



water & sanitation

**Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA**

WESTERN CAPE REGION
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Enquiry: M. Murovhi
File number: 27/2/1/E433/101/1

Steenkampskraal Monazite Mine (Pty) Ltd
P O Box 3173
SOMERSET WEST
7129

Attention: Sir/Madam

APPLICATION FOR WATER USE LICENCE APPLICATION IN TERMS OF SECTION 40 AND 41 OF THE NATIONAL WATER ACT, 1998 (ACT 36 OF 1998): TAKING WATER FROM A WATER RESOURCE: PORTION 1 OF STEENKAMPSKRAAL FARM 70

Your Water Use Licence Application, dated 13 June 2019 has reference.

Attached is the authorised Water Use Licence 06/E33D/GJA/5694 dated 13 June 2019 and the Water Use Registration Certificate as issued with regard to the above-mentioned application.

Please ensure that all conditions within the Licence are adhered to at all times.

Water use charges or waste discharge charge charges or levies will be imposed from time to time by the responsibly authority or the Department in terms of the National Water Act, 1998 (Act 36 of 1998).

If you need further information, you are welcome to contact this office.

Yours faithfully

REGIONAL HEAD: WESTERN CAPE

DATE: 29/7/19

**SIGNED BY: MASHUDU MUROVHI
DESIGNATION: ACTING DIRECTOR: INSTITUTIONAL ESTABLISHMENT**



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Private Bag X313, Pretoria, 0001, Sedibeng Building, 185 Francis Baard Street, Pretoria,
Tel: (012) 336-7500 Fax: (012) 323-4472 / (012) 326-2715

LICENCE IN TERMS OF CHAPTER 4 OF THE NATIONAL WATER ACT, 1998 (ACT NO 36 OF 1998) (THE ACT)

I, **Trevor Balzer**, in my capacity as Deputy Director-General: Special Projects in the Department of Water and Sanitation: and acting under authority of the powers sub- delegated to me by the Acting Director- General of Water and Sanitation, hereby authorizes the following water uses in respect of this licence.

SIGNED: Trevor Balzer

DATE: 18/06/2019

LICENCE NO: 06/E33D/GJA/5694
FILE NO: 27/2/1/E433/101/1

1 Licensee: **Steenkampskraal Monazite Mine (Pty) Ltd**
Postal Address: P.O. BOX 3173
SOMERSET WEST, 7129

2 Water uses

- 2.1 Section 21(a) of the Act: Taking of water from a water resource, subject to the conditions set out in Appendices I and II.
- 2.2 Section 21(g) of the Act: Disposing of waste in a manner which may detrimentally impact on a water resource, subject to the conditions as set out in Appendices I and III.
- 2.3 Section 21(j) of the Act: Removing, discharging or disposing of water found underground, subject to the conditions set out in Appendices I and IV.

3 Property in respect on which the licence is issued

- 3.1 Section 21(a) of the Act: Portion 1 of Steenkampskraal Farm No. 70.
- 3.2 Section 21(g) of the Act: Portion 1 of Steenkampskraal Farm No. 70.
- 3.3 Section 21(j) of the Act: Portion 1 of Steenkampskraal Farm No. 70.

B09003

4 Registered owner of the Property

4.1 Republic of South Africa

5 Licence and Review Period

5.1 This licence is valid for a period of ten (10) years from the date of issuance and it must be reviewed every 5 years.

6 Definitions

Any terms, words and expressions as defined in the National Water Act, 1998 (Act 36 of 1998) shall bear the same meaning when used in this licence.

"The Act" means the National Water Act, 1998 (Act 36 of 1998)

"The Department" means the Department of Water and Sanitation.

"The Regional Head" means the Chief Director: Western Cape, Department of Water and Sanitation, Private Bag X16, Sanlamhof, 7532.

"Delegated Authority" means an institution to whom a specific power or duty i.t.o. water resources management has been delegated in terms of Section 63 of the National Water Act, 1998 (Act 36 of 1998).

"Date of Issuance" means date that this license is signed by the Director-General in the Department of Water and Sanitation

7 Acronyms used in the Licence

IIWMP	Integrated Water and Waste Management Plan
RSIP	Rehabilitation Strategy and Implementation Programme
SANAS	South African National Accreditation System
SANS	South African National Standards
WUA	Water User Association
HDPE	High Density Polyethylene
DEEEP	Direct Estimation of Ecological Effect Potential
T.D.S	Total Dissolved Solids

8 Description of Activity

This licence authorizes Steenkampskraal Monazite Mine (Pty) Ltd for the;

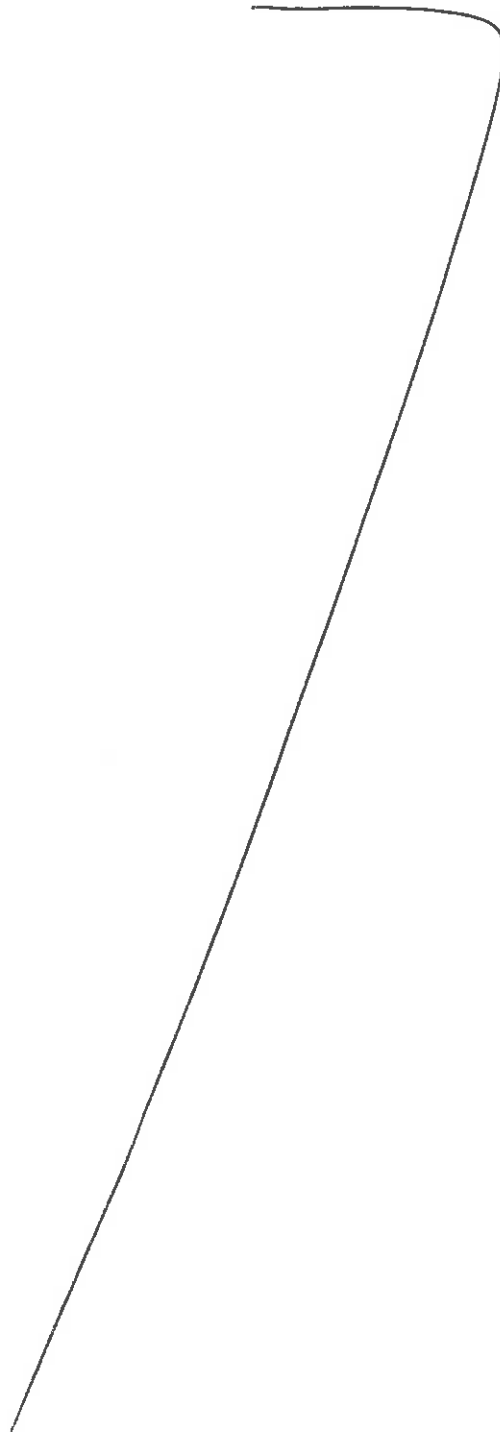
- Taking of water from underground for mining processes, dust control and domestic use for the mine staff at a maximum volume of three hundred and sixty five thousand cubic metres per annum (365 000m³/a) on Portion 1 of Farm Steenkampskraal No. 70, the Remainder of Farm Steenkampskraal No. 70, Farm Nabeeb No. 102 and Farm Brandewynskraal No. 69 under the Vanrhynsdorp Registration Division of the Western Cape Province. The geographical locations of the abstractions are shown in Table 1 below.



