

PROSPECTING WORK PROGRAMME

SUBMITTED FOR A PROSPECTING RIGHT APPLICATION WITH
BULK SAMPLING



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

Name of Applicant:

MOPANE TREE SA (PTY) LTD

**FARM 596, ADEISESTAD 409,
KALKPUNT 407, FARM UAP 418**

GORDONIA RD

NORTHERN CAPE

AS REQUIRED IN TERMS OF SECTION 16 READ TOGETHER WITH REGULATION 7(1) OF THE
MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT (ACT 28 OF 2002)

1. REGULATION 7.1 (a)

FULL PARTICULARS OF THE APPLICANT

Table 1: Applicant's Contact Details

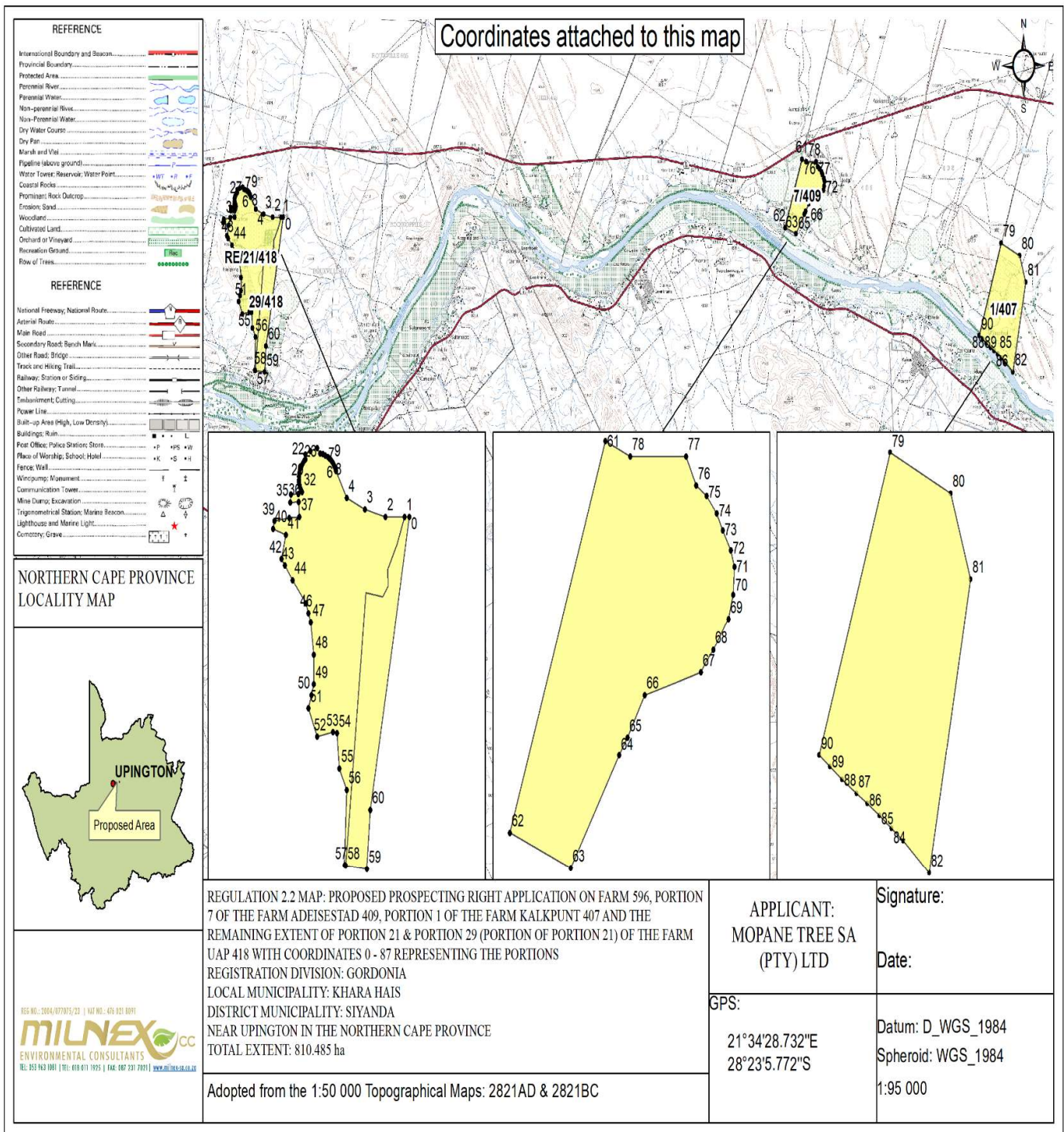
ITEM	COMPANY CONTACT DETAILS
Name	Mopane Tree SA (Pty) Ltd
Tel no	053 963 2008
Fax no	053 963 2009
Cellular no	082 822 5084
Email address	reINETTE@dielande.co.za
Postal address	P.O. Box 301 Hopetown 8750

Table 2: Consultant's Details

ITEM	CONSULTANT CONTACT DETAILS (If applicable)
Name	Japie van Zyl Attorneys
Tel no	053 963 2008
Fax no	053 963 2009
Cellular no	082 924 6687
Email address	japie@japievzylprok.co.za
Postal address	P.O. Box 960 Schweizer-Reneke North West 2780

2. REGULATION 7(1)(b)

PLAN CONTEMPLATED IN REGULATION 2(2) SHOWING THE LAND TO WHICH THE APPLICATION RELATES



See annexure "A"

