores	:	Rands	R	380.00	m²	double volume buildings
4	**Concrete**						
4.1	Heavy concrete, thickness greater than 750mm	:	Rands	R	1 280.00	m³	bulk and heavy reinforced concrete
4.2	Medium concrete, thickness between 250 and 750mm	:	Rands	R	640.00	m³	Heavy reinforced concrete
4.3	Light concrete, thickness less than 250mm	:	Rands	R	400.00	m³	reinforced concrete
4.4	Floors, bases and foundations after removal of superstructure	:	Rands	R	215.00	m²	250mm floors with 500mm bases on 30% of the area
4.5	Heavy duty floors, bases and foundations after removal of superstructure	:	Rands	R	590.00	m²	400mm floors with 800mm bases on 30% of the area
4.6	Strip footings	:	Rands	R	135.00	m	
4.7	Column footings	:	Rands	R	280.00	no	
5	**Linear items**						
5.1	Conveyors						
5.1.1	Overland conveyor - light, no cladding	:	Rands	R	215.00	m	
5.1.2	Overland conveyor - medium	:	Rands	R	265.00	m	
5.1.3	Overland conveyor - heavy	:	Rands	R	320.00	m	
5.1.4	Suspended conveyor - light to medium	:	Rands	R	535.00	m	
5.1.5	Suspended conveyor - heavy with cladding	:	Rands	R	640.00	m	
5.2	Pipelines						
5.2.1	Overland steel pipelines on plinths (<200mm)	:	Rands	R	27.00	m	5m plinth spacing, includes disposal of waste @ 10km
5.2.2	Overland steel pipelines on plinths (200-350mm)	:	Rands	R	48.00	m	5m plinth spacing, includes disposal of waste @ 10km
5.2.3	Overland steel pipelines on plinths (350-500mm)	:	Rands	R	64.00	m	5m plinth spacing, includes disposal of waste @ 10km
5.3	Overland power lines						
5.3.1	Minor lines	:	Rands	R	27.00	m	
5.3.2	Major lines	:	Rands	R	80.00	m	
5.4	Railway lines						
5.4.1	Electrified	:	Rands	R	295.00	m	excludes ballast and rehab
5.4.2	Non - electrified	:	Rands	R	215.00	m	excludes ballast and rehab
5.5	Fencing						
5.5.1	Erect security fencing	:	Rands	R	133.00	m	
5.5.2	Erect stock fencing	:	Rands	R	27.00	m	
5.5.3	Dismantling of security fencing	:	Rands	R	27.00	m	
5.5.4	Dismantling of stock fencing	:	Rands	R	8.00	m	
5.5.5	Dismantling of steel palisade fencing	:	Rands	R	58.00	m	
5.5.6	Dismantling of concrete palisade fencing	:	Rands	R	120.00	m	
6	**Waste**						
6.1	Sorting and screening of waste	:	Rands		2.5	%	
6.2	Disposal of waste						
6.2.1	Disposal of inert demolition waste	:	Rands	R	28.00	m³/km	50km haul distance
6.2.2	Disposal of hazardous waste	:	Rands	R	805.00	m³	excludes transport
6.3	Decontamination of equipment						
6.3.1	Decontamination of equipment - small projects	:	Rands		5	%	of overall dismantling of steel structures
6.3.2	Decontamination of equipment - large projects	:	Rands		2.5	%	of overall dismantling of steel structures
6.4	Removal and disposal of single HDPE liner	:	Rands	R	6.50	m²	
7	**Shaft and portals**						
7.1	Shafts						
7.1.1	Sealing of vertical shaft	:	Rands	R	714 220.00	sum	3m diameter
7.1.2	Sealing of vertical shaft	:	Rands	R	810 160.00	sum	3.5m diameter
7.1.3	Sealing of vertical shaft	:	Rands	R	986 050.00	sum	4m diameter
7.1.4	Sealing of vertical shaft	:	Rands	R	1 087 320.00	sum	4.5m diameter
7.1.5	Sealing of vertical shaft	:	Rands	R	1 332 500.00	sum	5m diameter
7.1.6	Sealing of vertical shaft	:	Rands	R	1 375 140.00	sum	5.5m diameter

7.1.7	Sealing of vertical shaft	:	Rands	R	1 410 500.00	sum	6.0m diameter
7.1.8	Sealing of vertical shaft	:	Rands	R	1 492 400.00	sum	6.5m diameter
7.1.9	Sealing of vertical shaft	:	Rands	R	1 599 000.00	sum	7m diameter
7.1.10	Sealing of vertical shaft	:	Rands	R	1 719 458.00	sum	7.5m diameter
7.1.11	Sealing of vertical shaft	:	Rands	R	1 838 850.00	sum	8m diameter
7.1.12	Sealing of vertical shaft	:	Rands	R	1 982 760.00	sum	8.5m diameter
7.1.13	Sealing of vertical shaft	:	Rands	R	2 132 000.00	sum	9m diameter
7.1.14	Sealing of vertical shaft	:	Rands	R	2 281 240.00	sum	9.5m diameter
7.1.15	Sealing of vertical shaft	:	Rands	R	2 573 324.00	sum	10m diameter
7.1.16	Sealing of vertical shaft	:	Rands	R	2 665 000.00	sum	11m diameter