Table 1: The locations of the abstraction boreholes

Borehole	Coordinates	
Borehole 1(SKL-W1)	S30.96814	E18.63360
Borehole 2	S30.97389	E18.63447
Borehole 3	S30.97747	E18.62930

- Dewatering of existing mine shaft at a rate of forty three thousand two hundred cubic metres per annum (43 200 m³/a) at S30.97747 E18.62930,
- Disposal of tailings from the process plant to the residue containment ponds at a rate of one hundred and eight thousand six hundred and fifteen cubic metres per annum (108 615 m³/a) at S30.97389 E18.63447.



APPENDIX I

GENERAL CONDITIONS FOR THE LICENCE

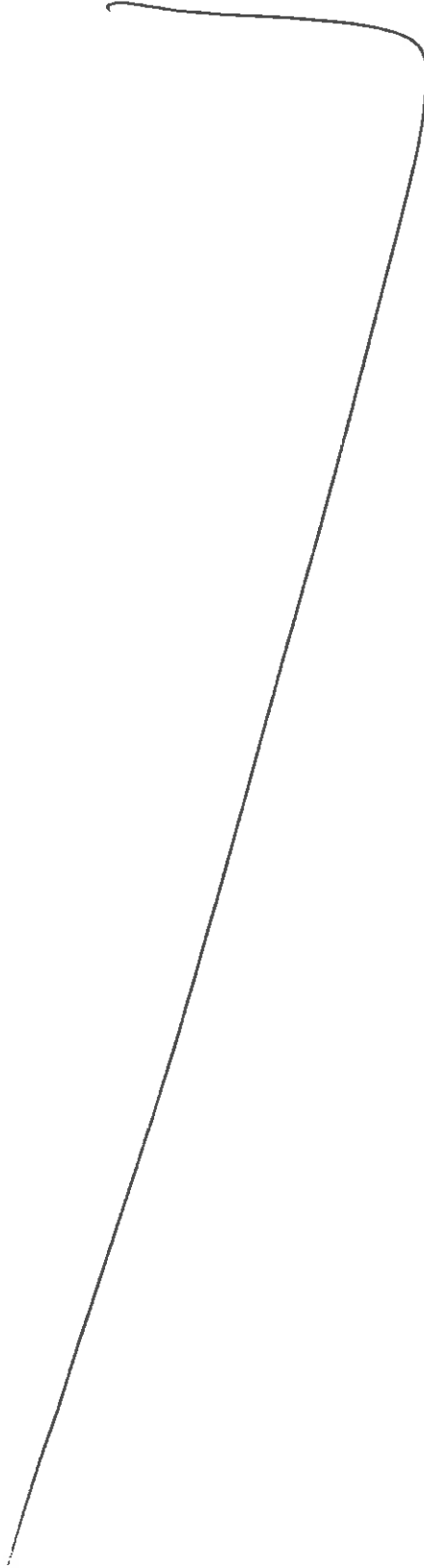
1. This licence is subject to all applicable provisions of the National Water Act, 1998 (Act 36 of 1998) and is binding on the holder thereof.
2. The responsibility for complying with the provisions of the licence is vested in the Licensee and not any other person or body.
3. The Licensee must immediately inform the Regional Head or delegated authority of any change of name, address, premises and/or legal status.
4. If the property in respect of which this licence is issued is subdivided or consolidated, the Licensee must provide full details of all changes in respect of the properties to the Regional Head or delegated authority of the Department within 60 days of the said change taking place.
5. The Department accepts no liability for any damage, loss or inconvenience, of whatever nature, suffered as a result of:
 - 5.1 Shortage of water;
 - 5.2 Inundations or flood;
 - 5.3 Siltation of the resource; and
 - 5.4 Required reserve releases.
6. Any changes to, or deviations from, the project description set out in this licence must be approved, in writing, by the Department before such changes or deviations may be effected.
7. While effect must be given to the Reserve as determined in terms of the Act, where a desktop determination of the Reserve has been used in issuance of a licence, when a comprehensive determination of the Reserve has finally been made; it shall be given effect to.
8. When compulsory licensing is implemented for the water resource in respect of which this licence was issued, the water use authorised in this licence could be subject to appropriate reduction.
9. The licence shall not be construed as exempting the Licensee from compliance with the provisions of any other applicable Act, Ordinance, Regulation or By-law.
10. The licence and amendment of this licence are also subject to all the applicable procedural requirements and other applicable provisions of the Act, as amended from time to time.
11. The Licensee shall conduct an annual internal audit on compliance with the conditions of licence. A report on the audit must be submitted to the Regional Head or delegated authority within one month of the completion of the audit.
12. The Licensee shall appoint an independent external auditor to conduct an annual audit on compliance with the conditions of this licence. The first audit must be conducted within 3 (three) months of the date this licence and a report on the audit must be submitted to the Regional Head or delegated authority within one month of completion of the report.
13. Any incident that causes or may cause water pollution must be reported to the Regional Head or delegated authority or his/her designated representative within 24 hours.



14. The licence must be produced to any authorised official of the Department on request and a copy must be filed on site while the site is operational.
15. The Licensee must work towards contributing to the need to redress the past results of gender and race discrimination, including the equitable access to the water resources and the benefits derived from the use of such resources. The Licensee must submit an annual audited B-BBEE certificate issued in accordance with the applicable BEE Codes. If the BEE status drops below Level Three Contributor, the Licence may be withdrawn.
16. Failure to comply with any condition of this licence is regarded as an offence in terms of the Act. The Department reserves the right to amend and / or add to the conditions of this licence in the light of subsequent information received.
17. The Licensee must prepare an *Integrated Water and Waste Management Plan (IWWMP)*, which must together with the *Rehabilitation Strategy and Implementation Programme (RSIP)*, be submitted to the Regional Head or delegated authority for approval within one (1) year from the date of issuance of this licence.
18. The IWWMP and RSIP shall thereafter be updated and submitted to the Regional Head or delegated authority for approval, annually.
19. The Licensee must, at least 180 days prior to the intended closure of any facility, or any portion thereof, notify the Regional Head or delegated authority of such intention and submit any final amendments to the IWWMP and RSIP as well as a final *ClosurePlan*, for approval.
20. The Licensee shall make full financial provision for all investigations, designs, construction, operation and maintenance for a water treatment plant should it become a requirement as a long-term water management strategy.
21. The Licensee must establish a Monitoring Committee within (3) three months of the date this licence being issued to guide and oversee the implementation of the monitoring programme and adherence to licence conditions. The Monitoring Committee shall include representatives of at least the following organisations and groups:
 - 21.1. The Department of Water & Sanitation,
 - 21.2. The Catchment Management Agency,
 - 21.3. The Department of Environmental Affairs and Development Planning
 - 21.4. The Department of Mineral Resources
 - 21.5. The Matzikama Municipality
 - 21.6. Cape Nature
22. Flow meters and other recording devices shall be maintained in a sound state of repair and calibrated by a competent person at intervals of not more than two years. Calibration certificates must be available for inspection by the Regional Head or delegated authority or his representative upon request.
23. Due to the radioactive thorium and radium stored at the mine it is required that monitoring shall continue for at least five years after these stockpiles have been removed from the site for storage at a licensed high level radioactive waste repository or sold for use in nuclear power stations.
24. The Licensee shall apply for authorization for the construction of any sand dams for the purpose of enhancing recharge.



25. The information submitted with regard to the rehabilitation plan should be adhered to. Should there be any deviation from the rehabilitation programme the Department must be notified immediately.
26. The licence must be produced to any authorised official of the Department on request and a copy must be filed on site while the site is operational.