3. REGULATION 7(1)(C)

THE REGISTERED DESCRIPTION OF THE LAND TO WHICH THE APPLICATION RELATES

- 3.1. Portion 7 of the farm Adeisestad 409
Title deed: T581/2014
Registration division: Gordonia RD
Province: Northern Cape

- 3.2. Portion 1 of the farm Kalkpunt 407
Title Deed: T658/2013
Registration Division: Gordonia Rd
Province: Northern Cape

- 3.3. Remaining extent of portion 21 of the farm UAP
Title Deed: T726/2014
Registration Division: Gordonia Rd
Province: Northern Cape

- 3.4. Portion 29 (portion of portion 21) of the farm UAP
Title Deed: T462/1990
Registration Division: Gordonia Rd
Province: Northern Cape

- 3.5. Farm 596
Title Deed: T581/2014
Registration Division: Gordonia
Province: Northern Cape

Total extent of application: 810.485 hectares

4. REGULATION 7(1)(d) and (e)

THE MINERAL OR MINERALS TO BE PROSPECTED FOR

Table 4.1: Minerals to be prospected for

ITEM	DETAIL
Type of mineral(s)	Diamonds (Alluvial, General & in Kimberlite)
Locality (Direction and distance from nearest town)	The property is located approximately 49km East of Upington adjacent the N14 in the Northern Cape Province.
Extent of the area required for prospecting	810.485 hectares
Geological formation	<p>Kheis Terrane (Mle – Metabasalt, felsic lava, Greenschist, conglomerate & ferruginous schist)</p> <p><u>Classification</u></p> <p>The Leerkrans Formation of the Wilgenhoutsdrif Group is a succession of highly sheared metasedimentary and metavolcanic rocks separating the western margin of the Archean Kaapvaal Craton from the polydeformed and highly metamorphosed Proterozoic Namaqua Sector of the Namaqua-Natal Province. Highly chloritised and epidotised metabasalts from the Lower Basalt are typically flow-banded, massive, vesicular or amygdaloidal, and have primitive tholeiitic, MORB-like geochemical characteristics.</p> <p>The Upper Basalt and Mixed Zone of the Leerkrans Formation are comprised of basaltic lavas showing similar geochemical features to the Lower Basalt. The metavolcanic rocks of the Leerkrans</p>

	<p>Formation overlap in age with the oldest units of the ~1.3 to ~1.23 Ga Areachap Group, the polydeformed and highly metamorphosed remnants of a volcanic arc that separates the western margin of the Kaapvaal Craton from the Namaqua Sector. The Leerkrans Formation likely represents the remnants of a related back-arc basin to the volcanic arc which was accreted onto the western margin of the craton</p>
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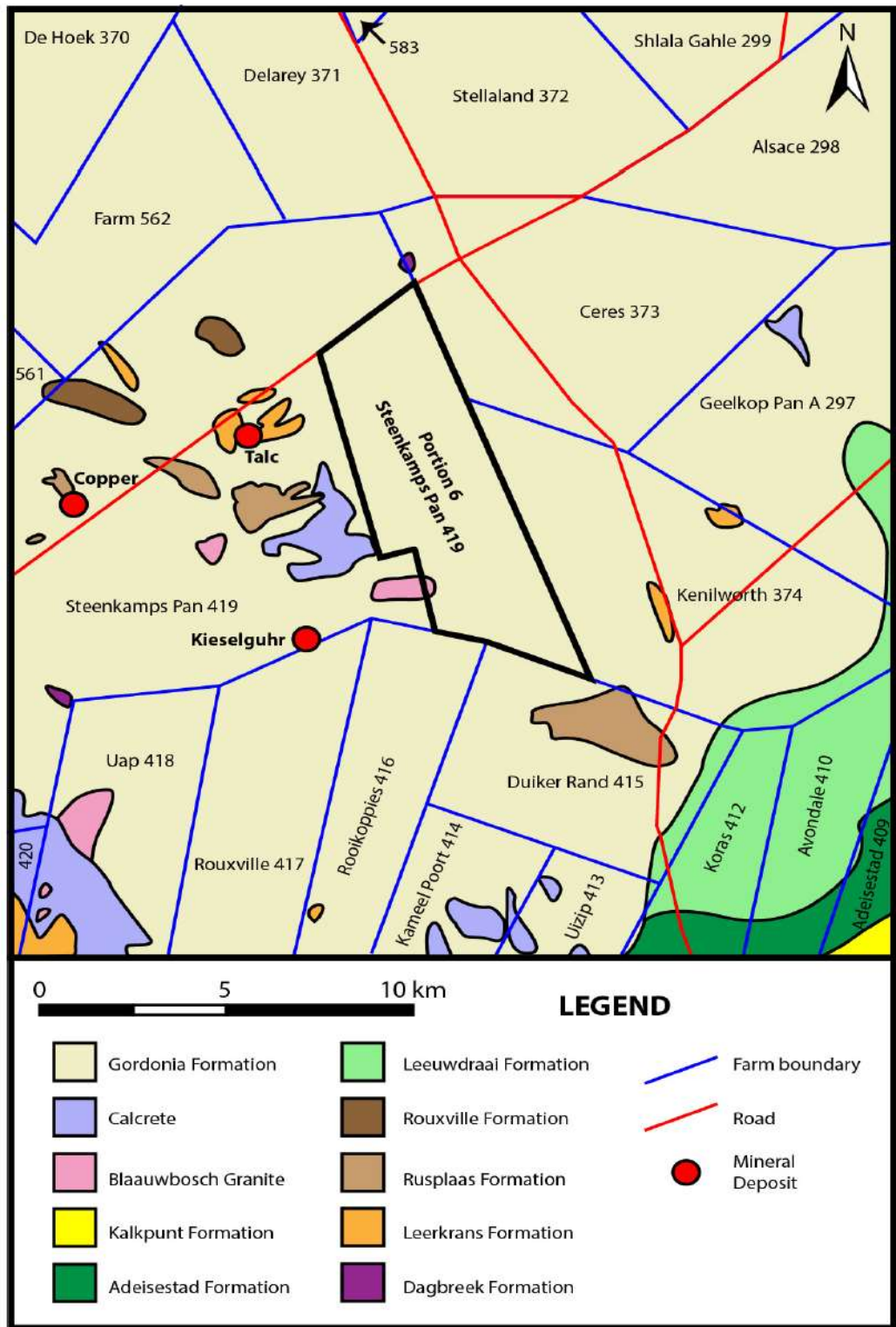
4.2 Description why the Geological formation substantiates the minerals to be prospected for (provide a justification as to why the geological formation supports the possibility that the minerals applied for could be found therein)

