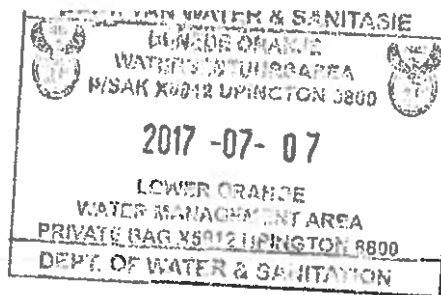




water & sanitation

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) 326-4472/ (012) 326-2715

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

I, **Dan Mashitsho**, in my capacity as Director-General in the Department of Water and Sanitation and acting under authority of the powers delegated to me by the Minister of Water and Sanitation, hereby authorise the following water uses in respect of this Licence.

SIGNED: _____

DATE: 23 / 06 / 2017

LICENCE NO: 10/F20E/GJ/5331
FILE NO: 27/2/2/D420/1/1/2/9/10

1. Licensee : **West Coast Resources (Pty) Ltd: Namaqualand Mine**
Postal Address: **P.O Box 723
Parow
7499**

2. Water uses

- 2.1 Section 21 (g) of the Act: **Disposing of waste in a manner which may detrimentally impact on a water resource, subject to the conditions set out in Appendices I and II**
- 2.2 Section 21 (j) of the Act: **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, subject to the conditions set out in Appendices I and III.**

3. Property in respect of which this licence is issued

Table 1: Properties of water uses

Farm name	Owner of surface rights	Title deeds No
Lang Klip 489	West Coast Resources (Pty)Ltd	T403/2015
Mitchell's Bay 495	West Coast Resources (Pty)Ltd	T403/2015
Somnaas 474	West Coast Resources (Pty)Ltd	T403/2015
Koingnaas 475	West Coast Resources (Pty)Ltd	T403/2015
Zwarlintjes River 484	West Coast Resources (Pty)Ltd	T403/2015

B 07777

4. Licence and Review Period

This licence is valid for a period of fifteen (15) years from the date of issuance and it may be reviewed on the interval of not more than five (5) years.

5. 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."

"Department mean" Department of Water and Sanitation

"The Provincial Head" means the Head of Provincial Operations: Northern Cape Department of Water and Sanitation, Private Bag X6101, Kimberley, 8300.

"Responsible Authority" means the Department of Water and Sanitation or Catchment Management Agency.

"Report" refers to the report entitled:

- i. Environmental Management Programme –Golder Associates , dated January 2011;
- ii. Ground water Investigation –ML Francis , dated 2003;
- iii. Waste licence-Department of water affairs and forestry, dated 06/09/2001;
- iv. Surveyed map for slimes dams-Envirobro consultants, dated 18/03/2015;
- v. Social Labour plan- De beers consolidated mine , dated 16/11/2007;
- vi. Section 27 Motivation- Envirobro consultants, dated 24/04/2015;
- vii. Water Balance -Envirobro consultants, dated 18/03/2015; and
- viii. Integrated Water waste management plan- Envirobro consultants, dated 01/04/2015; as well as all other related documentations and communication (emails, letters, verbal, etc) related thereto.

6. Description of the activity

The activities at Namaqualand Mine entail mining and processing of Diamonds and supplementary valuable and semi-precious gemstones are excavated from the earth level via open pit mining. Diamondiferous materials are then hauled to the modular processing plant. The water use activities include disposing waste or wastewater and removing water found. The water uses activities fall within F20E Quaternary Catchment of Lower Orange Water Management Area.

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).
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 Provincial Head or Responsible 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 Provincial Head of the Department within 60 days of the said change taking place.
5. If a water user association is established in the area to manage the resource, membership of the Licensee to this association is compulsory.
6. The Licensee shall be responsible for any water use charges or levies imposed by a responsible authority.
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. The licence shall not be construed as exempting the Licensee from compliance with the provisions any other applicable Act, Ordinance, Regulation or By-law.
9. 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.
10. The Licensee shall conduct an annual internal audit on compliance with the conditions of licence. A report on the audit shall be submitted to the Provincial Head or Responsible Authority within one month of the finalisation of the audit.
11. 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 shall be submitted to the Provincial Head within one month of finalisation of the report.
12. Any incident that causes or may cause water pollution shall be reported to the Provincial Head or Responsible Authority or his/her designated representative within 24 hours.
13. Licensee shall use water efficiently to minimise total water intake, avoid usage of water where possible, implement "good" housekeeping and operating practices, and maximise the reuse /recycle of contaminated water.
14. If the Licensee is not the end user/beneficiary of the water use related infrastructure and will not be responsible for long term maintenance and management of the infrastructure, the Licensee must provide a programme for hand over to the successor-in-title including a brief management/maintenance plan and the agreement for infrastructure along with allocation of responsibilities, within three (3) months of the date of issuing of this licence.

15. The Department accepts no liability for any damage, loss or inconvenience, of whatever nature, suffered as a result of:
 - 15.1 shortage of water
 - 15.2 inundations or flood
 - 15.3 siltation of the resource; and
 - 15.4 required reserve releases.
- 16 Flow metering, recording and integrating devices shall be maintained in a sound state of repair and calibrated by a competent person at intervals as specified and required according to the device specifications. Licensee must calibrate the inflow and outflow meters and these calibration certificates shall be available for inspection by the Provincial Head or Responsible Authority or his representative upon request. A relevant maintenance and calibration schedule should be compiled and maintained by the licensee.
- 17 This Licence supersedes all water uses Licences, Authorisations, Permits, Exemptions granted to West Coast Resources (Pty) Ltd: Namaqualand Mine.

APPENDIX II

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 facilities listed in Table 2, according to the Report and according to the final plans submitted with the Integrated Water Use Licence Application as approved by the Provincial Head or Responsible Authority.

Table 2: Geographical positions of all the waste water management facilities

Water use Activity	Purpose	Farm name	Volumes(m ³) /Capacity (m ³)	Co-ordinate
Section 21 (g)				
Storage of sea water in a dam	To use for Mining process	Somnaas 474	3 120 000 m ³ /a	E 17° 13' 57.72" S 30° 10' 02.64"
Storage of sea water in a dam	To use for Mining process	Koingnass 475	3 120 000 m ³ /a	E 17° 21' 17.34" S 30° 25' 18.86"
Storage of sea water in a dam	To use for Mining process	Langklip 489	3 120 000 m ³ /a	E 17° 16' 11.35" S 30° 14' 0.66"
Storage of sea water in a dam	To use for Mining process	Mitchell's bay 495	3 120 000 m ³ /a	E 17° 14' 36.51" S 30° 11' 52.51"
Dispose of waste water in slime dam	Disposal of slime and recovery of water	Somnaas 474	2 496 000 m ³ /a	E 17° 13' 57.72" S 30° 10' 02.64"
Dispose of waste water in slime dam	Disposal of slime and recovery of water	Koingnass 475	2 496 000 m ³ /a	E 17° 21' 17.34" S 30° 25' 18.86"
Dispose of waste water in slime dam	Disposal of slime and recovery of water	Langklip 489	2 496 000 m ³ /a	E 17° 16' 11.35" S 30° 14' 0.66"
Dispose of waste water in slime dam	Disposal of slime and recovery of water	Mitchell's bay 495	2 496 000 m ³ /a	E 17° 14' 36.51" S 30° 11' 52.51"
Using water from the voids for dust suppression	Dust suppression	Somnaas 474	489 216m ³ /a	NA
Using water from the voids for dust suppression	Dust suppression	Koingnass 475	489 216m ³ /a	NA
Using water from the voids for dust suppression	Dust suppression	Langklip 489	489 216m ³ /a	NA
Using water from the voids for dust suppression	Dust suppression	Mitchell's bay 495	489 216m ³ /a	NA

1.2 The Licensee must ensure that the disposal of the waste water and the operation and maintenance of the system are done according to the provisions in the Report.

- 1.3 The waste facilities listed in Table 2 shall be operated and maintained to have a minimum height 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.
- 1.4 The Licensee shall within 6 month confirm that the material to be disposed as non-polluting type 4 waste.
- 1.5 The Licensee is not exempted from compliance with the provisions of the Regulations published under Government Notice R139 of 24 February 2012, read with Chapter 12 of the Act.

2. QUALITY OF WATER CONTAINING WASTE TO BE DISPOSED

- 2.1 The Licensee shall submit the nature and the quality of the waste or water containing waste disposed off into the waste facilities listed in Table 3 on a quarterly basis.

3. MONITORING

- 3.1 The Licensee must establish a groundwater monitoring network within one (1) year from the date of the issuance of this licence. This must be submitted to the regional head for approval within one (1) month after completion.
- 3.2 The Licensee shall conduct ground water monitoring on a quarterly basis for the variables shown in Table 3 and the results must be submitted to the Provincial Head or Responsible Authority on an annual basis.
- 3.3 Monitoring network shall be set up as an early warning system to detect any polluted seepage that might occur from the wastewater system.
- 3.4 If ground water pollution has occurred or may possibly occur, the licensee must conduct necessary investigations and implement additional monitoring and rehabilitation measures which must be to the satisfaction of the Provincial Head or Responsible Authority.
- 3.5 Monitoring boreholes shall be clearly marked and numbered, and must be equipped with lockable caps. The Department reserves the right to sample monitoring boreholes at any time and to analyse these samples, or to have samples taken and analysed.

Table 3: Groundwater monitoring variables and frequency

Groundwater Variables	Frequency
Electrical Conductivity (mS/m)	Quarterly
Sodium (mg/l)	Quarterly
Magnesium (mg/l)	Quarterly
Calcium (mg/l)	Quarterly
Chloride (mg/l)	Quarterly
Sulphate (mg/l)	Quarterly
Nitrate (mg/l)	Quarterly
Fluoride (mg/l)	Quarterly
Iron mg/l)	Quarterly
pH	Quarterly

- 3.6 The Licensee shall provide evidence that the Somnaasnoep aquifer won't be influenced by the mining activities within one (1) year of the issuance of this licence.
- 3.7 The date, time and monitoring point in respect of each sample taken shall be recorded together with the results of the analysis.
- 3.8 Monitoring points must not be changed prior to notification to and written approval by the Provincial Head or Responsible Authority.
- 3.9 Analysis shall be carried out in accordance with methods prescribed by and obtainable from the South African Bureau of Standards (SABS), in terms of the Standards Act, 1982 (Act 30 of 1982).
- 3.10 The methods of analysis shall not be changed without prior notification to and written approval by the Department.