APPENDIX II

Section 21 (a) of the Act: Taking water from a water resource

1. This licence authorises the taking of a combined maximum quantity of one thousand cubic metres of water per day from three boreholes located at Portion 1 of Steenkampskraal Farm No. 70.
2. The quantity of water authorised to be taken in terms of this licence must not be exceeded without prior authorisation by the Responsible Authority.
3. This licence does not imply any guarantee on the availability of the allocated quantity of water and the quality thereof at present or at any time in the future.
4. The abovementioned volume may be reduced when the licence is reviewed.
5. The Licensee shall continually investigate new technologies and install appropriate water efficient devices or apply techniques for the re-use of water containing wasteto conserve water at all times.
6. The abstraction points must not be changed. Should the need arise to do so an approval must be obtained from the Department prior to changing it.
7. A competent person (Geohydrologists) shall be appointed by the Licensee within 60 days after the date of issuance of this licence to submit a monitoring programme for approval by the Department.
8. This programme shall include but not be limited to the monthly measurements for each production borehole of
 - 8.1 the quantity of groundwater taken,
 - 8.2 groundwater levels, and
 - 8.3 groundwater qualityMonthly monitoring of the rainfall for the study area shall also be included. An annual report shall be submitted to the Department not later than 3 months after the year term ended.
9. The programme shall include monitoring boreholes put in place at extended distances from the production boreholes, to provide early warnings of potential impacts on other water users.
10. All water taken from the resource shall be measured as follows:
 - 10.1 The daily quantity of water taken from each of the respective sources must be metered or gauged and the total recorded at the last day of each month;
 - 10.2 The production boreholes must be installed with a piezometer (dipper tube), flow meter and take off tap in the riser pipe for groundwater sampling by the Licensee and/or the Department and/or its delegated authority and/or person; and
 - 10.3 The Licensee shall keep record of all water taken and a copy of the records shall be forwarded to the Regional Head on or before 25 January and 25 July of each year.
11. Water samples must be collected at production- boreholes on a quarterly basis and submitted to a SANAS accredited laboratory for analysis of the macro- and trace elements as well as radionuclide activity concentrations. This quarterly interval will be revised if a substantial deterioration in the quality of the initial groundwater quality is detected.

12. The Licensee shall ensure that thresholds of potential concern shall be identified by a competent person (Geohydrologists) and that operational recommendations within best practises are provided.
13. The Licensee must ensure that the water supply for domestic use is suitable for human consumption according to the variables specified in SANS 241:2011 (Drinking water quality specifications).
14. No water taken may be pumped, stored, diverted, or alienated for purposes other than intended in this licence, without written approval by the Regional Head or his/her delegated nominee.
15. Dedicated monitoring personnel need to ensure that all monitoring equipment are in working order and maintained to ensure the consistency of data collection which ultimately enables efficient management of the groundwater resource.
16. Membership of the Licensee to the Water User Association (WUA) is compulsory when the property where water is abstracted or the water use(s) takes place falls within the area of a WUA and rules, regulations and/or water management stipulations of the board must be adhered to.
17. The Licensee shall be responsible for any water use charges or levies, which may be imposed from time to time by the Department or responsible authority in terms of the Department's Raw Water Pricing Strategy as amended or the water user association in terms of their constitution.
18. If the use of groundwater in terms of this License causes decreased groundwater availability, due to decreasing groundwater levels or degradation of the groundwater quality, to any other lawful groundwater users, alternative water supply should be made available to the affected party.
19. **Special licence conditions**
 - 19.1 Monitoring shall continue post closure of the mine for at least 5 years on a six-monthly basis to establish the effects of closure on the groundwater level and quality. The data must be evaluated on an annual basis by a geohydrologist and a report on the results and findings shall be submitted to the Regional Head.
 - 19.2 Should the groundwater resources show signs of depletion, alternative supply boreholes should be drilled on other regional faults (through negotiations with the land owners and with the permission of the Department) to augment supply to the mine allowing for a reduction of pumping rate from the supply holes and the mine itself. The permission of the Regional Head is required for the establishment of new production boreholes. Any new production boreholes are to be registered with the Department.
 - 19.3 The monitoring programme will have to be adapted and possible new monitoring boreholes should be drilled in the case of new and/or replacing production boreholes to evaluate the impact of the operation on the groundwater.
 - 19.4 To mitigate against contaminants percolating to the water table along the borehole casings and down the boreholes, all existing boreholes, including exploration boreholes, must be sealed with lockable caps and concrete collars installed around the standpipes. Any boreholes occurring within the footprint of the plant, rock dump, tailings dams and evaporation ponds must be backfilled with slurry of bentonite and Portland cement.
 - 19.5 The Licensee shall update and recalibrate the numerical model after two years of operation, after sufficient data is collected.

APPENDIX III

Section 21 (g) of the Act: Disposing of waste in a manner which may detrimentally impact on a water resource

1. Construction and Operation

- 1.1. The Licensee shall carry out and complete all the activities, including the construction and operation of the mine according to the Environmental Management Programme and Steenkampskraal Water Use Licence Application Technical Report and according to the final plans as approved by the Regional Head or delegated authority.
- 1.2. The construction of the residue containment ponds must be carried out under the supervision of a professional Civil Engineer, registered under the Engineering Profession of South Africa Act, 1990 (Act 114 of 1990), as approved by the designer.
- 1.3. Within 30 days after the completion of the activities referred here in accordance with the relevant provisions of this licence, the Licensee shall in writing under reference 27/2/1/E433/101/1 inform the Regional Head or delegated authority thereof. This shall be accompanied by a signature of approval from the designer referred to above that the construction was done according to the design plans referred to in the Report.
- 1.4. The Licensee must ensure that the disposal of the slimes, tailings and effluent and the operation and maintenance of the system are done according to the provisions in the Steenkampskraal Water Use Licence Application Technical Report.
- 1.5. The Licensee shall as well submit a set of as-built drawings to the Regional Head or delegated authority after the completion of the residue containment ponds.
- 1.6. The residue containment ponds shall be operated and maintained to have a minimum freeboard of 0.8 metres above full supply level and all other water systems related thereto shall be operated in such a manner that it is at all times capable of handling the 1:50 year flood-event on top of its mean operating level.
- 1.7. The Licensee shall use acknowledged methods for sampling and the date, time and sampler must be indicated for each sample.
- 1.8. Acceptable construction, maintenance and operational practices must be followed to ensure the consistent, effective and safe performance of any wastewater disposal system or wastewater storage dam.

2. Storage of Water Containing Waste

- 2.1. The Licensee is authorised to dispose a maximum quantity of 110 000 cubic meters (m³) of chemically inert but slightly radioactive tailings per year into the residue containment ponds on the farm Steenkampskraal No 70, Portion 1.
- 2.2. The residue containment ponds should be constructed with a double HDPE liner system with a flow mat between the liners and a gravity outlet to an inspection chamber for monitoring any leachate through the upper layer. Minimum thicknesses of bottom HDPE layer are 1,0mm and the top layer 2,0mm respectively.
- 2.3. A separate mine waste water disposal dam should be constructed. Refer to APPENDIX IV paragraph 2.3.
- 2.4. Evaporation ponds constructed for the effluent and wash water from the chemical processing plant shall be constructed with a double HDPE liner system with a flow mat between the liners and a gravity outlet to an inspection chamber for monitoring any

leachate through the upper layer. Minimum thicknesses of bottom HDPE layer are 1,0mm and the top layer 2,0mm respectively.