The extensive diamondiferous gravels of the Lower Vaal, Harts, and Middle Orange River ("MOR") valleys are associated with remnants of outwash deposits formed during the retreat of the ancient Ghaap (Kaap) Valley glacial system and subsequent reworking and alluvial deposition by major rivers. These rivers included the proto- Vaal, - Orange, - Harts, and -Riet Rivers and their modern antecedents.

Past and present work has shown that the majority of the alluvial diamonds found in gravel deposits along all of the Orange River terraces are, typically, found in two distinct gravel horizons. These comprise an upper, deflation deposit (locally known as Rooikoppie gravels) overlying fluvial-alluvial units, often known as Primary gravels.

The older gravel sequence formed deposits of considerable thickness, often in excess of 15m and consisting of rapidly aggraded (or dumped) material. The sequence is compacted and frequently cemented with secondary calcrete. Basal gravels, typically, comprise the lower half to one third of the fluvial-alluvial sedimentary sequence and rest directly on the bedrock. The unit (around 5m thick) generally comprises a poorly sorted assemblage of large boulders (up to 45 cm in diameter at the base of the unit), cobbles and pebbles set in a sandy matrix that is considered to have been deposited by a large, high-energy braided system that would be readily capable of transporting diamonds.

The overlying suspended gravels represent gravel bars that have migrated down the river system and have not incised into the bedrock. The units have also been shown to contain diamonds. Diamond grades are usually lower than for the basal deposits owing to their being diluted by finer-grained pebble, sand and silt lenses. The thickness of the suspended gravel unit varies from 3 – 7m and may represent large volumes of material.



GEOLOGICAL LEGEND

GEOLOGIESE LEGENDE

SEDIMENTARY AND VOLCANIC ROCKS
SEDIMENTÊRE EN VULKANIESE GESTEENTES

INTRUSIVE ROCKS
INTRUSIEWE GESTEENTES

QUATERNARY
KWATERNER

TERTIARY
TERSIER

JURASSIC
JURA

CARBONIFEROUS TO PERMIAN
KARBON TOT PERM

OPERVOLGINGSREKENSIE

NAMIBIAN
NAMIBIUM

MOKOLIAN
MOKOLIUM

MOKOLIAN AND/OR OLDER
MOKOLIUM EN OF OUER

OPERVOLGINGSREKENSIE

OPERVOLGINGSREKENSIE

KOMPLEKS "HARTSEENINGKOMPLEKS"

FORMATION FORMASIE
(UNLESS OTHERWISE SPECIFIED TENSY ANDERS GESPEESIFIEER)

GROEP KALAHARI GROUP	Gordonia (Og)	Og	Q
		T	
	Dwyka	C-Pd	
GROEP NAMA GROUP	Fish River Visrivier	Nv	
	Schwarzrand	Ns	
	Kulbis	Nk	
GROEP KORAS GROUP	Kalkpunt	Nka	
	*Adelstedad	N-MI	
	Laeuwdraai (N-MI)	N-Ma	
	Welgevind (N-Mw)	Mru	
	*Rouxville	Me	
	Ezellfontein (Me)	Mrp	
	*Rusplaaas (Mrp)	Mst	
	*Swartkopsleegte (Msr)	Msr	
	*Steenkampsputs (Mst)	Mbs	
	*Bossienek	Mbm	
	*Boom River Boomrivier	Mch	
	Christiana		