4. STORMWATER MANAGEMENT

- 4.1 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.
- 4.2 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 storm-water flow.
- 4.3 Where necessary works must be constructed to attenuate the velocity of any storm-water discharge and to protect the banks of the affected watercourses.
- 4.4 Increased runoff due to vegetation clearance and/or soil compaction must be managed, and steps must be taken to ensure that stormwater does not lead to bank instability and excessive levels of silt entering the streams.
- 4.5 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.

5. PLANT AREAS AND CONVEYANCES

- 5.1 Pollution caused by spills from the conveyances must be prevented through proper maintenance and effective protective measures especially near all stream crossings.
- 5.2 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.
- 5.3 Any hazardous substances must be handled according to the relevant legislation relating to the transport, storage and use of the substance.
- 5.4 Any access roads or temporary crossings must be:
 - 5.4.1 non-erosive, structurally stable and shall not induce any flooding or safety hazard and
 - 5.4.2 be repaired immediately to prevent further damage.

6. ACCESS CONTROL

- 6.1 Strict access procedures must be followed in order to gain access to the property. Access to the waste water containment facilities must be limited to authorised employees of the Licensee and their Contractors only.
- 6.2 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.

7. CONTINGENCIES

- 7.1 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 Provincial Head or Responsible Authority upon request. Such malfunctions shall be tabulated under the following headings with a full explanation of all the contributory circumstances:
 - 7.1.1 operating errors
 - 7.1.2 mechanical failures (including design, installation or maintenance)
 - 7.1.3 environmental factors (e.g. flood)
 - 7.1.4 loss of supply services (e.g. power failure) and
 - 7.1.5 Other causes.
- 7.2 The Licensee must, within 24 hours, notify the Provincial Head or Responsible 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.
- 7.3 The Licensee must, within 14 days, or a shorter period of time, as specified by the Provincial Head, 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 Provincial Head or Responsible Authority of measures taken to:
 - 7.3.1 correct the impacts resulting from the incident
 - 7.3.2 prevent the incident from causing any further impacts and prevent a recurrence of a similar incident.

8. INTEGRATED WATER AND WASTE MANAGEMENT

- 8.1 The Licensee must update an Integrated Water and Waste Management Plan (IWWMP), which must together with the updated Rehabilitation Strategy and Implementation Programme (RSIP), be submitted to the Provincial Head or Responsible Authority for approval within one (1) year from the date of issuance of this licence.
- 8.2 The IWWMP and RSIP shall thereafter be updated and submitted to the Provincial Head for approval, annually.
- 8.3 The Licensee must, at least 180 days prior to the intended closure of any facility, or any portion thereof, notify the Provincial Head or Responsible Authority of such intention and submit any final amendments to the IWWMP and RSIP as well as a final Closure Plan, for approval.

- 8.4 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.

9. WATER CONSERVATION AND WATER DEMAND MANAGEMENT (WC/WDM)

- 9.1 Licensee shall develop and submit a water conservation and demand management (WC/WDM) plan to the Provincial Head or Responsible Authority, which

- 9.1.1 quantify the water use efficiency of the activity;
- 9.1.2 contains the mine water management and water loss strategies and programs;
- 9.1.3 sets annual targets for improved water use efficiency for the mining activity, beneficiation and waste disposal practices and stipulates which measures will be implemented to achieve the targets on the mine;

- 9.2 Licensee shall update the WC/WDM plan on an annually basis and submit to the Provincial Head for approval.

- 9.3 Licensee shall report on annually basis the implementation of water conservation and water demand management measures including retrofitting with water efficient technologies and devices, reduction of total water demand, improvement in water use efficiency benchmarks and targets.

10. LOCATION OF WASTEWATER STORAGE DAMS, WASTEWATER DISPOSAL SITES, HOUSING AND SANITATION FACILITIES

- 10.1. Wastewater storage dams, wastewater disposal site, housing and sanitation facilities must be located:

- 10.1.1. outside of the watercourse;
- 10.1.2. above the 100 year floodline, or alternative, more than 100 metres from the edge of a water resource or a borehole which is utilized for drinking water or stock watering, whichever is the greatest; and
- 10.1.3. on land is not, or does not overlie, a major aquifer (identification of a Major Aquifer will be provided by the Department upon written request).

11. REPORTING

- 11.1 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.

- 11.2 The Licensee shall submit the results of analysis for the monitoring requirements to the Provincial Head or Responsible Authority on a quarterly basis under the reference number 27/2/2/D420/1/1/2/9/10

APPENDIX III

Section 21 (j) of the act: 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

1. This licence authorises the removal, discharging or disposing of a maximum volume of water found underground for the efficient continuation of an activity as set out in Table 4.

Table 4: Section 21 (j) water use activities

Water use Activity	Purpose	Farm name	Volumes (m ³ /a)	Co-ordinate
Section (j)				
Removing water from underground / de watering.	Continuation of mining activity	Somnaas 474	150 000 m ³ /a	E 17° 13' 25.86" S 30° 9' 47.76"
Removing water from underground / de watering.	Continuation of mining activity	Koingnass 475	150 000 m ³ /a	E 17° 17' 57.67" S 30° 17' 51.83"
Removing water from underground / de watering.	Continuation of mining activity	Langklip 489	150 000 m ³ /a	E 17° 19' 31.75" S 30° 22' 37.70"
Removing water from underground / de watering.	Continuation of mining activity	Zwartlinjies River 484	150 000 m ³ /a	E 17° 20' 54.06" S 30° 25' 51.08"

2. The quantity of the water authorised to be removed and disposed of into the pollution control dam in terms of this license may not be exceeded without prior authorisation by the Department.
3. The Licensee shall provide any water user whose water supply is impacted by the water use with potable water.
4. The quantity of water removed from underground must be metered and recorded on a daily basis.
5. Groundwater levels shall be monitored every six months (once in the beginning of the dry season and once in the beginning of the wet season).
6. Self-registering flow meters must be installed in the delivery lines at easily accessible positions near the dewatering points.
8. The date and time of monitoring in respect of each sample taken shall be recorded together with the results of the analysis.
10. Analysis shall be carried out in accordance with methods prescribed in condition 3.9 and 3.10 of appendix II of this licence
11. The Provincial Head or Responsible Authority must be informed of any incident that may lead to groundwater being disposed of contrary to the provisions of this license, by submitting a report containing the following information: -

11.1 Nature of the incident (e.g. operating malfunctions, mechanical failures,

environmental factors, loss of supply services, etc)

11.2 Actions taken to rectify the situation and to prevent pollution or any other damage to the environment and

11.3 Measures to be taken to prevent re-occurrence of any similar incident.

12. The Licensee shall follow acceptable construction, maintenance and operational practices to ensure the consistent, effective and safe performance of the groundwater removal system.

13. Reasonable measures must be taken to provide for mechanical, electrical or operational failures and malfunctions of the underground water removal system.

[END OF LICENCE]



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

National Register of Water Use Registration Record 25174301

Water Use Registration Record 25174301 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: WEST COAST RESOURCES (PTY) LTD
Enterprise Type: PRIVATE COMPANY
Business Registration Number: 2011/007203/07
Postal Address: PO BOX 723
PAROW
7499
VAT Registration Number: 4360264701

Water Management Area Name:

ORANGE

Register Status

Status: ACTIVE

Water Uses

See attached Annexure(s)

Water Use No.	Water Use	Volume	Volume Start Date	Volume End Date
1	21(b)		2017/07/01	
2	21(b)		2017/07/01	
3	21(b)		2017/07/01	
4	21(b)		2017/07/01	
5	21(g)		2017/07/01	
6	21(g)		2017/07/01	
7	21(g)		2017/07/01	
8	21(g)		2017/07/01	
9	21(g)		2017/07/01	
10	21(g)		2017/07/01	
11	21(g)		2017/07/01	
12	21(g)		2017/07/01	



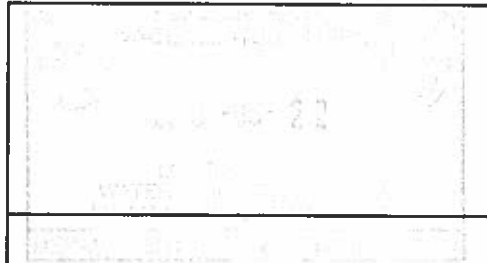
water & sanitation

Department
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

National Register of Water Use Registration Record 25174301

Water Use Registration Record 25174301 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:

Office: Lower Orange - Northern Cape
Upington Office
Regional Office: Free State Region



Date stamp of issuing office

DISCLAIMER :

This Registration Record:

- 1 is not an acknowledgement of an entitlement to the registered water use;
- 2 may NOT be used to create the impression that it is proof of a water use entitlement. By virtue of section 22(1) of the National Water Act, the only documents that may be used as proof of a water use entitlement, are:
 - 2.1 a licence;
 - 2.2 an official document stating the extent of existing lawful water use pursuant to sections 33 or 35 of the National Water Act;
 - 2.3 a general authorisation as published in the Gazette; or
 - 2.4 Schedule 1 of the National Water Act.

Notes:

- If an entitlement for the specific water use referred to in this Registration Record has been confirmed by the Department, it may be indicated as such in this Registration Record.
 - If the responsible authority has dispensed with the requirement for a licence for a specific water use, no water use entitlement is needed for that use under the National Water Act.
- 3 is issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and in substitution of any Registration Record the Department may have previously issued and the information is valid as at the date of issue.