3. Quality of Waste Water to be Disposed

3.1. No waste water should leach from the residue containment ponds.

4. Monitoring

4.1. The Licensee must ensure the establishment of monitoring programmes to monitor the quantity and quality of the wastewater prior to storage or disposal, as follows –

4.1.1. For the storage of wastewater, the quantity must be recorded monthly; or

4.1.2. For the disposal of wastewater, the quantity must be gauged or metered and recorded monthly.

4.2. The Licensee shall–

4.2.1. Ensure the establishment of any additional monitoring programmes; and

4.2.2. Appoint a competent person to assess the water use measurements made in terms of this license, and to submit the findings to the responsible authority for evaluation.

4.3. Monitoring of the physical characteristics of the water (EC and pH) must be done once every month and recorded..

4.4. Water samples must be collect at established monitoring points on a quarterly basis and submitted to a SANAS accredited laboratory for analysis of the macro- and trace elements as well as radionuclide activity concentrations.

4.5. Subject to subparagraph 4.1, the Licensee shall keep a written record of the following wastewater storage or wastewater disposal and related activities –

4.5.1. the location of the storage dam or wastewater disposal site;

4.5.2. the quantity of wastewater stored or disposed of or re-used (must be gauged or metered and recorded monthly.) ;

4.5.3. the quality of wastewater stored or disposed of, where applicable;

4.5.4. details of the monitoring programme;

4.5.5. details of failures and malfunctions of any wastewater disposal system or wastewater storage dam that the registered user is responsible for, and

such information must be made available upon written request to the responsible authority and report on it in the annual report to the Department.

4.6. The Licensee shall monitor ground- and surface water resources to determine the impact of the facility and other activities on the water quality by taking samples at the established monitoring points. The boreholes should be tested for potential pollutants (bi-products of mining ore) as a result of tailings dams and mining operations.

4.7. Groundwater quality monitoring boreholes should be drilled in the vicinity of potential pollution sources (in example, but not limited to the consolidated tailings dam, Residue Containment Ponds, Waste Management Facility, and Pollution Control Dam.

4.8. Replacement monitoring boreholes should be drilled if any of the boreholes become unsuitable for monitoring due to unforeseen circumstances.

- 4.8.1. All information on newly drilled boreholes (borehole construction, geological logs, basic information etc.) should be recorded, captured and sent to the Department and be available to the Department on request.
- 4.9. The date, time and monitoring point in respect of each sample taken shall be recorded together with the results of the analysis.
- 4.10. A written record of all the changes to the monitoring programme should be kept and submitted to the Regional Head or delegated authority as soon as possible. The Regional Head or delegated authority could review and comment on the changes.
- 4.11. Toxicity testing to be performed on the tailings disposal complex monitoring boreholes on a quarterly basis in order to determine the risks to the receiving environment. The data gathered in the investigation must be reported annually during March of each year to the Regional Head or delegated authority. If any toxicity levels as specified is exceeded, the Licensee must institute an investigation to determine the cause of toxicity.
- 4.12. Toxicity testing must be conducted quarterly on the wastewater stream from the tailing disposal compartments when returned back to the mine for use as process water.
- 4.13. The Licensee shall participate in any initiative such as Direct Estimation of Ecological Effect Potential (DEEEP) to determine the toxicity of complex tailings waste discharges. Both acute and chronic toxicity must be addressed and at least three taxonomic groups must be present when toxicity tests are performed.
- 4.14. Analysis shall be carried out in accordance with methods prescribed by and obtainable from the Standards South Africa (SANS) (formerly known as South African Bureau of Standards - SABS), in terms of the Standards Act, 1982 (Act 30 of 1982).
- 4.15. The methods of analysis shall not be changed without prior notification to and written approval by the Regional Head or delegated authority.
- 4.16. Monitoring shall continue post closure of the mine for at least 5 years on a six-monthly basis to establish the effects of closure on the groundwater level and quality. The data must be evaluated on an annual basis by a geohydrologist and a report on the results and findings shall be submitted to the Regional Head or delegated authority.
- 4.17. The Licensee shall update and recalibrate the numerical model after two years of operation, after sufficient data is collected and a report on the results and findings shall be submitted to the Regional Head or delegated authority.

5. Water Resource Protection

- 5.1. Groundwater quality is generally controlled by aquifer lithology and geochemistry.

A monitoring committee shall be established within 60 days from issuance of the license to determine threshold values for several monitored parameters (e.g. water level, EC) and monitoring boreholes, and shall be agreed upon to ensure the sustainability of the operation. The water quality of the Reserve shall be considered for guidance in this respect.

- 5.2. No disposal of any residue or substance which causes or is likely to cause pollution of a water resource, in the workings of any underground or opencast mine excavation, prospecting diggings, pit or any other excavation.
- 5.3. All reasonable measures shall be taken to prevent for mechanical -, electrical - or operational failures and malfunctions of any wastewater disposal system or wastewater storage dam and to prevent water containing waste or any substance which causes or is likely to cause pollution of a water resource from entering any water resource, either by

natural flow or by seepage, and must retain or collect such substance of watercontaining waste for use, re-use, evaporation or for purification and disposal in terms of the Act.

6. Reporting

- 6.1. The Licensee shall keep a written record of the following wastewater storage or wastewater disposal and related activities –
- 6.1.1. the location of the storage dam or wastewater disposal site;
 - 6.1.2. the quantity of wastewater stored or disposed of or re-used (must be gauged or metered and recorded monthly.) ;
 - 6.1.3. the quality of wastewater stored or disposed of, where applicable;
 - 6.1.4. details of the monitoring programme;
 - 6.1.5. details of failures and malfunctions of any wastewater disposal system or wastewater storage dam that the registered user is responsible for, and
- such information must be made available upon written request to the responsible authority.
- 6.2. The Licensee shall update the water balance annually and calculate the loads of waste emanating from the activities. The Licensee shall determine the contribution of their activities to the mass balance for the water resource and must furthermore co-operate with other water users in the catchment to determine the mass balance for the water resource reserve compliance point.
- 6.3. The Licensee shall submit the results of analysis for the monitoring requirements to the Regional Head or delegated authority on an annual basis under Reference number 27/2/1/E433/101/1.

7. Storm Water Management

- 7.1. Stormwater leaving the Licensee's premises shall in no way be contaminated by any substance, whether such substance is a solid, liquid, vapour or gas or a combination thereof which is produced, used, stored, dumped or spilled on the premises.
- 7.2. Increase runoff due to vegetation clearance and/or soil compaction must be managed, and steps must be taken to ensure that storm water does not lead to bank instability and excessive levels of silt entering the stream.
- 7.3. Storm-water shall be diverted from the mine complex site and roads and shall be managed in such a manner as to disperse runoff and concentrating the storm-water flow.
- 7.4. Where necessary works must be constructed to attenuate the velocity of any storm-water discharge and to protect the banks of the affected watercourses.
- 7.5. Storm-water control works must be constructed, operated and maintained in a sustainable manner throughout the impacted area.
- 7.6. All stormwater that would naturally run across the pollution areas shall be diverted via channels and trapezoidal drains designed to contain the 1:50 year flood.
- 7.7. The polluted storm water system shall be designed and implemented to provide suitable routing and pumping capacity for contaminated storm water from the individual facilities to the respective storm water dams.