GROEP WILGENHOUTSDRIF GROUP	Leerkrans	Mie	
	Zonderhuis	Mz	
	*Groot Drink Member/-lid	Mj	
GROEP "BRULPAN" GROUP	*Sprigg (Msp)	Msp	
	Bethesda (Mbe)	Mbe	
	*Tatet Draai (Mr)	Mr	
	Groblersthoop	Mgh	
GROEP "VAALKOPPIES" GROUP	Uittraai (Mu)	Mu	
	*Prynsberg (Mpr)	Mpr	
GROEP "BIESJE POORT" GROUP	Sultanaoord	Msu	
	Dagbreek	Mds	
	*Sout River Soutrivier	Mso	
	Goedehoop	Mgo	
	*Valsvlei (Mva)	Mva	
	*Ganzenmond (Mgz)	Mgz	
	Rautenbach se Kop (Mra)	Mra	
	*Puntsit (Mpu)	Mpu	
	Toetslaan (Mt)	Mt	
	*Rooidam Member/-lid (---)	Msa	
	Sandputs (Msa)	Msa	
	*Omdraai (Mo)	Mo	
*Piet Rooisberg (Mpl)	Mpl		
*Renosterkop Gneiss/-gneis	Mre		
*Koekoepkop	Mkp		
*Rozyne Bosch	Mro		
*Venterskop (Mve)	Mve		
*Sandroute (Msn)	Msn		
METAMORFE SUITE "KOELEMANSKOP" METAMORPHIC SUITE	*Collinskop	Mcl	
	*Bok-se-puts	Mbo	
	*Kourop Migmatite/-migmatiet (Mko)	Mko	
	*Witwater Gneiss/-gneis (Mw)	Mw	
METAMORFE SUITE "VYFSEKER" METAMORPHIC SUITE	*Twakputs Gneiss/-gneis	Mtw	
	Kenhardt Migmatite/-migmatiet (Mke)	Mke	
	*Piet Rooi's Puts Gneiss/-gneis (Mpe)	Mpe	
	*Aasvogelkop Gneiss/-gneis (Msa)	Mas	
METAMORFE SUITE "BRAKWATER" METAMORPHIC SUITE	*Putsies Gneiss/-gneis	Mpt	
	*Driehoek	Mde	
	*De Banken Gneiss/-gneis (Mdb)	Mdb	
GROEP "ARRIBES" GROUP	*Regt Kyk Gneiss/-gneis (Mrg)	Mrg	
	*Nieuwe Post Wes Gneiss/-gneis (Mnu)	Mnu	
GROEP "DROEBKOM" GROUP	*Witklip (Mwi)	Mwi	
		Mar	
		Mdr	
		Mku	
		Mrt	

TECTONIESE OPEENVOLGINGSREKENSIE



Nb	*Blauwbosch Granite/-graniet
Nro	*Rooiputs Granophyre/-graniofir
Nd	
Mbt	*Betadam Gabbronorite/-gabbronoriet

Mb	*Boudbytkop Syenite/-siéniet (Mb)
Mp	*Perdeberg Monzonite/-monzoniet (Mp)
Mf	Friersdale Charnockite/-charnockiet
Mn	Subsuite *Cnydas Subsuite
Mkn	
Mk	Subsuite *Kleinbegin Subsuite
Mg	*Gif Berg Granite/-graniet (Mg)
Mkx	*Klipkraal Granite/-graniet (Mkx)
Mgu	*Gouskop Granite/-graniet (Mgu)
Mn	*Nelers Drift Granite/-graniet (Mn)
Mka	*Kanonseiland Granite/-graniet (Mka)
Mg	*Straussburg Granite/-graniet (Mg)
Mco	*Colston Granite/-graniet (Mco)
Mko	*Koboes Granite/-graniet (Mko)
Mks	*Klip Koppies Granite/-graniet (Mks)
Ml	*Louisvale Granite/-graniet (Ml)
Mv	*Vaalputs Granite/-graniet (Mv)

Mdo	*Donkieboud Granite Gneiss/-granietgneis (Mdo)
Mba	*Bak River Granite Gneiss (Mba)
Mba	*Bakriviergranietgneis (Mba)
Mgd	*Daberas Grandodiorite/-granodioriet

Mga	
Mkk	*Kalkwerf Gneiss/-gneis
Ma	*Augrabies Gneiss/-gneis
Mkm	*Kakamas Suid Gneiss/-gneis
Mrm	*Riemvasmaak Gneiss/-gneis
Msw	*Swanartz Gneiss/-gneis
Mdy	*Dysons Klip Gneiss/-gneis
Mki	*Klip Bakken Gneiss/-gneis (Mki)
Mcu	*Curries Camp Gneiss/-gneis (Mcu)
Mbn	*Banks Vlei Gneiss/-gneis
Mlu	*Lutzputs Gneiss/-gneis

KEIMOES SI SUITE KEIM

*SUITE EENI "EENDOOFI"

5. REGULATION 7(1) (f)

A DESCRIPTION OF HOW THE MINERAL RESOURCE AND MINERAL DISTRIBUTION OF THE PROSPECTING AREA WILL BE DETERMINED

5.1 SITE VISIT

The applicant will appoint Pierre de Jager as the project geologist to conduct the site visit. A formal site visit will be done within 90 days after the prospecting right has been executed. It is foreseen that more than one site visit will be conducted on the farms.

The purpose of the site visit is to assist the applicant to be familiar with the environment and with the assessment of the topography and the general geology before invasive prospecting activities. During this process the applicant will also review all documentation that has been received in relation to the geology of the area.

5.2 DESKTOP STUDIES

Desktop studies will be undertaken after a site investigation is done to determine the target areas including the identification of any infrastructure to be build and any potential problems that may need to be addressed.

This phase involves reviewing the literature surveys, interpretation of aerial photographs, satellite images and ground validation of targets. A preliminary analysis of the environment will be obtained which will improve the project's efficiency and cost by providing a clearer understanding of the challenges may be encountered. Compilation of the results of analysis will be done by the geologist after the finalization of the desktop studies.

5.3 PITTING

A trial pit / test pit or inspection pit investigation is a highly effective way of obtaining data on the sub surface soil and rock conditions which underlie a prospecting sight. It allows for the various soils and rock types to be locked, the soil to be sampled and a preliminary assessment to be made.

Pits will be dug, locked, sampled and backfilled. To dig the pits the applicant will make use of the systems of Pierre de Jager, the appointed project geologist.

The applicant will at the end of the pitting process have locked the pits with the following information:

- A description of the soil and rock types from ground level to the base of the pits;
- Record of rock head depth and refusal depth, a list of where the samples will be taken, a record of where ground water seepage will be recorded;
- A general note of the geology and conditions in the vicinity of the test pits
- Pitting will be done within the period of 24 months once the prospecting right has been granted.