National Register of Water Use Registration Record 25174301

Storing water in terms of Section 21(b) of the National Water Act: Dam Registration

Water Use Identification

Register Number: 25174301
Water Use Number: 1
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 25174301 /1
Licence Status: APPROVED
Licence Expiry Date: 2032/05/31
Review Period: 60 MONTHS

RLA Details

RLA Business Unit: MINES
RLA Reference: 10/F20E/GJ/5331

Lawfulness Authentication

Finding: LAWFUL
Finding Date: 2017/06/23
Finding Reason: LICENCE
Finding Confirmed: YES

Water Use Details for Raw Water Dam

Water Use Sector(s)(i.e. Purpose(s) of Water Use): MINING

Quaternary Drainage Region: F20E

Dam Details

Dam Name: SOMNAAS 474 PORTION 0
Name of Watercourse:
Centre of Dam Wall: Latitude Longitude
30° 10' 2.6" south 17° 13' 57.7" east
Datum Type: CAPE (MODIFIED CLARKE 1880)
Centre of River at the point where river crosses the Dam wall: Latitude Longitude

Datum Type:
Capacity: 3120000 THOUSAND CUBIC METRES
Billable Dam: NO
Safety Risk Dam: NO
Completed: NO

Water Use Sector(s)(i.e. Purpose(s) for Storing of Water): MINING

National Register of Water Use Registration Record 25174301

Storing water in terms of Section 21(b) of the National Water Act: Dam Registration

Water Use Identification

Register Number: 25174301
Water Use Number: 1
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: SOMNAAS 474 PORTION 0 (R/E)
Property Number: 474
Portion of Property: 0 R/E
SG Cadastral Code: C01500000000047400000
Deeds Office: CAPE TOWN
Registration Division: NAMAQUALAND
Registration Division Province: NORTHERN CAPE
Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2017/07/01	

DISCLAIMER :

This Registration Record:

- 1 is not an acknowledgement of an entitlement to the registered water use;
- 2 may NOT be used to create the impression that it is proof of a water use entitlement. By virtue of section 22(1) of the National Water Act, the only documents that may be used as proof of a water use entitlement, are:
 - 2.1 a licence;
 - 2.2 an official document stating the extent of existing lawful water use pursuant to sections 33 or 35 of the National Water Act;
 - 2.3 a general authorisation as published in the Gazette; or
 - 2.4 Schedule 1 of the National Water Act.

Notes:

- If an entitlement for the specific water use referred to in this Registration Record has been confirmed by the Department, it may be indicated as such in this Registration Record.
 - If the responsible authority has dispensed with the requirement for a licence for a specific water use, no water use entitlement is needed for that use under the National Water Act.
- 3 is issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and in substitution of any Registration Record the Department may have previously issued and the information is valid as at the date of issue.

National Register of Water Use Registration Record 25174301

Storing water in terms of Section 21(b) of the National Water Act: Dam Registration

Water Use Identification

Register Number: 25174301
Water Use Number: 2
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 25174301 /2
Licence Status: APPROVED
Licence Expiry Date: 2032/05/31
Review Period: 60 MONTHS

RLA Details

RLA Business Unit: MINES
RLA Reference: 10/F20E/GJ/5331

Lawfulness Authentication

Finding: LAWFUL
Finding Date: 2017/06/23
Finding Reason: LICENCE
Finding Confirmed: YES

Water Use Details for Raw Water Dam

Water Use Sector(s)(i.e. Purpose(s) of Water Use): MINING

Quaternary Drainage Region: F20E

Dam Details

Dam Name: KOINGNASS
Name of Watercourse:
Centre of Dam Wall: Latitude Longitude
30° 25' 18.8" south 17° 21' 17.3" east
Datum Type: WGS-84
Centre of River at the point where river crosses the Dam wall: Latitude Longitude

Datum Type:
Capacity: 3120000 THOUSAND CUBIC METRES
Billable Dam: NO
Safety Risk Dam: NO
Completed: NO

Water Use Sector(s)(i.e. Purpose(s) for Storing of Water): MINING

National Register of Water Use Registration Record 25174301

Storing water in terms of Section 21(b) of the National Water Act: Dam Registration

Water Use Identification

Register Number: 25174301
Water Use Number: 2
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: KOINGNASS 475 PORTION 0 R/E
Property Number: 475
Portion of Property: 0 R/E
SG Cadastral Code: C0150000000047500000
Deeds Office: CAPE TOWN
Registration Division: NAMAQUALAND
Registration Division Province: NORTHERN CAPE
Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2017/07/01	

DISCLAIMER :

This Registration Record:

- 1 is not an acknowledgement of an entitlement to the registered water use;
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 - 2.1 a licence;
 - 2.2 an official document stating the extent of existing lawful water use pursuant to sections 33 or 35 of the National Water Act;
 - 2.3 a general authorisation as published in the Gazette; or
 - 2.4 Schedule 1 of the National Water Act.

Notes:

- If an entitlement for the specific water use referred to in this Registration Record has been confirmed by the Department, it may be indicated as such in this Registration Record.
 - If the responsible authority has dispensed with the requirement for a licence for a specific water use, no water use entitlement is needed for that use under the National Water Act.
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National Register of Water Use Registration Record 25174301

Storing water in terms of Section 21(b) of the National Water Act: Dam Registration

Water Use Identification

Register Number: 25174301
Water Use Number: 3
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 25174301 /3
Licence Status: APPROVED
Licence Expiry Date: 2032/05/31
Review Period: 60 MONTHS

RLA Details

RLA Business Unit: MINES
RLA Reference: 10/F20E/GJ/5331

Lawfulness Authentication

Finding: LAWFUL
Finding Date: 2017/06/23
Finding Reason: LICENCE
Finding Confirmed: YES

Water Use Details for Raw Water Dam

Water Use Sector(s)(i.e. Purpose(s) of Water Use): MINING

Quaternary Drainage Region: F20E

Dam Details

Dam Name: LANGKLIP
Name of Watercourse:
Centre of Dam Wall:

Latitude	Longitude
30° 14' 0.7" south	17° 16' 11.3" east

Datum Type: WGS-84
Centre of River at the point where river crosses the Dam wall:

Latitude	Longitude
-----------------	------------------

Datum Type:
Capacity: 3120000 THOUSAND CUBIC METRES
Billable Dam: NO
Safety Risk Dam: NO
Completed: NO

Water Use Sector(s)(i.e. Purpose(s) for Storing of Water): MINING

National Register of Water Use Registration Record 25174301

Storing water in terms of Section 21(b) of the National Water Act: Dam Registration

Water Use Identification

Register Number: 25174301
Water Use Number: 3
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: LANGKLIP 489 PORTION 0
Property Number: 489
Portion of Property: 0
SG Cadastral Code: C01500000000048900000
Deeds Office: CAPE TOWN
Registration Division: NAMAQUALAND
Registration Division Province: NORTHERN CAPE
Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2017/07/01	

DISCLAIMER :

This Registration Record:

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- 2 may NOT be used to create the impression that it is proof of a water use entitlement. By virtue of section 22(1) of the National Water Act, the only documents that may be used as proof of a water use entitlement, are:
 - 2.1 a licence;
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 - 2.3 a general authorisation as published in the Gazette; or
 - 2.4 Schedule 1 of the National Water Act.

Notes:

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National Register of Water Use Registration Record 25174301

Storing water in terms of Section 21(b) of the National Water Act: Dam Registration

Water Use Identification

Register Number: 25174301
Water Use Number: 4
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 25174301 /4
Licence Status: APPROVED
Licence Expiry Date: 2032/05/31
Review Period: 60 MONTHS

RLA Details

RLA Business Unit: MINES
RLA Reference: 10/F20E/GJ/5331

Lawfulness Authentication

Finding: LAWFUL
Finding Date: 2017/06/23
Finding Reason: LICENCE
Finding Confirmed: YES

Water Use Details for Raw Water Dam

Water Use Sector(s)(i.e. Purpose(s) of Water Use): MINING

Quaternary Drainage Region: F20E

Dam Details

Dam Name: MITCHELL'S BAY
Name of Watercourse:
Centre of Dam Wall: Latitude Longitude
30° 11' 52.5" south 17° 14' 36.5" east
Datum Type: WGS-84
Centre of River at the point where river crosses the Dam wall: Latitude Longitude

Datum Type:
Capacity: 3120000 THOUSAND CUBIC METRES
Billable Dam: NO
Safety Risk Dam: NO
Completed: NO

Water Use Sector(s)(i.e. Purpose(s) for Storing of Water): MINING

National Register of Water Use Registration Record 25174301

Storing water in terms of Section 21(b) of the National Water Act: Dam Registration

Water Use Identification

Register Number: 25174301
Water Use Number: 4
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: MITCHELL'S BAY 495 PORTION 0
Property Number: 495
Portion of Property: 0
SG Cadastral Code: C0150000000049500000
Deeds Office: CAPE TOWN
Registration Division: NAMAQUALAND
Registration Division Province: NORTHERN CAPE
Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2017/07/01	

DISCLAIMER :

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 - 2.1 a licence;
 - 2.2 an official document stating the extent of existing lawful water use pursuant to sections 33 or 35 of the National Water Act;
 - 2.3 a general authorisation as published in the Gazette; or
 - 2.4 Schedule 1 of the National Water Act.

Notes:

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 - If the responsible authority has dispensed with the requirement for a licence for a specific water use, no water use entitlement is needed for that use under the National Water Act.
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National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 5
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 25174301 /5
 Licence Status: APPROVED
 Licence Expiry Date: 2032/05/31
 Review Period: 60 MONTHS

RLA Details

RLA Business Unit: MINES
 RLA Reference: 10/F20E/GJ/5331

Lawfulness Authentication

Finding: LAWFUL
 Finding Date: 2017/06/23
 Finding Reason: LICENCE
 Finding Confirmed: YES

Source Details

Waste Generating Sector: MINING - DIAMOND
 Description of Waste
 Nature of Wastewater: • Wastewater containing < 70% water by mass (i.e sludge)
 Composition of Wastewater:
 Description of the activity that generates the waste: PROCESSING OF DIAMONDS

Registered Discharge Loads

Quality Variable	Start Date	End Date	Load (kg)	Time Interval	Maximum Load (kg)	Time Interval
CHLORIDE	2017/07/01		704461.06	PER YEAR		
MAGNESIUM	2017/07/01		41743.10	PER YEAR		

Pathways/Management Practices

Description of Waste Discharge Patterns

Total volume of waste discharged per year: 2496000 CUBIC METRES
 Maximum volume of waste discharged on any day: 6933 CUBIC METRES
 Monthly Discharge Expressed in: CUBIC METRES

Month	Minimum	Average	Maximum
JANUARY		208000	
FEBRUARY		208000	
MARCH		208000	
APRIL		208000	
MAY		208000	
JUNE		208000	
JULY		208000	
AUGUST		208000	
SEPTEMBER		208000	
OCTOBER		208000	
NOVEMBER		208000	
DECEMBER		208000	

National Register of Water Use Registration Record 25174301

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: 25174301
Water Number: 5
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Receiving Environment/Receptor

Description of Nearby Water Resources

Surface Water Resource

Type of Surface Water Resource: MARINE
Name/Description of the Water Resource: SEA
Distance to Water Resource: 1000 METRES

Groundwater Resource

Type of Groundwater Resource: memGWRTyp SWARTLIENTJIES RIVER
Name/Description of Resource: SWARTLIENTJIES RIVER
Distance to Water Resource: 1000 METRES