8. Plant Areas and Conveyances

- 8.1. Pollution caused by spills from the conveyances must be prevented through proper maintenance and effective protective measures especially near all stream crossings.
- 8.2. All reagent storage tanks and reaction units must be supplied with a bunded area built to the capacity of the facility and provided with sumps and pumps to return the spilled material back into the system. The system shall be maintained in a state of good repair and standby pumps must be provided.
- 8.3. Any hazardous substances must be handled according to the relevant legislation relating to the transport, storage and use of the substance.
- 8.4. Any access roads or temporary crossings must be:
 - 8.4.1. non-erosive, structurally stable and shall not induce any flooding or safety hazard and
 - 8.4.2. be repaired immediately to prevent further damage.

9. Access

- 9.1. All installations must be accessible for inspections by the Department. All personnel must receive safety induction by the Mine before any inspection.
- 9.2. Notices prohibiting unauthorised persons from entering the controlled access areas as well as internationally acceptable signs indicating the risks involved in case of an unauthorised entry must be displayed along the boundary fence of these areas.

10. Contingencies

- 10.1. Accurate and up-to-date records shall be kept of all system malfunctions resulting in non-compliance with the requirements of this licence. The records shall be available for inspection by the Regional Head or delegated authority upon request. Such malfunctions shall be tabulated under the following headings with a full explanation of all the contributory circumstances:
 - 10.1.1. operating errors
 - 10.1.2. mechanical failures (including design, installation or maintenance)
 - 10.1.3. environmental factors (e.g. flood)
 - 10.1.4. loss of supply services (e.g. power failure) and
 - 10.1.5. other causes.
- 10.2. The Licensee must, within 24 hours, notify the Regional Head or delegated authority of the occurrence or potential occurrence of any incident which has the potential to cause, or has caused water pollution, pollution of the environment, health risks or which is a contravention of the licence conditions furnishing information regarding –
 - 10.2.1. the date and time of the incident;
 - 10.2.2. a description of the incident;
 - 10.2.3. the source of the pollution or potential pollution;
 - 10.2.4. the impact or potential impact on the water resource and the relevant water users;
and

10.2.5. remedial action taken or to be taken by the person in control of the mine or activity to remedy the effects of the incident

10.3. The Licensee must, within 14 days, or a shorter period of time, as specified by the Regional Head or delegated authority, from the occurrence or detection of any incident referred above, submit an action plan, which must include a detailed time schedule, to the satisfaction of the Regional Head or delegated authority of measures taken to:

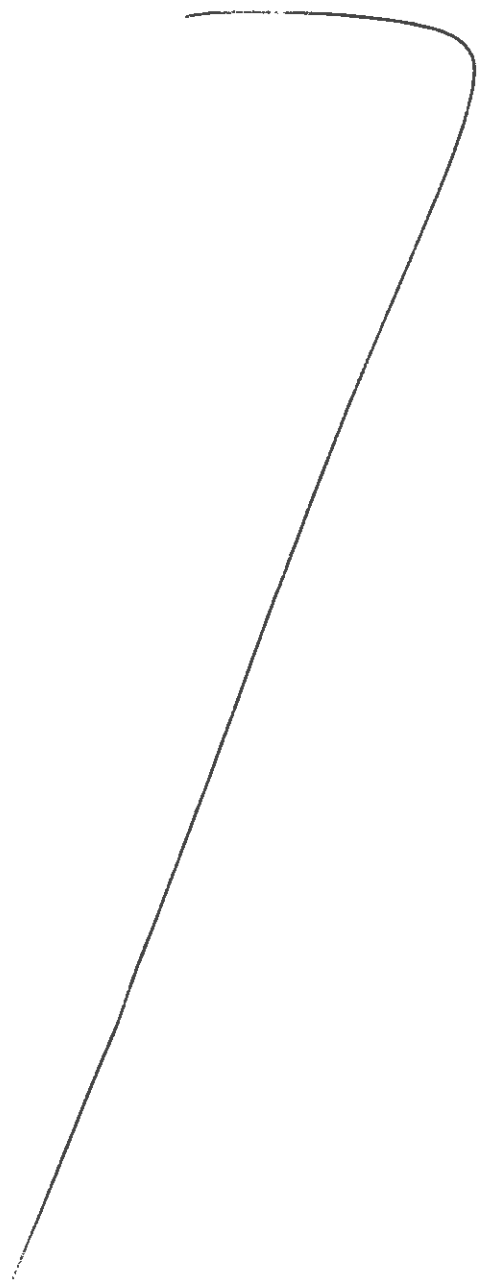
10.3.1. correct the impacts resulting from the incident

10.3.2. prevent the incident from causing any further impacts and

10.3.3. prevent a recurrence of a similar incident.

11. Special Licence Conditions

11.1. If the disposing of waste in terms of this License detrimentally impacts on a water resource and the cause of that impact cannot be determined, mitigated and prevented, this license becomes immediately subjected to review.



APPENDIX IV

Section 21 (j) of the Act: Removing, discharging or disposing of water found underground

1. Construction and Operation

- 1.1. The Licensee shall carry out and complete all the activities, including the construction and operation of the mine according to the Environmental Management Programme and Steenkampskraal Water Use Licence Application Technical Report and according to the final plans as approved by the Regional Head or delegated authority.
- 1.2. The construction of the mine waste water disposal dam must be carried out under the supervision of a professional Civil Engineer, registered under the Engineering Profession of South Africa Act, 1990 (Act 114 of 1990), as approved by the designer.
- 1.3. Within 30 days after the completion of the activities referred here in accordance with the relevant provisions of this licence, the Licensee shall in writing under reference 27/2/1/E433/101/1 inform the Regional Head or delegated authority thereof. This shall be accompanied by a signature of approval from the designer referred to above that the construction was done according to the design plans referred to in the Report.
- 1.4. The Licensee shall as well submit a set of as-built drawings to the Regional Head or delegated authority after the completion of the mine waste water disposal dam.
- 1.5. The mine waste water disposal dam shall be operated and maintained to have a minimum freeboard of 0.8 metres above full supply level and all other water systems related thereto shall be operated in such a manner that it is at all times capable of handling the 1:50 year flood-event on top of its mean operating level.
- 1.6. The Licensee shall use acknowledged methods for sampling and the date, time and sampler must be indicated for each sample.
- 1.7. Daily records shall be kept of the volume of water pumped from the mine shaft(s).
- 1.8. Flow metering devices shall be maintained in a sound state of repair and calibrated by a competent person at intervals of not more than once in two years. Calibration certificates shall be available for inspection by the Regional Director or his representative upon request.

2. Storage and Water Containing Waste

- 2.1. The Licensee is authorised to dispose a maximum quantity of 50 000 cubic meters per year (m^3/a) of water during dewatering the mine which may be contaminated with radioactive constituents, metals, and suspended and dissolved solids, into the waste water disposal dam on the farm Steenkampskraal No 70, Portion 1. If more storage is required for dewatering, the applicant shall inform the Regional Director or the delegated authority.
- 2.2. The waste water disposal dam should be constructed with a double HDPE liner system with a flow mat between the liners and a gravity outlet to an inspection chamber for monitoring any leachate through the upper layer. Minimum thicknesses of bottom HDPE layer are 1,0mm and the top layer 2,0mm respectively.
- 2.3. The mine waste water disposal dam should be constructed with a capacity to receive all waste water from the mine shaft and allow water to evaporate and ultimately the remaining sediment to be capped with clayey grit between 1-2m thick and then covered with topsoil cleared for the dam construction. This waste water dam shall be lined with a minimum 1mm thick HDPE liner system constructed on the in situ compacted clayey grit.

