SUMMARY OF THE PROPOSED PROSPECTING OPERATION.
PROJECT REFERENCE: NC 30/5/1/1/2/12996 PR

1. List of activities applied for

All prospecting and prospecting related activities for occurrence determination for the minerals Manganese, Iron and Silica by means of geological investigations, non-invasive surface sampling, drilling and bulk sampling:

NAME OF ACTIVITY	ARIAL EXTENT OF THE ACTIVITY HA OR M²	APPLICABLE LISTING NOTICE
Non-invasive activities		NEMA 2017, GNR 327, Listed 1, Activity 20: Any Activity including the operation of that activity which requires a prospecting right …
Surface sampling	Total: ± 0.05 ha Per hole: < 0.00005 ha	NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource ...
Drilling	± 0.1324 ha	
Initial drilling Infill Drilling	Total: 0.132 ha Per hole: 0.004 ha ?	NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource … NEMA 2017, GNR 327, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …
Sampling		NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource …
Rehabilitation	0.132 ha ?	NEMA 2017, GNR 327, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …

Ablution facility	Total: 0.004 ha Per site: 0.0004 ha ?	NEMA 2017, GNR 327, Listed 1, Activity 20: Any Activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource …
Vehicle storage		NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource …
Chemical storage		NEMA 2017, GNR 327, Listed 1, Activity 20: Any Activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMA 2017, GNR 327, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of section 43 of the MPRDA …
Diesel storage		NEMA 2017, GNR 327, Listed 1, Activity 20: Any Activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMA 2017, GNR 327, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …
Domestic waste facility		NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource …

Bulk sampling	< 6.33 ha	NEMA 2017, GNR 327, Listed 1, Activity 27: The clearance of an area of 1 hectare or more, but less than 20 ha of indigenous vegetation …
Sample excavation	Total: < 5 ha Per sample: < 1 ha	NEMA 2017, GNR 325, Listed 2, Activity 19: The removal and disposal of minerals contemplated in Section 20 of the Mineral and Petroleum Resources Development Act … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …
Topsoil	< 0.28 ha	NEMA 2017, GNR 325, Listed 2, Activity 19: The removal and disposal of minerals contemplated in Section 20 of the Mineral and Petroleum Resources Development Act … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMA 2017, GNR 327, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate int erms of Section 43 of the MPRDA …
Overburden	< 0.45 ha	NEMA 2017, GNR 325, Listed 2, Activity 19: The removal and disposal of minerals contemplated in Section 20 of the Minerals and Petroleum Resources Development Act … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …

Ore dumps	< 0.30 ha	NEMA 2017, GNR 325, Listed 2, Activity 19: The removal and disposal of minerals contemplated in Section 20 of the Minerals and Petroleum Resources Development Act … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMWA 2015, GNR 633, Category A, Activity 15: The continuous establishment and reclamation of temporary stockpiles resulting from activities which require a Prospecting Right … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …
Waste dumps	< 0.17 ha	NEMA 2017, GNR 325, Listed 2, Activity 19: The removal and disposal of minerals contemplated in Section 20 of the Minerals and Petroleum Resources Development Act … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMWA 2014, GNR 449, Category B (General Waste), Activity 13: Inert waste … (c) discarded soil, stones … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …
Stockpiles	< 0.13 ha	NEMA 2017, GNR 325, Listed 2, Activity 19: The removal and disposal of minerals contemplated in Section 20 of the Minerals and Petroleum Resources Development Act … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource …

		NEMWA 2015, GNR 633, Category A, Activity 15: The continuous establishment and reclamation of temporary stockpiles resulting from activities which require a Prospecting Right … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity …. (i) a closure certificate in terms of Section 43 of the MPRDA …
Prospecting related structures	± 3.5509 ha	NEMA 2017, GNR 327, Listed 1, Activity 27: The clearance of an area of 1 hectares or more, but less than 20 ha of indigenous vegetation …
Office site	0.0025 ha	NEMA 2017, GNR 327, Listed 2, Activity 20: Any activity including the operation of that activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity requiring – (i) a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 …