Waste Scheme Information

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

Quaternary Drainage Region: F20E

Waste Management Facility Details

General Information

Facility Name: SOMNASS
Facility Status: COMPLETE
Operation Start Date: 2017/07/01 End Date: 2032/05/22
Responsible Office: LOWER ORANGE - NORTHERN CAPE UPINGTON OFFICE
Waste Management Facility File No.:
The Facility will be lined: YES
Lining System: CLAY
Approximate Maximum Tonnage Per Day:
Approximate Total Tonnage Per Annum:
Distance from nearest borehole used for drinking water or stock watering:
Distance from the edge of the nearest downstream surface water resource:
Area of the Actual Waste Body ("Footprint" Area):
Facility Classification: GCB-
Hazard Rating: H:h
Classification Date: 2017/07/01

Location of Facility

Seq. No.	Latitude	Longitude	Datum Type
1	30° 10' 2.6" south	17° 13' 57.7" east	WGS-84

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 5
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

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:	17 METRES	420 METRES	3501 METRES
After Rehabilitation:			
Available Airspace:			

Total Volume Already Used For Waste

Disposal:

Accuracy Of Above Volumes:

Buffer Zone

Actual Distance To The Boundary of the Nearest

- a) Formal Residential Area: 1090 METRES
- b) Informal Residential Area: 1000 METRES
- c) Industrial Area: 10000 METRES

Buffer Zone Determination Done By: ACTUAL DISTANCE

Waste Types

Waste Type	Other Waste Type Description
OTHER WASTE	DUST SUPPRESSION

Type of Facility

Type of Facility	Size (ha)	Estimated Lifetime (years)	Disposal Started on	Disposal Ceased on
OTHER WASTE WATER PONDS	1 HECTARES	15	2017/07/01	

Facility Details

Facility Flaw Indicators: • IN AN AREA BELOW THE 1 IN 100 FLOOD LINE OF ANY WATERCOURSE

Disposal Methods: • TRENCHING

Climatic Water Balance

Wettest 6 months of the year:

National Register of Water Use Registration Record 25174301

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: 25174301
Water Use Number: 5
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Wettest Years During the Past 30 Years

Rating	Year	Total Rainfall For 6 months	Total Evaporation for 6 months
Wettest Year:	2006	76 MILLIMETRES	25000 MILLIMETRES
2nd Wettest Year:	2005	41 MILLIMETRES	25000 MILLIMETRES
3rd Wettest Year:	2001	39 MILLIMETRES	25000 MILLIMETRES
4th Wettest Year:	2008	10 MILLIMETRES	25000 MILLIMETRES
5th Wettest Year:	2007	28 MILLIMETRES	25000 MILLIMETRES
6th Wettest Year:	2002	10 MILLIMETRES	25000 MILLIMETRES
7th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
8th Wettest Year:	2004	0 MILLIMETRES	0 MILLIMETRES
9th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
10th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES

Leachate Visible: NO

Other Facility-specific Water Balance Factors:

Contact Person

Contact Type	Surname	Name	Title	ID Number	Phone
ALTERNATIVE CONTACT	MADLELA	VS	MR	7105135384089	0219372000

Operation of Facility

Type of Operation: • OTHER: DUST SUPPRESSION
Sufficient Cover Material Available On Site: NO
Covering and Burning Of Waste: • DAILY COMPACTION AND COVERING
Leachate Management System Present: NO
Storm Water Management: • UPSTREAM CUT-OFF TRENCHES

National Register of Water Use Registration Record 25174301

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: 25174301
Water Use Number: 5
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: SOMNAAS 474 PORTION 0 (R/E)
Property Number: 474
Portion of Property: 0 R/E
SG Cadastral Code: C01500000000047400000
Deeds Office: CAPE TOWN
Registration Division: NAMAQUALAND
Registration Division Province: NORTHERN CAPE
Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2017/07/01	

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National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 6
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 25174301 /6
 Licence Status: APPROVED
 Licence Expiry Date: 2032/05/31
 Review Period: 60 MONTHS

RLA Details

RLA Business Unit: MINES
 RLA Reference: 10/F20E/GJ/5331

Lawfulness Authentication

Finding: LAWFUL
 Finding Date: 2017/06/23
 Finding Reason: LICENCE
 Finding Confirmed: YES

Source Details

Waste Generating Sector: MINING - DIAMOND
 Description of Waste
 Nature of Wastewater: • Wastewater containing < 70% water by mass (i.e sludge)
 Composition of Wastewater:
 Description of the activity that generates the waste: PROCESSING OF DIAMONDS

Registered Discharge Loads

Quality Variable	Start Date	End Date	Load (kg)	Time Interval	Maximum Load (kg)	Time Interval
CHLORIDE	2017/07/01		704461.06	PER YEAR		
MAGNESIUM	2017/07/01		41743.10	PER YEAR		

Pathways/Management Practices

Description of Waste Discharge Patterns

Total volume of waste discharged per year: 2496000 CUBIC METRES
 Maximum volume of waste discharged on any day: 6933 CUBIC METRES
 Monthly Discharge Expressed in: CUBIC METRES

Month	Minimum	Average	Maximum
JANUARY		208000	
FEBRUARY		208000	
MARCH		208000	
APRIL		208000	
MAY		208000	
JUNE		208000	
JULY		208000	
AUGUST		208000	
SEPTEMBER		208000	
OCTOBER		208000	
NOVEMBER		208000	
DECEMBER		208000	

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 6
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Receiving Environment/Receptor

Description of Nearby Water Resources

Surface Water Resource

Type of Surface Water Resource: MARINE
 Name/Description of the Water Resource: SEA
 Distance to Water Resource: 1000 METRES

Groundwater Resource

Type of Groundwater Resource: memGWRTtype SWARTLIENTJIES RIVER
 Name/Description of Resource: SWARTLIENTJIES RIVER
 Distance to Water Resource: 1000 METRES

Waste Scheme Information

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

Quaternary Drainage Region: F20E

Waste Management Facility Details

General Information

Facility Name: KOINGNAS SLIME DAM
 Facility Status: COMPLETE
 Operation Start Date: 2017/07/01 End Date:
 Responsible Office: LOWER ORANGE - NORTHERN CAPE UPINGTON OFFICE
 Waste Management Facility File No.:
 The Facility will be lined: YES
 Lining System: CLAY
 Approximate Maximum Tonnage Per Day:
 Approximate Total Tonnage Per Annum:
 Distance from nearest borehole used for drinking water or stock watering:
 Distance from the edge of the nearest downstream surface water resource:
 Area of the Actual Waste Body ("Footprint" Area):
 Facility Classification: GCB+
 Hazard Rating: H:h
 Classification Date: 2017/07/01

Location of Facility

Seq. No.	Latitude	Longitude	Datum Type
1	30° 25' 18.8" south	17° 21' 17.3" east	WGS-84

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 6
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

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:	21 METRES	230 METRES	175 METRES
After Rehabilitation:			
Available Airspace:			

Total Volume Already Used For Waste Disposal:

Accuracy Of Above Volumes: ESTIMATE

Buffer Zone

Actual Distance To The Boundary of the Nearest

- a) Formal Residential Area: 730 METRES
- b) Informal Residential Area: 1000 METRES
- c) Industrial Area: 1000 METRES

Buffer Zone Determination Done By: SCIENTIFIC METHOD

Waste Types

Waste Type	Other Waste Type Description
MINING WASTE	
Type of Facility	
Type of Facility	Size (ha)
	Estimated Lifetime (years)
	Disposal Started on
	Disposal Ceased on
SLIMES/TAILINGS DAMS	15 HECTARES
	14
	2017/07/01
	2032/06/22

Facility Details

Facility Flaw Indicators: • IN AN AREA BELOW THE 1 IN 100 FLOOD LINE OF ANY WATERCOURSE

Disposal Methods: • TRENCHING

Climatic Water Balance

Wettest 6 months of the year: NOVEMBER TO APRIL

National Register of Water Use Registration Record 25174301

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: 25174301
Water Use Number: 6
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Wettest Years During the Past 30 Years

Rating	Year	Total Rainfall For 6 months	Total Evaporation for 6 months
Wettest Year:	2006	76 MILLIMETRES	25000 MILLIMETRES
2nd Wettest Year:	2005	41 MILLIMETRES	25000 MILLIMETRES
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4th Wettest Year:	2008	10 MILLIMETRES	25000 MILLIMETRES
5th Wettest Year:	2007	28 MILLIMETRES	25000 MILLIMETRES
6th Wettest Year:	2002	10 MILLIMETRES	25000 MILLIMETRES
7th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
8th Wettest Year:	2004	0 MILLIMETRES	0 MILLIMETRES
9th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
10th Wettest Year:	2003	0 MILLIMETRES	0 MILLIMETRES

Leachate Visible: NO

Other Facility-specific Water Balance Factors:

Contact Person

Contact Type	Surname	Name	Title	ID Number	Phone
ALTERNATIVE CONTACT	MADLELA	VS	MR	7105135384089	0219372000

Operation of Facility

Type of Operation: • OTHER: DUST SUPPRESSION
Sufficient Cover Material Available On Site: YES
Covering and Burning Of Waste: • DAILY COMPACTION AND COVERING
Leachate Management System Present: YES
Storm Water Management: • UPSTREAM CUT-OFF TRENCHES

National Register of Water Use Registration Record 25174301

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: 25174301
Water Use Number: 6
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: KOINGNASS 475 PORTION 0 R/E
Property Number: 475
Portion of Property: 0 R/E
SG Cadastral Code: C01500000000047500000
Deeds Office: CAPE TOWN
Registration Division: NAMAQUALAND
Registration Division Province: NORTHERN CAPE
Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2017/07/01	

DISCLAIMER :

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 - 2.1 a licence;
 - 2.2 an official document stating the extent of existing lawful water use pursuant to sections 33 or 35 of the National Water Act;
 - 2.3 a general authorisation as published in the Gazette; or
 - 2.4 Schedule 1 of the National Water Act.

Notes:

- If an entitlement for the specific water use referred to in this Registration Record has been confirmed by the Department, it may be indicated as such in this Registration Record.
 - If the responsible authority has dispensed with the requirement for a licence for a specific water use, no water use entitlement is needed for that use under the National Water Act.
- 3 is issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and in substitution of any Registration Record the Department may have previously issued and the information is valid as at the date of issue.