3. Quality of Waste Water



No waste water should leach from the mine waste water disposal dam.

4. Monitoring

- 4.1. The Licensee shall ensure the establishment of monitoring programmes to monitor the quantity and quality of water removed from underground in the following manner:
 - 4.1.1. The quantity of water removed from underground must be metered and recorded daily; and
 - 4.1.2. The physical characteristics (EC, pH and temperature) of the water must be monitored on a monthly basis by
 - 4.1.3. The quality of water removed from underground must be monitored quarterly by taking a grab sample at the point at which the water is removed, which must be analysed by a SANAS accredited laboratory for macro- and trace elements as well as radionuclide activity concentrations.
- 4.2. A written record for at least 10 years of the following information, which must be made available upon written request to the responsible authority regarding the removal of water found underground and related activities:
 - 4.2.1. The location of the removal of water found underground must be demarcated on a suitable scale map, which must be updated;
 - 4.2.2. Details of the monitoring programme including –
 - 4.2.2.1. The quantity of water removed underground as measured under subparagraph (4.2);
 - 4.2.2.2. The results of the analysis of the quality of water removed from underground as obtained from the laboratory for the samples taken in accordance with subparagraph 4.2.2;
 - 4.2.3. Details of failure and malfunctions in the underground water removal system, and details of the effects of (if any), as well as details of measures taken to prevent such failures and malfunctions in the future.
- 4.3. The date, time and monitoring point in respect of each sample taken shall be recorded together with the results of the analysis.
- 4.4. Monitoring points shall not be changed prior to notification to and written approval by the Regional Head or delegated authority.
- 4.5. Toxicity testing to be performed on the tailings disposal complex monitoring boreholes on a quarterly basis in order to determine the risks to the receiving environment. The data gathered in the investigation must be reported annually during March of each year to the Regional Head or delegated authority. If any toxicity levels as specified is exceeded, the Licensee must institute an investigation to determine the cause of toxicity.
- 4.6. Toxicity testing must be conducted quarterly on the wastewater stream from the tailing disposal compartments when returned back to the mine for use as process water.
- 4.7. The Licensee shall participate in any initiative such as Direct Estimation of Ecological Effect Potential (DEEEP) to determine the toxicity of complex tailings waste discharges. Both acute and chronic toxicity must be addressed and at least three taxonomic groups must be present when toxicity tests are performed.



- 4.8. Analysis shall be carried out in accordance with methods prescribed by and obtainable from the Standards South Africa (SANS) (formerly known as South African Bureau of Standards - SABS), in terms of the Standards Act, 1982 (Act 30 of 1982).
- 4.9. The methods of analysis shall not be changed without prior notification to and written approval by the Regional Head or delegated authority.

5. Water Resource Protection

- 5.1. Groundwater quality is generally controlled by aquifer lithology and geochemistry.

A monitoring committee shall be established within 60 days from issuance of the license to determine threshold values for several monitored parameters (e.g. water level, EC) and monitoring boreholes, and shall be agreed upon to ensure the sustainability of the operation. The water quality of the Reserve shall be considered for guidance in this respect.

- 5.2. No disposal of any residue or substance which causes or is likely to cause pollution of a water resource, in the workings of any underground or opencast mine excavation, prospecting, diggings, pit or any other excavation.
- 5.3. All reasonable measures must be taken to prevent for mechanical -, electrical - or operational failures and malfunctions of any wastewater disposal system or wastewater storage dam and to prevent water containing waste or any substance which causes or is likely to cause pollution of a water resource from entering any water resource, either by natural flow or by seepage, and must retain or collect such substance of water containing waste for use, re-use, evaporation or for purification and disposal in terms of the Act.
- 5.4. The surface of the mine workings should be dusted with lime powder upon mine closure to ensure that groundwater conditions remain alkaline, inhibiting the formation of Sulphuric acid through oxidation of the Chalcopyrite, thereby reducing the further decay of Sulphides.
- 5.5. The surface excavation should be sealed once mining has been ruminated therefore preventing the ingress of oxygen and rainwater thereby slowing the process of oxidation of sulphides which is responsible for high Total Dissolved Solids (T.D.S) and Sulphate levels in the mine groundwater.

6. Reporting

- 6.1. The Licensee shall update the water balance annually and calculate the loads of waste emanating from the activities. The Licensee shall determine the contribution of their activities to the mass balance for the water resource and must furthermore co-operate with other water users in the catchment to determine the mass balance for the water resource reserve compliance point.
- 6.2. The Licensee shall submit the results of analysis for the monitoring requirements to the Regional Head or delegated authority on a quarterly basis under Reference number 27/2/1/E433/101/1.

7. Storm Water Management

- 7.1. Stormwater leaving the Licensee's premises shall in no way be contaminated by any substance, whether such substance is a solid, liquid, vapour or gas or a combination thereof which is produced, used, stored, dumped or spilled on the premises.
- 7.2. Increase runoff due to vegetation clearance and/or soil compaction must be managed, and steps must be taken to ensure that storm water does not lead to bank instability and excessive levels of silt entering the stream.



- 7.3. Stormwater shall be diverted from the mine complex site and roads and shall be managed in such a manner as to disperse runoff and concentrating the stormwater flow.
- 7.4. Where necessary works must be constructed to attenuate the velocity of any storm-water discharge and to protect the banks of the affected watercourses.
- 7.5. All stormwater that would naturally run across the pollution areas shall be diverted via channels and trapezoidal drains designed to contain the 1:50 year flood.
- 7.6. All storm water that would naturally run across the pollution areas shall be diverted via channels and trapezoidal drains designed to contain the 1:50 year flood.
- 7.7. The polluted storm water system shall be designed and implemented to provide suitable routing and pumping capacity for contaminated storm water from the individual facilities to the respective storm water dams.

8. Plant Areas and Conveyances

- 8.1. Pollution caused by spills from the conveyances must be prevented through proper maintenance and effective protective measures especially near all stream crossings.
- 8.2. Any access roads or temporary crossings must be:
 - 8.2.1. non-erosive, structurally stable and shall not induce any flooding or safety hazard and
 - 8.2.2. be repaired immediately to prevent further damage.

9. Access

- 9.1. All installations must be accessible for inspections by the Department. All personnel must receive safety induction by the Mine before any inspection.
- 9.2. Notices prohibiting unauthorised persons from entering the controlled access areas as well as internationally acceptable signs indicating the risks involved in case of an unauthorised entry must be displayed along the boundary fence of these areas.

