

### **BASIC ASSESSMENT REPORT**

### And

### **ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT**

SUBMITTED FOR ENVIRONMENTAL AUTHORIZATIONS IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT, 2008 IN RESPECT OF LISTED ACTIVITIES THAT HAVE BEEN TRIGGERED BY APPLICATIONS IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (MPRDA) (AS AMENDED).

NAME OF APPLICANT: GOLDIPRO (PTY) LTD

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FIRE REFERENCE NUMBER SAMRAD: (NC) 30/5/1/1/2/11972 PR

### **IMPORANT NOTICE**

In terms of the Mineral and Petroleum Resources Development Act (Act 28 of 2002 as amended), the Minister must grant a prospecting or mining right if among others the mining "will not result in unacceptable pollution, ecological degradation or damage to the environment".

Unless an Environmental Authorisation can be granted following the evaluation of an Environmental Impact Assessment and an Environmental Management Programme Report in terms of the National Environmental Management Act (Act 107 of 1998) (NEMA), it cannot be concluded that the said activities will not result in unacceptable pollution, ecological degradation or damage to the environment.

In terms of Section 16(3)(b) of the EIA Regulations, 2014, any report submitted as part of an application must be prepared in a format that may be determined by the Competent Authority and in terms of Section 17(1)(c) the Competent Authority must check whether the application has taken into account any minimum requirements applicable or instructions or guidance provided by the Competent Authority to the submission of applications.

It is therefore an instruction that the prescribed reports required in respect of applications for an environmental authorisation for listed activities triggered by an application for a right or permit are submitted in the exact format of, and provide all the information required in terms of, this template. Furthermore please be advised that failure to submit the information required in the format provided in this template will be regarded as a failure to meet the requirements of the Regulation and will lead to the Environmental Authorisation being refused.

It is furthermore an instruction that the Environmental Assessment Practitioner must process and interpret his/her research and analysis and use the findings thereof to compile the information required herein. (Unprocessed supporting information may be attached as appendices.) The EAP must ensure that the information required is placed correctly in the relevant sections of the Report, in the order, and under the provided headings as set out below, and ensure that the report is not cluttered with un-interpreted information and that it unambiguously represents the interpretation of the applicant.

### **OBJECTIVE OF THE BASIC ASSESSMENT PROCESS**

The objective of the basic assessment process is to, through a consultative process:-

- a) determine the policy and legislative context within which the proposed activity is located and how the activity complies with and responds to the policy and legislative context;
- b) identify the alternatives considered, including the activity, location, and technology alternatives;
- c) describe the need and desirability of the proposed alternatives;
- d) through the undertaking of an impact and risk assessment process inclusive of cumulative impacts which focused on determining the geographical, physical, biological, social, economic, heritage, and cultural sensitivity of the sites and locations within sites and the risk of impact of the proposed activity and technology alternatives on these aspects to determine:
  - (i) the nature, significance, consequence, extent, duration, and probability of the impacts occurring to; and
  - (ii) the degree to which these impacts:-
    - (aa) can be reversed;
    - (bb) may cause irreplaceable loss of resources; and
    - (cc) can be managed, avoided or mitigated;
- e) through a raking of the site sensitivities and possible impacts the activity and technology alternatives will impose on the sites and location identified through the life of the activity to:-
  - (i) identify and motivate a preferred site, activity and technology alternative;
  - (ii) identify suitable measures to manage, avoid or mitigate identified impacts; and
  - (iii) identify residual risks that need to be managed and monitored.

# PART A SCOPE OF ASSESSMENT AND BASIC ASSESSMENT REPORT

Contact Person and correspondence address:

### a) Details of:

### i) The EAP who prepared the report:

Name of the Practitioner: M and S Consulting (Pty) Ltd

Tel No: 053 861 1765 Fax No: 086 636 0731

Cell No: 084 444 4474 - Ms. T. Jooste

E-Mail address: ms.consulting@vodamail.co.za

### (i) Expertise of the EAP:

### (1) The qualifications of the EAP:

(With evidence attached as Appendix 1)

- Nine years professional experience, in terms of Section 15(1) of the National Environmental Management Act, 1998 (Act No. 107 of 1998), Section 24 24H Registration Authority Regulations as published on 22 July 2016 under Government Gazette No. 40154 (849); and
- Environmental Management Certificate

### (2) Summary of the EAP's past experience:

(Attach the EAP's curriculum vitae as Appendix 2)

Relevant past experiences in carrying out the Environmental Impact Assessment Procedures include Environmental Impact Assessments, Environmental Management Plans / Programmes / Reports, Performance Assessments, Rehabilitation Progress Assessments, Environmental Liability Assessments, Environmental Compliance Monitoring, Scoping Reports, etc.

### b) Location of the overall activity:

Farm Name:	Portions 2, 3, 4 and 5 of the Farm Hedley Plains A No. 64	
Application area (Ha)	13 514.5500 Ha	
Magisterial district:	Prieska	
Distance and direction	The application area is situated approximately 50km	
from nearest town	south-west of the town of Prieska in the Northern Cape	
	Province. Access to the site can be obtained from a	
	secondary road turning from the R357 between Prieska	
	and Copperton.	
21 digit Surveyor General	C0600000000006400002	
Code for each farm portion	C0600000000006400003	
	C0600000000006400004	
	C0600000000006400005	

### c) Locality Map:

(show nearest town, scale not smaller than 1:250 000 attached as Appendix 3)

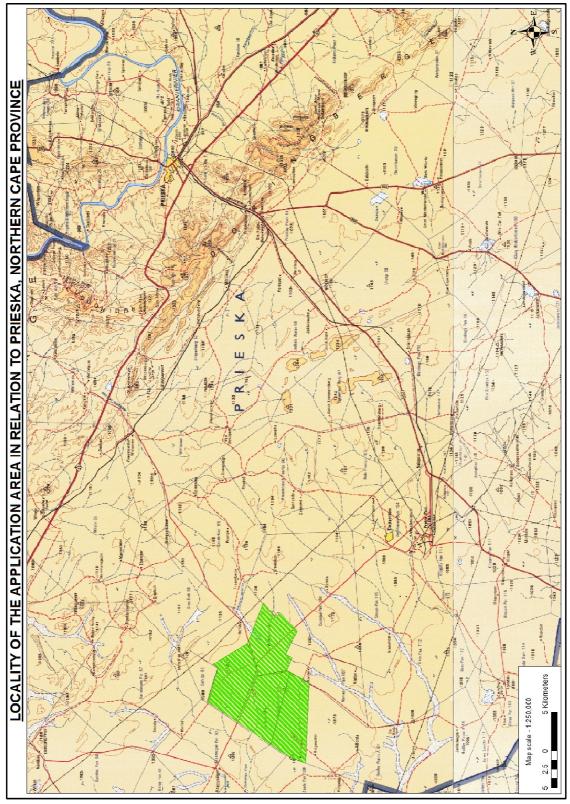


Figure 1 – Locality Map

### d) Description of the scope of the proposed overall activity:

### i) Listed and specified activities:

(Provide a plan drawn to a scale acceptable to the competent authority but not less than 1:10 000 that shows the location, and area (hectares) of all the aforesaid main and listed activities, and infrastructure to be placed on site and attach as Appendix 4)

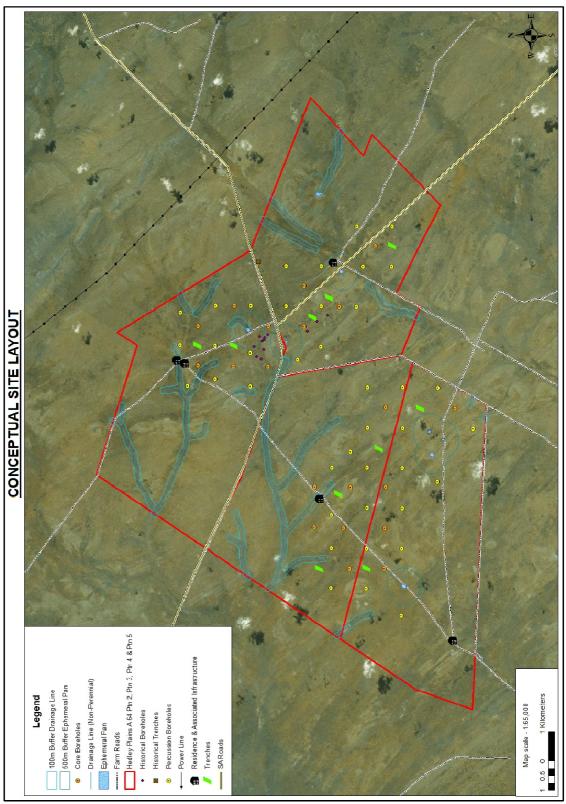


Figure 2 - Conceptual site layout plan

The final site layout can only be determined during active prospecting as set out below:

- The first three phases of the proposed prospecting activities will be non-invasive and will entail the review of historical activities and data; geological mapping and a magnetic survey. The position of the percussion- and core boreholes is dependent on the results of these non-invasive activities.
- The locality of the trenches can only be determined after the drilling activities have been finalized, the samples analysed and results obtained.

Goldipro shall make use of offices in the town of Copperton for its administrative needs and contractors shall reside off-site in a nearby town (i.e. Copperton / Prieska) during the invasive prospecting phases.

	Name of activity	Aerial extent of the activity	Listed	Applicable Listing
(e.g. Excavations, blasting, stockpiles, discard dumps or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etcetc.)		(Ha or m²)	Activity (mark with an X where applicable or affected)	Notice (GNR544, GNR545 or GNR546 / Not listed)
1	Percussion boreholes: 40 boreholes with a 10m x 10m surface disturbance around each hole	4 000m² (0.40 Ha)	Х	GNR327 – Activity 20 GNR327 – Activity 27
2	Core boreholes: 20 boreholes with a 10m x 10m surface disturbance around each hole	2 000m² (0.20 Ha)	Х	GNR327 – Activity 20 GNR327 – Activity 27
3	Trenches: 10 trenches of 15m (length) x 1m (wide) x 2m (deep)	150m² (0.015 Ha)	Х	GNR327 – Activity 20 GNR327 – Activity 27
4	Access tracks: - 500m long and 3m wide access tracks will be created Existing roads will be used as far as possible.	1 500m² (0.15 Ha)	Х	GNR327 – Activity 20 GNR327 – Activity 27

In terms of the Amendment of the Environmental Impact Assessment Regulations Listing Notice 1 of 2014 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) as published in GN40772 on the 7<sup>th</sup> of April 2017 the following listed activities are applied for:

### GNR327 Activity 20

Any activity including the operation of that activity which requires a prospecting right in terms of Section 16 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including

- (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource; or including activities for which an exception has been issued in terms of Section 106 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002)
- (b) the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or washing; but excluding the secondary processing of a mineral resource, including the smelting, beneficiation, reduction, refining, calcining or gasification of the mineral resource in which case activity 6 of Listing Notice 2 applies.

GNR327	The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of
Activity 27	indigenous vegetation is required for:-
	(i) the undertaking of a linear activity; or
	(ii) maintenance purposes undertaken in accordance with a maintenance management plan.

### (ii) Description of the activities to be undertaken:

(Describe methodology or technology to be employed, and for a linear activity, a description of the route of the activity.)

Goldipro's prospecting activities for Copper, Zinc, Lead, Gold, Silver, Cobalt, Sulphur, Barytes, Pyrite, Molybdenum, Chrome, Platinum Group Metals, Nickel, Tungsten, Limestone, Stone Aggregate and Sand are planned to be conducted in phases over a period of five years.

Phase	Activity	Skill(s) required	Timeframe	Outcome	Timeframe for outcome	What technical expert will sign off on the outcome?
	(what are the activities that are planned to achieve optimal prospecting)	(refers to the competent personnel that will be employed to achieve the required results)	(in months) for the activity)	(What is the expected deliverable, e.g. Geological report, analytical results, feasibility study, etc.)	(deadline for the expected outcome to be delivered)	(e.g. geologist, mining engineer, surveyor, economist, etc)
1	Non-invasive Prospecting Review of historical activities	Geologist	Month 1 – 6	Maps, Plan & Report	Month 7	Geologist
2	Non-invasive Prospecting Geological Mapping	Geologist	Month 7 - 12	Map & Report	Month 13	Geologist
3	Non-invasive Prospecting Geophysical Survey	Geophysicist	Month 13 - 18	Map & Report	Month 19	Geologist
4	Invasive Prospecting Percussion drilling	Geologist & Drilling contractor	Month 19 - 24	Drill logs	Month 24	Geologist
5	Non-invasive Prospecting Analysis of drill samples	Laboratory	Month 25 - 30	Laboratory report     Map & Report	Month 31	Laboratory & Geologist
6	Invasive Prospecting Core drilling	Geologist & Drilling contractor	Month 31 - 36	Drill logs	Month 36	Geologist
7	Non-invasive Prospecting Analysis of drill samples	Laboratory	Month 37 - 42	Laboratory report     Map & Report	Month 43	Laboratory & Geologist
8	Invasive Prospecting Trenching	Geologist & Drilling contractor	Month 43 - 48	Drill logs	Month 48	Geologist
9	Non-invasive Prospecting Analysis of trench samples	Laboratory	Month 49 - 54	Laboratory report     Map & report	Month 54	Laboratory & Geologist
10	Non-Invasive Prospecting Feasibility study	Geologist	Month 55 - 60	Resource Calculations to evaluate economic viability of the project	Month 60	Geologist & CEO

Description of planned non-invasive activities:
 (These activities do not disturb the land where prospecting will take place)

### Phase 1:

In order to direct the exploration programme in an efficient manner, there will be a review of all available information and data gathered by previous exploration on the farm. A desktop study will be undertaken of the base metal potential of the area. A site investigation of the target areas will be undertaken to identify infrastructure and determine any potential problems that may need to be addressed.

### Phase 2:

Any anomalous features identified will be mapped in detail. The various rock types and their contacts will also be mapped.

#### Phase 3:

A 3 line kilometer magnetic survey (or any other suitable geophysical method) will be undertaken using a proton 5 magnetometer over selected

areas as identified during the desktop study. This study will result in identifying potential base metal / sulphide mineralization.

### Phases 5 & 7 & 9:

Drill samples will be collected in one meter intervals and logging will be done by a qualified geologist who will record the lithology, mineralogy, degree of mineralization and structural features. Mineralized samples will be analyzed at an internationally recognized (ISO certified) laboratory.

### Phase 10:

A detailed feasibility report, containing resource calculations, will be compiled after drilling operations have been completed to evaluate the economic viability of the project.

Description of planned invasive activities:
 (These activities result in land disturbances)

### Phase 4: Percussion drilling

Percussion drilling will be used initially to identify the position of a suspected base metal deposit. The position of the boreholes is dependent on the results of the review of historical activities, geological mapping, desktop study and geophysical survey.

Forty boreholes, on average 50m deep each, are planned. The collar position of all boreholes will be surveyed. All drilling will be short term and undertaken by a contractor using truck-mounted equipment.

Angled percussion holes are planned to locate and intersect the mineralization. A traverse line or grid drilling is used to identify and define the extent of any mineralization. The sizes of the boreholes drilled will be determined by such factors as cost, proposed sampling, availability of drilling machines and the volume of sample required, among others.

Each drill site will be rehabilitated before a new site is established. The boreholes will be filled with drill chips and covered with topsoil.

### Phase 6: Core drilling

Depending on the results from the non-invasive prospecting activities as well as the percussion drilling phase, further confirmation and exploratory drilling may be required. Core drilling will only be used if mineralization has been found. The position of the boreholes is dependent on the results of the non-invasive activities.

Twenty boreholes, on average 75m deep each, are planned for phase 6, but depending on results this could be more. The collar position of all boreholes will be surveyed. All drilling will be short term and undertaken by a contractor using truck-mounted equipment.

Each drill site will be rehabilitated before a new site is established. The boreholes will be covered with a metal plate and 0.2m previously stored topsoil. All drilling material, liquid spills and refuse will be cleared and transported to the relevant municipal landfill.

### Phase 8: Trenching

This phase will only be undertaken should positive drilling results be achieved in the foregoing phases. In order to determine the true location and width of the surface outcrop of the mineralized oxide zone, trenches with a north-east striking, approximately 2m deep and 1m wide will be made. Ten trenches of 15m length on average are planned at this stage but depending on drilling results this could be more.

### Description of pre-/feasibility studies

All prospecting data will be captured in a GIS database and should a mineralized deposit found during drilling then it will be modeled to obtain a final interpretation of the potential of the deposit. A detailed feasibility report will be compiled. Should the project prove feasible an application for a Mining Right will be submitted.