5.4. TRENCHES

Due to nature of the alluvial diamond deposit, samples are not taken for assay as would be normal practice to evaluate hard rock precious or base-metal prospects. The diamond distribution pattern grade of alluvial diamonds is also of such a nature that there is no repeatability of sample results, even from adjacent samples.

Bulk samples will have to be taken to determine the average sample grade. By taking of the bulk samples, the applicant foresees to determine the grade of the diamond deposits as the number of carats contained in 100 tons (cpht) of gravel and to determine the average diamond sizes.

During these activities the applicant will then find out the size and value distribution of trenches. Diamond distribution patterns of alluvial deposits varies to such a nature that there is no repeatability of sample results even from adjacent samples.

Alluvial diamond deposits can only be sampled through bulk sampling comprising thousands of cubic meters of gravel. Given the extent of the area and the grades expected to be very low, the applicant will have to process bulk samples of approximately 120 000 tonnes.

The appointed geologist will advise where the samples will be taken. Bulk samples will not be taken along a systematic grid as in the case of drilling.

As the anticipated mining plan for the properties will be based on high volumes (low grades), the bulk samples will have to address average recovery.

As indicated, the bulk sampling exercise has to be conducted to determine the grades (cpht), the diamond size distribution and thereafter to sell the diamonds to determine the diamond values.

The plant/ bulk sampling technique will be that of a typical South African alluvial diamond mining operation. The method is a strip mining process with oversize material and tailings recovered from the plant will be used as backfill material prior to final rehabilitation. Gravels are excavated, loaded and transported to the treatment facility using dump trucks.

The bulk sampling operation will be conducted using a fleet of conventional open pit mining equipment comprising of dump trucks supported by appropriate excavators and front-end- loaders. All equipment is planned to be diesel driven.

Before excavation commences vegetation will be cleared from the proposed bulk sampling block. These will be done as per environmental regulations. Top soil will then be removed and stored separately for later used for rehabilitation.

The bulk samples will be made in the form of box cuts the dimensions of these individual box cuts will on average be 40m long x 30m wide. It is estimated that the bulk samples will be 5 m in depth.

Gravel will be removed by excavators and will be loaded directly into dump trucks. Ore will be hauled to the screening plant. The material will be screened where after the screened material will be moved to the processing plant where the gravel will be processed. Concentrate will be moved to the sorting plant where the concentrate will be sorted.

It is estimated that pitting and trenching will take approximately 48 months.

5.5 CONSOLIDATION AND INTERPRETATION OF RESULTS DATA

The prospecting activities will be conducted to determine an inferred diamond resource and an indicated diamond resource. An inferred diamond resource has a lower level of confidence than that applying to an indicated diamond resource. The inferred resource indication will be where the geological and or grade continuity could not be confidently interpreted. It cannot be assumed that an inferred resource will necessarily be upgraded to an indicated resource. Such a resource is normally also not sufficient to enable an evaluation of economic viability.

To obtain an indicated resource the confidence level of information obtained from the prospecting will have to be sufficient for the information to be applied to mine design, mine planning to enable an evaluation of economic viability.

The project geologist, Pierre de Jager, will monitor the program and consolidate and process the data and amend the program depending on the results received after each phase of prospecting. The DMR will be updated of any amendments made. This will be a continuous process throughout the prospecting work program.

Each physical phase of prospecting will be followed by desktop studies involving interpretation and modeling of all data gathered. These studies will determine the manner in which the work programme is to be proceeded with in terms of the activity, quantity, resources, expenditure and duration.

A GIS data base will be constructed capturing all the exploration data. All data will be consolidated and processed to determine the diamond bearing resource on the property.

REGULATION 7(1)(h)

ALL PLANNED PROSPECTING ACTIVITIES MUST BE CONDUCTED IN PHASES AND WITHIN SPECIFIC TIMEFRAMES

- **PHASE 1: Site Visit**

Duration: 3 Months

- **PHASE 2: Desktop Studies**

Duration: 3 Months

- **PHASE 3: PITTING**

Duration: 24 Months

▪ **PHASE 4: TRENCHES**

Duration: 24 months

▪ **PHASE 5: CONSOLIDATION & INTERPRETATION**

Duration: 6 Months

REGULATION 7(1)(i)

TECHNICAL DATA DETAILING THE PROSPECTING METHOD OR METHODS TO BE IMPLEMENTED AND THE MINE REQUIRED FOR EACH PHASE OF THE PROPOSED PROSPECTING OPERATION

PHASE 1 – SITE VISIT

GENERAL: A site visit will be conducted within 2 months after execution of the Prospecting Right

TIMEFRAME: Month 0-3

COSTS: R10 000

TECHNICAL SUPPORT: Environmental Consultant – Milnex 189 CC
Geologist – Pierre de Jager

PHASE 2– DESKTOP STUDIES

GENERAL: Desktop studies will be done after the site visit to determine the target areas.