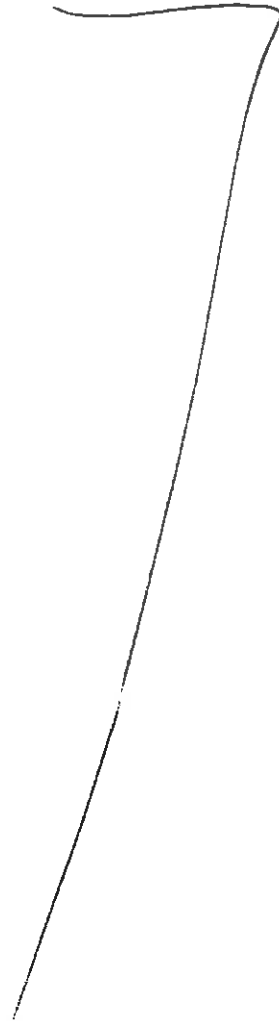
10. Contingencies

- 10.1. Accurate and up-to-date records shall be kept of all system malfunctions resulting in non-compliance with the requirements of this licence. The records shall be available for inspection by the Regional Head or delegated authority upon request. Such malfunctions shall be tabulated under the following headings with a full explanation of all the contributory circumstances:
 - 10.1.1. operating errors
 - 10.1.2. mechanical failures (including design, installation or maintenance)
 - 10.1.3. environmental factors (e.g. flood)
 - 10.1.4. loss of supply services (e.g. power failure) and
 - 10.1.5. other causes.
- 10.2. The Licensee must, within 24 hours, notify the Regional Head or delegated authority of the occurrence or potential occurrence of any incident which has the potential to cause, or has caused water pollution, pollution of the environment, health risks or which is a contravention of the licence conditions, furnishing information regarding



- 10.2.1. the date and time of the incident;
 - 10.2.2. a description of the incident;
 - 10.2.3. the source of the pollution or potential pollution;
 - 10.2.4. the impact or potential impact on the water resource and the relevant water users;
and
 - 10.2.5. remedial action taken or to be taken by the person in control of the mine or activity to
remedy the effects of the incident
- 10.3. The Licensee must, within 14 days, or a shorter period of time, as specified by the Regional Head or delegated authority, from the occurrence or detection of any incident referred above, submit an action plan, which must include a detailed time schedule, to the satisfaction of the Regional Head or delegated authority of measures taken to:
- 10.3.1. correct the impacts resulting from the incident
 - 10.3.2. prevent the incident from causing any further impacts and
 - 10.3.3. prevent a recurrence of a similar incident.

[End of Licence]





water & sanitation

Department
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

National Register of Water Use Registration Record 22143342

Water Use Registration Record 22143342 is issued in terms of the regulations requiring that a Water Use be registered, promulgated under Section 26(1)(c) of the National Water Act(Act 36 of 1998) to:

Applicant

Applicant Type: COMPANY
Name: STEENKAMPSKRAAL MONAZITE MINE (PTY) LTD
Enterprise Type: PRIVATE COMPANY
Business Registration Number: 1996/005582/07
Postal Address: PO BOX 3173
SOMERSET WEST
7129

VAT Registration Number:

Water Management Area

Name: BERG-OLIFANTS

Register Status

Status: ACTIVE

Water Uses

See attached Annexure(s)

Water Use No.	Water Use	Volume	Volume Start Date	Volume End Date
1	21(a)	365 000 CUBIC METRES PER YEAR	2019/07/01	
2	21(g)		2019/07/01	
3	21(j)		2019/07/01	




water & sanitation

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Office: Western Cape Office Regional Office: Western Cape Region

DEPT. VAN WATERWESE CHIEF DIRECTOR WARMS 23 JUL 2019
PRIVATE BAG X 16, SANLAMHOF, 7532 52 VOODTREKKER ROAD, BELLVILLE 7532 DEPT. OF WATER AFFAIRS

DISCLAIMER :

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National Register of Water Use Registration Record 22143342

Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water Use Identification

Register Number: 22143342
 Water Use Number: 1
 Water Use Start Date: 2019/07/01
 Water Use Status Date: 2019/07/08
 Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 22143342/1
 Licence Status: APPROVED
 Licence Expiry Date: 2029/06/30
 Review Period: 5 YEARS

RLA Details

RLA Business Unit: BERG - OLIFANTS - BELLVILLE
 RLA Reference: 06/E33D/GJA/5694

Lawfulness Authentication

Finding: LAWFUL
 Finding Date: 2019/06/13
 Finding Reason: LICENCE

Finding Confirmed: YES

Water Use Details

Water Use Sector(s)(i.e. Purpose(s) of Water Use): MINING
 Source Type: BOREHOLE
 Water Resource Name: QUATERNARY DRAINAGE REGION E33D
 Point of Abstraction: Latitude 30.96814° south Longitude 18.6336° east
 Datum Type: WGS-84
 Quaternary Drainage Region: E33D

Registered Volumes

Start Date	End Date	Registered Volume (m³)	Time Interval
2019/07/01		365000	PER YEAR

National Register of Water Use Registration Record 22143342

Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water Use Identification

Register Number: 22143342
Water Use Number: 1
Water Use Start Date: 2019/07/01
Water Use Status Date: 2019/07/08
Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: STEENKAMPS KRAAL
Property Number: 70
Portion of Property: 1
SG Cadastral Code: C07800000000007000001
Deeds Office: CAPE TOWN
Registration Division: VANRHYNSDORP
Registration Division Province: WESTERN CAPE
Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2019/07/01	

National Register of Water Use Registration Record 22143342

Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water Use Identification

Register Number: 22143342
Water Use Number: 1
Water Use Start Date: 2019/07/01
Water Use Status Date: 2019/07/08
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National Register of Water Use Registration Record 22143342

Disposing of waste in a manner which may detrimentally impact on a water resource in terms of Section 21(g) of the National Water Act

Water Use Identification

Register Number: 22143342
 Water Use Number: 2
 Water Use Start Date: 2019/07/01
 Water Use Status Date: 2019/07/08
 Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 22143342/2
 Licence Status: APPROVED
 Licence Expiry Date: 2029/06/30
 Review Period: 5 YEARS

RLA Details

RLA Business Unit: BERG - OLIFANTS - BELLVILLE
 RLA Reference: 06/E33D/GJA/5694

Lawfulness Authentication

Finding: LAWFUL
 Finding Date: 2019/06/13
 Finding Reason: LICENCE

Finding Confirmed: YES

Source Details

Waste Generating Sector: MINING - OTHER

Description of Waste

Nature of Wastewater:

- Wastewater containing > 70% water by mass
- Wastewater with an EC of < 500 mS/m

Composition of Wastewater:

Description of the activity that generates the waste: EACH YEAR APPROXIMATELY 65000 TONNES OF CHEMICALLY INERT BUT SLIGHTLY RADIOACTIVE ESTIMATED UP TO 50BQ/G TAILING FROM THE PROCESS PLANT WILL BE DEPOSITED IN 20 SMALL RESIDUE CONTAINMENT PONDS RCPS

Registered Discharge Loads

Quality Variable	Start Date	End Date	Load (kg)	Time Interval	Maximum Load (kg)	Time Interval
REFER GA: DISPOSAL OF MINE WASTE OR RESIDUE	2019/07/01		0.00	PER YEAR	0.00	PER YEAR

Pathways/Management Practices

Description of Waste Discharge Patterns

Total volume of waste discharged per year: 65000 CUBIC METRES
 Maximum volume of waste discharged on any day: 200 CUBIC METRES
 Monthly Discharge Expressed in: CUBIC METRES

National Register of Water Use Registration Record 22143342

Disposing of waste in a manner which may detrimentally impact on a water resource in terms of Section 21(g) of the National Water Act

Water Use Identification

Register Number: 22143342
 Water Use Number: 2
 Water Use Start Date: 2019/07/01
 Water Use Status Date: 2019/07/08
 Water Use Status: REGISTERED