7.2	Backfill incline shaft portal	:	Rands	R	31 980.00	sum	
7.3	Plug outlet and seal penstock of tailings dam	:	Rands	R	213 200.00	sum	assume 100 000m³ backfilled with waste rock <1km haul distance, excl topsoil
7.4	Plug surface holing's	:	Rands	R	200 000.00	sum	
7.5	Seal incline shaft	:	Rands	R	159 900.00	sum	
8	**Roads, hardstands and paving**						
8.1	Remove tar roads with 600mm layer works	:	Rands	R	48.00	m²	layer works buried in trench next to road or 10km load and haul, but excludes disposal of tar
8.2	Major gravel roads with engineered surfaces	:	Rands	R	21.00	m²	layer works buried next to road or 10km load and haul
8.3	Minor gravel roads and tracks	:	Rands	R	4.00	m²	minor gravel roads and tracks (no layer works) - ripped, profiled and vegetated
8.4	Concrete slab or concrete liners	:	Rands	R	135.00	m²	thin concrete with minimal reinforcing
8.5	Removal of gunited embankments	:	Rands	R	80.00	m²	excludes disposal
8.6	Removal of brick paving & stone pitching	:	Rands	R	38.00	m²	
9	**Earthworks**						
9.1	Dozing						
9.1.1	Dozing to profile dumps (60m max)	:	Rands	R	13.50	m³	cut to fill including final profiling
9.1.2	Bulk dozing of material (60m max)	:	Rands	R	11.00	m³	bulk dozing, no profiling
9.2	Excavation	:	Rands	R	20.00	m³	
9.3	Backfilling						
9.3.1	Backfilling of final void	:	Rands	R	15.50	m³	large volumes: 50% dozing & 50% load and haul
9.3.2	Backfilling of final void	:	Rands	R	27.00	m³	large volumes : 5km haul distance for bulk material
9.4	Compacting	:	Rands	R	3.50	m²	in layers of 250mm
9.5	Ripping						
9.5.1	Ripping of areas to alleviate compaction	:	Rands	R	9 400.00	ha	500mm deep ripping
9.5.2	Deep ripping	:	Rands	R	13 800.00	ha	1000mm deep ripping
9.6	Transport						
9.6.1	Load and haul	:	Rands	R	28.00	m³	1km, small volumes
9.6.2	Extra over rates for hauling outside free haul distance	:	Rands	R	7.80	m³/km	small volumes
9.6.3	Load and haul for 4km distance	:	Rands	R	51.40	m³/km	small volumes
9.6.4	Load and haul	:	Rands	R	13.20	m³	1km, large volumes
9.6.5	Extra over rates for hauling outside free haul distance	:	Rands	R	22.00	m³/km	large volumes
9.6.6	Load and haul for 4km distance	:	Rands	R	163.20	m³/km	large volumes
9.6.7	Load and haul for 30km distance	:	Rands	R	100.00	m³/km	large volumes
10	**Reclamation on disturbed areas**						
10.1	Profiling - dozer work						
10.1.1	Shaping, leveling of infrastructural footprint areas (500mm)	:	Rands	R	55 250.00	ha	includes stockpiling of material, backfilling of excavations in cut to fill operation and final profiling @av 500mm over footprint
10.1.2	Shaping, leveling of infrastructural footprint areas (750mm)	:	Rands	R	82 875.00	ha	includes stockpiling of material, backfilling of excavations in cut to fill operation and final profiling @av 750mm over footprint
10.1.3	Reshaping, profiling of dumps (general)	:	Rands	R	110 500.00	ha	
10.1.4	Profiling of disturbed areas (general)	:	Rands	R	939 250.00	ha	minimal dozing to make area free draining
10.1.5	Breach dam wall & reshape 1:5	:	Rands	R	220.00	m	approx. 5m high @ 1:5
10.2	Import clean / removing contaminated soil						
10.2.1	Import cover material and spread (250m)	:	Rands	R	88 400.00	ha	2500m³ over 1km average @ R32/m³
10.2.2	Remove contaminated soil to 250mm average depth	:	Rands	R	127 000.00	ha	assume 4km haul distance
10.3	Capping / impermeable cover						
10.3.1	Install 2mm HDPE liner	:	Rands	R	94.00	m²	
10.4	Establish vegetation						includes soil amelioration, cultivation and seeding actions
10.4.1	Establishment of vegetation (general)	:	Rands	R	13 800.00	ha	general on flat surfaces
10.4.2	Establishment of vegetation on WRD and tailings dams	:	Rands	R	19 250.00	ha	general in topsoil layer on sloped areas
10.4.3	Establish vegetation on backfilled pit areas	:	Rands	R	4 400.00	ha	
10.4.4	Rip and establish vegetation on stockpile footprint areas and haul roads	:	Rands	R	5 500.00	ha	