### e) Policy and Legislative Context:

Applicable Legislation and Guidelines used to compile the report  (a description of the policy and legislative context within which the development is proposed including an identification of all legislation, policies, plans, guidelines, spatial tools, municipal development planning frameworks and instruments that are applicable to this activity and are to be considered in the assessment process.)	Reference where applied
Conservation of Agricultural Resources Act (Act 43 of 1983) and Regulations	<ul> <li>Section 5: Implementation of control measures for alien and invasive plant species;</li> <li>Section 6: Control measures.</li> <li>Regulation GN R1048, published on 25 May 1984, in terms of CARA</li> </ul>
Constitution of South Africa (Act 108 of 1996)	<ul> <li>Section 24: Environmental right</li> <li>Section 25: Rights in Property</li> <li>Section 27: Water and sanitation right</li> </ul>
Environment Conservation Act (Act 73 of 1989) and Regulations	<ul> <li>Sections 21, 22, 25, 26 and 28: EIA Regulations, including listed activities.</li> <li>Section 28A: Exemptions.</li> </ul>
Fencing Act (Act 31 of 1963)	- Section 17: States that any person erecting a boundary fence may clean any bush along the line of the fence up to 1.5m on each side thereof and remove any tree standing in the immediate line of the fence. However, this provision must be read in conjunction with the environmental legal provisions relevant to protection of flora.
Hazardous Substances Act (Act 15 of 1973) and Regulations read together with NEMA and NEMWA	- Definition, classification, use, operation, modification, disposal or dumping of hazardous substances.
Intergovernmental Relations Act (Act 13 of 2005)	- This Act establishes a framework for the National, Provincial and Local Governments to promote and facilitate intergovernmental relations.
Mine, Health and Safety Act (Act 29 of 1996) and Regulations Mineral and Petroleum Resources Development Act (Act 28 of 2002) and Regulations as amended	<ul><li>Entire Act.</li><li>Entire Act.</li><li>Regulations GN R527</li></ul>
National Environmental Management Act (Act 107 of 1998) and Regulations as amended	<ul> <li>Section 2: Strategic environmental management principles, goals and objectives.</li> <li>Section 24: Foundation for Environmental Management frameworks.</li> <li>Section 24N:</li> <li>Section 24O:</li> </ul>

National Environmental Management: Air Quality Act (Act 39 of 2004)	<ul> <li>Section 28: The developer has a general duty to care for the environment and to institute such measures to demonstrate such care.</li> <li>Regulations GN R547, published on 18 June 2010 in terms of NEMA (Environmental Management Framework Regulations)</li> <li>Regulations GN R982 to R985, published on 4 December 2014 in terms of NEMA (Listed Activities)</li> <li>Regulations GN R993, published on 8 December 2014 in terms of NEMA (Appeal)</li> <li>Regulations GN R994, published on 8 December 2014 in terms of NEMA (exemption)</li> <li>Regulations GN R205, published on 12 March 2015 in terms of NEMA (National appeal Amendment Regulations)</li> <li>Regulations GN R1147, published on 20 November 2015 in terms of NEMA (Financial Provision)</li> <li>Section 32: Control of dust</li> <li>Section 35: Control of offensive odours</li> <li>Regulation GN R551, published on 12 June 2015 (amended Categories 1 to 5 of GN 983) in terms of NEM:AQA (Atmospheric emission which have a significant detrimental effect on the environment)</li> <li>Regulation GN R283, published on 2 April 2015 in terms of NEM:AQA (National Atmospheric Emissions Reporting Regulations) (Group C-Mines)</li> </ul>
National Environmental Management: Biodiversity Act (Act 10 of 2004)	<ul> <li>Section 52 of The National Environmental Management Act: Biodiversity Act (NEMBA) (Act 10 of 2004) states that the MEC/Minister is to list ecosystems that are threatened and in need of protection.</li> <li>Section 53 states that the Minister may identify any process or activity in such a listed ecosystem as a threatening process.</li> <li>A list of threatened and protected species has been published in terms of Section 56(1) GG 29657 GNR 151 and GNR 152, Threatened or Protected Species Regulations.</li> <li>Commencement of Threatened or Protected Species Regulations 2007: 1 June 2007 GNR 150/GG 29657/23-02-2007</li> </ul>

	Publication of lists of critically endangered, vulnerable and protected species GNR 151/GG 29657/23-02-2007 * Threatened or Protected Species Regulations GNR 152/GG 296547/23-02-2007 * - Sections 65 – 69: These sections deal with restricted activities involving alien species; restricted activities involving certain alien species totally prohibited; and duty of care relating to alien species Sections 71 and 73: These sections deal with restricted activities
	<ul> <li>involving listed invasive species and duty of care relating to listed invasive species.</li> <li>Regulation GN R151, published on 23 February 2007 (List fo Critically Endangered, Vulnerable and Protected Species, 2007) in terms of NEM: BA</li> </ul>
The National Environmental Management Act. Protected	<ul> <li>Regulation GN R152, published on 23 February 2007 (TOPS) in terms of NEM:BA</li> <li>Regulations GN R507 to 509 of 2013 and GN 599 of 2014 in terms of NEM:BA (Alien Species)</li> <li>Chapter 2 lists all protected areas.</li> </ul>
The National Environmental Management Act: Protected Areas Act (NEMPAA) (Act 57 of 2003) provides for the protection of ecologically viable areas that are representative of South Africa"s natural biodiversity and its landscapes and seascapes.	- Onapier 2 lists all protected areas.
National Environmental Management: Waste Management Act (Act 59 of 2008)	<ul> <li>Chapter 4: Waste management activities</li> <li>Regulations GN R634 published on 23 August 2013 in terms of NEM:WA (Waste Classification and Management Regulations)</li> <li>Regulations GN R921 published on 29 November 2013 in terms of NEM:WA (Categories A to C – Listed activities)</li> <li>National Norms and Standards for the Remediation of contaminated Land and Soil Quality published on 2 May 2014 in terms of NEM:WA (Contaminated land regulations)</li> <li>Regulations GN R634 published on 23 August 2013 in terms of NEM: WA (Waste Classification and Management Regulations)</li> <li>Regulations GN R632 published on 24 July 2015 in terms of NEM: WA (Planning and Management of Mineral Residue Deposits and Mineral Residue Stockpiles)</li> </ul>

National Forest Act (Act 84 of 1998) and Regulations	<ul> <li>Regulations GN R633 published on 24 July 2015 in terms of NEM: WA (Amendments to the waste mangment activities list published under GN921)</li> <li>Section 15: No person may cut, disturb, damage, destroy or remove any protected tree; or collect, remove, transport, export, purchase, sell, donate or in any other manner acquire or dispose of any protected tree, except</li> </ul>
National Heritage Resources Act (Act 25 of 1999) and Regulations	<ul> <li>under a licence granted by the Minister.</li> <li>Section 34: No person may alter or demolish any structure or part of a structure which is older than 60 years without a permit issued by the relevant provincial heritage resources authority.</li> <li>Section 35: No person may, without a permit issued by the responsible heritage resources authority destroy, damage, excavate, alter, deface or otherwise disturb any archaeological or palaeontological site.</li> <li>Section 36: No person may, without a permit issued by SAHRA or a provincial heritage resources authority destroy, damage, alter, exhume, remove from its original position or otherwise disturb any grave or burial ground older than 60 years which is situated outside a forma cemetery administered by a local authority.</li> <li>Section 38: This section provides for HIA which are not already covered under the ECA. Where they are covered under the ECA the provincial heritage resources authorities must be notified of a proposed project and must be consulted during HIA process.</li> <li>Regulation GN R548 published on 2 June 2000 in terms of NHRA</li> </ul>
National Water Act (Act 36 of 1998) and regulations as amended, inter alia Government Notice No. 704 of 1999	<ul> <li>Section 4: Use of water and licensing.</li> <li>Section 19: Prevention and remedying the effects of pollution.</li> <li>Section 20: Control of emergency incidents.</li> <li>Section 21: Water uses In terms of Section 21 a licence is required for: <ul> <li>(a) taking water from a water resource;</li> <li>(b) storing water;</li> <li>(c) impeding or diverting the flow of water in a watercourse;</li> <li>(f) Waste discharge related water use;</li> <li>(g) disposing of waste in a manner which may detrimentally impact on a water resource;</li> <li>(i) altering the bed, banks, course or characteristics of a watercourse;</li> </ul> </li></ul>

	<ul> <li>(j) removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people; and;</li> <li>Regulation GN R704, published on 4 June 1999 in terms of the National Water Act (Use of water for mining and related activities)</li> <li>Regulation GN R1352, published on 12 November 1999 in terms of the National Water Act (Water use to be registered)</li> <li>Regulation GN R139, published on 24 February 2012 in terms of the National Water Act (Safety of Dams)</li> <li>Regulation GN R398, published on 26 March 2004 in terms of the National Water Act (Section 21 (j))</li> <li>Regulation GN R399, published on 26 March 2004 in terms of the National Water Act (Section 21 (a) and (b))</li> <li>Regulation GN R1198, published on 18 December 2009 in terms of the National Water Act (Section 21 (c) and (i) – rehabilitation of wetlands)</li> <li>Regulations GN R1199, published on 18 December 2009 in terms of the National Water Act (Section 21 (c) and (i))</li> <li>Regulations GN R665, published on 6 September 2013 in terms of the National Water Act (Amended GN 398 and 399 – Section 21 (e), (f), (h), (g), (j))</li> <li>General Authorisation, GNR 538, published on 02 September 2016, pertaining to the taking and storing of water, water uses in terms of Section 21(a) and 21(b) of the National Water Act.</li> </ul>
Nature Conservation Ordinance (Ord 19 of 1974)	- Chapters 2, 3, 4 and 6: Nature reserves, miscellaneous conservation measures, protection of wild animals other than fish, protection of Flora.
Northern Cape Nature Conservation Act (Act 9 of 2009)	- Addresses protected species in the Northern Cape and the permit application process related thereto.
Occupational Health and Safety Act (Act 85 of 1993) and Regulations	<ul> <li>Section 8: General duties of employers to their employees.</li> <li>Section 9: General duties of employers and self-employed persons to persons other than their employees.</li> </ul>
Road Traffic Act (Act 93 of 1997) and Regulations	- Entire Act.
Water Services Amendment Act (Act 30 of 2007)	- It serves to provide the right to basic water and sanitation to the citizens of South Africa (giving effect to section 27 of the Constitution).
National Land Transport Act, (Act 5 of 1998)	
Northern Cape Planning and Development Act (Act 7 of	- To control planning and development

1998)	
Spatial Planning and Land Use Management (Act 16 of 2013 (SPLUMA) and regulations	<ul> <li>To provide a framework for spaitial planning and land use management in the Republic;</li> <li>To specify the relationship between the spatial planning and the land use management, amongst others</li> <li>Regulations GN R239 published on 23 March 2015 in terms of SPLUMA</li> </ul>
Subdivision of Agricultural Land Act, 70 of 1970 and regulations	<ul> <li>Regulations GN R373 published on 9 March 1979 in terms of Subdivision of Agricultural Land</li> </ul>
Basic Conditions of Employment Act (Act 3 of 1997) ) as amended	- To regulate employment aspects
Community Development (Act 3 of 1966)	- To promote community development
Development Facilitation (Act 67 of 1995) and regulations	- To provide for planning and development
Development Facilitation (GN24, PG329, 24/07/1998)	- Regulations re Northern Cape LDO's
Development Facilitation (GNR1, GG20775, 07/01/2000)	- Regulations re application rules S26, S46, S59
Development Facilitation (GN732, GG14765, 30/04/2004)	- Determines amount, see S7(b)(ii)
Land Survey Act (Act 8 of 1997) ) and regulations, more specifically GN R1130	<ul> <li>To control land surveying, beacons etc. and the like;</li> <li>Agriculture, land survey S10</li> </ul>
National Veld and Forest Fire Act (Act 101 of 1998) ) and regulations, more specifically GN R1775	To regulate law on veld and forest fires     (Draft regulations s21)
Togalations, more opcomount artitive	(Brain regulations of r)
Municipal Ordinance, 20/1974	- To control pollution, sewers etc.
Municipal Ordinance, PN955, 29/08/1975	- Nature conservation Regulations
Cape Land Use Planning Ordinance, 15/85	- To control land use planning
Cape Land Use Planning Ordinance, PN1050, 05/12/1988	- Land use planning Regulations

### f) Need and desirability of the proposed activities:

(Motivate the need and desirability of the proposed development including the need and desirability of the activity in the context of the preferred location.)

In terms of the Environmental Impact Assessment Regulations, 2017 (GG40772, Government Notice No. R326) the need and desirability of any development must be included in the relevant reports to be submitted to the competent authority.

Assessment of the geological information available has determined that the area in question may have various mineral reserves. In order to ascertain the above and determine the nature, locality and extent of the mineral reserves within the prospecting area, it will be necessary that prospecting be undertaken. The prospecting will also determine if there are any features that may have an impact on the economic extraction of the minerals.

The information that will be obtained from the prospecting to be done will be necessary to determine, should the minerals be found, how and where the minerals will be extracted and how much economically viable mineral reserves are available within the proposed prospecting area.

Should the minerals applied for be found in the application area, Goldipro will be able to ensure employment opportunities and support to the local business for a certain period.

Goldipro expects that substantial benefits from the project (should the minerals applied for be found) will accrue to the immediate project area, the sub-region and the Northern Cape Province. These benefits must be offset against the costs of the project, including the impact to the surface owner/s.

Further to the above and with reference to the Pixley Ka Seme District Municipality's Integrated Development Plan, it has been determined that there is little data on the extent of mineral reserves in the district. The undertaking of exploration is a costly and complex business. As such the IDP proposes that a detailed marketing plan is put together to attract exploration investment to the district and to aggressively market the district as an investment target in the mining sector. Goldipro's proposed prospecting activities shall directly contribute to the requirements as set out in the PKSDM's IDP.

### g) Motivation for the overall preferred site, activities and technology alternative:

- The properties on which or location where it is proposed to undertake the activity: The geological formation supports the possibility that the minerals applied for could be found within the application area.
- The operational aspects of the activity:
   Goldipro aims to minimize its impact on the natural environment as much as possible and as such has opted to only use drilling and small trenches as invasive prospecting methods.

### • The technology to be used in the activity:

#### o Drilling:

A percussion drill rig and a core drill rig will be used during the prospecting activities. There are no alternatives to these types of drill rigs that will ensure high quality samples for analysis.

### o Trenching:

An alternative to trenching is bulk sampling; however Goldipro's objective during the initial prospecting phase is only to determine the true location and width of the surface outcrop of the mineralized oxide zones.

# h) Full description of the process followed to reach the proposed preferred alternatives within the site:

(NB!! – This section is about the determination of the specific site layout and the location of infrastructure and activities on site, having taken into consideration the issues raised by interested and affected parties, and the consideration of alternatives to the initially proposed site layout.)

### (i) Details of all alternatives considered:

With reference to the site plan provided as Appendix 4 and the location of the individual activities on site, provide details of the alternatives considered with respect to:

# (a) The property on which or location where it is proposed to undertake the activity:

The registered description of the land to which the prospecting right application relates:

Farm Name	<u>Title Deed</u>	In Extent
Portion 2 of the Farm Hedley Plains A 64	T80467/1992	3360.3102 Ha
Portion 3 of the Farm Hedley Plains A 64	T12426/2001	3360.3204 Ha
Portion 4 of the Farm Hedley Plains A 64	T51545/2013	3360.3144 Ha
Portion 5 of the Farm Hedley Plains A 64	T51545/2013	3360.3199 Ha

### Alternatives considered:-

Goldipro has considered the following alternatives:

- The Geological formation that supports the possibility that the minerals applied for could be found within the area.
- The availability of farms within the area that is not already occupied by existing prospecting or mining rights.
- The availability of infrastructure, such as a road network, in the immediate surrounding area, which could be utilized to allow easy access to the site.

Taking the above into consideration, Goldipro opted to apply for the properties as listed above.

### (b) The type of activity to be undertaken:

Prospecting activities for Copper, Zinc, Lead, Gold, Silver, Cobalt, Sulphur, Barytes, Pyrite, Molybdenum, Chrome, Platinum Group Metals, Nickel, Tungsten, Limestone, Stone Aggregate and Sand are planned to be conducted in phases over a period of five years. Prospecting activities will include non-invasive and invasive (percussion- and core drilling and trenching).

### Alternatives considered:-

The only alternative land use is livestock and game farming; however the applicant's main economic activity is prospecting / mining and for this reason does not favour any other alternative land use.

### (c) The design or layout of the activity:

Infrastructure: No offices and storerooms will be established at the site as Goldipro shall make use of facilities in the town of Copperton.

Invasive prospecting: The proposed locality of the boreholes and trenches was placed on a 400m x 400m grid in three centralized areas.

### Alternatives considered:-

Infrastructure: The only alternative considered was the establishment of offices and storerooms on the farm under application. As Goldipro aims to minimize its impact on the natural environment as much as possible this option was decided against.

Invasive prospecting: The drilling of boreholes over the entire application area and bulk sampling was considered, but taking into account that Goldipro aims to minimize its impact on the natural environment as much as possible these options was decided against.

### (d) The technology to be used in the activity:

### o Drilling:

A percussion drill rig and a core drill rig will be used during the prospecting activities.

### Trenching:

Small trenches will be dug with an excavator. These trenches will be backfilled immediately.

### Alternatives considered:-

There are no alternatives to these types of drill rigs that will ensure high quality samples for analysis. An alternative to trenching is bulk sampling; however Goldipro's objective during the initial prospecting phase is only to determine the true location and width of the surface outcrop of the mineralized oxide zones.

### (e) The operational aspects of the activity:

Goldipro will use drilling and small trenches as invasive prospecting methods.

#### Alternatives considered:-

Goldipro considered conducting bulk sampling as part of its prospecting activities. To ensure the prospecting activities are cost effective and has a minimal impact on the natural environment, Goldipro opted to only conduct drilling activities and small trenches during its initial prospecting period.