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 7
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 25174301 /7
 Licence Status: APPROVED
 Licence Expiry Date: 2032/05/31
 Review Period: 60 MONTHS

RLA Details

RLA Business Unit: MINES
 RLA Reference: 10/F20E/GJ/5331

Lawfulness Authentication

Finding: LAWFUL
 Finding Date: 2017/06/23
 Finding Reason: LICENCE
 Finding Confirmed: YES

Source Details

Waste Generating Sector: MINING - DIAMOND

Description of Waste

- Nature of Wastewater: • Wastewater containing < 70% water by mass (i.e sludge)
 Composition of Wastewater: • Wastewater consisting of 50 - 90% organic content and 10 - 50% metals or salts by mass (i.e. load)
 • Wastewater consisting of 10 - 50% organic content and 50 - 90% metals or salts by mass (i.e. load)
 • Wastewater consisting of >90% metals or salts by mass (i.e. load)

Description of the activity that generates the waste: PROCESSING OF DIAMONDS

Registered Discharge Loads

Quality Variable	Start Date	End Date	Load (kg)	Time Interval	Maximum Load (kg)	Time Interval
CHLORIDE	2017/07/01		7044613.10	PER YEAR		
MAGNESIUM	2017/07/01		4174311.90	PER YEAR		

Pathways/Management Practices

Description of Waste Discharge Patterns

Total volume of waste discharged per year: 2496000 CUBIC METRES
 Maximum volume of waste discharged on any day: 6933 CUBIC METRES
 Monthly Discharge Expressed in: CUBIC METRES

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 7
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Month	Minimum	Average	Maximum
JANUARY		208000	
FEBRUARY		208000	
MARCH		208000	
APRIL		208000	
MAY		208000	
JUNE		208000	
JULY		208000	
AUGUST		208000	
SEPTEMBER		208000	
OCTOBER		208000	
NOVEMBER		208000	
DECEMBER		208000	

Receiving Environment/Receptor

Description of Nearby Water Resources

Surface Water Resource

Type of Surface Water Resource: MARINE
 Name/Description of the Water Resource: SEA
 Distance to Water Resource: 1000 METRES

Groundwater Resource

Type of Groundwater Resource: memGWRTYPE SWARTLIENTJIES RIVER
 Name/Description of Resource: SWARTLIENTJIES RIVER
 Distance to Water Resource: 1000 METRES

Waste Scheme Information

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

Quaternary Drainage Region: F20E

Waste Management Facility Details

General Information

Facility Name: LANGKLIP WASTE MANAGEMENT FACILITY
 Facility Status: COMPLETE
 Operation Start Date: 2017/07/01 End Date:
 Responsible Office: LOWER ORANGE - NORTHERN CAPE UPINGTON OFFICE
 Waste Management Facility File No.:
 The Facility will be lined: YES
 Lining System: CLAY

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 7
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 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:

Distance from the edge of the nearest downstream surface water resource:

Area of the Actual Waste Body ("Footprint" Area):

Facility Classification: GCB-

Hazard Rating: H:h

Classification Date: 2017/07/01

Location of Facility

Seq. No.	Latitude	Longitude	Datum Type
1	30° 14' 0.7" south	17° 16' 11.3" east	WGS-84
2	30° 14' 0.7" south	17° 16' 11.3" 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:	25 METRES	3000 METRES	450 METRES
After Rehabilitation:			

Available Airspace:

Total Volume Already Used For Waste

Disposal:

Accuracy Of Above Volumes:

Buffer Zone

Actual Distance To The Boundary of the Nearest

a) Formal Residential Area: 1060 METRES

b) Informal Residential Area: 1060 METRES

c) Industrial Area: 10000 METRES

Buffer Zone Determination Done By: ACTUAL DISTANCE

Waste Types

Waste Type

MINING WASTE

Other Waste Type Description

Type of Facility

Type of Facility	Size (ha)	Estimated Lifetime (years)	Disposal Started on	Disposal Ceased on
OTHER WASTE WATER PONDS	2 HECTARES	15	2017/07/01	2032/06/22

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 7
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Facility Details

Facility Flaw Indicators: • IN AN AREA BELOW THE 1 IN 100 FLOOD LINE OF ANY WATERCOURSE
 Disposal Methods: • TRENCHING

Climatic Water Balance

Wettest 6 months of the year: NOVEMBER TO APRIL

Wettest Years During the Past 30 Years

Rating	Year	Total Rainfall For 6 months	Total Evaporation for 6 months
Wettest Year:	2000	76 MILLIMETRES	3000 MILLIMETRES
2nd Wettest Year:	2005	41 MILLIMETRES	3000 MILLIMETRES
3rd Wettest Year:	2001	39 MILLIMETRES	3000 MILLIMETRES
4th Wettest Year:	2008	10 MILLIMETRES	3000 MILLIMETRES
5th Wettest Year:	2007	28 MILLIMETRES	3000 MILLIMETRES
6th Wettest Year:	2002	10 MILLIMETRES	3000 MILLIMETRES
7th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
8th Wettest Year:	2004	0 MILLIMETRES	0 MILLIMETRES
9th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
10th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES

Leachate Visible: NO

Other Facility-specific Water Balance Factors:

Contact Person

Contact Type	Surname	Name	Title	ID Number	Phone
ALTERNATIVE CONTACT	MADLELA	VS	MR	7105135384089	0219379372000

Operation of Facility

Type of Operation: • OTHER: DUST SUPPRESSION
 Sufficient Cover Material Available On Site: NO
 Covering and Burning Of Waste: • DAILY COMPACTION AND COVERING
 Leachate Management System Present: NO
 Storm Water Management: • UPSTREAM CUT-OFF TRENCHES

National Register of Water Use Registration Record 25174301

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: 25174301
Water Use Number: 7
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: LANGKLIP 489 PORTION 0
Property Number: 489
Portion of Property: 0
SG Cadastral Code: C01500000000048900000
Deeds Office: CAPE TOWN
Registration Division: NAMAQUALAND
Registration Division Province: NORTHERN CAPE
Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2017/07/01	

DISCLAIMER :

This Registration Record:

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- 2 may NOT be used to create the impression that it is proof of a water use entitlement. By virtue of section 22(1) of the National Water Act, the only documents that may be used as proof of a water use entitlement, are:
 - 2.1 a licence;
 - 2.2 an official document stating the extent of existing lawful water use pursuant to sections 33 or 35 of the National Water Act;
 - 2.3 a general authorisation as published in the Gazette; or
 - 2.4 Schedule 1 of the National Water Act.

Notes:

- If an entitlement for the specific water use referred to in this Registration Record has been confirmed by the Department, it may be indicated as such in this Registration Record.
 - If the responsible authority has dispensed with the requirement for a licence for a specific water use, no water use entitlement is needed for that use under the National Water Act.
- 3 is issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and in substitution of any Registration Record the Department may have previously issued and the information is valid as at the date of issue.

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 8
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 25174301 /8
 Licence Status: APPROVED
 Licence Expiry Date: 2032/05/31
 Review Period: 60 MONTHS

RLA Details

RLA Business Unit: MINES
 RLA Reference: 10/F20E/GJ/5331

Lawfulness Authentication

Finding: LAWFUL
 Finding Date: 2017/06/23
 Finding Reason: LICENCE
 Finding Confirmed: YES

Source Details

Waste Generating Sector: MINING - DIAMOND

Description of Waste

- Nature of Wastewater: • Wastewater containing < 70% water by mass (i.e sludge)
 Composition of Wastewater: • Wastewater consisting of 50 - 90% organic content and 10 - 50% metals or salts by mass (i.e. load)
 • Wastewater consisting of 10 - 50% organic content and 50 - 90% metals or salts by mass (i.e. load)
 • Wastewater consisting of >90% metals or salts by mass (i.e. load)

Description of the activity that generates the waste: PROCESSING OF DIAMONDS

Registered Discharge Loads

Quality Variable	Start Date	End Date	Load (kg)	Time Interval	Maximum Load (kg)	Time Interval
CHLORIDE	2017/07/01		704461.06	PER YEAR		
MAGNESIUM	2017/07/01		41743.10	PER YEAR		

Pathways/Management Practices

Description of Waste Discharge Patterns

Total volume of waste discharged per year: 2496000 CUBIC METRES
 Maximum volume of waste discharged on any day: 6933 CUBIC METRES
 Monthly Discharge Expressed in: CUBIC METRES

National Register of Water Use Registration Record 25174301

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: 25174301
Water Use Number: 8
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Month	Minimum	Average	Maximum
JANUARY		569.86	
FEBRUARY		569.86	
MARCH		569.86	
APRIL		569.86	
MAY		569.86	
JUNE		569.86	
JULY		569.86	
AUGUST		569.86	
SEPTEMBER		569.86	
OCTOBER		569.86	
NOVEMBER		569.86	
DECEMBER		569.86	

Receiving Environment/Receptor

Description of Nearby Water Resources

Surface Water Resource

Type of Surface Water Resource: MARINE
Name/Description of the Water Resource: SEA
Distance to Water Resource: 1000 METRES

Groundwater Resource

Type of Groundwater Resource: memGWRTtype SWARTLIENTJIES RIVER
Name/Description of Resource: SWARTLIENTJIES RIVER
Distance to Water Resource: 1000 METRES

Waste Scheme Information

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

Quaternary Drainage Region: F20E

Waste Management Facility Details

General Information

Facility Name: MITCHELL'S BAY
Facility Status: COMPLETE
Operation Start Date: 2017/07/01 **End Date:**
Responsible Office: LOWER ORANGE - NORTHERN CAPE UPINGTON OFFICE
Waste Management Facility File No.:
The Facility will be lined: YES
Lining System: COMPOSITE LINING SYSTEM

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 8
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 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:

Distance from the edge of the nearest downstream surface water resource:

Area of the Actual Waste Body ("Footprint" Area):

Facility Classification: GCB-
 Hazard Rating: H:h
 Classification Date: 2017/07/01

Location of Facility

Seq. No.	Latitude	Longitude	Datum Type
1	30° 11' 52.5" south	17° 14' 36.5" 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:	25 METRES	480 METRES	1234 METRES
After Rehabilitation:			
Available Airspace:			

Total Volume Already Used For Waste

Disposal:

Accuracy Of Above Volumes: ESTIMATE

Buffer Zone

Actual Distance To The Boundary of the Nearest

- a) Formal Residential Area: 1090 METRES
- b) Informal Residential Area: 1000 METRES
- c) Industrial Area: 10000 METRES

Buffer Zone Determination Done By: ACTUAL DISTANCE

Waste Types

Waste Type

MINING WASTE

Type of Facility

Type of Facility	Size (ha)	Estimated Lifetime (years)	Disposal Started on	Disposal Ceased on
SLIMES/TAILINGS DAMS	13 HECTARES	14	2017/06/23	2032/06/22