11	**Plant and machinery**						
11.1	Crane	:	Rands	R	38 700.00	p/day	excludes site establishment
11.2	Tlb	:	Rands	R	2 800.00	p/day	excludes site establishment
11.3	Excavator (20ton)	:	Rands	R	4 200.00	p/day	excludes site establishment
11.4	Pecker (20ton)	:	Rands	R	6 850.00	p/day	excludes site establishment
12	**Post closure aspects**						
12.1	Surface water	:	Rands	R	32 000.00	yr	1 monitoring points on a monthly basis
12.2	Groundwater	:	Rands	R	60 000.00	yr	3 monitoring points on a quarterly basis
12.3	Reclamation monitoring	:	Rands	R	2 500.00	ha	5 years
12.4	Care and maintenance	:	Rands	R	15 500.00	ha	5 years
13	**Specialists Work**						
13.1	Specialist, soil and groundwater study	:	Rands	R	330 000.00	sum	Nominal allowance, not for large and complex and integrated sites
13.2	Basic Assessment with Public Participation	:	Rands	R	250 000.00	sum	Nominal allowance, not for large and complex and integrated sites
13.3	Integrated Water and Waste Management Plan (IWWMP) and Water Use License Application (WULA)	:	Rands	R	220 000.00	sum	Nominal allowance, not for large and complex and integrated sites
13.4	Waste License Application	:	Rands	R	40 000.00	sum	Nominal allowance, not for large and complex and integrated sites
14	**Water Treatment Cost**						
14.1	Cleaning of Stormwater system	:	Rands	R	-	sum	Nominal allowance
14.2	Cleaning of Oily and Chemical Sewer system	:	Rands	R	-	sum	Nominal allowance
14.3	xxxxxxx	:	Rands	R	-	m³	
14.4	yyyyyyy	:	Rands	R	-	m³	
14.5	zzzzzzz	:	Rands	R	-	m³	
15	**Boreholes**						
15.1	Drilling of borehole	:	Rands	R	33 000.00	sum	Nominal allowance
15.2	Equipping of borehole (Pump, electrical and piping)	:	Rands	R	55 000.00	sum	Nominal allowance
16	**Other**						
16.1	Unspecified	:	Rands	R	-	sum	
16.2	Unspecified	:	Rands	R	-	sum	
16.3	Unspecified	:	Rands	R	-	sum	

Executive Summary							
Tasks		*Unscheduled - Year 1 (2012)*	*Unscheduled - Year 2 (2013)*	*Unscheduled - Year 3 (2014)*	*Unscheduled - Year 4 (2015)*	*Unscheduled - Year 5 (2016)*	*Unscheduled - Year 6 (2017)*
	Closure Aspects						
1	Infrastructural aspects	R -	R -	R -	R -	R -	R -
2	Mining aspects	R -	R 4 994 413.00	R 29 304.00	R -	R -	R -
3	General surface reclamation	R -	R -	R -	R -	R -	R -
4	Water management	R -	R -	R -	R -	R -	R -
	SUB - TOTAL 1 (for infrastructural and related structures)	**R -**	**R 4 994 413.00**	**R 29 304.00**	**R -**	**R -**	**R -**
5	Post closure aspects	R -	R 572 680.00	R 572 680.00	R -	R -	R -
	SUB - TOTAL 2 (for post - closure aspects)	**R -**	**R 629 948.00**	**R 629 948.00**	**R -**	**R -**	**R -**
6	**Additional allowances**						
6.1	Preliminary and General	R -	R 599 329.56	R 1 758.24	R -	R -	R -
6.2	Contingencies	R -	R 499 441.30	R 2 930.40	R -	R -	R -
	SUB - TOTAL 3 (for additional allowances)	**R -**	**R 1 098 770.86**	**R 4 688.64**	**R -**	**R -**	**R -**
	Grand - Total (for sub - total 1+2+3)	**R -**	**R 6 723 131.86**	**R 663 940.64**	**R -**	**R -**	**R -**

Executive Summary						
Tasks		*Unscheduled - Year 7 (2018)*	*Unscheduled - Year 8 (2019)*	*Unscheduled - Year 9 (2020)*	*Unscheduled - Year 10 (2021)*	*Scheduled Closure*
	Closure Aspects					
1	Infrastructural aspects	R -	R -	R -	R -	R -
2	Mining aspects	R -	R -	R -	R -	R -
3	General surface reclamation	R -	R -	R -	R -	R -
4	Water management	R -	R -	R -	R -	R -
	SUB - TOTAL 1 (for infrastructural and related structures)	**R -**	**R -**	**R -**	**R -**	**R -**
5	Post closure aspects	R -	R -	R -	R -	R -
	SUB - TOTAL 2 (for post - closure aspects)	**R -**	**R -**	**R -**	**R -**	**R -**
6	**Additional allowances**					
6.1	Preliminary and General	R -	R -	R -	R -	R -
6.2	Contingencies	R -	R -	R -	R -	R -
	SUB - TOTAL 3 (for additional allowances)	**R -**	**R -**	**R -**	**R -**	**R -**
	Grand - Total (for sub - total 1+2+3)	**R -**	**R -**	**R -**	**R -**	**R -**

Closure Costing - Opencast Area			Closure Costs - *Year 1 (2012)*					