### (f) The option of not implementing the activity:

Five measures of economic impacts can be used to demonstrate the potential effect of the proposed prospecting operation on the local economy:

- Employment The extent of employment can be measured as number of jobs or in terms of full time equivalents.
- Payroll income The gross remuneration of employees in terms of salaries and wages.
- Capital Expenditure (CAPEX) The total amount spent on the purchasing of fixed assets and total spent on construction.
- Operating expenditure and maintenance (OPEX) The total amount spent locally by businesses on goods and services, excluding salaries and wages as well as rents or interest.
- Revenue The total value of sales arising from business activity at the prospecting operation.

The abovementioned positive impacts will be lost if the proposed prospecting project is not developed.

### (ii) Details of the Public Participation Process Followed:

(Describe the process undertaken to consult interested and affected parties including public meetings and one on one consultation. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. Information to be provided to affected parties must include sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land.)

The surface owners of the properties under application, surrounding landowners and various other identified interested and affected parties were notified of the proposed prospecting activity by means of e-mail or registered post, with a Background Information Document attached thereto.

Any other interested and / or affected party was also invited to register as such in advertisements that were placed in the Oewernuus (Local newspaper) and Volksblad (Regional newspaper). A notice board was also placed at the site. Attached as Appendix '5' find hereto proof of the notification process.

Refer to Appendix '6' for all responses received to the notification letters.

A meeting was held with the surface owners, Mr. Riaan Kuhn (he also represented Mr. Piet Kuhn) (Trustees of Saamsit CC) and Mr. Bundu Conradie (Bundu Trust) on the 15<sup>th</sup> of June 2017. A meeting was held with Mr. Gert Scott (Legal Occupant of Portions 4 & 5 of the application area), on the 17<sup>th</sup> of June 2017. Refer to Appendix '7' for the attendance registers and meeting minutes of the respective meetings.

A draft copy of the Basic Assessment Report and Environmental Management Programme Report was provided to the surface owners / legal occupant for perusal and comment. The content of the BAR & EMPR document was discussed during the meeting all of the above parties confirmed that they agree with the content of this document.

### (iii)Summary of issues raised by I&AP's

(Complete the table summarising comments and issues raised, and reaction to those responses.)

Interested and Affected Parties		Date	Issues raised	EAPs response to the issue of the
List the names of persons consulted in this column, and mark		comments		I&AP
with an X where those who must be consulted were in fact consulted.		received		
			AFFECTED PARTIES	
Landowner/s	Χ			
Saamsit CC	Χ	15/06/2017	Mr. R. Kuhn did not raise any issues.	N/A
Bundu Trust	Χ	15/06/2017	Mr. B. Conradie did not raise any issues.	N/A
National Government of the Republic of South Africa	Χ		A meeting was held with the legal occupant, Mr. Gert Scott.	
Lawful occupier/s of the land				
Mr. Gert Scott	Χ	17/06/2017	Mr. Scott did not raise any issues.	N/A
Landowners or lawful occupiers on	Χ			
adjacent properties				
Mariba Trust	Χ	N/A	To date no comment has been received.	N/A
Mr. S.W.J. van Zyl	Χ	N/A	To date no comment has been received.	N/A
Cahi Trust	Χ	N/A	To date no comment has been received.	N/A
Mr. J.S. & Mrs. M. Visagie	Х	13/07/2017	Access control & security risk;	Controlled access to the site with prior arrangement with surface owner;
			• Dust;	Speed limits;
			Livestock theft;	<ul> <li>Supervision of employees and contractors;</li> </ul>
			Disruption of livestock activities; and	Drilling activities shall be concentrated in certain areas of the properties, with prior arrangement with the surface owner;

			Rehabilitation of boreholes.	Rehabilitation shall be done in accordance with the approved BAR / EMPr.		
FJJ Trust	Χ	N/A	To date no comment has been received.	N/A		
Isaac William Jimmy Stadhouer Trust	Χ	N/A	To date no comment has been received.	N/A		
Municipal Councillor	Χ					
Siyathemba Local Municipality	Χ	N/A	To date no comment has been received.	N/A		
Municipality	Χ					
Pixley Ka Seme District Municipality	Χ	N/A	To date no comment has been received.	N/A		
Organs of State (Responsible for infrastructure that may be affected Roads Department, Eskom, Telkom, DWA, etc.)						
Eskom	X	N/A	To date no comment has been received.	N/A		
SANRAL	Χ	N/A	To date no comment has been received.	N/A		
Transnet	Χ	N/A	To date no comment has been received.	N/A		
Communities						
Not applicable: There are no communities in the immediate vicinity of the prospecting right application area.						
Department of Land Affairs						
Department: Rural Development and Land Affairs	Х	N/A	To date no comment has been received.	N/A		
Traditional Leaders						
	es, wit	n Traditional L	eaders, in the immediate vicinity of the prospe	ecting right application area.		
Department of Environmental Affairs						
The Department of Environmental Affair	s is a c	ompetent aut	hority in this Prospecting Right application prod	cess.		
Other Competent Authorities						
Department: Agriculture	Х	N/A	To date no comment has been received from this Department.	N/A		
Department: Public Works	Х	19/06/2017	F. Paulsen informed M&S that the Department of Rural Development is the custodian of two of the portions of the	Notification of the proposed project was sent to the Department of Rural Development.		

			application area.		
Department: Science and Technology	Χ	N/A	To date no comment has been received	N/A	
			from this Department.		
Department: Water Affairs	Χ	N/A	To date no comment has been received	N/A	
			from this Department.		
Other Affected Parties					
Not applicable: No other parties responded to the notification process.					
Interested Parties					
EnviroAfrica Environmental Consultant	Χ	N/A	To date no comment has been received.	N/A	
NK Energie (Pty) Ltd	Χ	N/A	To date no comment has been received.	N/A	
SKA South Africa	Χ	N/A	To date no comment has been received.	N/A	
M. Koert	Χ	N/A	To date no comment has been received.	N/A	

The consultation process was recorded until 20 August 2017.

### (iv) The Environmental attributes associated with the alternatives:

(The environmental attributed described must include socio-economic, social, heritage, cultural, geographical, physical and biological aspects.)

### (1) Baseline Environment:

### (a) Type of environment affected by the proposed activity:

(its current geographical, physical, biological, socio-economic and cultural character.)

### Air quality:

The only current source of nuisance dust is created from vehicles travelling on the gravel (farm) roads transecting the properties. The general air quality on the properties is expected to be good.

The wind rose for Copperton shows how many hours per year the wind blows from the indicated direction. Example SW: Wind is blowing from South-West (SW) to North-East (NE).

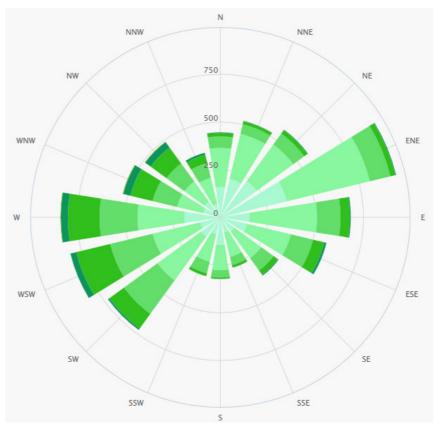


Figure 3 – Wind rose for Copperton area

The diagram for Copperton shows how many days within one month can be expected to reach certain wind speeds. Monsoons create steady strong winds from December to April, but calm winds from June to October.

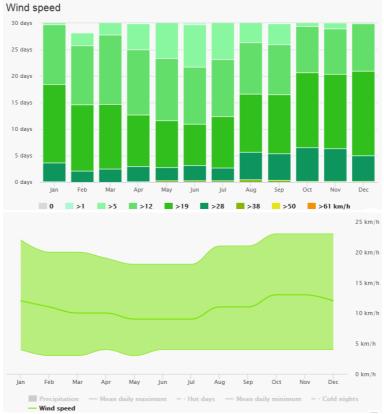


Figure 4 – Wind speed of the Copperton area

### • Archaeological, cultural & heritage environment:

There is no known archaeological, cultural or heritage environment within the application area.

### • Climate:

The Northern Cape experiences typical semi-desert and desert climatic conditions. The summers are hot and dry and the winters cold and frosty.

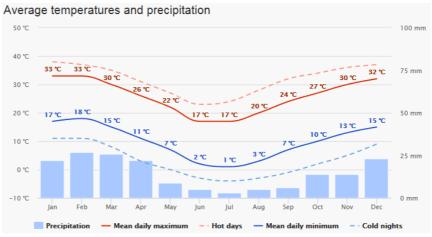


Figure 5 – Average temperatures and precipitation of the Copperton area

The "mean daily maximum" (solid red line) shows the maximum temperature of an average day for every month for Copperton. Likewise, "mean daily minimum" (solid blue line) shows the average minimum temperature. Hot days and cold nights (dashed red and blue lines) show the average of the hottest day and coldest night of each month of the last 30 years.

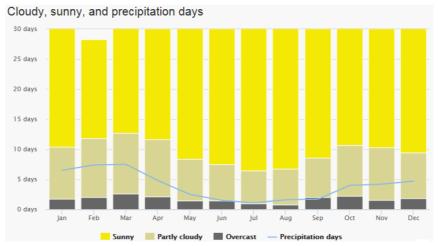


Figure 6 – Cloudy, sunny and precipitation days in the Copperton area

The graph shows the monthly number of sunny, partly cloudy, overcast and precipitation days. Days with less than 20% cloud cover are considered as sunny, with 20-80% cloud cover as partly cloudy and with more than 80% as overcast.

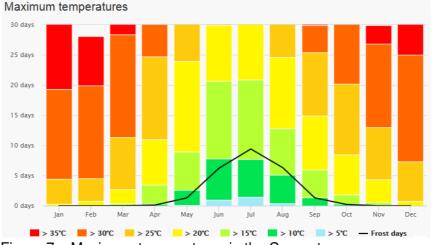


Figure 7 – Maximum temperatures in the Copperton area

The maximum temperature diagram for Copperton displays how many days per month reach certain temperatures.

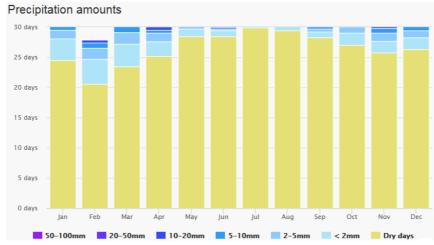


Figure 8 – Precipitation of the Copperton area

The precipitation diagram for Copperton shows on how many days per month, certain precipitation amounts are reached.

#### • Fauna:

Animals likely to be found on the farm and surrounding environment include small mammals and birds that are associated with the Bushmanland Arid Grassland Vegetation Type. These include, amongst various others, small antelope, Black-backed Jackals, Caracal, snakes, Aardvark, Meerkat, Steenbok and Small Spotted Cats.

### Flora:

The area under application falls within the Bushmanland Arid Grassland Vegetation type (NKb3) part of the Nama-Karoo Biome.

The following is normally found under the Bushmanland Arid Grassland vegetation type:

- Graminoids: Aristida adscensionis (d), A. congesta (d), Enneapogon desvauxii (d), Eragrostis nindensis (d), Schmidtia kalahariensis (d), Stipagrostis ciliata (d), S. obtusa (d), Cenchrus ciliaris, Enneapogon scaber, Eragrostis annulata, E. porosa, E. procumbens, Panicumlanipes, Setaria verticillata, Sporobolus nervosus, Stipagrostis brevifolia, S. uniplumis, Tragus berteronianus, T. racemosus.
- Small Trees: Acacia mellifera subsp. detinens, Boscia foetida subsp. Foetida.
- o Tall Shrubs: *Lycium cinereum* (d), *Rhigozum trichotomum* (d), *Cadaba aphylla*, *Parkinsonia africana*.
- Low Shrubs: Aptosimum spinescens (d), Hermannia spinosa
   (d), Pentzia spinescens (d), Aizoon asbesstinum, A. schellenbergii, Aptosimum elongatum, A. lineare, A. morlothii, Barleria rigida, Berkheya annectens, Blepharis mitrata,

Eriocephalus ambiguus, E. spinescens, Limeum aethiopicum, Lophiocarpus polystachyus, Monechma incanum, M. spartioides, Pentzia pinnatisecta, Phaeoptilum spinosum, Polygala seminude, Pteronia leucoclada, P. mucronata, P. sordid, Rosenia humilis, Senecio niveus, Sericocoma avolans, Solanum capense, Talinum arnotii, Tetragonia arbuscula, Zygophyllum microphyllum.

- Succulent Shrubs: Kleinia longiflora, Lycium bosciifolium, Salsola tuberculata, S. glabrescens.
- Herbs: Acanthopsis hoffmannseggiana, Aizoon canariense, Amaranthus praetermissus, Barleria lichtensteiniana, Chamaesyce inaequilatera, Dicoma capensis, Indigastrum argyraeum, Lotononis platycarpa, Sesamum capense, Tribulus pterophorus, T. terrestris, Vahlia capensis.
- o Succulent Herbs: Gisekia pharnacioides, Psilocaulon coriarium, Trianthema parvifolia.
- o Herb: Moraea venenata.



Figure 9 – Regional vegetation map

### · Geology:

The project area is situated some 30km northwest of the historical Copperton Mine. The Copperton mine, historically one of the largest of its kind in Southern Africa, was active between October 1972 and December 1991. During this time a total of 45,68 Mt of ore was milled at a grade of 1.11% copper and 2.62%

zinc. In addition to the copper and zinc, the mine also produced pyrite concentrate (for sulphur) and lead together with smaller amounts of silver and gold. Only one composite ore body, the Prieska ore body was exploited. The much smaller Annex deposit was left un-mined.

The Prieska body's mineralization was confined to a tabular, strata-bound horizon, in the northern limb of a recumbent synform. It was hosted within deformed gneisses of the Vogelstruisbult Formation, which have been dated at 1285 Ma and form part of the Namaqualand Metamorphic Complex. The gneisses are composed of quartz, feldspars, hornblende, cordierite and micas in varying proportions.

The application area is host to similar rocks as found at Copperton (Vogelstruisbult Formation - Mv). The Vogelstruisbult Formation forms part of the Areachap Group which also hosts magmatic Nickel-Copper-Cobalt-PGM mineralization and it is believed that the application area could host similar mineralization. Calc-silicate rocks of the Hedley Plain Formation (Mhe) and tilites belonging to the Dwyka Formation (C-pd) outcrops in some parts of the application area. The application area is largely covered by windblown sand (Qg).

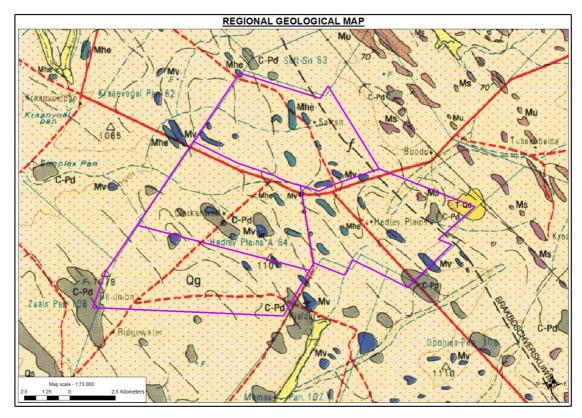


Figure 10 - Geological map

### Groundwater:

The application area falls within the D54G quaternary drainage region. The drainage region forms part of the Lower Orange Water Management Area (nr. 14 in terms of the National Water Act, 1998 (Act no. 36 of 1998) as published in the Government Gazette 20491, 1 October 1999).

The surface owners use groundwater for livestock watering and residential use. The ground water quality is expected to be reasonable.

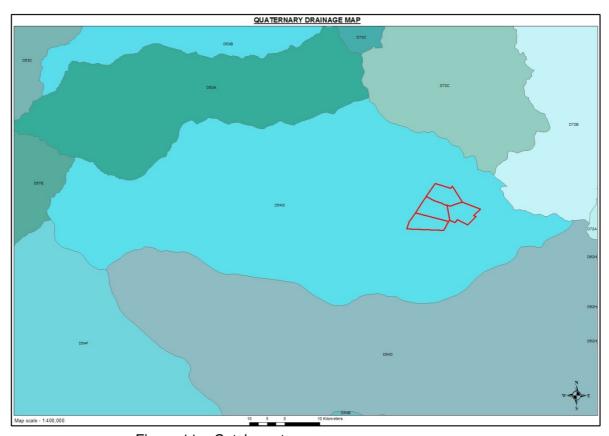


Figure 11 – Catchment map

#### Noise:

The only current source of noise is created from vehicles travelling on the gravel (farm) roads transecting the properties.

### Sensitive landscapes:

"Sensitive environments" that have statutory protection are the following:

- Limited development areas (section 23 of the Environment Conservation Act, 1989 (Act 73 of 1989).
- o Protected natural environments and national heritage sites.
- National, provincial, municipal and private nature reserves.
- o Conservation areas and sites of conservation significance.
- o National monuments and gardens of remembrance.

- o Archaeological and palaeontological sites.
- Graves and burial sites
- Lake areas, offshore islands and the admiralty reserve.
- o Estuaries, lagoons, wetlands and lakes.
- o Streams and river channels, and their banks.
- Dunes and beaches.
- o Caves and sites of geological significance.
- o Battle and burial sites.
- Habitat and /or breeding sites of Red Data Book species.
- o Areas or sites of outstanding natural beauty.
- Areas or sites of special scientific interest.
- Areas or sites of special social, cultural or historical interest.
- o Declared national heritage sites
- Mountain catchment areas.
- Areas with eco-tourism potential

There are a number of non-perennial drainage lines, which traverses the application area. There are also a few small ephemeral pans in the application area. No prospecting will be allowed to be conducted within 100m from the dry water courses or within 500m from the ephemeral pans.