Processing site	0.5 ha	
High Frequency Vibrating screen Attrition Scrubber Spiral Washing Machine Magnetic separator Spiral Chute Separator		NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMA 2017, GNR 325, Listed 2, Activity 19: The removal and disposal of minerals contemplated in Section 20 of the Mineral and Petroleum Resources Development Act … (b) the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or washing … NEMWA 2014, GNR 449, Category A (Hazardous Waste, Activity 12: – Oil wastes and wastes of liquid fuels (except edible oils) – (a) waste hydraulic oils, (b) waste engine, gear and lubricating oils, (c) waste insulating and heat transmission oils, …, (e) waste of liquid fuels, (f) hazardous portion of other oil wastes NEMWA 2014, GNR 449, Category B (General Waste), Activity 11 – Building and demolition waste … (e) other discarded building and demolition waste NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity requiring – (i) a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act ….

Water reticulation dam		NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMA 2017, GNR 325, Listed 2, Activity 19: The removal and disposal of minerals contemplated in Section 20 of the Mineral and Petroleum Resources Development Act … (b) the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or washing … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity requiring – (i) a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 …
Ablution facility	0.0008 ha	NEMA 2017, GNR 327. Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity requiring – (i) a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 … NEMWA 2014, GNR 449, Categroy B (General Waste), Activity 12 – Domestic wastes: (b) municipal waste …

Vehicle parking	0.0358 ha	
Parking lot Wash bay Parts storeroom Scrap yard	0.02 ha 0.006 ha 0.0048 ha 0.005 ha	NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMWA 2014, GNR 449, Category A (Hazardous Waste), Activity 12 – Oil waste and wastes of liquid fuels (except edible oils) – (a) waste hydraulic oils, (b) waste engine, gear and lubricating oils, (c) waste insulting and heat transmission oils, (d) oil/water separator contents, … NEMWA 2014, GNR 449, Category B (General Waste), Activity 12: Domestic wastes: … (b) municipal waste … NEMWA 2014, GNR 449, Category B (General waste), Activity 13: Inert waste … (a) discarded concrete … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity requiring – (i) a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 …

Temp. Workshop facility	0.005 ha	NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMWA 2014, GNR 449, Category A (Hazardous Waste), Activity 12: Oil wastes and wastes of liquid fuels (except edible oils) – (a) waste hydraulic oils, (b) waste engine, gear and lubricating oils, (c) waste insulating and heat transmission oils, (d) oil/water separator contents, (e) waste of liquid fuels, (f) hazardous portion of other oil wastes NEMWA 2014, GNR 449, Category B (General waste), Activity 13: Inert waste … (a) discarded concrete … NEMWA 2014, GNR 449, Category B (General Waste), Activity 12 – Domestic wastes: … (b) municipal waste … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity requiring – (i) a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 …
Chemical and hydrocarbon fluid storage	0.0025 ha	NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMWA 2014, GNR 449, Category B (General waste), Activity 13: Inert waste … (a) discarded concrete …

		NEMWA 2014, GNR 449, Category A (Hazardous Waste), Activity 12 – Oil wastes and wastes of liquid fuels (except edible oils) – (a) waste hydraulic oils, (b) waste engine, gear and lubricating oils, (c) waste insulating and heat transmission oils, (d) oil/water separator contents, (e) waste of liquid fuels, (f) hazardous portion of other oil wastes NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity requiring – (i) a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 …
Diesel storage	0.0025 ha	NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMWA 2014, GNR 449, Category A (Hazardous Waste), Activity 12: Oil wastes and wastes of liquid fuels (except edible oils) - … (d) oil/water separator contents, (e) waste of liquid fuels … NEMWA 2014, GNR 449, Category B (General Waste), Activity 13: Inert waste … (a) discarded concrete … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity requiring – (i) a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 …