Item nr	ID	Task	Unit Rate Code	Unit	Quantity	Rate	Amount	Notes
1		**Infrastructural Aspects**						
2		Not applicable	1.1	na	0.00	R -	R -	
3		**Sub - Total for infrastructural aspects**					**R -**	
4								
5		**Mining Aspects**						
6		**Open pit reclamation including final voids and ramps**						
7		**Pit 8C**						Operations to start in 2013
8		Backfill pit void	1.1	na	0.00	R -	R -	
9		Replace topsoil on pit area	1.1	na	0.00	R -	R -	
10		Establish vegetation on pit area	1.1	na	0.00	R -	R -	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	1.1	na	0.00	R -	R -	
12		**Sub - Total for Mining aspects**					**R -**	
13								
14		**General Surface Reclamation**						
15		Not applicable	1.1	na	0.00	R -	R -	
16		**Sub - Total for General Surface Reclamation**					**R -**	
17								
18		**Water Management**						
19		Not applicable	1.1	na	0.00	R -	R -	
20		**Sub - Total for Water Management**					**R -**	
21								
22		**SUB - TOTAL 1** (for infrastructural and related structures)					**R -**	
23		**Post - closure aspects**						
24		Surface water quality monitoring	12.1	yr	0.00	R 32 000.00	R -	No disturbance taken place
25		Groundwater quality monitoring	12.2	yr	0.00	R 60 000.00	R -	No disturbance taken place
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R 2 500.00	R -	No disturbance taken place
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R 15 500.00	R -	No disturbance taken place
28		**Sub - Total for Post closure aspects**					**R -**	
29		Contingencies for post closure aspects	1.2	sum	1.00	R -	R -	Assumed 10 percent for post closure aspects
30		**Sub - Total for Contingencies for post closure aspects**					**R -**	
31		**SUB - TOTAL 2** (for post - closure aspects)					**R -**	
32		**Additional allowances**						
33		Preliminary and General	1.2	sum	1.00	R -	R -	Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R -	R -	Assume 10 percent of sub - total 1
35		**SUB - TOTAL 3** (for additional allowances)					**R -**	
36		**Grand - Total** (for sub - total 1+2+3)					**R -**	

Closure Costing - Opencast Area			Closure Costs - *Year 2 (2013)*					
Item nr	ID	Task	Unit Rate Code	Unit	Quantity	Rate	Amount	Notes
1		**Infrastructural Aspects**						
2		Not applicable	1.1	na	0.00	R -	R -	
3		**Sub - Total for infrastructural aspects**					**R -**	
4								
5		**Mining Aspects**						
6		**Open pit reclamation including final voids and ramps**						
7		**Pit 8C**						Operational
8		Backfill pit void	9.3.1	m³	266106.00	R 15.50	R 4 124 643.00	Provided by operational staff
9		Replace topsoil on pit area	9.1.2	m³	76406.00	R 11.00	R 840 466.00	Provided by operational staff
10		Establish vegetation on pit area	10.4.3	ha	4.66	R 4 400.00	R 20 504.00	Measured from drawing
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	1.60	R 5 500.00	R 8 800.00	Measured from drawing
12		**Sub - Total for Mining aspects**					**R 4 994 413.00**	
13								
14		**General Surface Reclamation**						
15		Not applicable	1.1	na	0.00	R -	R -	
16		**Sub - Total for General Surface Reclamation**					**R -**	
17								
18		**Water Management**						
19		Not applicable	1.1	na	0.00	R -	R -	
20		**Sub - Total for Water Management**					**R -**	
21								
22		**SUB - TOTAL 1** (for infrastructural and related structures)					**R 4 994 413.00**	
23		**Post - closure aspects**						
24		Surface water quality monitoring	12.1	yr	5.00	R 32 000.00	R 160 000.00	Allowance for 5 years post closure
25		Groundwater quality monitoring	12.2	yr	5.00	R 60 000.00	R 300 000.00	Allowance for 5 years post closure
26		Reclamation monitoring on reclaimed areas	12.3	ha	6.26	R 2 500.00	R 15 650.00	Assumed over a 5 year period, over the entire disturbed opencast areas
27		Care and maintenance of reclaimed areas	12.4	ha	6.26	R 15 500.00	R 97 030.00	Assumed over a 5 year period, over the entire disturbed opencast areas.