#### • Socio-Economic:

The farms under application are located within the Siyathemba Local Municipal Area, which falls under management of the Pixley Ka Seme District Municipality.

According to the 2011 Census data the following is a description of the Socio-Economic environment for the municipal area:

Siyathemba Local Municipality is a local municipality in the Pixley Ka Seme District Municipality in the Northern Cape Province of South Africa. Siyathemba Municipality is a Category B Municipality (NC077), established in 2001, in accordance with the demarcation process. The municipality is located within the central eastern parts of the Northern Cape Province on the banks of the Orange River, and falls within the boundaries of the Pixley Ka Seme District. The nearest business centre is Kimberley, which is about 220km away.

Siyathemba Municipality was initially made up of three entities, namely, Prieska, Marydale and Niekerkshoop. After demarcation the area was extended to include not only the towns and surrounding suburbs of Marydale, Niekerkshoop and Prieska but also Copperton. The municipal area encompasses a geographic area of approximately 8,200km², which implies that Siyathemba Municipality accounts for 8% of the total district surface area and

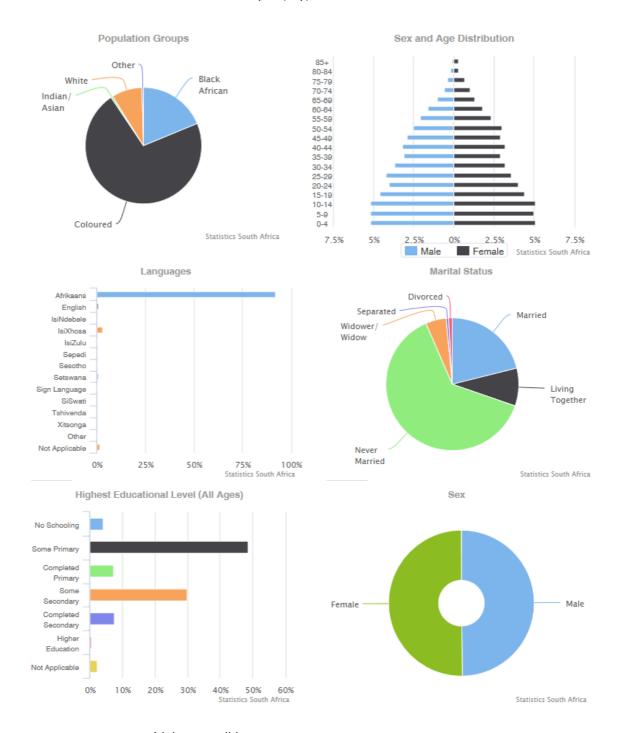
approximately 3% of the provincial area. The municipality is divided into 4 Wards.

Key Statistics	2011		
, statistics		Matric aged 20+	18%
Total population	21,591	Number of households	5,831
Young (0-14)	30,8%	Number of Agricultural	1,334
Working Age (15-64)	63,2%	households	
Elderly (65+)	6%	Average household size	3,6
Dependency ratio	58,2	Female headed	36,1%
Sex ratio	99,3	households	
Growth rate	1,57% (2001- 2011)	Formal dwellings	88,6%
		Housing owned/paying	54,3%
Population density	1 persons/km2	off	
Unemployment rate	24,3%	Flush toilet connected to sewerage	64,9%
Youth unemployment rate	30,2%	Weekly refuse removal	73,9%
No schooling aged 20+	11,5%	Piped water inside dwelling	43,1%
Higher education aged 20+	5,3%	Electricity for lighting	86,2%

### People:

The total population in the municipality is 21 591 people with Xhosa and Afrikaans being the dominant languages. The most dominant population group is coloured people; they represent 80% of the total population in the municipal area. The other groups are black African (12%) and white people (8%).

Afrikaans is the most widely spoken language (78%). There are an insignificant number of people who speak other languages. A total of 824 people indicated that IsiNdebele is their first language and 91 people speak Setswana.

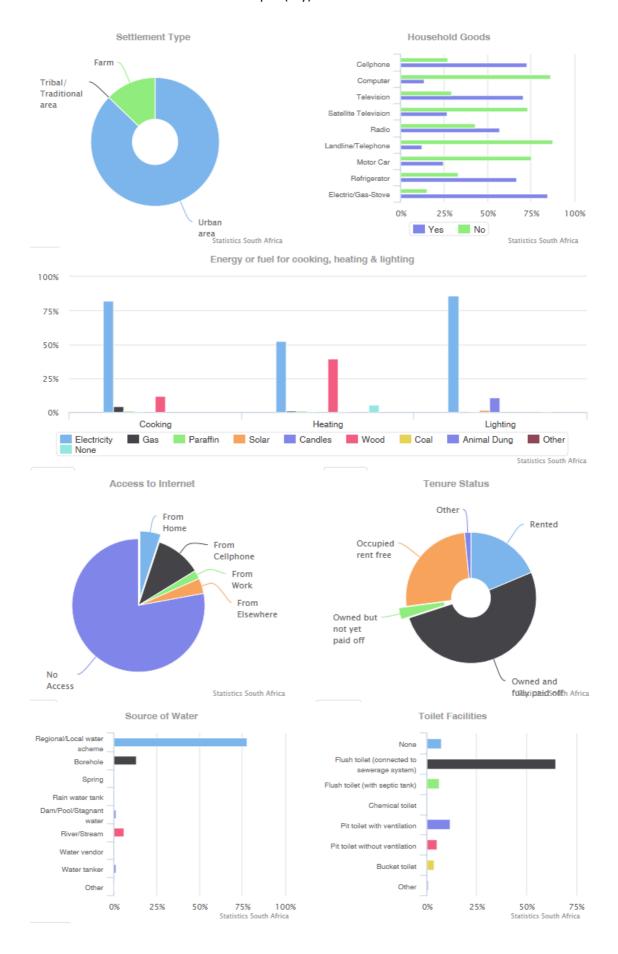


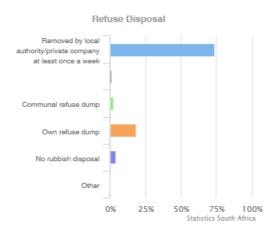
### Living conditions:

The educational profile in Siyathemba is that of 14% of the population had no schooling, while 34% had primary school education. Just 4% of the population has a degree or diploma.

According to the 2011 census results:

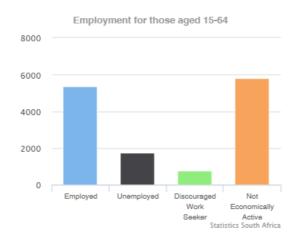
- 71.29% of people are using flush toilet.
- 74.88% access to refuse removal
- 97.46 % of people have access to piped water.

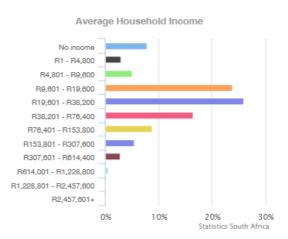




### **Economy:**

The whole of the Siyathemba area is rich in semiprecious stones. The famed 'tiger's eye' is one of many gems mined in the region. An opportunity exists for adding value to the raw material and shipping out processed products of high quality.





#### Soil:

The soils of most of the area in the Bushmanland Arid Grassland vegetation type are red-yellow apedal soils, freely drained, with a high base status and <300mm deep, with about one fifth of the area deeper than 300mm, typical of Ag and Ae land types.

### Surface water:

There are various small non-perennial drainage lines, which traverses the application area. There are also a number of small ephemeral pans within the application area. No prospecting is allowed to be conducted within 100m from the non-perennial drainage lines or within 500m from the ephemeral pans.

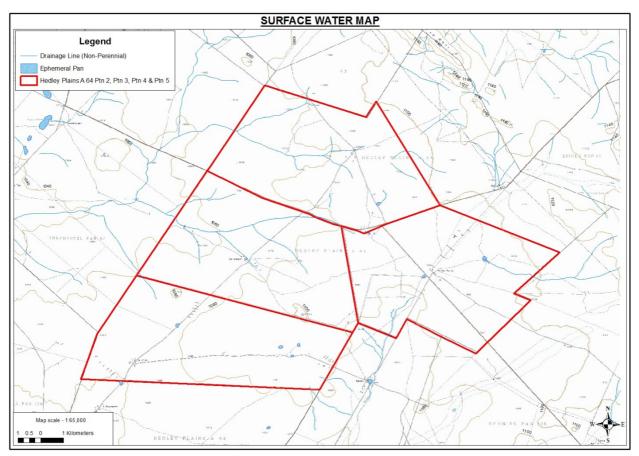


Figure 12 - Surface water map

### Topography:

The application area's altitude various between 1050m and 1120 meters above sea level.

The landscape features for the areas located within the Bushmanland Arid Grassland Vegetation type can be described as follows: Extensive to irregular plains on a slightly sloping plateau sparsely vegetated by grassland dominated by white grasses (*Stipagrostis* species) giving this vegetation type the character of semidesert 'steppe'. In places low shrubs of Salsola change the vegetation structure. In years of abundant rainfall rich displays of annual herbs can be expected.

### (b) Description of the current land uses.

The properties under application are currently utilized by the surface owners for livestock farming purposes.

### (c) Description of specific environmental features and infrastructure on the site.

#### Infrastructure:

- The on-site gravel (farm) roads are in a reasonable condition.
- The secondary gravel road accessing the farm is in a reasonable condition.
- There are residences on the farm.
- There are only a few windmills and relating agricultural infrastructure

#### Environmental:

There are various small non-perennial drainage lines, which traverses the application area. There are also a number of small ephemeral pans within the application area. No prospecting is allowed to be conducted within 100m from the non-perennial drainage lines or within 500m from the ephemeral pans.

### (d) Environmental and current land use map:

(Show all environmental and current land use features.)

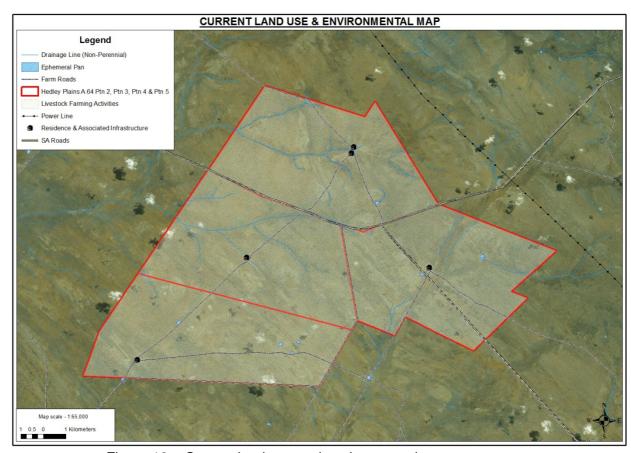


Figure 13 – Current land use and environmental map

### (v) Impacts identified:

(Provide a list of the potential impacts identified of the activities described in the initial site layout that will be undertaken, as informed by both the typical known impacts of such activities, and as informed by the consultations with affected parties together with the significance, probability and duration of the impacts.)

Prospecting activity	Impact on	Extent	Duration	Intensity	Probability	Significance (without mitigation)
	Air quality	Site	Short	Medium	Definite	Medium
	Fauna	Local	Long	Medium	Definite	Medium
	Flora	Local	Long	Medium	Definite	Medium
	Groundwater	Site	Short	Low	Improbable	Low
Access Tracks	Noise	Site	Short	Low	Definite	Low
	Soil	Local	Medium	Medium	Definite	Medium
	Surface water	Site	Short	Low	Improbable	Low
	Topography	N/A	N/A	N/A	N/A	N/A
	Visual	Site	Medium	Low	Definite	Low

Prospecting activity	Impact on	Extent	Duration	Intensity	Probability	Significance (without mitigation)	Significance (with mitigation)
	Air quality	N/A	N/A	N/A	N/A	N/A	N/A
	Fauna	N/A	N/A	N/A	N/A	N/A	N/A
	Flora	N/A	N/A	N/A	N/A	N/A	N/A
	Groundwater	Site	Short	Very Low	Improbable	Very Low	N/A
Chemical Toilets	Noise	N/A	N/A	N/A	N/A	N/A	N/A
	Soil	Site	Short	Very Low	Improbable	Very Low	N/A
	Surface water	N/A	N/A	N/A	N/A	N/A	N/A
	Topography	N/A	N/A	N/A	N/A	N/A	N/A
	Visual	N/A	N/A	N/A	N/A	N/A	N/A

Prospecting activity	Impact on	Extent	Duration	Intensity	Probability	Significance (without mitigation)
	Air quality	Site	Short	Medium	Definite	Medium
	Fauna	Local	Long	Medium	Definite	Medium
	Flora	Local	Long	Medium	Definite	Medium
	Groundwater	Site	Short	Low	Improbable	Low
Drilling activities	Noise	Site	Short	High	Definite	High
	Soil	Local	Long	Medium	Definite	Medium
	Surface water	Site	Short	Low	Improbable	Low
	Topography	N/A	N/A	N/A	N/A	N/A
	Visual	Site	Short	Low	Definite	Low

Prospecting activity	Impact on	Extent	Duration	Intensity	Probability	Significance (without mitigation)
	Air quality	Site	Short	Medium	Definite	Medium
	Fauna	Local	Long	Medium	Definite	Medium
	Flora	Local	Long	Medium	Definite	Medium
	Groundwater	Site	Short	Low	Improbable	Low
Trenches	Noise	Site	Short	High	Definite	High
	Soil	Local	Medium	Medium	Definite	Medium
	Surface water	Site	Short	Low	Improbable	Low
	Topography	Local	Medium	Medium	Probable	Medium
	Visual	Site	Medium	Low	Definite	Low

### (vi) Methodology used in determining the significance of environmental impacts:

(Describe how the significance, probability and duration of the aforesaid identified impacts that were identified through the consultation process were determined in order to decide the extent to which the initial site layout needs revision.)

The assessment of the impacts has been conducted according to a synthesis of criteria required by the integrated environmental management procedure.

### **Nature of impact**

This is an appraisal of the type of effect the activity would have on the affected environmental component. Its description should include what is being affected, and how.

#### **Extent**

The physical and spatial size of the impact. This is classified as follows:

#### Local

The impacted area extends only as far as the activity, e.g. a footprint.

### Site

The impact could affect the whole, or a measurable portion of the property.

### Regional

The impact could affect the area including the neighbouring farms, transport routes and the adjoining towns.

#### **Duration**

The lifetime of the impact which is measured in the context of the lifetime of the proposed phase (i.e. construction or operation).

#### Short term

The impact will either disappear with mitigation or will be mitigated through natural process in a short time period.

#### Medium term

The impact will last up to the end of the mining period, where after it will be entirely negated.

### Long term

The impact will continue or last for the entire operational life of the mine, but will be mitigated by direct human action or by natural processes thereafter.

### Permanent

The only class of impact, which will be non-transitory. Mitigation either by man or natural process will not occur in such a way or in such a time span that the impact can be considered transient.

### Intensity

This describes how destructive, or benign, the impact is. Does it destroy the impacted environment, alter its functioning, or slightly alter it. These are rated as:

#### Low

This alters the affected environment in such a way that the natural processes or functions are not affected.

#### Medium

The affected environment is altered, but function and process continue, albeit in a modified way.

### High

Function or process of the affected environment is disturbed to the extent where it temporarily or permanently ceases.

This will be a relative evaluation within the context of all the activities and the other impacts within the framework of the project.

### **Probability**

This describes the likelihood of the impacts actually occurring. The impact may occur for any length of time during the life cycle of the activity, and not at any given time. The classes are rated as follows:

### Improbable

The possibility of the impact occurring is very low, due either to the circumstances, design or experience.

#### Probable

There is a possibility that the impact will occur to the extent that provisions must be made therefore.

### Highly probable

It is most likely that the impacts will occur at some or other stage of the development.

### Definite

The impact will take place regardless of any preventative plans, and mitigation measures or contingency plans will have to be implemented to contain the impact.

### **Determination of significance**

Significance is determined through a synthesis of impact characteristics. Significance is an indication of the importance of the impact in terms of both physical extent and time scale, and therefore indicates the level of mitigation required. The classes are rated as follows:

### No significance

The impact is not likely to be substantial and does not require any mitigatory action.

#### • Low

The impact is of little importance, but may require limited mitigation.

#### Medium

The impact is of importance and therefore considered to have a negative impact. Mitigation is required to reduce the negative impacts to acceptable levels.

### • High

The impact is of great importance. Failure to mitigate, with the objective to reduce the impact to acceptable levels, could render the entire development option or entire project proposal unacceptable. Mitigation is therefore essential.

# (vii) The positive and negative impacts that the proposed activity (in terms of the initial site layout) and alternatives will have on the environment and the community that may be affected:

(Provide a discussion in terms of advantages and disadvantages of the initial site layout compared to alternative layout options to accommodate concerns raised by affected parties.)

Infrastructure: No offices and storerooms will be established at the site as Goldipro shall make use of facilities in the town of Copperton.

Invasive prospecting: The proposed locality of the boreholes and trenches was placed on a 400m x 400m grid in three centralized areas.