TIMEFRAME: Months 4-6

COSTS: R15 000

TECHNICAL SUPPORT : Environmental Consultant – Milnex 189 CC
Geologist – Pierre de Jager

PHASE 3 – PITTING

TIMEFRAME 24 months (month 7 -30)

NUMBER OF PITS 100 pits

EXTENT 3m x 3m x 4m

COSTS R100 000.00

TECHNICAL SUPPORT Environmental Consultant – Milnex 189 CC
Geologist – Pierre de Jager

PHASE 4 – TRENCHES

TIMEFRAME 24 months (month 31 - 54)

NUMBER OF TRENCHES 25 trenches

EXTENT 40m x 30m x 5m

COSTS R 350 000.00

TECHNICAL SUPPORT : Environmental Consultant – Milnex 189 CC
Geologist – Pierre de Jager
1 x Excavator operator

TONS TO BE WASHED: 40m x 30m x 2m x 2m x 25 = 120 000tonnes

PHASE 5 – CONSOLIDATION AND INTERPRETATION

TIMEFRAME 6 months (month 55 - 60)

COSTS R 20 000.00

TECHNICAL SUPPORT Geologist – Pierre de Jager
Environmental consultants – Milnex 189 CC

Table 5.1 The table below incorporates the information required in respect of Regulations 7(1)(f), 7(1)(h) and 7(1)(i):

Phase	Activity	Skill(s) required	Timeframe	Outcome	Timeframe for outcome	What technical expert will sign off on the outcome?
One	Non-Invasive Prospecting Site Visit	Environmental Consultant, geologist	Month 0 – 3	Decision on the prospecting work to be done	Month 3	Environmental Consultants – Milnex Geologist – Pierre de Jager
Two	Non-Invasive Prospecting Desktop Studies	Environmental Consultant, geologist	Month 4 - 6	The finalization of the map for pitting	Month 6	Milnex – Environmental Consultants
Three	Invasive Prospecting Pitting	Environmental Consultant, geologist	Month 7 -30	Obtained data on the sub surface soil and rock conditions which underline a prospecting sight. Pits will be dug, locked, sampled and backfilled.	Month 30	Environmental Consultant – Milnex 189 CC Geologist – Pierre de Jager
Four	Invasive Prospecting Trenches	Environmental Consultant, Machine Operators, Pan Operators, Mine Health and Safety, Environmental	Month 31- 54	The determined average samples grade, diamond size distributions, average diamond sizes the number of carats contained in hundred tons of gravel. Prepared and anticipated mining plan. The determined average recovery; the prices for which the diamonds will be sold.	Month 54	Environmental Consultant – Milnex 189 CC Geologist – Pierre de Jager
Five	Non-Invasive Prospecting Consolidation and interpretation of results	Environmental Consultant, geologist	Month 55-60	The extent of the resource, The life of mine	Month 60	Geologist - Pierre de Jager

6. **REGULATION 7 (1)(g)**

A DESCRIPTION OF THE PROSPECTING METHOD OR METHODS TO BE IMPLEMENTED

(i) DESCRIPTION OF PLANNED NON-INVASIVE ACTIVITIES:

(These activities do not disturb the land where prospecting will take place e.g. aerial photography, desktop studies, aeromagnetic surveys, etc)

SITE VISIT

The applicant will appoint Pierre de Jager as the project geologist to conduct the site visit. A formal site visit will be done within **90 days** after the prospecting right has been executed. It is foreseen that more than one site visit will be conducted on the farms.

The purpose of the site visit is to assist the applicant to be familiar with the environment and with the assessment of the topography and the general geology before invasive prospecting activities. During this process the applicant will also review all documentation that has been received in relation to the geology of the area.

DESKTOP STUDIES

Desktop studies will be undertaken after a site investigation is done to determine the target areas including the identification of any infrastructure to be build and any potential problems that may need to be addressed.

This phase involves reviewing the literature surveys, interpretation of aerial photographs, satellite images and ground validation of targets. A preliminary analysis of the environment will be obtained which will improve the project's efficiency and cost by providing a clearer understanding of the challenges may be encountered. Compilation of the results of analysis will be done by the geologist after the finalization of the desktop studies.

CONSOLIDATION AND INTERPRETATION OF RESULTS DATA

The prospecting activities will be conducted to determine an inferred diamond resource and an indicated diamond resource. An inferred diamond resource has a lower level of confidence then that applying to an indicated diamond resource. The inferred resource indication will be where the geological and or

grade continuity could not be confidently interpreted. It cannot be assumed that an inferred resource will necessarily be upgraded to an indicated resource. Such a resource is normally also not sufficient to enable an evaluation of economic viability.

To obtain an indicated resource the confidence level of information obtained from the prospecting will have to be sufficient for the information to be applied to mine design, mine planning to enable an evaluation of economic viability.

The project geologist, Pierre de Jager, will monitor the program and consolidate and process the data and amend the program depending on the results received after each phase of prospecting. The DMR will be updated of any amendments made. This will be a continuous process throughout the prospecting work program.

Each physical phase of prospecting will be followed by desktop studies involving interpretation and modeling of all data gathered. These studies will determine the manner in which the work programme is to be proceeded with in terms of the activity, quantity, resources, expenditure and duration.

A GIS data base will be constructed capturing all the exploration data. All data will be consolidated and processed to determine the diamond bearing resource on the property

(ii) DESCRIPTION OF PLANNED INVASIVE ACTIVITIES:

(These activities result in land disturbances e.g. sampling, drilling, bulk sampling, etc)

PITTING

A trial pit / test pit or inspection pit investigation is a highly effective way of obtaining data on the sub surface soil and rock conditions which underlie a prospecting sight. It allows for the various soils and rock types to be locked, the soil to be sampled and a preliminary assessment to be made.

Pits will be dug, locked, sampled and backfilled. To dig the pits, the applicant will make use of the systems of Pierre de Jager, the appointed project geologist.

The applicant will at the end of the pitting process have locked the pits with the following information:

- A description of the soil and rock types from ground level to the base of the pits;
- Record of rock head depth and refusal depth, a list of where the samples will be taken, a record of where ground water seepage will be recorded;
- A general note of the geologist and conditions in the vicinity of the test pit.