28		**Sub - Total for Post closure aspects**					**R 572 680.00**	
29		Contingencies for post closure aspects	1.2	sum	1.00	R 57 268.00	R 57 268.00	Assumed 10 percent for post closure aspects
30		**Sub - Total for Contingencies for post closure aspects**					**R 57 268.00**	
31		**SUB - TOTAL 2** (for post - closure aspects)					**R 629 948.00**	
32		**Additional allowances**						
33		Preliminary and General	1.2	sum	1.00	R 599 329.56	R 599 329.56	Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R 499 441.30	R 499 441.30	Assume 10 percent of sub - total 1
35		**SUB - TOTAL 3** (for additional allowances)					**R 1 098 770.86**	
36		**Grand - Total** (for sub - total 1+2+3)					**R 6 723 131.86**	

Closure Costing - Opencast Area			Closure Costs - *Year 3 (2014)*					
Item nr	ID	Task	Unit Rate Code	Unit	Quantity	Rate	Amount	Notes
1		**Infrastructural Aspects**						
2		Not applicable	1.1	na	0.00	R -	R -	
3		**Sub - Total for infrastructural aspects**					**R -**	
4								
5		**Mining Aspects**						
6		**Open pit reclamation including final voids and ramps**						
7		**Pit 8C**						Operational
8		Backfill pit void	9.3.1	m³	0.00	R 15.50	R -	Completed in month 19
9		Replace topsoil on pit area	9.1.2	m³	0.00	R 11.00	R -	Completed in month 20
10		Establish vegetation on pit area	10.4.3	ha	4.66	R 4 400.00	R 20 504.00	Measured from drawing
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	1.60	R 5 500.00	R 8 800.00	Measured from drawing
12		**Sub - Total for Mining aspects**					**R 29 304.00**	
13								
14		**General Surface Reclamation**						
15		Not applicable	1.1	na	0.00	R -	R -	
16		**Sub - Total for General Surface Reclamation**					**R -**	
17								
18		**Water Management**						
19		Not applicable	1.1	na	0.00	R -	R -	
20		**Sub - Total for Water Management**					**R -**	
21								
22		**SUB - TOTAL 1** (for infrastructural and related structures)					**R 29 304.00**	
23		**Post - closure aspects**						
24		Surface water quality monitoring	12.1	yr	5.00	R 32 000.00	R 160 000.00	Allowance for 5 years post closure
25		Groundwater quality monitoring	12.2	yr	5.00	R 60 000.00	R 300 000.00	Allowance for 5 years post closure
26		Reclamation monitoring on reclaimed areas	12.3	ha	6.26	R 2 500.00	R 15 650.00	Assumed over a 5 year period, over the entire disturbed opencast areas
27		Care and maintenance of reclaimed areas	12.4	ha	6.26	R 15 500.00	R 97 030.00	Assumed over a 5 year period, over the entire disturbed opencast areas.
28		**Sub - Total for Post closure aspects**					**R 572 680.00**	
29		Contingencies for post closure aspects	1.2	sum	1.00	R 57 268.00	R 57 268.00	Assumed 10 percent for post closure aspects
30		**Sub - Total for Contingencies for post closure aspects**					**R 57 268.00**	
31		**SUB - TOTAL 2** (for post - closure aspects)					**R 629 948.00**	
32		**Additional allowances**						
33		Preliminary and General	1.2	sum	1.00	R 3 516.48	R 3 516.48	Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R 2 930.40	R 2 930.40	Assume 10 percent of sub - total 1
35		**SUB - TOTAL 3** (for additional allowances)					**R 6 446.88**	
36		**Grand - Total** (for sub - total 1+2+3)					**R 665 698.88**	

Closure Costing - Opencast Area			Closure Costs - *Year 4 (2015)*					
Item nr	ID	Task	Unit Rate Code	Unit	Quantity	Rate	Amount	Notes
1		**Infrastructural Aspects**						
2		Not applicable	1.1	na	0.00	R -	R -	
3		**Sub - Total for infrastructural aspects**					**R -**	
4								
5		**Mining Aspects**						
6		**Open pit reclamation including final voids and ramps**						
7		**Pit 8C**						Rehabilitated
8		Backfill pit void	9.3.1	m³	0.00	R 15.50	R -	
9		Replace topsoil on pit area	9.1.2	m³	0.00	R 11.00	R -	
10		Establish vegetation on pit area	10.4.3	ha	0.00	R 4 400.00	R -	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R 5 500.00	R -	
12		**Sub - Total for Mining aspects**					**R -**	
13								
14		**General Surface Reclamation**						
15		Not applicable	1.1	na	0.00	R -	R -	
16		**Sub - Total for General Surface Reclamation**					**R -**	
17								
18		**Water Management**						
19		Not applicable	1.1	na	0.00	R -	R -	
20		**Sub - Total for Water Management**					**R -**	
21								
22		**SUB - TOTAL 1** (for infrastructural and related structures)					**R -**	
23		**Post - closure aspects**						
24		Surface water quality monitoring	12.1	yr	0.00	R 32 000.00	R -	Area fully rehabilitated
25		Groundwater quality monitoring	12.2	yr	0.00	R 60 000.00	R -	Area fully rehabilitated
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R 2 500.00	R -	Area fully rehabilitated
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R 15 500.00	R -	Area fully rehabilitated
28		**Sub - Total for Post closure aspects**					**R -**	
29		Contingencies for post closure aspects	1.2	sum	1.00	R -	R -	Assumed 10 percent for post closure aspects
30		**Sub - Total for Contingencies for post closure aspects**					**R -**	
31		**SUB - TOTAL 2** (for post - closure aspects)					**R -**	
32		**Additional allowances**						