Domestic waste facility	0.0008 ha	NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMWA 2014, GNR 449, Category B (General Waste), Activity 12 – Domestic wastes: … (b) municipal waste, (c) food waste NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity requiring – (i) a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 …
Generator and power lines	0.001 ha	NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMWA 2014, GNR 449, Category A (Hazardous Waste), Activity 12: Oil wastes and wastes of liquid fuels (except edible oils), (b)waste engine, gear and lubricating oils, (c) waste insulating and heat transmission oils, …, (f) hazardous portion of other oil wastes NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity requiring – (i) a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 …

Security points		NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity requiring – (i) a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 …
Storm water control		NEMA 2017, GNR 327, Listed 1, Activity 20: Any activity including the operation of that activity which requires a prospecting right … (a) associated infrastructure, structures and earthworks, directly related to the prospecting of a mineral resource … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity requiring – (i) a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 …
Access and hauling roads	3 ha	NEMA 2017, GNR 327, Listed 1, Activity 24: The development of a road - … (ii) … where no reserve exists where the road is wider than 8 meters NEMA 2017, GNR 327, Listed 1, Activity 56: The widening of a road by more than 6 meters, or the lengthening of a road by more than 1 kilometer - … (ii) where no reserve exists … NEMA 2017, GNR 327, Listed 1, Activity 22: the decommissioning of any activity requiring – (i) a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 …

	Activity Total
	Grouped activity
	Information unknown / Cannot be determined

2. Typical impacts of activities

- Vegetation loss – a total area of approximately 100 633 m² will be cleared for the prospecting activities and related structures during the course of operations. The impact can be regarded as low to medium, with no long term effects. If rehabilitation of these areas is done correctly full recovery of the environment is possible.

- Noise disturbance – during the drilling and bulk sampling operations is noise generated by the machinery. Again the noise will be much localized and should have no impact on the surrounding environment.

- Air quality loss – dust will be generated during the drilling, bulk sampling and hauling activities. The dust generated may have an impact on the air quality, but with localized effects and should not have an effect on the surrounding environment. For this the impact can be regarded as low.

- Soil pollution – chemical soil pollution is always a possibility during mechanical operations. Working machinery and storage facilities bears a risk for chemical spillage and the impact thereof may be very severe.

- Soil compaction – heavy vehicles driving off-road bears a great risk to the trampling of vegetation and the compaction of the soil. The site areas will also become compacted during the duration of the prospecting activities. If not rehabilitated vegetation re-growth will be haltered and poses a low to medium risk to the environment.

- Littering pollution – littering during the prospecting activities can happen and may have a low to medium impact on the environment depending on the type of littering and the remediation thereof.

- Water pollution – chemical contaminated water from the storage facilities bears a risk to the environment. This impact should always be regarded as high and proper mitigation and/or remediation measures should be in place.

3. Duration of each activity

All of the listed activities will be occurring in phases and the time frame applied for at the Department of Mineral Resources is 5 years, which is the duration right being applied for.

Per listed activity:

- Geological investigations - ± 10 months
- Surface Sampling - ± 9 months
- Drilling - ± 10 months
  - Sampling - concurrent with drilling
  - Rehabilitation - concurrent with drilling
  - Ablution facility - concurrent with drilling
  - Vehicle storage - concurrent with drilling
  - Chemical storing - concurrent with drilling
  - Diesel storage - concurrent with drilling
  - Domestic waste facility - concurrent with drilling

- Bulk sampling - ± 35 months
  - Supervision and logging - concurrent with drilling
  - Rehabilitation - concurrent with drilling
  - Data input and mapping - concurrent with drilling

- Infill drilling - ± 11 months
- Geological modelling - ± 6 months
- Feasibility study - ± 10 months

4. Details regarding intended operation

The exploration activities on the proposed project area will be done in various phases, which will include a detailed desktop study, surface sampling as well as Reverse Circulation Percussion and Bulk Sampling to delineate the various commodity zones possibly underlying the property to determine minable resources.

- Phase 1
  - Geological investigation
    - Literature research

      Initial geological investigations will be to extract all relative information on the subject in the form of desktop studies using existing literature and available date of the area. From these information obtained the current geological maps is updated to be more area specific.