### Alternatives considered:-

Infrastructure: The only alternative considered was the establishment of offices and storerooms on the farm under application. As Goldipro aims to minimize its impact on the natural environment as much as possible this option was decided against.

Invasive prospecting: The optimal minimum amount of drilling and trenching has been decided upon with the aim to minimize its impact on the natural environment. Until such time that exploration results warrant a larger exploration programme with more invasive activities only the minimal amount of invasive activities have been decided upon.

### (viii) The possible mitigation measures that could be applied and the level of risk:

(With regard to the issues and concerns raised by affected parties provide a list of the issues raised and an assessment / discussion of the mitigations or site layout alternatives available to accommodate or address their concerns, together with an assessment of the impacts or risks associated with the mitigation or alternatives considered.)

Impact	Mitigation	Risk
Air quality	Speed limits;	Negative
	Spraying of disturbed surfaces with water;	Low
	<ul> <li>Avoidance of unnecessary removal of vegetation;</li> </ul>	
	Re-vegetation and monitoring of re-growth;	
	Rehabilitation of disturbed areas; and	
	Controlled drilling and trenching operations, preferably on wind-	

	free days.	
Fauna	Speed limits;	Negative
	<ul> <li>Continuous rehabilitation of disturbed areas;</li> </ul>	Low
	<ul> <li>Avoidance of unnecessary removal of vegetation (habitat);</li> </ul>	
	<ul> <li>Snares &amp; traps removed and destroyed; and</li> </ul>	
	Maintenance of firebreaks.	
Flora	Continuous rehabilitation of disturbed areas;	Negative
	<ul> <li>Avoidance of unnecessary removal of vegetation;</li> </ul>	Low
	Re-vegetation and monitoring of re-growth;	
	Maintenance of firebreaks;	
	<ul> <li>No trees felled for firewood;</li> </ul>	
	Obtain relevant permit before removal of protected tree or plant	
	species; and	
	Re-seeding where necessary.	
Ground	Immediate removal of any hydrocarbon spill;	Negative
water	<ul> <li>Maintenance in dedicated area over drip pans / PVC sheet;</li> </ul>	Very Low
	Re-fuelling in dedicated area;	
	Drip pans for all stationary vehicles;	
	<ul> <li>Storage of hydrocarbons in dedicated areas;</li> </ul>	
	Maintenance of chemical toilets; and	
	<ul> <li>Monitoring of groundwater quality.</li> </ul>	
Noise	Hearing protection;	Negative
	<ul> <li>Working hours;</li> </ul>	Medium
	<ul> <li>Controlled drilling and trenching operations;</li> </ul>	
	<ul> <li>Silencers on equipment and vehicles;</li> </ul>	
Soil	<ul> <li>Continuous rehabilitation of disturbed areas;</li> </ul>	Negative
	<ul> <li>Ripping of compacted areas;</li> </ul>	Low
	<ul> <li>Maintenance &amp; refuelling in dedicated areas;</li> </ul>	
	<ul> <li>Drip pans for stationary vehicles;</li> </ul>	
	<ul> <li>Storage of hydrocarbons in dedicated areas;</li> </ul>	
	<ul> <li>Immediate removal of any hydrocarbon spill;</li> </ul>	
	Maintenance of chemical toilets.	
Surface	Storm water control;	Negative
water	<ul> <li>Control and monitoring of erosion;</li> </ul>	Very Low
	<ul> <li>Immediate removal of any hydrocarbon spill;</li> </ul>	
	<ul> <li>Maintenance &amp; re-fuelling in dedicated areas;</li> </ul>	
	<ul> <li>Drip pans of all stationary vehicles; and</li> </ul>	
	Storage of hydrocarbons in dedicated areas.	
Topography	Continuous backfilling of trenches.	Negative
	Sloping of rehabilitated areas.	Low
Visual	<ul> <li>Sloping of rehabilitated and disturbed areas;</li> </ul>	Negative
	Removal of all prospecting equipment from the site after drilling	Very Low
	and trenching has been completed.	

### (ix) Motivation where no alternative sites were considered:

No offices and storerooms will be established at the site as Goldipro shall make use of facilities in the town of Copperton. The position of the boreholes and trenches is dependent on the results of the non-invasive activities.

### (x) Statement motivating the preferred site:

(Provide a statement motivating the final site layout that is proposed.)

The final site layout was decided upon after taking into consideration the following:

- Environmental features such as non-perennial drainage lines and ephemeral pans were taken into consideration.
- Surface owners' and legal occupant's comments and concerns were taken into consideration.
- No offices and storerooms will be established at the site as Goldipro shall make use of facilities in the town of Copperton.
- The final position of the boreholes and trenches is dependent on the results of the non-invasive activities.

# i) Full description of the process undertaken to identify, assess and rank the impacts and risks the activity will impose on the preferred site (in respect of the final site layout plan) through the life of the activity.

(Provide a statement motivating the final site layout that is proposed.)

The methodology for the predication and assessment of impacts has been in accordance with *DEA Guideline 5: Assessment of Alternatives and Impacts*. Potential impacts have been rated in terms of the direct, indirect and cumulative impacts.

Criteria taken into account:

- Spatial extent The size of the area that will be affected by the impact.
- Intensity –The anticipated severity of the impact.
- Duration –The timeframe during which the impact will be experienced.

Using the criteria above, the impacts have further been assessed in terms of the following:

- Probability –The probability of the impact occurring.
- Significance Will the impact cause a notable alteration of the environment?
- Status Whether the impact on the overall environment will be positive, negative or neutral.
- Confidence The degree of confidence in predictions based on available information and specialist knowledge.

(j) Measures to avoid, reverse, mitigate, or manage identified impacts and to determine the extent of the residual risks that need to be managed and monitored:

NAME OF	DOTENTIAL IMPACT	ACDECTO	DUACE	CICNIFICANOE	MITIC ATION TYPE	CICNIFICANOE
NAME OF ACTIVITY  (e.g. For prospecting – drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access rout etcetc  e.g. For mining – excavations, blasting, stockpiles, discard dumps or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etcetcetc)	POTENTIAL IMPACT (Including the potential impacts for cumulative impacts)  (e.g. dust, noise, drainage, surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etcetc)	ASPECTS AFFECTED	PHASE In which impact is anticipated.  (e.g. Construction, commissioning, operational, decommissioning, closure, post-closure)	SIGNIFICANCE If not mitigated	modify, remedy, control or stop through: (e.g. noise control measures, stormwater control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etcetc) (e.g. modify through alternative method. Control through noise control. Control through management and monitoring through rehabilitation.)	SIGNIFICANCE If mitigated
Access Tracks	<ul> <li>Nuisance dust will be created by the prospecting equipment traversing on the prospecting area.</li> <li>Where new access tracks will be created the natural habitat of the animals will</li> </ul>	Air quality Fauna Flora Groundwater Noise Soil Surface-	Commissioning Operational Decommissioning Closure	Low	<ul> <li>Dust control and monitoring</li> <li>Avoidance of unnecessary removal of vegetation</li> </ul>	Very Low

		be disturbed and/or	water				
		destroyed.	Visual				
	•	Potential road kills.				Speed limits	
	•	Where new access tracks				Avoidance of unnecessary	
		will be created the				removal of vegetation	
		vegetation will be disturbed				-	
		and/or destroyed.					
	•	Possible hydrocarbon spills				Maintenance of vehicles	
		from vehicles and				and immediately clean	
		equipment.				hydrocarbon spills.	
	•	Noise from prospecting				Speed limits and noise	
		equipment on the access				control and monitoring	
		tracks.					
	•	Compaction of soil is				Maintenance of access	
		expected on the access				tracks / roads	
		tracks that are used by the					
		prospecting operation.					
	•	Erosion after thunder				Stormwater run-off control	
		storms can occur.					
	•	Access tracks will be				Rip access tracks upon	
		visible to some extent from				rehabilitation to allow re-	
		the immediate				growth of vegetation cover	
		surroundings.					
Chemical toilets	•	Possible spills from	Groundwater	Commissioning	Very Low	Maintenance of toilets on	N/A
		chemical toilets could	Soil	Operational		regular basis.	
		contaminate the soil in the		Decommissioning		Removal of toilets upon	
		immediate surrounding		Closure		closure.	
		area					
	•	Possible spills from					
		chemical toilets could					

	contaminate the						
	groundwater						
Drilling activities	<ul> <li>Nuisance dust will be created by percussion drill rig and during site establishment of drilling sites.</li> </ul>	Air quality Fauna Flora Groundwater Noise	Commissioning Operational Decommissioning Closure	Medium	•	Controlled drilling operations, preferably on wind-free days with dust control and monitoring	Low
	<ul> <li>Where new drill sites will be created the natural habitat of the animals will be disturbed and/or destroyed.</li> </ul>	Soil Surface- water Visual			•	Avoidance of unnecessary removal of vegetation	
	<ul> <li>Potential road kills.</li> </ul>				•	Speed limits.	
	Where new drill sites will				•	Avoidance of unnecessary removal of vegetation and	
	be created the vegetation					continuous rehabilitation of	
	will be disturbed and/or					disturbed areas, re-	
	destroyed.					vegetation and monitoring	
	dodiroyod.					of re-growth	
	<ul> <li>Possible hydrocarbon spills</li> </ul>				•	Immediate removal of any	
	from drill rig could cause					hydrocarbon spill; drip	
	groundwater contamination					pans and maintenance and re-fuelling to take place in	
	groundwater contamination					dedicated area	
	Noise from drill rig				•	Hearing protection and	
	1 Noise from anii ng					working hours	
	Compaction and / or				•	Ripping of compacted	
	disturbance of soil					areas during rehabilitation.	
	structure.					luana a Rata nana anal a C	
					•	Immediate removal of any	
	Possible hydrocarbon spills     from drill rig sould source					hydrocarbon spill; drip pans and maintenance and	
	from drill rig could cause soil contamination in the					re-fuelling to take place in	
	Son contamination in the					dedicated area	

<ul> <li>immediately surrounding area.</li> <li>Changing of natural aesthetic view of environment by drill rigs.</li> </ul>				Continuous rehabilitation by ripping of compacted areas.	
<ul> <li>Nuisance dust will be created by the prospecting equipment during trenching activities.</li> <li>Where new trenches will be created the natural habitat of the animals will be disturbed and/or destroyed.</li> <li>Potential road kills.</li> <li>Where new trenches will be created the vegetation will be disturbed and/or destroyed.</li> <li>Possible hydrocarbon spills from prospecting vehicles and equipment at the trench sites could contaminate groundwater.</li> <li>Noise from the equipment and vehicles during trenching activities.</li> <li>Removal and disturbance of soil structure by trenching activities.</li> </ul>	Groundwater Noise Soil Surface- water Topography Visual	Commissioning Operational Decommissioning Closure	Medium	<ul> <li>Controlled trenching operations, preferably on wind-free days with dust control and monitoring</li> <li>Avoidance of unnecessary removal of vegetation and continuous rehabilitation of disturbed areas, revegetation and monitoring of re-growth</li> <li>Speed limits.</li> <li>Avoidance of unnecessary removal of vegetation and continuous rehabilitation of disturbed areas, revegetation and monitoring of re-growth</li> <li>Immediate removal of any hydrocarbon spill; drip pans and maintenance and re-fuelling to take place in dedicated area</li> <li>Hearing protection and working hours</li> <li>Continuous backfilling of trenches.</li> </ul>	Low

Possible hydrocarbon spills from vehicles and equipment in around open trenches could contaminate the soil in the immediately surrounding	•	Immediate removal of any hydrocarbon spill; drip pans and maintenance and re-fuelling to take place in dedicated area	
<ul> <li>area.</li> <li>Collection of water in open trenches during and after thunderstorms.</li> </ul>	•	Stormwater run-off control	
Changing of natural slopes due to the trenching activities.	•	Continuous backfilling of trenches.	
Changing of natural aesthetic view of the environment will take place.	•	Continuous backfilling of trenches and levelling and sloping of rehabilitated areas.	

### (k) Summary of specialist reports.

(This summary must be completed if any specialist reports informed the impact assessment and final site layout process and must be in the following tabular form):-

LIST OF STUDIES UNDERTAKEN	RECOMMENDATIONS OF SPECIALIST REPORTS	SPECIALIST RECOMMENDATIONS THAT HAVE BEEN INCLUDED IN THE EIA REPORT (mark with an X where applicable)	REFERENCE TO APPLICABLE SECTION OF REPORT WHERE SPECIALIST RECOMMENDATIONS HAVE BEEN INCLUDED	
NOT APPLICABLE  No specialist studies were undertaken.	NOT APPLICABLE  No specialist studies were undertaken.	NOT APPLICABLE  No specialist studies were undertaken.	NOT APPLICABLE No specialist studies were undertaken.	

Attach copies of Specialist Reports as appendices.

### (I) Environmental impact statement

### (i) Summary of the key findings of the environmental impact assessment;

- The creation of the access tracks is expected to have a very low impact should the proposed mitigation measures be implemented.
- The chemical toilets are not expected to have an environmental impact should the mitigation measures be implemented.
- The drilling activities are expected to have a low impact should the proposed mitigation measures be implemented.
- The trenching activities are expected to have a low impact should the proposed mitigation measures be implemented.

### (ii) Final Site Map

Provide a map at an appropriate scale which superimposes the proposed overall activity and its associated structures and infrastructure on the environmental sensitivities of the preferred site indicating any areas that should be avoided, including buffers. Attach as Appendix.

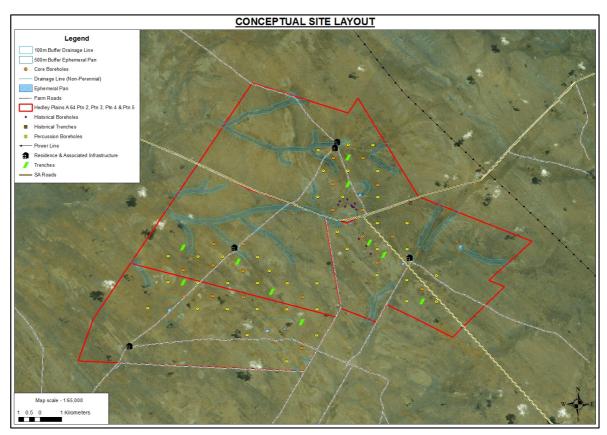


Figure 14 – Site layout with buffer zones

### (iii) Summary of the positive and negative impacts and risks of the proposed activity and identified alternatives;

Infrastructure: No offices and storerooms will be established at the site as Goldipro shall make use of facilities in the town of Copperton.

Invasive prospecting: The proposed locality of the boreholes and trenches was placed on a 400m x 400m grid in three centralized areas.

### Alternatives considered:-

Infrastructure: The only alternative considered was the establishment of offices and storerooms on the farm under application. As Goldipro aims to minimize its impact on the natural environment as much as possible this option was decided against.

Invasive prospecting: The optimal minimum amount of drilling and trenching has been decided upon with the aim to minimize its impact on the natural environment. Until such time that exploration results warrant a larger exploration programme with more invasive activities only the minimal amount of invasive activities have been decided upon.

### (m)Proposed impact management objectives and the impact management outcomes for inclusion in the EMPr:

Based on the assessment and where applicable the recommendations from specialist reports, the recording of proposed impact management objectives, and the impact management outcomes for the development for inclusion in the EMPr as well as for inclusion as conditions of authorisation.

#### Air quality:

To limit the creation of nuisance dust the following management guidelines should be followed:

- Speed limits of vehicles inside the application area will be strictly controlled to avoid excessive dust or the excessive deterioration of the farm roads and access tracks to be used.
- Routine spraying of disturbed site areas and access tracks utilized by the prospecting operation with water;
- Avoidance of unnecessary removal of vegetation;
- All cleared, disturbed or exposed areas must be rehabilitated as soon as practically possible to prevent the forming of additional sources of dust.
- o Monitoring of vegetation re-growth in rehabilitated areas.
- Drilling activities preferably to take place on wind-free days.

### • Fauna

To ensure a minimum of impact to animals the following management guidelines should be followed:

 Speed limits of vehicles inside the application area will be strictly controlled to avoid road kills.

- Continuous rehabilitation of disturbed areas to allow the fauna habitat to be re-established.
- No hunting (snares) will be allowed at the application area.
- o Maintenance of the firebreak.

#### Flora

- Continuous rehabilitation of disturbed areas to allow the natural vegetation cover to be re-established.
- Avoidance of unnecessary removal of vegetation cover.
- o Monitoring of vegetation re-growth in rehabilitated areas.
- Maintenance of firebreak.
- No trees or shrubs will be felled or damaged for the purpose of obtaining firewood.
- Management will take responsibility to control declared invader or exotic species on the site. The following control methods will be used:
  - "The plants will be uprooted, felled or cut off and can be destroyed completely."
  - "The plants will be treated with an herbicide that is registered for use in connection therewith and in accordance with the directions for the use of such an herbicide."
- Valid permits from Northern Cape Nature Conservation will be obtained before any protected plant species are removed.
- All rehabilitated areas, where applicable and possible, will be seeded with a vegetation seed mix adapted to reflect the local indigenous flora that was present prior to prospecting activities commenced, if the natural succession of vegetation is unacceptably slow.
- Fires will only be allowed in facilities or equipment specially constructed for this purpose.
- The end objective of the re-vegetation program will be to achieve a stable self-sustaining habitat unit.