Other Waste Type Description

Facility Details

Facility Flaw Indicators: • IN AN AREA BELOW THE 1 IN 100 FLOOD LINE OF ANY

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 8
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

WATERCOURSE

Disposal Methods:

• TRENCHING

Climatic Water Balance

Wettest 6 months of the year:

Wettest Years During the Past 30 Years

Rating	Year	Total Rainfall For 6 months	Total Evaporation for 6 months
Wettest Year:	2006	76 MILLIMETRES	25000 MILLIMETRES
2nd Wettest Year:	2005	41 MILLIMETRES	25000 MILLIMETRES
3rd Wettest Year:	2001	39 MILLIMETRES	25000 MILLIMETRES
4th Wettest Year:	2008	10 MILLIMETRES	25000 MILLIMETRES
5th Wettest Year:	2007	28 MILLIMETRES	25000 MILLIMETRES
6th Wettest Year:	2002	10 MILLIMETRES	25000 MILLIMETRES
7th Wettest Year:	2004	0 MILLIMETRES	0 MILLIMETRES
8th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
9th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
10th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES

Leachate Visible:

NO

Other Facility-specific Water Balance

Factors:

Contact Person

Contact Type	Surname	Name	Title	ID Number	Phone
ALTERNATIVE CONTACT	MADLELA	VS	MR	7105135384089	0219372000

Operation of Facility

Type of Operation: • OTHER: DUST SUPPRESSION
Sufficient Cover Material Available On Site: YES
Covering and Burning Of Waste: • DAILY COMPACTION AND COVERING
Leachate Management System Present: YES
Storm Water Management: • UPSTREAM CUT-OFF TRENCHES

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 8
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: MITCHELL'S BAY 495 PORTION 0
 Property Number: 495
 Portion of Property: 0
 SG Cadastral Code: C01500000000049500000
 Deeds Office: CAPE TOWN
 Registration Division: NAMAQUALAND
 Registration Division Province: NORTHERN CAPE
 Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2017/07/01	

DISCLAIMER :

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 - 2.1 a licence;
 - 2.2 an official document stating the extent of existing lawful water use pursuant to sections 33 or 35 of the National Water Act;
 - 2.3 a general authorisation as published in the Gazette; or
 - 2.4 Schedule 1 of the National Water Act.

Notes:

- If an entitlement for the specific water use referred to in this Registration Record has been confirmed by the Department, it may be indicated as such in this Registration Record.
 - If the responsible authority has dispensed with the requirement for a licence for a specific water use, no water use entitlement is needed for that use under the National Water Act.
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National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 9
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 25174301 /9
 Licence Status: APPROVED
 Licence Expiry Date: 2032/05/31
 Review Period: 60 MONTHS

RLA Details

RLA Business Unit: MINES
 RLA Reference: 10/F20E/GJ/5331

Lawfulness Authentication

Finding: LAWFUL
 Finding Date: 2017/06/23
 Finding Reason: LICENCE
 Finding Confirmed: YES

Source Details

Waste Generating Sector: MINING - DIAMOND

Description of Waste

- Nature of Wastewater: • Wastewater containing < 70% water by mass (i.e sludge)
 Composition of Wastewater: • Wastewater consisting of 50 - 90% organic content and 10 - 50% metals or salts by mass (i.e. load)
 • Wastewater consisting of 10 - 50% organic content and 50 - 90% metals or salts by mass (i.e. load)
 • Wastewater consisting of >90% metals or salts by mass (i.e. load)

Description of the activity that generates the waste: PROCESSING OF DIAMONDS

Registered Discharge Loads

Quality Variable	Start Date	End Date	Load (kg)	Time Interval	Maximum Load (kg)	Time Interval
CHLORIDE	2017/07/01		704461.06	PER YEAR		
MAGNESIUM	2017/07/01		41743.10	PER YEAR		

Pathways/Management Practices

Description of Waste Discharge Patterns

Total volume of waste discharged per year: 489216 CUBIC METRES
 Maximum volume of waste discharged on any day: 1358.9 CUBIC METRES
 Monthly Discharge Expressed in: CUBIC METRES

National Register of Water Use Registration Record 25174301

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: 25174301
Water Use Number: 9
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Month	Minimum	Average	Maximum
JANUARY		40768	
FEBRUARY		40768	
MARCH		40768	
APRIL		40768	
MAY		40768	
JUNE		40768	
JULY		40768	
AUGUST		40768	
SEPTEMBER		40768	
OCTOBER		40768	
NOVEMBER		40768	
DECEMBER		40768	

Receiving Environment/Receptor

Description of Nearby Water Resources

Surface Water Resource

Type of Surface Water Resource: MARINE
Name/Description of the Water Resource: SEA
Distance to Water Resource: 1000 METRES

Groundwater Resource

Type of Groundwater Resource: memGWRTYPE SWARTLIENTJIES RIVER
Name/Description of Resource: SWARTLIENTJIES RIVER
Distance to Water Resource: 1000 METRES

Waste Scheme Information

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

Quaternary Drainage Region: F20E

Waste Management Facility Details

General Information

Facility Name: SOMNASS
Facility Status: COMPLETE
Operation Start Date: 2017/07/01 **End Date:** 2032/05/22
Responsible Office: LOWER ORANGE - NORTHERN CAPE UPINGTON OFFICE
Waste Management Facility File No.:
The Facility will be lined: YES
Lining System: CLAY

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 9
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 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:

Distance from the edge of the nearest downstream surface water resource:

Area of the Actual Waste Body ("Footprint" Area):

Facility Classification: GCB-

Hazard Rating: H:h

Classification Date: 2017/07/01

Location of Facility

Seq. No.	Latitude	Longitude	Datum Type
1	30° 10' 2.6" south	17° 13' 57.7" 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:	17 METRES	420 METRES	3501 METRES
After Rehabilitation:			

Available Airspace:

Total Volume Already Used For Waste

Disposal:

Accuracy Of Above Volumes:

Buffer Zone

Actual Distance To The Boundary of the Nearest

a) Formal Residential Area: 1090 METRES

b) Informal Residential Area: 1000 METRES

c) Industrial Area: 10000 METRES

Buffer Zone Determination Done By: ACTUAL DISTANCE

Waste Types

Waste Type

OTHER WASTE

Other Waste Type Description

DUST SUPPRESSION

Type of Facility

Type of Facility	Size (ha)	Estimated Lifetime (years)	Disposal Started on	Disposal Ceased on
OTHER WASTE WATER PONDS	1 HECTARES	15	2017/07/01	

Facility Details

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 9
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Facility Flaw Indicators: • IN AN AREA BELOW THE 1 IN 100 FLOOD LINE OF ANY WATERCOURSE
 Disposal Methods: • TRENCHING

Climatic Water Balance

Wettest 6 months of the year:

Wettest Years During the Past 30 Years

Rating	Year	Total Rainfall For 6 months	Total Evaporation for 6 months
Wettest Year:	2006	76 MILLIMETRES	25000 MILLIMETRES
2nd Wettest Year:	2005	41 MILLIMETRES	25000 MILLIMETRES
3rd Wettest Year:	2001	39 MILLIMETRES	25000 MILLIMETRES
4th Wettest Year:	2008	10 MILLIMETRES	25000 MILLIMETRES
5th Wettest Year:	2007	28 MILLIMETRES	25000 MILLIMETRES
6th Wettest Year:	2002	10 MILLIMETRES	25000 MILLIMETRES
7th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
8th Wettest Year:	2004	0 MILLIMETRES	0 MILLIMETRES
9th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
10th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES

Leachate Visible: NO

Other Facility-specific Water Balance Factors:

Contact Person

Contact Type	Surname	Name	Title	ID Number	Phone
ALTERNATIVE CONTACT	MADLELA	VS	MR	7105135384089	0219372000

Operation of Facility

Type of Operation: • OTHER: DUST SUPPRESSION
 Sufficient Cover Material Available On Site: NO
 Covering and Burning Of Waste: • DAILY COMPACTION AND COVERING
 Leachate Management System Present: NO
 Storm Water Management: • UPSTREAM CUT-OFF TRENCHES

National Register of Water Use Registration Record 25174301

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: 25174301
Water Use Number: 9
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: SOMNAAS 474 PORTION 0 (R/E)
Property Number: 474
Portion of Property: 0 R/E
SG Cadastral Code: C01500000000047400000
Deeds Office: CAPE TOWN
Registration Division: NAMAQUALAND
Registration Division Province: NORTHERN CAPE
Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2017/07/01	

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- 2.1 a licence;
- 2.2 an official document stating the extent of existing lawful water use pursuant to sections 33 or 35 of the National Water Act;
- 2.3 a general authorisation as published in the Gazette; or
- 2.4 Schedule 1 of the National Water Act.

Notes:

- If an entitlement for the specific water use referred to in this Registration Record has been confirmed by the Department, it may be indicated as such in this Registration Record.
 - If the responsible authority has dispensed with the requirement for a licence for a specific water use, no water use entitlement is needed for that use under the National Water Act.
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National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 10
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 25174301 /10
 Licence Status: APPROVED
 Licence Expiry Date: 2032/05/31
 Review Period: 60 MONTHS

RLA Details

RLA Business Unit: MINES
 RLA Reference: 10/F20E/GJ/5331

Lawfulness Authentication

Finding: LAWFUL
 Finding Date: 2017/06/23
 Finding Reason: LICENCE
 Finding Confirmed: YES

Source Details

Waste Generating Sector: MINING - DIAMOND

Description of Waste

- Nature of Wastewater: • Wastewater containing < 70% water by mass (i.e sludge)
 Composition of Wastewater: • Wastewater consisting of >90% metals or salts by mass (i.e. load)
 • Wastewater consisting of 10 - 50% organic content and 50 - 90% metals or salts by mass (i.e. load)
 • Wastewater consisting of 50 - 90% organic content and 10 - 50% metals or salts by mass (i.e. load)

Description of the activity that generates the waste:

PROCESSING OF DIAMONDS

Registered Discharge Loads

Quality Variable	Start Date	End Date	Load (kg)	Time Interval	Maximum Load (kg)	Time Interval
CHLORIDE	2017/07/01		704461.06	PER YEAR		
MAGNESIUM	2017/07/01		41743.10	PER YEAR		