      Field visits will also be conducted for the purpose of geological surveys for outcrop evaluation. All findings will be digitally captured and geological models drafted

    - Arial photography

      Obtain the relevant photos from Mobray and/or the Council for Geo-Science of the area and by studying it, mark all the recognized outcrops for field investigations

- Visit surrounding mines
  Try to obtain permission to visit the surrounding farms and/or mines to obtain more knowledge of what can be expected at depth regarding the geological formations and ore characteristics.

- Geological overview
  All results obtained during the previous phases and activities are communicated and explained within the geological overview. Within this report all data is summarized with recommendations on future work planned.

- Detailed exploration planning
  Based on the information obtained during the previous work done a prospecting plan will be drafted, which will include the preferred geophysical method to be implemented and suggested survey lines.

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- Phase 2
  - Surface sampling
    Soil and stream sampling will be done to obtain the locality of the sub-outcrops of the Lower Critical Zone on the property.

    Sampling will be done according to the specifications as set out in the prospecting plan mentioned earlier.

  - Sample analyses
    Samples taken during the soil and stream sampling exercise are analyzed for mineral contents against specified international standards.

  - Geological overview
    The current geological overview will be updated communicating the findings and result of the sampling operations. The report will further explain the possible product outcome and best suitable market for further feasibility studies

  - Progress Report
    A comprehensive report will be drafted as part of the annual report of the DMRE and possible early investor.

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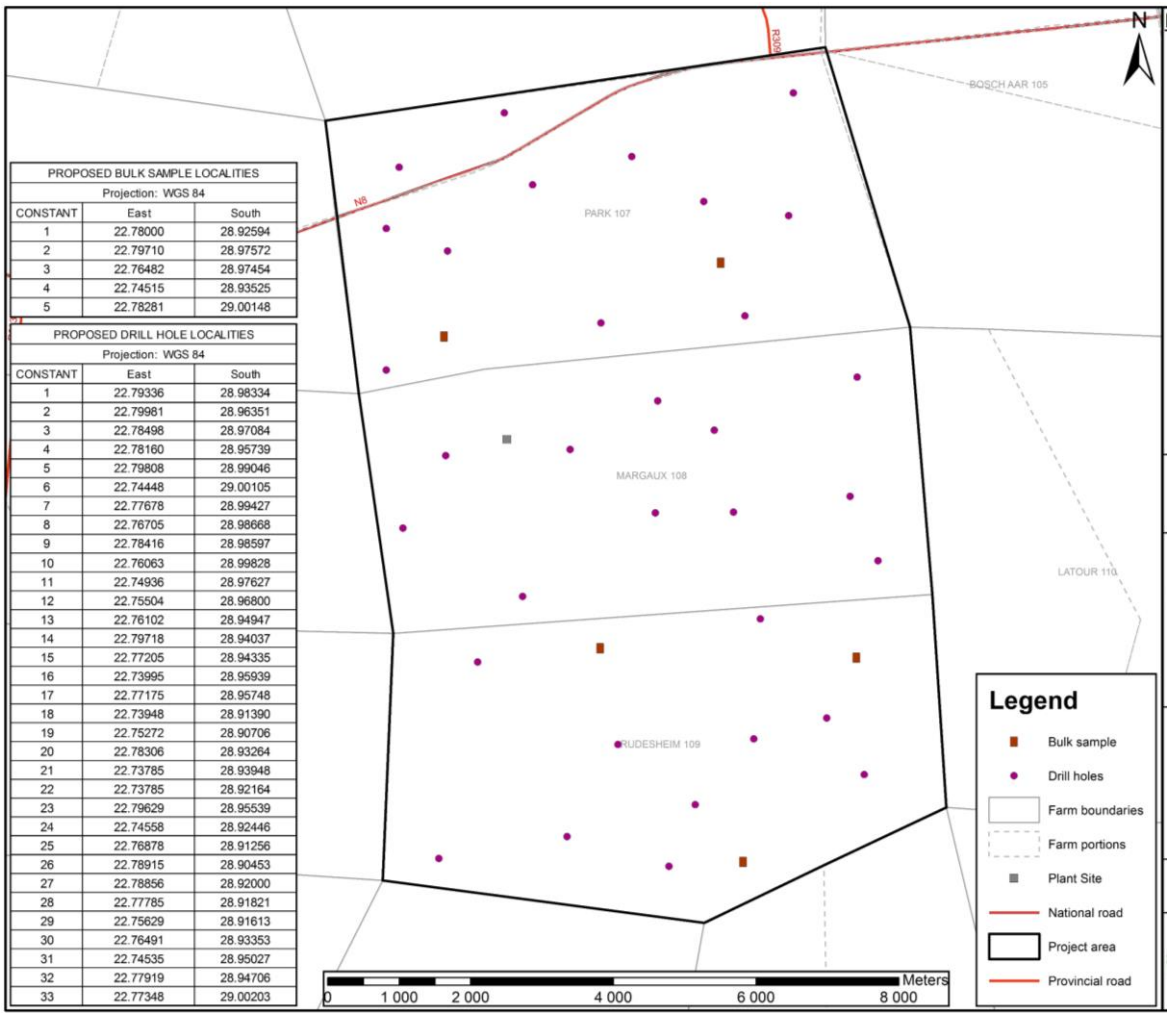