It is planned that 100 pits will be dug (it may be less depending on the results) at an extent of 3m (length) x 3m (breadth) x 4m (depth).

TRENCHES

The plant/ bulk sampling technique will be that of a typical South African alluvial diamond mining operation. The method is a strip mining process with oversize material and tailings recovered from the plant will be used as backfill material prior to final rehabilitation. Gravels are excavated, loaded and transported to the treatment facility using dump trucks.

The bulk sampling operation will be conducted using a fleet of conventional open pit mining equipment comprising of dump trucks supported by appropriate excavators and front-end-loaders. All equipment is planned to be diesel driven.

Before excavation commences vegetation will be cleared from the proposed bulk sampling block. These will be done as per environmental regulations. Top soil will then be removed and stored separately for later used for rehabilitation. The bulk samples will be made in the form of box cuts whereby

the dimensions of these individual box cuts on average are to be 40 m long x 30 m wide x 5 m deep.

Gravel will be removed by excavators and will be loaded directly into dump trucks. Ore will be hauled to the screening plant. The material will be screened where after the screened material will be moved to the processing plant where the gravel will be processed. Concentrate will be moved to the sorting plant where the concentrate will be sorted. It is estimated that the bulk sampling will take approximately 24 months consisting of about 25 trenches to be excavated.

Commitment to provide addendums in respect of additional prospecting activities

I herewith commit to provide the Department of Mineral Resources with an addendum in respect of both the EM Plan and Prospecting Work Program regarding any future in-fill prospecting required but not described above, prior to undertaking such activities. The addendum will cover all the Regulations as per the Prospecting Work Program.

I agree that the addendums will provide for similar activities only and if the scope changes I would be required to apply in terms of Section 102 of the MPRDA for an amendment of the Prospecting Work Program.

ACCEPT	X
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(iii) DESCRIPTION OF PRE-FEASIBILITY STUDIES

(Activities in this section includes but are not limited to: initial, geological modeling, resource determination, possible future funding models, etc)

All data will be consolidated and processed to determine the diamond bearing resource on the property. This will be a continuous process throughout the prospecting work programme.

(iv) DESCRIPTION OF BULK SAMPLING ACTIVITIES

This activity requires that an application in terms of Section 20 of the Act is specifically included in your application for a prospecting right and cannot be proceeded with if such permission is not specifically granted.

It is foreseen that a 120 000 tons bulk sample will be taken.

See annexure “B” for an application in terms of Section 20 of the Act

Table 6.1: Bulk Sampling Activities

ACTIVITY		DETAILS		
Number of pits/trenches planned		100 Pits; 25 Trenches		
Dimensions of pits/trenches, per pit/trench	Number of pits/trenches	Length	Width	Depth
	100 pits	3m x	3m x	4m
	25 trenches	40m x	30m x	5m
Locality		The locality of the trenches will be determined by the geologist after the evaluation and assessment of the prospecting information derived from the earliest prospecting activities		
Volume Overburden (Waste)		40m x 30m x 2m x 25 = 60 000 m ³		
Volume Ore		40m x 30m x 3m x 25 = 90 000 m ³		
Density Overburden		1.5		
Density Ore		2.2		
Phase(s) when bulk sampling will be required		Phase 3 and 4		
Timeframe(s)		Pits: 24 months Trenches: 24 months		

Commitment to provide for an addendum in respect of additional bulk sampling activities

I herewith commit to provide the Department of Mineral Resources with an addendum to the Prospecting Work Program, and an Environmental Management Plan for approval prior to undertaking any future bulk sampling activities not described above.

ACCEPT	X
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5 REGULATION 7(1)(j)(i)

DETAILS WITH DOCUMENTARY PROOF OF THE APPLICANT’S TECHNICAL ABILITY OR ACCESS THERETO TO CONDUCT THE PROPOSED PROSPECTING OPERATION

7.1 Competencies to be employed in terms of the Mine Health and Safety Act

COMPETENCIES TO BE EMPLOYED
Mine Manager
Safety Officer
Operators
Environmental Consultants
Geologist

I herewith confirm that I, in Table 9.1 have budgeted and financially provided for the required skills listed above.

CONFIRMED	X
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7.2 List of Appropriate equipment at your disposal (If applicable)

Table D: Appropriate Equipment available

1 x 400 Kva John Deere Generator 1 x 500 Kva Volvo Generator 1 x 933 Lui Gong Excavators 2 x 856 Lui Gong Front End Loaders 2 x 16ft Washing pans 2 x Bell Dumper
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7.3 Technical skills provided Free of Charge

7.3.1 Information (CV’s) in respect of skills already acquired

- Environmental Consultants – annexure “C”
- Geologist – Pierre de Jager - annexure “D”

7.3.2 Copy of the relevant contractual agreements between the service provider and the applicant relative to the duration of the planned prospecting period, where applicable

- Environmental Consultants – annexure “C”

- Geologist – Pierre de Jager - annexe “D”

7.3.3 All other evidence of Technical Ability

CV of employees and list of equipment

7.4 REGULATION 7 (1)(j)(ii)

DETAILS WITH DOCUMENTARY PROOF OF A BUDGET AND DOCUMENTARY PROOF OF THE APPLICANT’S FINANCIAL ABILITY OR ACCESS THERETO

As proof of the applicant’s financial ability or access thereto, the following documents are annexed:

- Letter of undertaking – annexe “E”
- Financial statements – annexe “F”