33		Preliminary and General	1.2	sum	1.00	R -	R -	Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R -	R -	Assume 10 percent of sub - total 1
35		**SUB - TOTAL 3** (for additional allowances)					**R -**	
36		**Grand - Total** (for sub - total 1+2+3)					**R -**	

Closure Costing - Opencast Area			Closure Costs - *Year 5 (2016)*					
Item nr	ID	Task	Unit Rate Code	Unit	Quantity	Rate	Amount	Notes
1		**Infrastructural Aspects**						
2		Not applicable	1.1	na	0.00	R -	R -	
3		**Sub - Total for infrastructural aspects**					**R -**	
4								
5		**Mining Aspects**						
6		**Open pit reclamation including final voids and ramps**						
7		**Pit 8C**						Rehabilitated
8		Backfill pit void	9.3.1	m³	0.00	R 15.50	R -	
9		Replace topsoil on pit area	9.1.2	m³	0.00	R 11.00	R -	
10		Establish vegetation on pit area	10.4.3	ha	0.00	R 4 400.00	R -	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R 5 500.00	R -	
12		**Sub - Total for Mining aspects**					**R -**	
13								
14		**General Surface Reclamation**						
15		Not applicable	1.1	na	0.00	R -	R -	
16		**Sub - Total for General Surface Reclamation**					**R -**	
17								
18		**Water Management**						
19		Not applicable	1.1	na	0.00	R -	R -	
20		**Sub - Total for Water Management**					**R -**	
21								
22		**SUB - TOTAL 1** (for infrastructural and related structures)					**R -**	
23		**Post - closure aspects**						
24		Surface water quality monitoring	12.1	yr	0.00	R 32 000.00	R -	Area fully rehabilitated
25		Groundwater quality monitoring	12.2	yr	0.00	R 60 000.00	R -	Area fully rehabilitated
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R 2 500.00	R -	Area fully rehabilitated
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R 15 500.00	R -	Area fully rehabilitated
28		**Sub - Total for Post closure aspects**					**R -**	
29		Contingencies for post closure aspects	1.2	sum	1.00	R -	R -	Assumed 10 percent for post closure aspects
30		**Sub - Total for Contingencies for post closure aspects**					**R -**	
31		**SUB - TOTAL 2** (for post - closure aspects)					**R -**	
32		**Additional allowances**						
33		Preliminary and General	1.2	sum	1.00	R -	R -	Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R -	R -	Assume 10 percent of sub - total 1
35		**SUB - TOTAL 3** (for additional allowances)					**R -**	
36		**Grand - Total** (for sub - total 1+2+3)					**R -**	

Closure Costing - Opencast Area			Closure Costs - *Year 6 (2017)*					
Item nr	ID	Task	Unit Rate Code	Unit	Quantity	Rate	Amount	Notes
1		**Infrastructural Aspects**						
2		Not applicable	1.1	na	0.00	R -	R -	
3		**Sub - Total for infrastructural aspects**					**R -**	
4								
5		**Mining Aspects**						
6		**Open pit reclamation including final voids and ramps**						
7		**Pit 8C**						Rehabilitated
8		Backfill pit void	9.3.1	m³	0.00	R 15.50	R -	
9		Replace topsoil on pit area	9.1.2	m³	0.00	R 11.00	R -	
10		Establish vegetation on pit area	10.4.3	ha	0.00	R 4 400.00	R -	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R 5 500.00	R -	
12		**Sub - Total for Mining aspects**					**R -**	
13								
14		**General Surface Reclamation**						
15		Not applicable	1.1	na	0.00	R -	R -	
16		**Sub - Total for General Surface Reclamation**					**R -**	
17								
18		**Water Management**						
19		Not applicable	1.1	na	0.00	R -	R -	
20		**Sub - Total for Water Management**					**R -**	
21								
22		**SUB - TOTAL 1** (for infrastructural and related structures)					**R -**	
23		**Post - closure aspects**						
24		Surface water quality monitoring	12.1	yr	0.00	R 32 000.00	R -	Area fully rehabilitated
25		Groundwater quality monitoring	12.2	yr	0.00	R 60 000.00	R -	Area fully rehabilitated
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R 2 500.00	R -	Area fully rehabilitated
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R 15 500.00	R -	Area fully rehabilitated
28		**Sub - Total for Post closure aspects**					**R -**	
29		Contingencies for post closure aspects	1.2	sum	1.00	R -	R -	Assumed 10 percent for post closure aspects
30		**Sub - Total for Contingencies for post closure aspects**					**R -**	
31		**SUB - TOTAL 2** (for post - closure aspects)					**R -**	
32		**Additional allowances**						
33		Preliminary and General	1.2	sum	1.00	R -	R -	Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R -	R -	Assume 10 percent of sub - total 1
35		**SUB - TOTAL 3** (for additional allowances)					**R -**	
36		**Grand - Total** (for sub - total 1+2+3)					**R -**	

Closure Costing - Opencast Area			Closure Costs - *Year 7 (2018)*					
Item nr	ID	Task	Unit Rate Code	Unit	Quantity	Rate	Amount	Notes
1		**Infrastructural Aspects**						
2		Not applicable	1.1	na	0.00	R -	R -	
3		**Sub - Total for infrastructural aspects**					**R -**	
4								
5		**Mining Aspects**						
6		**Open pit reclamation including final voids and ramps**						
7		**Pit 8C**						Rehabilitated
8		Backfill pit void	9.3.1	m³	0.00	R 15.50	R -	
9		Replace topsoil on pit area	9.1.2	m³	0.00	R 11.00	R -	