#### Groundwater

- o Immediate removal of any hydrocarbon spill.
- Vehicle- and equipment maintenance will only be allowed within the dedicated maintenance area.
- Only emergency breakdowns will be allowed in other areas. The following procedure will be followed if a vehicle or piece of equipment would break down outside of the maintenance area.
  - Drip pans will be placed at all points where diesel, oil or hydraulic fluid may drip and in so doing contaminate the soil.
  - All efforts will be made to move the broken down vehicle or piece of equipment to the maintenance area.
  - If the vehicle/piece of equipment cannot be moved, the broken part will firstly be drained of all fluid. The part will then be removed and taken to the maintenance area.

- Equipment used as part of the proposed operation will be adequately maintained so as to ensure that oil, diesel, grease or hydraulic fluid does not leak during operation.
- Fuel and other petrochemicals will be stored in steel receptacles that comply with SANS 10089-1:2003 (SABS 089-1:2003) standards.
- Monitoring of groundwater quality.
- Proper sanitation facilities will be provided for employees and these facilities must be maintained. No person will pollute the workings with faeces or urine, misuse the facilities provided or inappropriately foul the surrounding environment with faeces or urine. Acceptable hygienic and aesthetic practices will be adhered to.

### Noise

- Hearing protection will be available for all employees where attenuation cannot be implemented.
- o Working hours will be kept between sunrise and sunset as far as possible.
- As a minimum, ambient noise levels emanating from the prospecting activities will not exceed 82 dBA at the site boundary. When the equivalent noise exposure, as defined in the South African Bureau of Standards Code of Practice for the Measurement and Assessment of Occupational Noise for Hearing Conservation Purposes, SABS 083 as amended, in any place at or in any mine or works where persons may travel or work, exceeds 82 dB (A), the site manager will take the necessary steps to reduce the noise below this level.
- Goldipro will comply with the occupational noise Regulations of the Occupational Health and Safety Act, Act 85 of 1993.
- Goldipro will comply with the measures for good practice with regard to management of noise related impacts during construction and operation.
- The management objective will be to reduce any level of noise, shock and lighting that may have an effect on persons or animals, both inside the drilling- and trench areas and that which may migrate outside the drillingand trench areas.
- If any complaints are received from the public or state department regarding noise levels the levels will be monitored at prescribed monitoring points.

### Mechanical equipment:

- All mechanical equipment will be in good working order and vehicles will adhere to the relevant noise requirements of the Road Traffic Act.
- All vehicles in operation will be equipped with a silencer on their exhaust system.
- Safety measures, which generate noise such as reverse gear alarms on large vehicles, will be appropriately calibrated/adjusted.

### Soil

o In all places of development the first 300mm of loose or weathered material found will be classified as a growth medium. The topsoil will be

- removed, where possible, from all areas where physical disturbance of the surface will occur.
- In all areas where the above growth medium will be impacted on, it will be removed and stockpiled on a dedicated area. The maximum height of stockpiles will be 2 meters.
- The growth medium/topsoil will be used during the rehabilitation of any impacted areas, after sloping in order to re-establish the same land capability.
- If any soil is contaminated during the life of the prospecting area, it will either be treated on site or be removed together with the contaminant and placed in acceptable containers to be removed with the industrial waste to a recognized facility or company.
- Erosion control in the form of re-vegetation and contouring of slopes will be implemented on disturbed areas in and around the site.
- The stored topsoil will be adequately protected from being blown away or being eroded.
- Compacted areas will be ripped to a depth of 300mm, where possible, during the continuous rehabilitation, decommissioning and closure phases of the operation in order to establish a growth medium for vegetation.
- Vehicle movement will be confined to established roads and access tracks for as far as practical in order to prevent the compaction of soils.

### Surface water

- The disposal of oil, grease and related industrial waste will be transported to the stores area in Copperton on a daily basis where it will be stored in steel containers supplied by an oil recycling contractor. All oil and grease will be removed on a regular basis from the operation by a registered approved contractor.
- All refuse and waste from the different sections will be handled according to NEMA Guidelines. Recycling of waste is encouraged in all the consumer sections of the operation, where recyclable materials will be collected before dumping them in the domestic waste disposal area.
- All non-biodegradable (recyclable) refuse such as glass bottles, plastic bags and metal scrap will be removed from the site on a regular basis and disposed of at a recognized disposal facility.
- Erosion and storm water control measures will be implemented.
- Vehicle repairs will only take place within the maintenance area for vehicles
- Re-fuelling will only take place in the re-fuelling area. If this is found not be practical, drip trays will be used whenever re-fuelling takes place outside of this area.
- During rehabilitation the applicant will endeavour to reconstruct flow patterns in such a way that surface water flow is in accordance with the natural drainage of the area as far as practically possible.

### Topography

 During rehabilitation the applicant will endeavour to reconstruct flow patterns in such a way that surface water flow is in accordance with the natural drainage of the area as far as practically possible.

#### Visual

- Waste material of any description will be removed from the prospecting area upon completion of the operation and be disposed of at a recognized landfill facility.
- The drill rigs and equipment will be removed from the site upon completion of the prospecting operation.

### (n) Aspects for inclusion as conditions of Authorisation.

Any aspects which must be made conditions of the Environmental Authorisation.

The general conditions; including management of activity, monitoring, recording and reporting to the Department, commissioning of the activity, operation of the activity, site closure and decommissioning as well as non-compliances; as required in terms of the Environmental Impact Assessment Regulations promulgated in terms of NEMA (Act 107 of 1998) as well as objectives and requirements of relevant legislation, policies and guidelines must be included in the Authorisation.

### (o) Descriptions of any assumptions, uncertainties and gaps in knowledge.

(Which relate to the assessment and mitigation measures proposed.)

The abovementioned mitigatory measures are tried and tested over many years in the prospecting / mining industry. Goldipro will monitor the potential impacts throughout the life of operation, and mitigate any deviations detected. This has been proven to be very effective in existing operations.

The EAP who compiled this document and its annexures have extensive knowledge in her field and it is hereby assumed that the above assumptions are adequate and that the information provided is in the region of 85% - 95% correct.

### (p) Reasoned opinion as to whether the proposed activity should or should not be authorised

### i) Reasons why the activity should be authorized or not.

Five measures of economic impacts can be used to demonstrate the potential effect of the proposed prospecting operation on the local economy:

- Employment The extent of employment can be measured as number of jobs or in terms of full time equivalents.
- Payroll income The gross remuneration of employees in terms of salaries and wages.

- Capital Expenditure (CAPEX) The total amount spent on the purchasing of fixed assets and total spent on construction.
- Operating expenditure and maintenance (OPEX) The total amount spent locally by businesses on goods and services, excluding salaries and wages as well as rents or interest.
- Revenue The total value of sales arising from business activity at the prospecting operation.

It is recommended that the activity should be authorized for the above reasons.

### ii) Conditions that must be included in the authorisation

The general conditions; including management of activity, monitoring, recording and reporting to the Department, commissioning of the activity, operation of the activity, site closure and decommissioning as well as non-compliances; as required in terms of the Environmental Impact Assessment Regulations promulgated in terms of NEMA (Act 107 of 1998) as well as objectives and requirements of relevant legislation, policies and guidelines must be included in the Authorisation.

### (q) Period for which the Environmental Authorisation is required.

Five years

#### (r) Undertaking

Confirm that the undertaking required to meet the requirements of this section is provided at the end of the EMPr and is applicable to both the Basic Assessment Report and the Environmental Management Programme Report.

Goldipro's undertaking to meet the requirements of the Basic Assessment Report and Environmental Management Programme Report is attached at the end of the EMPr and is applicable to both documents.

### (s) Financial Provision

State the amount that is required to both manage and rehabilitate the environment in respect of rehabilitation.

R160 163.66

### (i) Explain how the aforesaid amount was derived.

An escalation at inflation cost per annum of the DMR Quantum Guideline master rate was calculated from 2004-2017 according to the Consumer Price Index as published on Stats SA.  $(2005-3.0;\ 2006-4.0;\ 2007-6.0;\ 2008-9.3;\ 2009-8.1;\ 2010-6.2;\ 2011-3.7;\ 2012-6.3;\ 2013-5.4;\ 2014-5.8;\ 2015-4.4;\ 2016-6.2;\ 2017-6.6)$ 

No	Description	Quantity
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	
	Not applicable – There will be no processing plant.	0
2(A)	Demolition of steel buildings and structures	
	Not applicable – There will be no steel buildings and structures on the site.	0
2(B)	Demolition of reinforced concrete buildings and structures	
	Not applicable – There will be no reinforced concrete buildings or structures on the site.	0
3	Rehabilitation of access roads	
	The operation shall utilize existing farm roads as far as possible.	
	Provision is made for 500m access tracks x 3m wide.	1 500m²
4(A)	Demolition and rehabilitation of electrified railway lines	
	There are no electrified railway lines on the site.	0
4(B)	Demolition and rehabilitation of non-electrified railway lines	
	There are no non-electrified railway lines on the site.	0
5	Demolition of housing and/or administration facilities	
	Not applicable – There will be no housing and/or administration on the site.	0
6	Opencast rehabilitation including final voids and ramps	
	10 Trenches: 15m (length) x 1m (wide) x 2m (deep) = 150m <sup>2</sup>	0.015 Ha
7	Sealing of shafts adits and inclines	
	There will be no shafts, adits or inclines on the site.	0
8(A)	Rehabilitation of overburden and spoils	
	Not applicable – There will be no bulk sampling activities	0
8(B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	
	Not applicable – There will be no processing waste deposits and evaporation ponds on the site.	0
8(C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	
	Not applicable – There will be no processing waste deposits and evaporation ponds on the site.	0

9	Rehabilitation of subsided areas	
	There are no subsided areas on the mine	0
10	General surface rehabilitation	
	- Boreholes (40 percussion boreholes: 10m x 10m disturbance each)	0.40 Ha
	- Boreholes (20 core boreholes: 10m x 10m disturbance each)	<u>0.20 Ha</u> <u>0.60 Ha</u>
11	River diversions	
	There are no rivers on the site.	0
12	Fencing	
	There will be no fences established on the site.	0
13	Water management	
	There are no areas where water management is necessary	0
14	2 to 3 years maintenance and aftercare	
	Not applicable – Due to the small size of the operation no aftercare and maintenance is proposed.	0
15 (A)	Specialist study	
& 15(B)	Al specialist studies have been conducted and paid	0

#### **CALCULATION OF THE QUANTUM**

Applicant: Goldipro (Pty) Ltd Ref No: NC 11972 PR
Date: June 2017

			Α	В	С	D	E=A*B*C*D
No.	Description	Unit	Quantity	Master	Multiplication	Weighting	Amount
	·			Rate	factor	factor 1	(Rands)
1	Dismantling of processing plant and related structures (including overland conveyors and pow erlines)	m3	0.00	14.12	1	1	0.00
2 (A)	Demolition of steel buildings and structures		0.00	196.65	1	1	0.00
2(B)	Demolition of reinforced concrete buildings and structures	m2	0.00	289.80	1	1	0.00
3	Rehabilitation of access roads	m2	1 500.00	35.19	1	1	52 784.63
4 (A)	Demolition and rehabilitation of electrified railw ay lines	m	0.00	341.55	1	1	0.00
4 (A)	Demolition and rehabilitation of non-electrified railw ay lines	m	0.00	186.30	1	1	0.00
5	Demolition of housing and/or administration facilities	m2	0.00	393.30	1	1	0.00
6	Opencast rehabilitation including final voids and ramps	ha	0.015	200 167.61	1	1	3 002.51
7	Sealing of shafts adits and inclines	m3	0.00	105.57	1	1	0.00
8 (A)	Rehabilitation of overburden and spoils	ha	0.000	133 307.07	1	1	0.00
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0.00	171 187.81	1	1	0.00
8 ( C )	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0.00	497 210.54	1	1	0.00
9	Rehabilitation of subsided areas	ha	0.00	115 091.20	1	1	0.00
10	General surface rehabilitation	ha	0.60	108 881.24	1	1	65 328.75
11	River diversions	ha	0.00	108 881.24	1	1	0.00
12	Fencing	m	0.00	124.20	1	1	0.00
13	Water management	ha	0.00	41 399.71	1	1	0.00
14	2 to 3 years of maintenance and aftercare	ha	0.00	14 489.90	1	1	0.00
15 (A)	Specialist study	Sum	0.00			1	0.00
15 (B)	Specialist study	Sum	0.00			1	0.00
					Total of 1 - 1	5 above	121 115.89

weighting factor 2	
1	

Subtotal 1

1	Preliminary and General	7 266.95	7 266.95
2	Contingencies	12 111.59	12 111.59
		Subtotal 2	140 494.43

VAT (14%)	19 669.22
VAI (1470)	19 009.22
Grand Total	160 163.66

121 115.89

### (ii) Confirm that this amount can be provided for from operating expenditure.

(Confirm that the amount, is anticipated to be an operating cost and is provided for as such in the Mining Work Programme, Financial and Technical Competence Report or Prospecting Work Programme as the case may be.)

Provision has been made in table 9.1 of the Prospecting Work Programme for rehabilitation.

### (t) Specific information required by the competent Authority Compliance with the provisions of Sections 24(4)(a) and (b) read with Section 24(3)(a) and (7) of the National Environmental Management Act (Act 107 of 1998). The EIA report must include the:-

### (1) Impact on the socio-economic conditions of any directly affected parson.

(Provide the results of investigation, assessment, and evaluation of the impact of the mining, bulk sampling or alluvial diamond prospecting on any directly affected person including the landowner, lawful occupier, or, where applicable, potential beneficiaries of any land restitution claim, attach the investigation report as an Appendix.)

### Impact on landowner:

Positive: Compensation of land lost to prospecting.

Negative: Temporary loss of grazing land in areas where invasive prospecting activities will take place.

### Impact on other I&AP:

- Employment The extent of employment can be measured as number of jobs or in terms of full time equivalents.
- Payroll income The gross remuneration of employees in terms of salaries and wages.
- Capital Expenditure (CAPEX) The total amount spent on the purchasing of fixed assets and total spent on construction.
- Operating expenditure and maintenance (OPEX) The total amount spent locally by businesses on goods and services, excluding salaries and wages as well as rents or interest.
- Revenue The total value of sales arising from business activity at the prospecting operation.

### (2) Impact on any national estate referred to in Section 3(2) of the National Heritage Resources Act.

There is no known heritage environment within the application area.

A no prospecting buffer zone of 100m shall be placed around any of the below heritage environments, should they be found within the application area.

- Burial grounds and grave sites
- Archaeological sites
- Buildings and structures older than 60 years and walling sites

### (u) Other matters required in terms of Sections 24(4)(a) and (b) of the Act.

(The EAP managing the application must provide the competent authority with detailed, written proof of an investigation as required by Section 24(4)(b)(i) of the Act and motivation if no reasonable or feasible alternatives, as contemplated in sub-regulation 22(2)(h), exist. The EAP must attach such motivation as Appendix.)

No viable alternatives were found. Find attached motivation as Appendix '8'.

### PART B ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

### a) Details of the EAP

(Confirm that the requirement for the provision of the details and expertise of the EAP are already included in PART A, Section 1(a) herein as required.)

Refer to Part A, page 4 of this document for the details of M and S Consulting (Pty) Ltd.

### b) Description of the Aspects of the Activity

(Confirm that the requirement to describe the aspects of the activity that are covered by the draft environmental management programme is already included in Part A, Section (1)(h) herein as required.)

Goldipro's prospecting activities for Copper, Zinc, Lead, Gold, Silver, Cobalt, Sulphur, Barytes, Pyrite, Molybdenum, Chrome, Platinum Group Metals, Nickel, Tungsten, Limestone, Stone Aggregate and Sand are planned to be conducted in phases over a period of five years.

Phase	Activity	Skill(s) required	Timeframe	Outcome	outcome	
	(what are the activities that are planned to achieve optimal prospecting)	(refers to the competent personnel that will be employed to achieve the required results)	(in months) for the activity)	(What is the expected deliverable, e.g. Geological report, analytical results, feasibility study, etc.)	(deadline for the expected outcome to be delivered)	engineer, surveyor, economist, etc)
1	Non-invasive Prospecting Review of historical activities	Geologist	Month 1 – 6	Maps, Plan & Report	Month 7	Geologist
2	Non-invasive Prospecting Geological Mapping	Geologist	Month 7 - 12	Map & Report	Month 13	Geologist
3	Non-invasive Prospecting Geophysical Survey	Geophysicist	Month 13 - 18	Map & Report	Month 19	Geologist
4	Invasive Prospecting Percussion drilling	Geologist & Drilling contractor	Month 19 - 24	Drill logs	Month 24	Geologist
5	Non-invasive Prospecting Analysis of drill samples	Laboratory	Month 25 - 30	Laboratory report     Map & Report	Month 31	Laboratory & Geologist
6	Invasive Prospecting Core drilling	Geologist & Drilling contractor	Month 31 - 36	Drill logs	Month 36	Geologist
7	Non-invasive Prospecting Analysis of drill samples	Laboratory	Month 37 - 42	Laboratory report     Map & Report	Month 43	Laboratory & Geologist
8	Invasive Prospecting Trenching	Geologist & Drilling contractor	Month 43 - 48	Drill logs	Month 48	Geologist
9	Non-invasive Prospecting Analysis of trench samples	Laboratory	Month 49 - 54	Laboratory report     Map & report	Month 54	Laboratory & Geologist
10	Non-Invasive Prospecting Feasibility study	Geologist	Month 55 - 60	Resource Calculations to evaluate economic viability of the project	Month 60	Geologist & CEO

### c) Composite Map

(Provide a map (Attached as an Appendix) at an appropriate scale which superimposes the proposed activity, its associated structures, and infrastructure on the environmental sensitivities on the preferred site, indicating any areas that should be avoided, including buffers.)