Month	Minimum	Average	Maximum
JANUARY	2200	5416	5500
FEBRUARY	2200	5416	5500
MARCH	2200	5416	5500
APRIL	2200	5416	5500
MAY	2200	5416	5500
JUNE	2200	5416	5500
JULY	2200	5416	5500
AUGUST	2200	5416	5500
SEPTEMBER	2200	5416	5500
OCTOBER	2200	5416	5500
NOVEMBER	2200	5416	5500
DECEMBER	2200	5416	5500

Receiving Environment/Receptor

Description of Nearby Water Resources

Surface Water Resource

Type of Surface Water Resource: OTHER EPHEMERAL RIVER
 Name/Description of the Water Resource: NABEEP RIVER
 Distance to Water Resource: 200 METRES

Groundwater Resource

Type of Groundwater Resource: BOREHOLE
 Name/Description of Resource: GROUNDWATER RESOURCE PRIVATE BOREHOLE
 Distance to Water Resource: 1700 METRES

Waste Scheme Information

Waste Scheme Name:
 Waste Scheme Management Parameter Name:
 Waste Scheme Management Parameter
 Applicable From Date:

Quaternary Drainage Region: E33D

Waste Management Facility Details

General Information

Facility Name: STEENKAMPSKRAAL MONAZITE MINE
 Facility Status: COMPLETE
 Operation Start Date: 2013/01/01 End Date: 2030/01/01
 Responsible Office: WESTERN CAPE OFFICE
 Waste Management Facility File No.:
 The Facility will be lined: YES
 Lining System: COMPOSITE LINING SYSTEM

National Register of Water Use Registration Record 22143342

Disposing of waste in a manner which may detrimentally impact on a water resource in terms of Section 21(g) of the National Water Act

Water Use Identification

Register Number: 22143342
 Water Use Number: 2
 Water Use Start Date: 2019/07/01
 Water Use Status Date: 2019/07/08
 Water Use Status: REGISTERED

Approximate Maximum Tonnage Per Day:
 Approximate Total Tonnage Per Annum:
 Distance from nearest borehole used for drinking water or stock watering: 1700 METRES
 Distance from the edge of the nearest downstream surface water resource: 300 METRES
 Area of the Actual Waste Body ("Footprint" Area):
 Facility Classification:
 Hazard Rating:
 Classification Date: 1899/12/30

Location of Facility

Seq. No.	Latitude	Longitude	Datum Type
1	30.97389° south	18.63447° east	WGS-84

Authorisation/Regulation

Authorisation/Regulation Type:
 Applicable Authorisation/Regulation Reference Number/Environment Conservation Act Permit Number:
 Office In Control of Authorisation:
 Authorisation/Regulation Valid from: Valid To:

Dimensions

	Height/Depth	Length	Breadth
At Commencement:	0.3 METRES	900 METRES	700 METRES
After Rehabilitation:	2 METRES	900 METRES	700 METRES
Available Airspace:	0 CUBIC METRES		
Total Volume Already Used For Waste	0 CUBIC METRES		

Disposal:
 Accuracy Of Above Volumes: ESTIMATE

Buffer Zone

Actual Distance To The Boundary of the Nearest
 a) Formal Residential Area: 30000 METRES
 b) Informal Residential Area: 2000 METRES
 c) Industrial Area:

Buffer Zone Determination Done By: ACTUAL DISTANCE

Waste Types

Waste Type MINING WASTE Other Waste Type Description

Type of Facility	Size (ha)	Estimated Lifetime (years)	Disposal Started on	Disposal Ceased on
EVAPORATION DAMS/PONDS	5 HECTARES	20	2013/01/01	2030/01/01

Facility Details

National Register of Water Use Registration Record 22143342

Disposing of waste in a manner which may detrimentally impact on a water resource in terms of Section 21(g) of the National Water Act

Water Use Identification

Register Number: 22143342
Water Use Number: 2
Water Use Start Date: 2019/07/01
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Water Use Status: REGISTERED

Facility Flaw Indicators: • OVERLAYING OR ADJACENT TO IMPORTANT OR POTENTIALLY IMPORTANT AQUIFERS (PERSONS CLASSIFICATION: SOLE SOURCE, MAJOR)
Disposal Methods: • OTHER: RESIDUE CONTAINMENT PONDS AND EVAPORATION PONDS

Climatic Water Balance

Wettest 6 months of the year: MAY TO OCTOBER

Wettest Years During the Past 30 Years

Rating	Year	Total Rainfall For 6 months	Total Evaporation for 6 months
Wettest Year:			
2nd Wettest Year:			
3rd Wettest Year:			
4th Wettest Year:			
5th Wettest Year:			
6th Wettest Year:			
7th Wettest Year:			
8th Wettest Year:			
9th Wettest Year:			
10th Wettest Year:			

Total Rainfall For 6 months

Total Evaporation for 6 months

Wettest Year:
2nd Wettest Year:
3rd Wettest Year:
4th Wettest Year:
5th Wettest Year:
6th Wettest Year:
7th Wettest Year:
8th Wettest Year:
9th Wettest Year:
10th Wettest Year:

Leachate Visible: NO

Other Facility-specific Water Balance Factors:

Contact Person

Contact Type	Surname	Name	Title	ID Number	Phone
PERSON IN CONTROL OF THE SITE	KABAAH	K	MR	6404046788087	0275511100

Operation of Facility

Type of Operation: • ENCAPSULATION
Sufficient Cover Material Available On Site: NO
Covering and Burning Of Waste:
Leachate Management System Present: NO
Storm Water Management: • UPSTREAM CUT-OFF TRENCHES

National Register of Water Use Registration Record 22143342

Disposing of waste in a manner which may detrimentally impact on a water resource in terms of Section 21(g) of the National Water Act

Water Use Identification

Register Number: 22143342
Water Use Number: 2
Water Use Start Date: 2019/07/01
Water Use Status Date: 2019/07/08
Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: STEENKAMPS KRAAL
Property Number: 70
Portion of Property: 1
SG Cadastral Code: C07800000000007000001
Deeds Office: CAPE TOWN
Registration Division: VANRHYNSDORP
Registration Division Province: WESTERN CAPE
Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2019/07/01	

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National Register of Water Use Registration Record 22143342

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 in terms of Section 21(j) of the National Water Act

Water Use Identification

Register Number: 22143342
 Water Use Number: 3
 Water Use Start Date: 2019/07/01
 Water Use Status Date: 2019/07/08
 Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 22143342/3
 Licence Status: APPROVED
 Licence Expiry Date: 2029/06/30
 Review Period: 5 YEARS

RLA Details

RLA Business Unit: BERG - OLIFANTS - BELLVILLE
 RLA Reference: 06/E33D/GJA/5694

Lawfulness Authentication

Finding: LAWFUL
 Finding Date: 2019/06/13
 Finding Reason: LICENCE

Finding Confirmed: YES

Water Use Details

Removing Water from: Latitude 30.96814° south Longitude 18.6336° east

Datum Type: WGS-84
 Total Volume per year: 266650 CUBIC METRES
 Maximum Volume per day: 80 CUBIC METRES
 Quaternary Drainage Region: E33D

Property Where Water Use Occurs

Property Name: STEENKAMPS KRAAL
 Property Number: 70
 Portion of Property: 1
 SG Cadastral Code: C07800000000007000001
 Deeds Office: CAPE TOWN
 Registration Division: VANRHYNSDORP
 Registration Division Province: WESTERN CAPE
 Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2019/07/01	

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