10		Establish vegetation on pit area	10.4.3	ha	0.00	R 4 400.00	R -	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R 5 500.00	R -	
12		**Sub - Total for Mining aspects**					**R -**	
13								
14		**General Surface Reclamation**						
15		Not applicable	1.1	na	0.00	R -	R -	
16		**Sub - Total for General Surface Reclamation**					**R -**	
17								
18		**Water Management**						
19		Not applicable	1.1	na	0.00	R -	R -	
20		**Sub - Total for Water Management**					**R -**	
21								
22		**SUB - TOTAL 1** (for infrastructural and related structures)					**R -**	
23		**Post - closure aspects**						
24		Surface water quality monitoring	12.1	yr	0.00	R 32 000.00	R -	Area fully rehabilitated
25		Groundwater quality monitoring	12.2	yr	0.00	R 60 000.00	R -	Area fully rehabilitated
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R 2 500.00	R -	Area fully rehabilitated
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R 15 500.00	R -	Area fully rehabilitated
28		**Sub - Total for Post closure aspects**					**R -**	
29		Contingencies for post closure aspects	1.2	sum	1.00	R -	R -	Assumed 10 percent for post closure aspects
30		**Sub - Total for Contingencies for post closure aspects**					**R -**	
31		**SUB - TOTAL 2** (for post - closure aspects)					**R -**	
32		**Additional allowances**						
33		Preliminary and General	1.2	sum	1.00	R -	R -	Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R -	R -	Assume 10 percent of sub - total 1
35		**SUB - TOTAL 3** (for additional allowances)					**R -**	
36		**Grand - Total** (for sub - total 1+2+3)					**R -**	

Closure Costing - Opencast Area			Closure Costs - *Year 8 (2019)*					
Item nr	ID	Task	Unit Rate Code	Unit	Quantity	Rate	Amount	Notes
1		**Infrastructural Aspects**						
2		Not applicable	1.1	na	0.00	R -	R -	
3		**Sub - Total for infrastructural aspects**					**R -**	
4								
5		**Mining Aspects**						
6		**Open pit reclamation including final voids and ramps**						
7		**Pit 8C**						Rehabilitated
8		Backfill pit void	9.3.1	m³	0.00	R 15.50	R -	
9		Replace topsoil on pit area	9.1.2	m³	0.00	R 11.00	R -	
10		Establish vegetation on pit area	10.4.3	ha	0.00	R 4 400.00	R -	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R 5 500.00	R -	
12		**Sub - Total for Mining aspects**					**R -**	
13								
14		**General Surface Reclamation**						
15		Not applicable	1.1	na	0.00	R -	R -	
16		**Sub - Total for General Surface Reclamation**					**R -**	
17								
18		**Water Management**						
19		Not applicable	1.1	na	0.00	R -	R -	
20		**Sub - Total for Water Management**					**R -**	
21								
22		**SUB - TOTAL 1** (for infrastructural and related structures)					**R -**	
23		**Post - closure aspects**						
24		Surface water quality monitoring	12.1	yr	0.00	R 32 000.00	R -	Area fully rehabilitated
25		Groundwater quality monitoring	12.2	yr	0.00	R 60 000.00	R -	Area fully rehabilitated
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R 2 500.00	R -	Area fully rehabilitated
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R 15 500.00	R -	Area fully rehabilitated
28		**Sub - Total for Post closure aspects**					**R -**	
29		Contingencies for post closure aspects	1.2	sum	1.00	R -	R -	Assumed 10 percent for post closure aspects
30		**Sub - Total for Contingencies for post closure aspects**					**R -**	
31		**SUB - TOTAL 2** (for post - closure aspects)					**R -**	
32		**Additional allowances**						
33		Preliminary and General	1.2	sum	1.00	R -	R -	Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R -	R -	Assume 10 percent of sub - total 1
35		**SUB - TOTAL 3** (for additional allowances)					**R -**	
36		**Grand - Total** (for sub - total 1+2+3)					**R -**	

Closure Costing - Opencast Area			Closure Costs - *Year 9 (2020)*					
Item nr	ID	Task	Unit Rate Code	Unit	Quantity	Rate	Amount	Notes
1		**Infrastructural Aspects**						
2		Not applicable	1.1	na	0.00	R -	R -	
3		**Sub - Total for infrastructural aspects**					**R -**	
4								
5		**Mining Aspects**						
6		**Open pit reclamation including final voids and ramps**						
7		**Pit 8C**						Rehabilitated
8		Backfill pit void	9.3.1	m³	0.00	R 15.50	R -	
9		Replace topsoil on pit area	9.1.2	m³	0.00	R 11.00	R -	
10		Establish vegetation on pit area	10.4.3	ha	0.00	R 4 400.00	R -	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R 5 500.00	R -	
12		**Sub - Total for Mining aspects**					**R -**	
13								
14		**General Surface Reclamation**						
15		Not applicable	1.1	na	0.00	R -	R -	
16		**Sub - Total for General Surface Reclamation**					**R -**	
17								
18		**Water Management**						
19		Not applicable	1.1	na	0.00	R -	R -	
20		**Sub - Total for Water Management**					**R -**	
21								
22		**SUB - TOTAL 1** (for infrastructural and related structures)					**R -**	
23		**Post - closure aspects**						
24		Surface water quality monitoring	12.1	yr	0.00	R 32 000.00	R -	Area fully rehabilitated
25		Groundwater quality monitoring	12.2	yr	0.00	R 60 000.00	R -	Area fully rehabilitated