PROPOSED BULK SAMPLE LOCALITIES		
Projection: WGS 84		
CONSTANT	East	South
1	22.78000	28.92594
2	22.79710	28.97572
3	22.76482	28.97454
4	22.74515	28.93525
5	22.78281	29.00148

PROPOSED DRILL HOLE LOCALITIES		
Projection: WGS 84		
CONSTANT	East	South
1	22.79336	28.98334
2	22.79981	28.96351
3	22.78498	28.97084
4	22.78160	28.95739
5	22.79808	28.99046
6	22.74448	29.00105
7	22.77678	28.99427
8	22.76705	28.98668
9	22.78416	28.98597
10	22.76063	28.99828
11	22.74936	28.97627
12	22.75504	28.96800
13	22.76102	28.94947
14	22.79718	28.94037
15	22.77205	28.94335
16	22.73995	28.95939
17	22.77175	28.95748
18	22.73948	28.91390
19	22.75272	28.90706
20	22.78306	28.93264
21	22.73785	28.93948
22	22.73785	28.92164
23	22.79629	28.95539
24	22.74558	28.92446
25	22.76878	28.91256
26	22.78915	28.90453
27	22.78856	28.92000
28	22.77785	28.91821
29	22.75629	28.91613
30	22.76491	28.93353
31	22.74535	28.95027
32	22.77919	28.94706
33	22.77348	29.00203

- Phase 3
  - Drilling

    The initial drilling proposed is done to demarcate the commodity body with its boundaries. The number of drill holes are not foreseen to exceed 33 holes initially, as it can only be determined once the area underlain by the Critical Zone is known.

    The exact drill hole localities and depth (for calculation purposes an estimation of 100 m will be used) are also dependent on the geometry of the underlying commodity band/s, as well as the underlying geological structure\s.

  - Logging and sampling

    All drill holes will be logged every meter containing information such as hole location, hole depth, ore depth and other geological structures encountered within the hole. The drill chips samples will be taken, stored within the appropriate containers and safeguarded for future referencing.

Portions of the drill chips representing the commodity will be taken and placed in bags for sample analyses. Each sample will be marked with the hole number and the sample number. The sample number will also appear on the hole's log sheet for accuracy purposes of the programme and results to be obtained.

- Rehabilitation
  Rehabilitation will be done as suited for percussion drilling. Each hole will be backfilled with the material extracted during the drilling operations in a sequence of 'last out = first in".

  Each hole will be fully rehabilitated before commencing to the next drill location. In this way rehabilitation is time and cost effective.

- Sample analyses
  The samples emanated from the drilling exercise will be analyzed for resource grade calculations. The certificates obtained from the independent and accredited laboratory will be safe kept together with the log sheets for future referencing.

- Data input an mapping
  All data obtained during the proposed activities will be digitally captured and already existing maps updated to give more detailed and accurate models of the study area.