8 REGULATION 7 (1)(k)

A COST ESTIMATE OF THE EXPENDITURE TO BE INCURRED FOR EACH PHASE OF THE PROPOSED PROSPECTING OPERATION

Table 9.1

ACTIVITY	YEAR 1 Expenditure	YEAR 2 Expenditure	YEAR 3 Expenditure	YEAR 4 Expenditure	YEAR 5 Expenditure
PHASE 1					
Site Visit	R10 000.00				
PHASE 2					
Desktop Studies	R15 000.00				
PHASE 3					
Pitting	R75 000.00	R25 000.00			
PHASE 4					

Trenches			R210 000.00	R140 000.00	
PHASE 5					
Consolidation & Interpretation					R20 000.00
Labour	R40 000.00	R60 000.00	R50 000.00	R50 000.00	
Rehabilitation	R30 000.00	R20 000.00	R60 000.00	R70 000.00	R30 000.00
Annual Total	R170 000.00	R105 000.00	R320 000.00	R260 000.00	R50 000.00
			Total Budget		R905 000.00

9 FINANCIAL ABILITY TO GIVE EFFECT TO THE WORK PROGRAMME

9.1 The amount required to finance the Work Program

From the proposed budget it can be assumed that the amount of R905 000.00 would be required to finance the Work Program.

9.2 Detail regarding the financing arrangements

- See the memorandum of agreement between Morgenson mining (Pty) Ltd and J. Smit Delwery attached hereto as annexure “E”
- J. Smit Delwery will provide financial resources to conduct the prospecting activities. Financial Statements of J. Smit Delwery are attached hereto as annexure “F”

9.3 Confirmation of supporting evidence appended

- Financial Statements of J. Smit Delwery and Morgenson Mining (Pty) Ltd are attached hereto as Annexure “F”.

10 Confirmation of the availability of funds to implement the proposed project

- Financial Statements of J. Smit Delwery and Morgenson Mining (Pty) Ltd are attached hereto and indicate that there is enough money available to conduct the prospecting activities. This money will be allocated to fund this prospecting project. – Annexure “F”.

11 I herewith confirm that I have budgeted and financially provided for the total budget as identified in Regulation 7(1) (k).

CONFIRMED	X
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12 REGULATION 7(1)(m)

UNDERTAKING, SIGNED BY THE APPLICANT, TO ADHERE TO THE PROPOSALS AS SET OUT IN THE PROSPECTING WORK PROGRAMME

Table 13.1

Herewith I, the person whose name and identity number is stated below, confirm that I am the Applicant or the person authorized to act as representative of the Applicant in terms of the resolution submitted with the application, and undertake to implement this prospecting work program and adhere to the proposals set out herein.	
Full Names and Surname	Reinette Wiid
Identity Number	6905220007086

ANNEXURE B

APPLICATION IN TERMS OF SECTION 20 (2) PERMISSION TO REMOVE AND DISPOSE OF MINERALS

Name of applicant: Mopane Tree SA (Pty) Ltd
Reg number: 2021/612043/07
Postal address: P.O Box 301
Hopetown
Northern Cape
8750
Telephone number: 082 822 5084
Fax number: 053 963 2009

Description of area applied for:

- 3.1. Portion 7 of the farm Adeisestad 409
Title deed: T581/2014
Registration division: Gordonia RD
Province: Northern Cape
- 3.2. Portion 1 of the farm Kalkpunt 407
Title Deed: T658/2013
Registration Division: Gordonia Rd
Province: Northern Cape
- 3.3. Remaining extent of portion 21 of the farm UAP
Title Deed: T726/2014
Registration Division: Gordonia Rd
Province: Northern Cape
- 3.4. Portion 29 (portion of portion 21) of the farm UAP
Title Deed: T462/1990
Registration Division: Gordonia Rd
Province: Northern Cape
- 3.5. Farm 596
Title Deed: T581/2014
Registration Division: Gordonia
Province: Northern Cape

Total extent of application: 810.485 hectares

The applicant hereby applies for permission to remove and dispose for own account of bulk samples of diamonds found on the above mentioned area.

Signed at Hopetown on the 1st of July 2021.

APPLICANT

ANNEXURE E: UNDERTAKING

UNDERTAKING OF J SMIT DELWERY & MORGENSON MINING (PTY) LTD ON 1 JULY 2021

It is hereby undertaken that J. Smit Delwery & Morgenson Mining (Pty) Ltd will fund the application for a prospecting right in terms of the Mineral and Petroleum Resources Development Act and to prospect for diamonds on:

- 3.1. Portion 7 of the farm Adeisestad 409
Title deed: T581/2014
Registration division: Gordonia RD
Province: Northern Cape
- 3.2. Portion 1 of the farm Kalkpunt 407
Title Deed: T658/2013
Registration Division: Gordonia Rd
Province: Northern Cape
- 3.3. Remaining extent of portion 21 of the farm UAP
Title Deed: T726/2014
Registration Division: Gordonia Rd
Province: Northern Cape
- 3.4. Portion 29 (portion of portion 21) of the farm UAP
Title Deed: T462/1990
Registration Division: Gordonia Rd
Province: Northern Cape
- 3.5. Farm 596
Title Deed: T581/2014
Registration Division: Gordonia
Province: Northern Cape

Total extent of application: 810.485 hectares

It is confirmed that there is money available for conducting the prospecting activities. This money will be made solely available for the conducting of the prospecting activities.

See the financial statements attached to the application as proof of availability of funding.

Signed at Hopetown on the 1st of July 2021

APPLICANT