Pathways/Management Practices

Description of Waste Discharge Patterns

Total volume of waste discharged per year: 489216 CUBIC METRES
 Maximum volume of waste discharged on any day: 1358.9 CUBIC METRES
 Monthly Discharge Expressed in: CUBIC METRES

National Register of Water Use Registration Record 25174301

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: 25174301
Water Use Number: 10
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Month	Minimum	Average	Maximum
JANUARY		40768	
FEBRUARY		40768	
MARCH		40768	
APRIL		40768	
MAY		40768	
JUNE		40768	
JULY		40768	
AUGUST		40768	
SEPTEMBER		40768	
OCTOBER		40768	
NOVEMBER		40768	
DECEMBER		40768	

Receiving Environment/Receptor

Description of Nearby Water Resources

Surface Water Resource

Type of Surface Water Resource: MARINE
Name/Description of the Water Resource: SEA
Distance to Water Resource: 300 METRES

Groundwater Resource

Type of Groundwater Resource: BOREHOLE
Name/Description of Resource: SOMNAAS NOUP BOREHOLE
Distance to Water Resource: 1000 METRES

Waste Scheme Information

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

Quaternary Drainage Region: F20E

Waste Management Facility Details

General Information

Facility Name: KOINGNAS SLIME DAM
Facility Status: COMPLETE
Operation Start Date: 2017/07/01 **End Date:**
Responsible Office: LOWER ORANGE - NORTHERN CAPE UPINGTON OFFICE
Waste Management Facility File No.:
The Facility will be lined: YES
Lining System: CLAY

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 10
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 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:

Distance from the edge of the nearest downstream surface water resource:

Area of the Actual Waste Body ("Footprint" Area):

Facility Classification: GCB+

Hazard Rating: H:h

Classification Date: 2017/07/01

Location of Facility

Seq. No.	Latitude	Longitude	Datum Type
1	30° 25' 18.8" south	17° 21' 17.3" 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:	21 METRES	230 METRES	175 METRES
After Rehabilitation:			
Available Airspace:			

Total Volume Already Used For Waste

Disposal:

Accuracy Of Above Volumes: ESTIMATE

Buffer Zone

Actual Distance To The Boundary of the Nearest

a) Formal Residential Area: 730 METRES

b) Informal Residential Area: 1000 METRES

c) Industrial Area: 1000 METRES

Buffer Zone Determination Done By: SCIENTIFIC METHOD

Waste Types

Waste Type

MINING WASTE

Type of Facility

Type of Facility

Size (ha)

Other Waste Type Description

Estimated Lifetime (years)

Disposal Started on

Disposal Ceased on

SLIMES/TAILINGS DAMS 15 HECTARES

14

2017/07/01

2032/06/22

Facility Details

Facility Flaw Indicators:

• IN AN AREA BELOW THE 1 IN 100 FLOOD LINE OF ANY

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 10
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Disposal Methods: WATERCOURSE
 • TRENCHING

Climatic Water Balance

Wettest 6 months of the year: NOVEMBER TO APRIL

Wettest Years During the Past 30 Years

Rating	Year	Total Rainfall For 6 months	Total Evaporation for 6 months
Wettest Year:	2006	76 MILLIMETRES	25000 MILLIMETRES
2nd Wettest Year:	2005	41 MILLIMETRES	25000 MILLIMETRES
3rd Wettest Year:	2001	39 MILLIMETRES	25000 MILLIMETRES
4th Wettest Year:	2008	10 MILLIMETRES	25000 MILLIMETRES
5th Wettest Year:	2007	28 MILLIMETRES	25000 MILLIMETRES
6th Wettest Year:	2002	10 MILLIMETRES	25000 MILLIMETRES
7th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
8th Wettest Year:	2004	0 MILLIMETRES	0 MILLIMETRES
9th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
10th Wettest Year:	2003	0 MILLIMETRES	0 MILLIMETRES

Leachate Visible: NO

Other Facility-specific Water Balance Factors:

Contact Person

Contact Type	Surname	Name	Title	ID Number	Phone
ALTERNATIVE CONTACT	MADLELA	VS	MR	7105135384089	0219372000

Operation of Facility

Type of Operation: • OTHER: DUST SUPPRESSION
Sufficient Cover Material Available On Site: YES
Covering and Burning Of Waste: • DAILY COMPACTION AND COVERING
Leachate Management System Present: YES
Storm Water Management: • UPSTREAM CUT-OFF TRENCHES

National Register of Water Use Registration Record 25174301

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: 25174301
Water Use Number: 10
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: KOINGNASS 475 PORTION 0 R/E
Property Number: 475
Portion of Property: 0 R/E
SG Cadastral Code: C01500000000047500000
Deeds Office: CAPE TOWN
Registration Division: NAMAQUALAND
Registration Division Province: NORTHERN CAPE
Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2017/07/01	

DISCLAIMER :

This Registration Record:

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 - 2.1 a licence;
 - 2.2 an official document stating the extent of existing lawful water use pursuant to sections 33 or 35 of the National Water Act;
 - 2.3 a general authorisation as published in the Gazette; or
 - 2.4 Schedule 1 of the National Water Act.

Notes:

- If an entitlement for the specific water use referred to in this Registration Record has been confirmed by the Department, it may be indicated as such in this Registration Record.
 - If the responsible authority has dispensed with the requirement for a licence for a specific water use, no water use entitlement is needed for that use under the National Water Act.
- 3 is issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and in substitution of any Registration Record the Department may have previously issued and the information is valid as at the date of issue.

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 11
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 25174301 /11
 Licence Status: APPROVED
 Licence Expiry Date: 2032/05/31
 Review Period: 60 MONTHS

RLA Details

RLA Business Unit: MINES
 RLA Reference: 10/F20E/GJ/5331

Lawfulness Authentication

Finding: LAWFUL
 Finding Date: 2018/02/23
 Finding Reason: LICENCE
 Finding Confirmed: YES

Source Details

Waste Generating Sector: MINING - DIAMOND

Description of Waste

Nature of Wastewater: • Wastewater containing < 70% water by mass (i.e sludge)
 Composition of Wastewater: • Wastewater consisting of 50 - 90% organic content and 10 - 50% metals or salts by mass (i.e. load)
 • Wastewater consisting of 10 - 50% organic content and 50 - 90% metals or salts by mass (i.e. load)
 • Wastewater consisting of >90% metals or salts by mass (i.e. load)

Description of the activity that generates the waste: PROCESSING OF DIAMONDS

Registered Discharge Loads

Quality Variable	Start Date	End Date	Load (kg)	Time Interval	Maximum Load (kg)	Time Interval
CHLORIDE	2017/07/01		704461.06	PER YEAR		
MAGNESIUM	2017/07/01		41743.10	PER YEAR		

Pathways/Management Practices

Description of Waste Discharge Patterns

Total volume of waste discharged per year: 489216 CUBIC METRES
 Maximum volume of waste discharged on any day: 1358.9 CUBIC METRES
 Monthly Discharge Expressed in: CUBIC METRES

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 11
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Month	Minimum	Average	Maximum
JANUARY		111.69	
FEBRUARY		111.69	
MARCH		111.69	
APRIL		111.69	
MAY		111.69	
JUNE		111.69	
JULY		111.69	
AUGUST		111.69	
SEPTEMBER		111.69	
OCTOBER		111.69	
NOVEMBER		111.69	
DECEMBER		111.69	

Receiving Environment/Receptor

Description of Nearby Water Resources

Surface Water Resource

Type of Surface Water Resource: MARINE
 Name/Description of the Water Resource: SEA
 Distance to Water Resource: 1000 METRES

Groundwater Resource

Type of Groundwater Resource: BOREHOLE
 Name/Description of Resource: OLD FARM HOUSE BOREHOLE
 Distance to Water Resource: 1000 METRES

Waste Scheme Information

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

Quaternary Drainage Region: F20E

Waste Management Facility Details

General Information

Facility Name: LANGKLIP WASTE MANAGEMENT FACILITY
 Facility Status: COMPLETE
 Operation Start Date: 2017/07/01 End Date:
 Responsible Office: LOWER ORANGE - NORTHERN CAPE UPINGTON OFFICE
 Waste Management Facility File No.:
 The Facility will be lined: YES
 Lining System: CLAY

National Register of Water Use Registration Record 25174301

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: 25174301
 Water U Number: 11
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 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:

Distance from the edge of the nearest downstream surface water resource:

Area of the Actual Waste Body ("Footprint" Area):

Facility Classification: GCB-
 Hazard Rating: H:h
 Classification Date: 2017/07/01

Location of Facility

Seq. No.	Latitude	Longitude	Datum Type
1	30° 14' 0.7" south	17° 16' 11.3" east	WGS-84
2	30° 14' 0.7" south	17° 16' 11.3" 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:	25 METRES	3000 METRES	450 METRES
After Rehabilitation:			
Available Airspace:			

Total Volume Already Used For Waste Disposal:

Accuracy Of Above Volumes:

Buffer Zone

Actual Distance To The Boundary of the Nearest
 a) Formal Residential Area: 1060 METRES
 b) Informal Residential Area: 1060 METRES
 c) Industrial Area: 10000 METRES
 Buffer Zone Determination Done By: ACTUAL DISTANCE

Waste Types

Waste Type	Other Waste Type Description			
Type of Facility	Size (ha)	Estimated Lifetime (years)	Disposal Started on	Disposal Ceased on
MINING WASTE				
OTHER WASTE WATER PONDS	2 HECTARES	15	2017/07/01	2032/06/22

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 11
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Facility Details

Facility Flaw Indicators: • IN AN AREA BELOW THE 1 IN 100 FLOOD LINE OF ANY WATERCOURSE
 Disposal Methods: • TRENCHING

Climatic Water Balance

Wettest 6 months of the year: NOVEMBER TO APRIL

Wettest Years During the Past 30 Years

Rating	Year	Total Rainfall For 6 months	Total Evaporation for 6 months
Wettest Year:	2000	76 MILLIMETRES	3000 MILLIMETRES
2nd Wettest Year:	2005	41 MILLIMETRES	3000 MILLIMETRES
3rd Wettest Year:	2001	39 MILLIMETRES	3000 MILLIMETRES
4th Wettest Year:	2008	10 MILLIMETRES	3000 MILLIMETRES
5th Wettest Year:	2007	28 MILLIMETRES	3000 MILLIMETRES
6th Wettest Year:	2002	10 MILLIMETRES	3000 MILLIMETRES
7th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
8th Wettest Year:	2004	0 MILLIMETRES	0 MILLIMETRES
9th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
10th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES

Leachate Visible: NO

Other Facility-specific Water Balance Factors:

Contact Person

Contact Type	Surname	Name	Title	ID Number	Phone
ALTERNATIVE CONTACT	MADLELA	VS	MR	7105135384089	0219379372000

Operation of Facility

Type of Operation: • OTHER: DUST SUPPRESSION
 Sufficient Cover Material Available On Site: NO
 Covering and Burning Of Waste: • DAILY COMPACTION AND COVERING
 Leachate Management System Present: NO
 Storm Water Management: • UPSTREAM CUT-OFF TRENCHES

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 11
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: LANGKLIP 489 PORTION 0
 Property Number: 489
 Portion of Property: 0
 SG Cadastral Code: C01500000000048900000
 Deeds Office: CAPE TOWN
 Registration Division: NAMAQUALAND
 Registration Division Province: NORTHERN CAPE
 Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2017/07/01	

DISCLAIMER :

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National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 12
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Licence Information

NRWU Licence Number: 25174301 /12
 Licence Status: APPROVED
 Licence Expiry Date: 2032/05/31
 Review Period: 60 MONTHS

RLA Details

RLA Business Unit: MINES
 RLA Reference: 10/F20E/GJ/5331

Lawfulness Authentication

Finding: LAWFUL
 Finding Date: 2017/06/23
 Finding Reason: LICENCE
 Finding Confirmed: YES

Source Details

Waste Generating Sector: MINING - DIAMOND

Description of Waste

Nature of Wastewater:
 Composition of Wastewater:

- Wastewater containing < 70% water by mass (i.e sludge)
 - Wastewater consisting of >90% metals or salts by mass (i.e. load)
 - Wastewater consisting of 10 - 50% organic content and 50 - 90% metals or salts by mass (i.e. load)
 - Wastewater consisting of 50 - 90% organic content and 10 - 50% metals or salts by mass (i.e. load)
- PROCESSING OF DIAMONDS

Description of the activity that generates the waste:

Registered Discharge Loads

Quality Variable	Start Date	End Date	Load (kg)	Time Interval	Maximum Load (kg)	Time Interval
CHLORIDE	2017/07/01		704461.06	PER YEAR		
MAGNESIUM	2017/07/01		41743.10	PER YEAR		

Pathways/Management Practices

Description of Waste Discharge Patterns

Total volume of waste discharged per year: 489216 CUBIC METRES
 Maximum volume of waste discharged on any day: 1358.9 CUBIC METRES
 Monthly Discharge Expressed in: CUBIC METRES

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 12
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 Water Use Status: REGISTERED

Month	Minimum	Average	Maximum
JANUARY		111.69	
FEBRUARY		111.69	
MARCH		111.69	
APRIL		111.69	
MAY		111.69	
JUNE		111.69	
JULY		111.69	
AUGUST		111.69	
SEPTEMBER		111.69	
OCTOBER		111.69	
NOVEMBER		111.69	
DECEMBER		111.69	

Receiving Environment/Receptor

Description of Nearby Water Resources

Surface Water Resource

Type of Surface Water Resource: MARINE
 Name/Description of the Water Resource: SEA
 Distance to Water Resource: 1000 METRES

Groundwater Resource

Type of Groundwater Resource: BOREHOLE
 Name/Description of Resource: OLD FARM HOUSE BOREHOLE
 Distance to Water Resource: 1000 METRES

Waste Scheme Information

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

Quaternary Drainage Region: F20E

Waste Management Facility Details

General Information

Facility Name: LANGKLIP WASTE MANAGEMENT FACILITY
 Facility Status: COMPLETE
 Operation Start Date: 2017/07/01 End Date:
 Responsible Office: LOWER ORANGE - NORTHERN CAPE UPINGTON OFFICE
 Waste Management Facility File No.:
 The Facility will be lined: YES
 Lining System: CLAY

National Register of Water Use Registration Record 25174301

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: 25174301
 Water Use Number: 12
 Water Use Start Date: 2017/07/01
 Water Use Status Date: 2018/02/27
 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:

Distance from the edge of the nearest downstream surface water resource:

Area of the Actual Waste Body ("Footprint" Area):

Facility Classification: GCB-
 Hazard Rating: H:h
 Classification Date: 2017/07/01

Location of Facility

Seq. No.	Latitude	Longitude	Datum Type
1	30° 14' 0.7" south	17° 16' 11.3" east	WGS-84
2	30° 14' 0.7" south	17° 16' 11.3" 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:	25 METRES	3000 METRES	450 METRES
After Rehabilitation:			

Available Airspace:

Total Volume Already Used For Waste

Disposal:

Accuracy Of Above Volumes:

Buffer Zone

Actual Distance To The Boundary of the Nearest

a) Formal Residential Area: 1060 METRES

b) Informal Residential Area: 1060 METRES

c) Industrial Area: 10000 METRES

Buffer Zone Determination Done By: ACTUAL DISTANCE

Waste Types

Waste Type

MINING WASTE

Type of Facility

Type of Facility

Size (ha)

Other Waste Type Description

Estimated Lifetime (years)

Disposal Started on

Disposal Ceased on

OTHER WASTE WATER 2 HECTARES
 PONDS

15

2017/07/01

2032/06/22

National Register of Water Use Registration Record 25174301

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

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Facility Details

Facility Flaw Indicators: • IN AN AREA BELOW THE 1 IN 100 FLOOD LINE OF ANY WATERCOURSE
 Disposal Methods: • TRENCHING

Climatic Water Balance

Wettest 6 months of the year: NOVEMBER TO APRIL

Wettest Years During the Past 30 Years

Rating	Year	Total Rainfall For 6 months	Total Evaporation for 6 months
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5th Wettest Year:	2007	28 MILLIMETRES	3000 MILLIMETRES
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8th Wettest Year:	2004	0 MILLIMETRES	0 MILLIMETRES
9th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES
10th Wettest Year:	2000	0 MILLIMETRES	0 MILLIMETRES

Leachate Visible: NO

Other Facility-specific Water Balance Factors:

Contact Person

Contact Type	Surname	Name	Title	ID Number	Phone
ALTERNATIVE CONTACT	MADLELA	VS	MR	7105135384089	0219379372000

Operation of Facility

Type of Operation: • OTHER: DUST SUPPRESSION
 Sufficient Cover Material Available On Site: NO
 Covering and Burning Of Waste: • DAILY COMPACTION AND COVERING
 Leachate Management System Present: NO
 Storm Water Management: • UPSTREAM CUT-OFF TRENCHES

National Register of Water Use Registration Record 25174301

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: 25174301
Water Use Number: 12
Water Use Start Date: 2017/07/01
Water Use Status Date: 2018/02/27
Water Use Status: REGISTERED

Property Where Water Use Occurs

Property Name: MITCHELL'S BAY 495 PORTION 0
Property Number: 495
Portion of Property: 0
SG Cadastral Code: C0150000000049500000
Deeds Office: CAPE TOWN
Registration Division: NAMAQUALAND
Registration Division Province: NORTHERN CAPE
Surveyor General Office: CAPE TOWN

WUN/Property Relationship Details

Relationship Start Date	Relationship End Date
2017/07/01	

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 - 2.1 a licence;
 - 2.2 an official document stating the extent of existing lawful water use pursuant to sections 33 or 35 of the National Water Act;
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water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

ORANGE PROTO CMA, PRIVATE BAG X5912, UPINGTON, 8800
Tel: 054-3385840
Fax: 0865641758
E-mail: steenkampa@dwa.gov.za

Enquiries: Me. A. Steenkamp

Reference: 25174301

WEST COAST RESOURCES PTY.LTD: NAMAQUALAND MINE
PO BOX 723
PAROW
7499

REGISTRATION CERTIFICATE: GOVERNMENT NOTICE NUMBER 1191 TO REGISTER FOR WATER USE IN TERMS OF NATIONAL WATER ACT (ACT 36 OF 1998)

1. The above-mentioned subject and your register number have bearing on this matter.
2. In terms of paragraph 3(b) of Regulation 1352 dated 12 November 1999 a person who uses water as contemplated in section 21 of the National Water Act, 1998 (Act No. 36 of 1998) must, when called upon by the responsible authority to do so, register the water use. The registration of water use was requested by Notice Number R1352, published in the Government Gazette Number 1191, dated 12 October 1999.
3. The Department would like to take this opportunity to thank you for your co-operation in this regard. Attached please find a Registration Certificate Number **25174301** water use(s) registered by you. This number will also be your account number for any monies that may be debited against you for your registered water uses. Please note that this certificate is not an acknowledgement of entitlement to the registered water use, nor does it create any such entitlement.
4. The registration of water use can be seen as the first building block in ensuring the correct and equitable application of the National Water Act. The registration process required that all water uses, despite the legal status thereof, had to be registered. The only requirement was that it must be an existing use, whether lawful or not.
5. Should you have any queries, questions or concerns regarding your water use, please do not hesitate to call this office at the above mentioned particulars.
6. For completeness and correctness check please use attached form to acknowledge your certificate. Once more our gratitude is indebted to you for registering your water use with our Department.

Yours faithfully

PROVINCIAL HEAD: NORTHERN CAPE PROVINCIAL OPERATIONS
SIGNED BY DEPUTY DIRECTOR: LOWER ORANGE

22 MAR 2018

DATE: _____



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

WEST COAST RESOURCES PTY.LTD:
NAMAQUALAND MINE
PO BOX 723
PAROW
7499

DEPARTMENT WATER AND SANITATION
PRIVATE BAG X 5912
UPINGTON
8800

ACKNOWLEDGEMENT OF REGISTERED WATER USE: REGISTRATION CERTIFICATE: 25174301

YES	NO
-----	----

2. Indicate other information requiring correction on the enclosed blocks:

Eg: Change of postal address, surname or company name, volume abstracted, water resource name, etc.

Identity Number

Y	Y	1	1	0	0	1	1	1	1	1	1	1	1
---	---	---	---	---	---	---	---	---	---	---	---	---	---

Trust Registration Number

1	T	1	1	1	1	1	/	Y	Y
---	---	---	---	---	---	---	---	---	---

Company Registration Number (NB: Provide new number if company was incorporated prior to 1951 or for certain other companies incorporated during 1961)

Y	Y	Y	Y	/	1	1	1	1	1	1	/	1	1
---	---	---	---	---	---	---	---	---	---	---	---	---	---

Date Company Established

Y	Y	Y	Y		1	1	1
---	---	---	---	--	---	---	---

Signature of Applicant
Date