- Geological Report
  All findings and results will be drafted and explained within a geological reports. The geological models created will be used for this purpose and also be included within the report. The report will further include recommendations as well as a refined drilling programme for the following phase of the proposed prospecting activities. It will also be used during the 3rd year as part of the yearly report to the DMRE.

- Phase 4
  - Bulk Sampling
    Bulk sampling is proposed in the form of trail mining over a total extent of ± 5 hectares. Rehabilitation will form an integral part of the bulk sampling operation and waste material will be backfilled as the operation commences. The commodity extracted and sold will be intensively logged and record kept thereof.

  - Sample supervision and logging
    The bulk sampling process will be logged every meter containing information such as logging location, depth, commodity body depth and other geological structures encountered within the excavation. The mineral body extracted will be stockpiled and sold to establish the market value, offset points as well as project funding

Samples representing the commodity will be taken and placed in bags for sample analyses. Each sample will be marked with the sample location and the sample number. The sample number will also appear on the log sheet for accuracy purposes of the programme and results to be obtained

- Rehabilitation
  Rehabilitation will form an integral part of the bulk sampling activity, where the waste material is backfilled and sloped according to legislative acceptable standards. Rehabilitation is further finalized by the spreading of the overburden and topsoil in their respective order. A two-to-three-year monitoring programme will be initiated to ensure the successful re-establishment of vegetation

- Data Capturing and mapping
  All recovery results and geological information obtained during the third phase of prospecting will be digitally logged. This will provide updated geological maps and models to identify more accurately the extent of any commodity deposits discovered as well as better estimates of the commodity body distribution patterns therein

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- Phase 5
  - Infill drilling
    Phase 4 is strongly dependent on the previous phases for the location of these drill holes as well as the grid on which these holes will be drilled. Updated plans and programmes for this phase will be submitted to the Department of Mineral Resources and Energy before the commencement of this phase.

    This is done to determine the grade distribution throughout the commodity body and the exact extent of the commodity body

  - Logging and sampling
    All drill holes will be logged every meter containing information such as hole location, hole depth, ore depth and other geological structures encountered within the hole. The drill chip samples will be taken, stored within the appropriate containers and safeguarded for future referencing.

    Portions of the drill chips representing the commodity body will be taken and placed in bags for sample analyses. Each sample will be marked with the hole number and the sample number. The sample number will also appear on the hole's log sheet for accuracy purposes of the programme and results to be obtained

- Rehabilitation
  Rehabilitation will be done as suited for percussion drilling. Each hole will be backfilled with the material extracted during the drilling operations in a sequence of 'last out = first in".

  Each hole will be fully rehabilitated before commencing to the next drill location. In this way rehabilitation is time and cost effective

- Sample analyses
  The samples emanated from the drilling exercise will be analyzed for resource grade calculations. The certificates obtained from the independent and accredited laboratory will be safe kept together with the log sheets for future referencing

- Data input and mapping
  All data obtained during the proposed activities will be digitally captured and already existing maps updated to give more detailed and accurate models of the study area

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- Phase 6
  - Geological modelling
    A 3-D geological model will be created of the ore body/s, using all borehole information, to illustrate the geometry of the various ore body layers in relation to each other and the surface for later planning of mining activities.

  - Ore resources
    The grades of the minerals sought after as analyzed by the laboratory will be interpreted into the 3-D geological model to obtain a 3-D grade distribution and volumes of the ore, also called the in-situ grade. Cutoff values will be applied to obtain mineable resources.

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- Phase 7
  - Feasibility study including:-
    a. Geological and mineable resources
       Geological resources will be divided into indicated resources and proven reserves. The minable resources will be determined by applying various cut off criteria, such as grade, depth below surface and thickness.

    b. Financial models
       Various cost models will be generated by interpreting cost structures into the geological model to determine payable mining zones. The latter will also be used to refine the mining model/s

c. Business plan

A business plan will be drafted that will include all geological information , proposed mining plans and the various financial models to either generate further financial support by means of listing on a stock exchange or private investment.