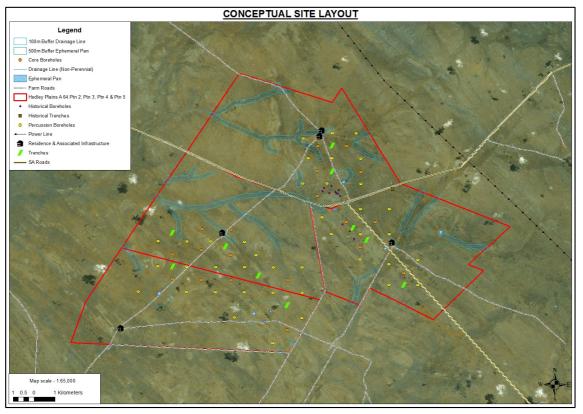


Figure 15 – Conceptual site layout (See Appendix '4')

### d) Description of Impact Management Objectives including management statements

### (i) Determination of closure objectives

(Ensure that the closure objectives are informed by the type of environment described.)

- The main closure objective of Goldipro's planned prospecting operation is to restore the site to its current land capability in a sustainable matter.
- To prevent the sterilization of any ore reserves.
- o To prevent the establishment of any permanent structures or features.
- To manage and limit any impact to the surface and groundwater aquifers in such a way that an acceptable water quality and yield can still be obtained, when a closure certificate is issued.
- To establish a stable and self sustainable vegetation cover.
- To limit and rehabilitate any erosion features and prevent any permanent impact to the soil capability.
- To limit and manage the visual impact of the prospecting activities.
- o To safeguard the safety and health of humans and animals on the site.
- To close the prospecting operation efficiently, cost effectively and in accordance with Government Policy.

### (ii) Volumes and rate of water use required for the operation.

There will only be two water uses at the site, being:

- Domestic use (drinking water)
  - The drilling team, consisting of five people, will be on the site during Phases 4 and 6 of the prospecting operation.
  - The trenching team, consisting of five people, will be on the site during Phase 8 of the prospecting operation.

Provision for 50 liters of water per day on site is made for drinking water.

Water use to keep the core bit of the drilling rig cool
 Water for the core drill rig will be needed during Phase 6 of the prospecting operation. Goldipro plans to drill a total of twenty core boreholes at one hundred meters deep each. Provision is made for 5 000 – 8 000 liters of water per day for the drill rig.

### (iii) Has a water use license been applied for?

The Acting Director-General of Water and Sanitation has, in terms of Section 39 of the National Water Act, published the revised General Authorisation (GNR 538 of 02 September 2016) pertaining to the taking and storing of water, water uses in terms of Section 21(a) and 21(b) of the National Water Act respectively.

The General Authorisation came into effect on 1 March 2017 and replaced the General Authorisation for the taking and storing of water contained in GNR399 of 26 March 2004.

In terms of clause 7.2 of the Schedule to the 2017 General Authorisations, registration of a water use is only required if more than 10m³ of water is taken from a groundwater resource per day on average over a year on a property.

As stated in paragraph d(ii) above, Goldipro's water use shall not exceed 10 000 litres (10m³) per day.

Accordingly, Goldipro is not required to apply for a water use license or register its water use after 3 March 2017 with the responsible authority by virtue of clause 7 of the 2017 General Authorisations.

# (iv) Impacts to be mitigated in their respective phases Measures to rehabilitate the environment affected by the undertaking of any listed activity.

ACTIVITY  (e.g. For prospecting — drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access rout etcetc  e.g. For mining — excavations, blasting, stockpiles, discard dumps or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etcetc)	PHASE Of operation in which activity will take place State: Planning and design, preconstruction, construction, operational, rehabilitation, closure, post-closure	SIZE AND SCALE of disturbances Volumes, tonnages and hectares or m²)	MITIGATION MEASURES (describe how each of the recommendations herein will remedy the cause of pollution or degradation and migration of pollutants.)	COMPLIANCE WITH STANDARDS  (A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)	TIME PERIOD FOR IMPLEMENTATION  Describe the time period when the measures in the environmental management programme must be implemented. Measures must be implemented when required.  With regard to rehabilitation specifically this must take place at the earliest opportunity. With regard to rehabilitation, therefore state either:  - Upon cessation of the individual activity, or  - Upon cessation of the mining, bulk sampling or alluvial diamond prospecting as the case may be.
Access Tracks	Commissioning Operational Decommissioning Closure	1 500m²	<ul> <li>Dust control and monitoring.</li> <li>Avoidance of unnecessary removal of vegetation.</li> <li>Speed limits</li> <li>Maintenance of vehicles and immediately clean hydrocarbon spills.</li> </ul>	The following must be placed at the site and is applicable to all activities:  O Relevant Legislation; O Acts; O Regulations; O COP's; and	Ripping of access tracks upon closure of prospecting right.

Chemical toilets	Commissioning Operational Decommissioning Closure	6m² each	<ul> <li>Maintenance of access tracks / roads.</li> <li>Stormwater run-off control.</li> <li>Groundwater quality monitoring</li> <li>Noise control and monitoring.</li> <li>Maintenance of the toilets.</li> </ul>	<ul> <li>SOP's         Management and staff         must be trained to         understand the         contents of these         documents, and to         adhere to thereto.     </li> <li>Environmental         Awareness Training         must be provided to         employees.     </li> <li>The operation must</li> </ul>	Removal of toilets upon closure of prospecting right.
Drilling activities (Percussion and core)	Commissioning Operational Decommissioning Closure	6 000m²	<ul> <li>Avoidance of unnecessary removal of vegetation.</li> <li>Continuous rehabilitation of disturbed areas, revegetation and monitoring of re-growth</li> <li>Controlled drilling operations, preferably on wind-free days</li> <li>Immediate removal of any hydrocarbon spills</li> <li>Maintenance and refuelling to take place in dedicated area</li> <li>Drip pans</li> <li>Storage of hydrocarbons in dedicated area</li> <li>Hearing protection</li> <li>Working hours kept</li> </ul>	have a rehabilitation and closure plan.  Management and staff must be trained to understand the contents of these documents, and to adhere to thereto.  Annual Performance Assessment Reports and Quantum Calculations must be done to ensure that the operation adheres to the contents of the BAR & EMPr documents.	Ripping of disturbed areas upon closure of prospecting right.

Trenching activities	Commissioning Operational	150m²	between sun-up and sun-down     Avoidance of unnecessary removal of vegetation.	Continuous backfilling of trenches and
	Decommissioning Closure		<ul> <li>Vegetation.</li> <li>Continuous rehabilitation of disturbed areas, revegetation and monitoring of re-growth</li> <li>Controlled trenching operations, preferably on wind-free days</li> <li>Immediate removal of any hydrocarbon spills</li> <li>Maintenance and refuelling to take place in dedicated area</li> <li>Drip pans</li> <li>Storage of hydrocarbons in dedicated area</li> <li>Hearing protection</li> <li>Working hours kept between sun-up and sun-down</li> <li>Stormwater run-off control</li> </ul>	levelling and sloping of trenches during rehabilitation.

### e) Impact Management Outcomes

(A description of impact management outcomes, identifying the standard of impact management required for the aspects contemplated in paragraph.)

ACTIVITY	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(whether listed or not listed)  (e.g. excavations, blasting, stockpiles, discard dumps or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etcetc)	(Including the potential impacts for cumulative impacts)  (e.g. dust, noise, drainage, surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etcetc)	AFFECTED	In which impact is anticipated.  (e.g. Construction, commissioning, operational, decommissioning, closure, post-closure)	modify, remedy, control or stop through: (e.g. noise control measures, stormwater control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etcetc) (e.g. modify through alternative method. Control through noise control. Control through management and monitoring through rehabilitation.)	ACHIEVED (Impact avoided, noise levels, dust levels, rehabilitation standards, end use objectives etc.)
Access tracks	<ul> <li>Nuisance dust will be created by the prospecting equipment traversing on the prospecting area.</li> <li>Where new access tracks will be created the natural habitat of the animals will be disturbed and/or destroyed.</li> <li>Potential road kills.</li> <li>Where new access tracks will be created the vegetation will be disturbed</li> </ul>	Air quality Fauna Flora Groundwater Noise Soil Surface- water Visual	Commissioning Operational Decommissioning Closure	<ul> <li>Dust control and monitoring</li> <li>Avoidance of unnecessary removal of vegetation</li> <li>Speed limits</li> <li>Avoidance of unnecessary removal of vegetation</li> <li>Maintenance of vehicles and immediately clean hydrocarbon spills.</li> </ul>	<ul> <li>Dust levels minimized.</li> <li>Minimize impact on fauna and flora.</li> <li>Minimize potential for hydrocarbon spills to infiltrate into groundwater.</li> <li>Noise levels minimized.</li> <li>Minimize impact on soil.</li> <li>Rehabilitation</li> </ul>

	<ul> <li>and/or destroyed.</li> <li>Possible hydrocarbon spills from vehicles and equipment.</li> <li>Noise from prospecting equipment on the access tracks.</li> <li>Compaction of soil is expected on the access tracks that are used by the prospecting operation.</li> <li>Erosion after thunder storms can occur.</li> <li>Access tracks will be visible to some extent from the immediate surroundings.</li> </ul>			•	Speed limits and noise control and monitoring Maintenance of access tracks / roads Stormwater run-off control Rip access tracks upon rehabilitation to allow regrowth of vegetation cover	standards and closure objectives met.  Erosion potential minimized.  Safety ensured.
Chemical toilets	<ul> <li>Possible spills from chemical toilets could contaminate the soil in the immediate surrounding area</li> <li>Possible spills from chemical toilets could contaminate the groundwater</li> </ul>	Groundwater Soil	Commissioning Operational Decommissioning Closure	•	Maintenance of toilets on regular basis. Removal of toilets upon closure.	Minimize the potential for a chemical spill on soil, which could infiltrate to groundwater.
Drilling activities	<ul> <li>Nuisance dust will be created by percussion drill rig and during site establishment of drilling sites.</li> <li>Where new drill sites will be created the natural habitat of</li> </ul>	Air quality Fauna Flora Groundwater Noise Soil Surface- water	Commissioning Operational Decommissioning Closure	•	Controlled drilling operations, preferably on wind-free days with dust control and monitoring Avoidance of unnecessary removal of vegetation	<ul> <li>Dust levels minimized.</li> <li>Minimize impact on fauna and flora.</li> <li>Minimize potential for hydrocarbon spills to infiltrate into groundwater.</li> </ul>

	the animals will be disturbed and/or destroyed.  Potential road kills.  Where new drill sites will be created the vegetation will be disturbed and/or destroyed.  Possible hydrocarbon spills from drill rig could cause groundwater contamination  Noise from drill rig  Compaction and / or disturbance of soil structure.  Possible hydrocarbon spills from drill rig could cause soil contamination in the immediately surrounding area.  Changing of natural aesthetic view of environment by drill rigs.	Visual		•	Speed limits. Avoidance of unnecessary removal of vegetation and continuous rehabilitation of disturbed areas, re- vegetation and monitoring of re-growth Immediate removal of any hydrocarbon spill; drip pans and maintenance and re- fuelling to take place in dedicated area Hearing protection and working hours Ripping of compacted areas during rehabilitation. Immediate removal of any hydrocarbon spill; drip pans and maintenance and re- fuelling to take place in dedicated area Continuous rehabilitation by ripping of compacted areas.	•	Noise levels minimized. Minimize impact on soil. Rehabilitation standards and closure objectives met. Erosion potential minimized. Safety ensured.
Trenches	<ul> <li>Nuisance dust will be created by the prospecting equipment during trenching activities.</li> <li>Where new trenches will be created the natural habitat of</li> </ul>	Air quality Fauna Flora Groundwater Noise	Commissioning Operational Decommissioning Closure	•	Controlled trenching operations, preferably on wind-free days with dust control and monitoring Avoidance of	•	Dust levels minimized.  Minimize impact on fauna and flora.  Minimize potential for hydrocarbon spills to

<ul> <li>the animals will be disturbed and/or destroyed.</li> <li>Potential road kills.</li> <li>Where new trenches will be created the vegetation will be disturbed and/or destroyed.</li> <li>Possible hydrocarbon spills from prospecting vehicles and equipment at the trench sites could contaminate groundwater.</li> <li>Noise from the equipment and vehicles during trenching activities.</li> <li>Removal and disturbance of soil structure by trenching activities.</li> <li>Possible hydrocarbon spills from vehicles and equipment in around open trenches could contaminate the soil in the immediately surrounding area.</li> <li>Collection of water in open trenches during and after thunderstorms.</li> <li>Changing of natural slopes due to the trenching activities.</li> <li>Changing of natural aesthetic view of the environment will take place.</li> </ul>	Soil Surface- water Topography Visual		unnecessary removal of vegetation and continuous rehabilitation of disturbed areas, revegetation and monitoring of re-growth  Speed limits.  Avoidance of unnecessary removal of vegetation and continuous rehabilitation of disturbed areas, revegetation and monitoring of re-growth  Immediate removal of any hydrocarbon spill; drip pans and maintenance and refuelling to take place in dedicated area  Hearing protection and working hours  Continuous backfilling of trenches.  Immediate removal of any hydrocarbon spill; drip pans and maintenance and refuelling to take place in dedicated area  Stormwater run-off control	<ul> <li>infiltrate into groundwater.</li> <li>Noise levels minimized.</li> <li>Minimize impact on soil.</li> <li>Rehabilitation standards and closure objectives met.</li> <li>Erosion potential minimized.</li> <li>Safety ensured.</li> </ul>
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		•	Continuous backfilling of trenches.	
		•	Continuous backfilling of trenches and levelling and sloping of rehabilitated areas.	

### f) Impact Management Actions

(A description of impact management actions, identifying the manner in which the impact management objectives and outcomes contemplated in paragraphs © and (d) will be achieved.)

(e.g. excavations, blasting, stockpiles, discard dumps or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etcetc)	POTENTIAL IMPACT (Including the potential impacts for cumulative impacts)  (e.g. dust, noise, drainage, surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etcetc)	MITIGATION MEASURES (describe how each of the recommendations herein will remedy the cause of pollution or degradation and migration of pollutants.)	TIME PERIOD FOR IMPLEMENTATION  Describe the time period when the measures in the environmental management programme must be implemented. Measures must be implemented when required.  With regard to rehabilitation specifically this must take place at the earliest opportunity. With regard to rehabilitation, therefore state either:  - Upon cessation of the individual activity, or  - Upon cessation of the mining, bulk sampling or alluvial diamond prospecting as the case may be.	COMPLIANCE WITH STANDARDS  (A description of how each of the recommendations in 2.11.6 read with 2.12 and 2.15.2 herein will comply with any prescribed management standards or practices that have been identified by Competent Authorities.)
Access tracks	<ul> <li>Nuisance dust will be created by the prospecting equipment traversing on the prospecting area.</li> <li>Where new access tracks will be created</li> </ul>	<ul> <li>Dust control and monitoring</li> <li>Avoidance of unnecessary removal of vegetation</li> <li>Speed limits</li> <li>Avoidance of</li> </ul>	Ripping of access tracks when new drilling and/or trenching sites are established as well as upon closure of prospecting right.	The following must be placed at the site and is applicable to all activities:  O Relevant Legislation; O Acts; O Regulations; O COP's; and O SOP's

Chemical toilets	the natural habitat of the animals will be disturbed and/or destroyed.  Potential road kills.  Where new access tracks will be created the vegetation will be disturbed and/or destroyed.  Possible hydrocarbon spills from vehicles and equipment.  Noise from prospecting equipment on the access tracks.  Compaction of soil is expected on the access tracks that are used by the prospecting operation.  Erosion after thunder storms can occur.  Access tracks will be visible to some extent from the immediate surroundings.	unnecessary removal of vegetation  Maintenance of vehicles and immediately clean hydrocarbon spills.  Speed limits and noise control and monitoring  Maintenance of access tracks / roads  Stormwater run-off control  Rip access tracks upon rehabilitation to allow regrowth of vegetation cover	Removal of toilets upon closure	Management and staff must be trained to understand the contents of these documents, and to adhere to thereto.  The following must be
Chemical tollets	Possible spills from chemical toilets could contaminate the soil in the immediate	<ul> <li>Maintenance of toilets on regular basis.</li> <li>Removal of toilets upon closure.</li> </ul>	of prospecting right.	placed at the site and is applicable to all activities:  Relevant Legislation;

	<ul> <li>Possible spills from chemical toilets could contaminate the groundwater</li> </ul>			<ul> <li>Acts;</li> <li>Regulations;</li> <li>COP's; and</li> <li>SOP's</li> </ul> Management and staff must be trained to understand the contents of these documents, and to adhere to thereto.
Drilling activities	<ul> <li>Nuisance dust will be created by percussion drill rig and during site establishment of drilling sites.</li> <li>Where new drill sites will be created the natural habitat of the animals will be disturbed and/or destroyed.</li> <li>Potential road kills.</li> <li>Where new drill sites will be created the vegetation will be disturbed and/or destroyed.</li> <li>Possible hydrocarbon spills from drill rig could cause groundwater contamination</li> <li>Noise from drill rig</li> </ul>	<ul> <li>Controlled drilling operations, preferably on wind-free days with dust control and monitoring</li> <li>Avoidance of unnecessary removal of vegetation</li> <li>Speed limits.</li> <li>Avoidance of unnecessary removal of vegetation and continuous rehabilitation of disturbed areas, re-vegetation and monitoring of re-growth</li> <li>Immediate removal of any hydrocarbon spill; drip pans and maintenance and re-fuelling to take place in dedicated area</li> <li>Hearing protection and working hours</li> <li>Ripping of compacted areas during</li> </ul>	Ripping of drilling sites as drill holes are completed and new sites are established as well as upon closure of prospecting right.	The following must be placed at the site and is applicable to all activities:  Relevant Legislation; Acts; Regulations; COP's; and SOP's  Management and staff must be trained to understand the contents of these documents, and to adhere to thereto.