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R 2 500.00	R -	Area fully rehabilitated
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R 15 500.00	R -	Area fully rehabilitated
28		**Sub - Total for Post closure aspects**					**R -**	
29		Contingencies for post closure aspects	1.2	sum	1.00	R -	R -	Assumed 10 percent for post closure aspects
30		**Sub - Total for Contingencies for post closure aspects**					**R -**	
31		**SUB - TOTAL 2** (for post - closure aspects)					**R -**	
32		**Additional allowances**						
33		Preliminary and General	1.2	sum	1.00	R -	R -	Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R -	R -	Assume 10 percent of sub - total 1
35		**SUB - TOTAL 3** (for additional allowances)					**R -**	
36		**Grand - Total** (for sub - total 1+2+3)					**R -**	

Closure Costing - Opencast Area			Closure Costs - *Year 10 (2021)*					
Item nr	ID	Task	Unit Rate Code	Unit	Quantity	Rate	Amount	Notes
1		**Infrastructural Aspects**						
2		Not applicable	1.1	na	0.00	R -	R -	
3		**Sub - Total for infrastructural aspects**					**R -**	
4								
5		**Mining Aspects**						
6		**Open pit reclamation including final voids and ramps**						
7		**Pit 8C**						Rehabilitated
8		Backfill pit void	9.3.1	m³	0.00	R 15.50	R -	
9		Replace topsoil on pit area	9.1.2	m³	0.00	R 11.00	R -	
10		Establish vegetation on pit area	10.4.3	ha	0.00	R 4 400.00	R -	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R 5 500.00	R -	
12		**Sub - Total for Mining aspects**					**R -**	
13								
14		**General Surface Reclamation**						
15		Not applicable	1.1	na	0.00	R -	R -	
16		**Sub - Total for General Surface Reclamation**					**R -**	
17								
18		**Water Management**						
19		Not applicable	1.1	na	0.00	R -	R -	
20		**Sub - Total for Water Management**					**R -**	
21								
22		**SUB - TOTAL 1** (for infrastructural and related structures)					**R -**	
23		**Post - closure aspects**						
24		Surface water quality monitoring	12.1	yr	0.00	R 32 000.00	R -	Area fully rehabilitated
25		Groundwater quality monitoring	12.2	yr	0.00	R 60 000.00	R -	Area fully rehabilitated
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R 2 500.00	R -	Area fully rehabilitated
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R 15 500.00	R -	Area fully rehabilitated
28		**Sub - Total for Post closure aspects**					**R -**	
29		Contingencies for post closure aspects	1.2	sum	1.00	R -	R -	Assumed 10 percent for post closure aspects
30		**Sub - Total for Contingencies for post closure aspects**					**R -**	
31		**SUB - TOTAL 2** (for post - closure aspects)					**R -**	
32		**Additional allowances**						
33		Preliminary and General	1.2	sum	1.00	R -	R -	Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R -	R -	Assume 10 percent of sub - total 1
35		**SUB - TOTAL 3** (for additional allowances)					**R -**	
36		**Grand - Total** (for sub - total 1+2+3)					**R -**	

Closure Costing - Opencast Area			Closure Costs - *Scheduled*					
Item nr	ID	Task	Unit Rate Code	Unit	Quantity	Rate	Amount	Notes
1		**Infrastructural Aspects**						
2		Not applicable	1.1	na	0.00	R -	R -	
3		**Sub - Total for infrastructural aspects**					**R -**	
4								
5		**Mining Aspects**						
6		**Open pit reclamation including final voids and ramps**						
7		**Pit 8C**						Rehabilitated
8		Backfill pit void	9.3.1	m³	0.00	R 15.50	R -	
9		Replace topsoil on pit area	9.1.2	m³	0.00	R 11.00	R -	
10		Establish vegetation on pit area	10.4.3	ha	0.00	R 4 400.00	R -	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R 5 500.00	R -	
12		**Sub - Total for Mining aspects**					**R -**	
13								
14		**General Surface Reclamation**						
15		Not applicable	1.1	na	0.00	R -	R -	
16		**Sub - Total for General Surface Reclamation**					**R -**	
17								
18		**Water Management**						
19		Not applicable	1.1	na	0.00	R -	R -	
20		**Sub - Total for Water Management**					**R -**	
21								
22		**SUB - TOTAL 1** (for infrastructural and related structures)					**R -**	
23		**Post - closure aspects**						
24		Surface water quality monitoring	12.1	yr	0.00	R 32 000.00	R -	Area fully rehabilitated
25		Groundwater quality monitoring	12.2	yr	0.00	R 60 000.00	R -	Area fully rehabilitated
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R 2 500.00	R -	Area fully rehabilitated
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R 15 500.00	R -	Area fully rehabilitated
28		**Sub - Total for Post closure aspects**					**R -**	
29		Contingencies for post closure aspects	1.2	sum	1.00	R -	R -	Assumed 10 percent for post closure aspects
30		**Sub - Total for Contingencies for post closure aspects**					**R -**	
31		**SUB - TOTAL 2** (for post - closure aspects)					**R -**	
32		**Additional allowances**						
33		Preliminary and General	1.2	sum	1.00	R -	R -	Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R -	R -	Assume 10 percent of sub - total 1
35		**SUB - TOTAL 3** (for additional allowances)					**R -**	
36		**Grand - Total** (for sub - total 1+2+3)					**R -**	