	<ul> <li>Compaction and / or disturbance of soil structure.</li> <li>Possible hydrocarbon spills from drill rig could cause soil contamination in the immediately surrounding area.</li> <li>Changing of natural aesthetic view of environment by drill rigs.</li> </ul>	rehabilitation.  Immediate removal of any hydrocarbon spill; drip pans and maintenance and re-fuelling to take place in dedicated area  Continuous rehabilitation by ripping of compacted areas.		
Trenches	<ul> <li>Nuisance dust will be created by the prospecting equipment during trenching activities.</li> <li>Where new trenches will be created the natural habitat of the animals will be disturbed and/or destroyed.</li> <li>Potential road kills.</li> <li>Where new trenches will be created the vegetation will be disturbed and/or destroyed.</li> <li>Possible hydrocarbon spills from prospecting vehicles and equipment at the trench sites could contaminate</li> </ul>	<ul> <li>Controlled trenching operations, preferably on wind-free days with dust control and monitoring</li> <li>Avoidance of unnecessary removal of vegetation and continuous rehabilitation of disturbed areas, re-vegetation and monitoring of re-growth</li> <li>Speed limits.</li> <li>Avoidance of unnecessary removal of vegetation and continuous rehabilitation of disturbed areas, re-vegetation and monitoring of re-growth</li> <li>Immediate removal of any hydrocarbon spill; drip pans and maintenance and re-fuelling to take</li> </ul>	Continuous backfilling of trenches and levelling and sloping of rehabilitated areas upon closure of prospecting right.	The following must be placed at the site and is applicable to all activities:  Relevant Legislation;  Regulations;  COP's; and SOP's  Management and staff must be trained to understand the contents of these documents, and to adhere to thereto.

groundwater.  Noise from the equipment and vehicles during trenching activities.  Removal and disturbance of soil structure by trenching activities.  Possible hydrocarbon spills from vehicles and equipment in around open trenches could contaminate the soil in the immediately surrounding area.  Collection of water in open trenches during and after thunderstorms.  Changing of natural slopes due to the trenching activities.  Changing of natural	place in dedicated area  Hearing protection and working hours  Continuous backfilling of trenches.  Immediate removal of any hydrocarbon spill; drip pans and maintenance and re-fuelling to take place in dedicated area  Stormwater run-off control  Continuous backfilling of trenches.  Continuous backfilling of trenches and levelling and sloping of rehabilitated areas.
aesthetic view of the environment will take place.	

### g) Financial Provision

- (1) Determination of the amount of Financial Provision.
  - a. Describe the closure objectives and the extent to which they have been aligned to the baseline environment described under the Regulation.
    - The main closure objective of Goldipro's planned prospecting operation is to restore the site to its current land capability in a sustainable matter.
    - o To prevent the sterilization of any ore reserves.
    - o To prevent the establishment of any permanent structures or features.
    - To manage and limit any impact to the surface and groundwater aquifers in such a way that an acceptable water quality and yield can still be obtained, when a closure certificate is issued.
    - o To establish a stable and self sustainable vegetation cover.
    - To limit and rehabilitate any erosion features and prevent any permanent impact to the soil capability.
    - o To limit and manage the visual impact of the prospecting activities.
    - o To safeguard the safety and health of humans and animals on the site.
    - To close the prospecting operation efficiently, cost effectively and in accordance with Government Policy.

## b. Confirm specifically that the environmental objectives in relation to closure have been consulted with landowner and interested and affected parties.

A meeting was held with the surface owners, Mr. Riaan Kuhn (he also represented Mr. Piet Kuhn) (Trustees of Saamsit CC) and Mr. Bundu Conradie (Bundu Trust) on the 15<sup>th</sup> of June 2017. A meeting was held with Mr. Gert Scott (Legal Occupant of Portions 4 & 5 of the application area), on the 17<sup>th</sup> of June 2017. Refer to Appendix '7' for the attendance registers and meeting minutes of the respective meetings.

A draft copy of the Basic Assessment Report and Environmental Management Programme Report was provided to the surface owners and legal occupant for perusal and comment. The content of the BAR & EMPR document was discussed during the meeting and all of the above parties confirmed that the description of the existing status of the environment is a true reflection of the properties under application.

c. Provide a rehabilitation plan that describes and shows the scale and aerial extent of the main mining activities, including the anticipated mining area at the time of closure.

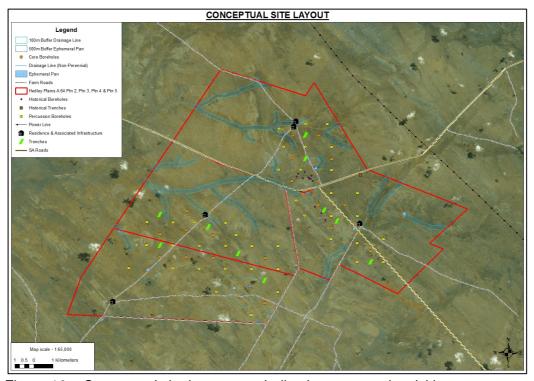


Figure 16 - Conceptual site layout map indicating proposed activities

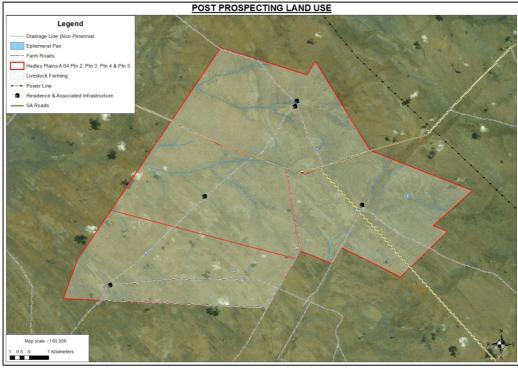


Figure 17 - Post prospecting land use map

#### Rehabilitation Plan:

#### Rehabilitation of boreholes

- All shallow boreholes (i.e. <10m) will be backfilled and levelled.
- All boreholes deeper than 10m will be covered with a metal plate and 0.2m of previously stored topsoil.

### o Final rehabilitation of access tracks and / roads

After rehabilitation has been completed, all roads will be ripped or ploughed, providing the landowner does not want them to remain that way and with written approval from the Director Mineral Development of the Department of Mineral Resources.

#### o Submission of information

Reports on rehabilitation and monitoring will be submitted bi-annually to the Department of Mineral Resources - Kimberley, as described in Regulation 55.

#### Maintenance (Aftercare)

Maintenance after closure will mainly concern the regular inspection and monitoring and/or completion of the re-vegetation programme for a period of at least two rainy seasons.

The aim of this Environmental Management Plan is for rehabilitation to be stable and self-sufficient, so that the least possible aftercare is required.

The aim with the closure of the prospecting operation will be to create an acceptable post-prospecting environment and land-use. Therefore all agreed commitments will be implemented by Prospecting Management.

### After-effects following closure

- Acid drainage
  - No potential for bad quality leach ate or acid drainage development exists.
- Long term impact on ground water and / or surface water.
   No after effect on the groundwater yield or quality or surface water quality is expected.
- Long-term stability of rehabilitated land

One of the main aims of any rehabilitated ground will be to obtain a self-sustaining and stable end result. Goldipro's prospecting activities will not include bulk sampling which could impact on the stability of the land.

d. Explain why it can be confirmed that the rehabilitation plan is compatible with the closure objectives.

The main closure objective of Goldipro's planned prospecting operation is to restore the site to its current land capability in a sustainable matter. The rehabilitation activities proposed in the above rehabilitation plan will ensure that the land reverts back to grazing land upon closure of the prospecting right.

e. Calculate and state the quantum of the financial provision required to manage and rehabilitate the environment in accordance with the applicable guideline.

#### CALCULATION OF THE QUANTUM

Applicant: Goldipro (Pty) Ltd Ref No: NC 11972 PR
Date: June 2017

			Α	В	С	D	E=A*B*C*D
No.	Description	Unit	Quantity	Master	Multiplication	Weighting	Amount
	·			Rate	factor	factor 1	(Rands)
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3	0.00	14.12	1	1	0.00
2 (A)	Demolition of steel buildings and structures	m2	0.00	196.65	1	1	0.00
2(B)	Demolition of reinforced concrete buildings and structures	m2	0.00	289.80	1	1	0.00
3	Rehabilitation of access roads	m2	1 500.00	35.19	1	1	52 784.63
4 (A)	Demolition and rehabilitation of electrified railw ay lines	m	0.00	341.55	1	1	0.00
4 (A)	Demolition and rehabilitation of non-electrified railw ay lines	m	0.00	186.30	1	1	0.00
5	Demolition of housing and/or administration facilities	m2	0.00	393.30	1	1	0.00
6	Opencast rehabilitation including final voids and ramps	ha	0.015	200 167.61	1	1	3 002.51
7	Sealing of shafts adits and inclines	m3	0.00	105.57	1	1	0.00
8 (A)	Rehabilitation of overburden and spoils	ha	0.000	133 307.07	1	1	0.00
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0.00	171 187.81	1	1	0.00
8 ( C )	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0.00	497 210.54	1	1	0.00
9	Rehabilitation of subsided areas	ha	0.00	115 091.20	1	1	0.00
10	General surface rehabilitation	ha	0.60	108 881.24	1	1	65 328.75
11	River diversions	ha	0.00	108 881.24	1	1	0.00
12	Fencing	m	0.00	124.20	1	1	0.00
13	Water management	ha	0.00	41 399.71	1	1	0.00
14	2 to 3 years of maintenance and aftercare	ha	0.00	14 489.90	1	1	0.00
15 (A)	Specialist study	Sum	0.00			1	0.00
15 (B)	Specialist study	Sum	0.00			1	0.00
· -					Total of 1 - 1	5 above	121 115.89

weighting factor 2

Subtotal 1

1	Preliminary and General	7 266.95	7 266.95
2	Contingencies	12 111.59	12 111.59
		Subtotal 2	140 494 43

VAT (14%) 19 669.22

Grand Total 160 163.66

121 115.89

An escalation at inflation cost per annum of the master rate was calculated from 2004-2016 according to the Consumer Price Index as published on Stats SA.  $(2005-3.0;\ 2006-4.0;\ 2007-6.0;\ 2008-9.3;\ 2009-8.1;\ 2010-6.2;\ 2011-3.7;\ 2012-6.3;\ 2013-5.4;\ 2014-5.8;\ 2015-4.4;\ 2016-6.2;\ 2017-6.6)$ 

No	Description	Quantity
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	
	Not applicable – There will be no processing plant.	0
2(A)	Demolition of steel buildings and structures	
	Not applicable – There will be no steel buildings and structures on the site.	0
2(B)	Demolition of reinforced concrete buildings and structures	
	Not applicable – There will be no reinforced concrete buildings or structures on the site.	0
3	Rehabilitation of access roads	
	The operation shall utilize existing farm roads as far as possible.	
	Provision is made for 500m access tracks x 3m wide.	1 500m²
4(A)	Demolition and rehabilitation of electrified railway lines	
	There are no electrified railway lines on the site.	0
4(B)	Demolition and rehabilitation of non-electrified railway lines	
	There are no non-electrified railway lines on the site.	0
5	Demolition of housing and/or administration facilities	
	Not applicable – There will be no housing and/or administration on the site.	0
6	Opencast rehabilitation including final voids and ramps	
	10 Trenches: 15m (length) x 1m (wide) x 2m (deep) = 150m <sup>2</sup>	0.015 Ha
7	Sealing of shafts adits and inclines	
	There will be no shafts, adits or inclines on the site.	0
8(A)	Rehabilitation of overburden and spoils	
	Not applicable – There will be no bulk sampling activities	0
8(B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	
	Not applicable – There will be no processing waste deposits and evaporation ponds on the site.	0
8(C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	
	Not applicable – There will be no processing waste deposits and evaporation ponds on the site.	0

9	Rehabilitation of subsided areas	
	There are no subsided areas on the mine	0
10	General surface rehabilitation	
	- Boreholes (40 percussion boreholes: 10m x 10m disturbance each)	0.40 Ha
	- Boreholes (20 core boreholes: 10m x 10m disturbance each)	<u>0.20 Ha</u> <u>0.60 Ha</u>
11	River diversions	
	There are no rivers on the site.	0
12	Fencing	
	There will be no fences established on the site.	0
13	Water management	
	There are no areas where water management is necessary	0
14	2 to 3 years maintenance and aftercare	
	Not applicable – Due to the small size of the operation no aftercare and maintenance is proposed.	0
15 (A)	Specialist study	
& 15(B)	Al specialist studies have been conducted and paid	0

### f. Confirm that the financial provision will be provided as determined.

Goldipro will provide a financial guarantee to the calculated amount to the DMR upon request thereof.

## h) Mechanisms for monitoring compliance with and performance assessment against the environmental management programme and reporting thereon, including:

- a. Monitoring of Impact Management Actions
- b. Monitoring and reporting frequency
- c. Responsible persons
- d. Time period for implementing impact management actions
- e. Mechanism for monitoring compliance

	SOURCE ACTIVITY	IMPACTS REQUIRING MONITORING PROGRAMMES	FUNCTIONAL REQUIREMENTS FOR MONITORING	ROLES AND RESPONSIBILITIES (FOR THE EXECUTION OF THE MONITORING PROGRAMMES)	MONITORING AND REPORTING FREQUENCY and TIME PERIODS FOR IMPLEMENTING IMPACT MANAGEMENT ACTIONS
-	Access tracks Drilling activities Trenching activities	Air quality	A single bucket monitoring system must be placed on the site during the drilling phase to measure the air quality levels and to ensure that Goldipro's operation adheres to the Management Standards as set out in the Atmospheric Pollution Prevention Act (45 of 1965), the Regulations of the MPRDA (28 of 2002) and the Mine, Health and Safety Act (29 of 1996).	Project manager Environmentalist	Monthly fall-out dust sampling and quarterly reporting to DMR during phases 4, 6 and 8.
-	Access tracks Drilling activities Trenching activities	Flora	A registered mine surveyor must conduct measurements of disturbed and rehabilitated areas on a quarterly basis. The measurements must be plotted on plans and kept for life of operation.	Project manager Environmentalist	Quarterly surveys and submitted to the DMR annually during phases 4, 6 and 8.

-	Access tracks	Groundwater	Water samples must be taken and	Project manager	Quarterly analysis and
-	Chemical toilets		analysed to ensure that they comply	Environmentalist	submitted to the DMR
-	Drilling activities		with the SANS 241-1:2011 drinking		annually during phases 4,
-	Trenching activities		water quality.		6 and 8.
-	Access tracks	Noise	Noise readings must be taken at pre-	Project manager	Monthly analysis and
-	Drilling activities		determined noise monitoring points	Environmentalist	submitted to the DMR
-	Trenching activities		with sufficient, calibrated sound level		annually during phases 4,
			meter.		6 and 8.

i) Indicate the frequency of the submission of the performance assessment / environmental audit report.

An Audit Report will be conducted annually in terms of Regulation 34 of the Environmental Impact Assessment Regulations, 2014 of the National Environmental Management Act, 1998 (Act no 107 of 1998).

#### j) Environmental Awareness Plan

(1) Manner in which the applicant intends to inform his or her employees of any environmental risk which may result from their work.

Goldipro shall provide and discuss the Environmental Awareness Plan with each employee during pre-employment induction. Monthly Environmental Awareness training shall be provided during life of operation.

(2) Manner in which risks will be dealt with in order to avoid pollution or the degradation of the environment.

Goldipro shall ensure that there is an Emergency Response Plan on site, clearly indicating the different procedures to potential incidents.

k) Specific information required by the Competent Authority

(Amongst others, confirm that the financial provision will be reviewed annually.)

The financial quantum will be conducted annually as is prescribed by Regulation 54 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) and Regulations pertaining to the financial provision for prospecting, exploration, mining or production operations of the National Environmental Managemnet Act, 1998 (Act No. 107 of 1998).

Goldipro shall provide the DMR with a progress and results report annually.

### **UNDERTAKING**

Date:

The EAP herewith confirms:

a) the correctness of the information provided in the reports;

b) the inclusion of comments and inputs from stakeholders and I&APs;

c) the inclusion of inputs and recommendations from the specialist reports where relevant; and

d) the acceptability of the project in relation to the finding of the assessment and level of mitigation proposed;

Signature of the Environmental Assessment Practitioner:

Name of company: