

**PETRA QUARRY
PORTION 0 OF THE FARM HILLSIDE 2830,
BLOEMFONTEIN, FREE STATE PROVINCE**

ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT REPORT

DMRE REFERENCE NUMBER:	FS 30/5/1/2/2/ (10059) MR
AUDIT PERIOD:	August 2023 – June 2024

PREPARED FOR:

Petra Quarry (Pty) Ltd
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PREPARED BY:

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1. PROJECT SPECIFIC DETAIL

ITEM	MINING RIGHT HOLDER
Company Name	Petra Quarry (Pty) Ltd
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ITEM	CONSULTANT DETAIL
Company Name	Greenmined Environmental (Pty) Ltd
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E-mail Address	Christine.f@greenmined.co.za
Postal Address	Postnet Suite 62 Private Bag x15 Somerset West 7129
ITEM	LOCATION AND AREA INFORMATION
Site Name	Petra Quarry
Property Description	Portion 0 of the farm Hillside No 2830
Location	Petra Quarry is situated within Bloemfontein, approximately 5 km north of the Central Business District (CBD). The mine is bordered by the R700 also known as Kenneth Kaunda Road.
Size of Mining Area	54.9874 ha



**ENVIRONMENTAL PERFORMANCE ASSESSMENT /
ENVIRONMENTAL AUDIT REPORT
PETRA QUARRY**



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2. ENVIRONMENTAL AUDIT REPORT

PROJECT DETAIL

Right Number:	FS 30/5/1/2/2/ (10059) MR	Date of Commencement:	June 2001
Site Name:	Petra Quarry	Inspection Date:	03 June 2024
Right Holder:	Petra (Pty) Ltd	Other Authorisations:	Water Use Authorisation: 27/2/1/C652/131 & 23096392.
Report Number:	02		

DETAIL OF AUDITOR

(APPENDIX 7 SUB-REGULATION 3(A) & (B)):

ECO:	Christine Fouché
EXPERTISE:	Ms Fouche has a Diploma in Nature Conservation and a BSc in Botany and Zoology with nineteen years experience in environmental impact assessments and compliance monitoring in South Africa. Ms Fouché is a registered Environmental Assessment Practitioner (registration no: 2019/1003) with EAPASA (Environmental Assessment Practitioners Association of South Africa) since 2019.
DECLARATION OF INDEPENDENCE:	<p>I, Christine Fouche, in my capacity as environmental control officer declare that–</p> <ul style="list-style-type: none"> • I act as independent environmental control officer in this compliance audit; • I will perform the work relating to the audit in an objective manner, even if the results and findings are not favourable to the holder of the authorisation; • I have expertise in conducting environmental compliance audits, including knowledge of the Act and regulations that have relevance to the activity; • I will adhere to and comply with all responsibilities as indicated in the National Environmental Management Act and Environmental Impact Assessment Regulations. • I do not have and will not have any vested interest in the activity other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2014 (as amended). <p align="center"></p> <p align="center">Christine Fouché Date: 28 June 2024</p>

SCOPE & PURPOSE OF ENVIRONMENTAL AUDIT
(APPENDIX 7 SUB-REGULATION 3(C)):

This environmental audit report was compiled in terms of the requirements of the NEMA EIA Regulations, 2014 (as amended). The EAR focussed on Section 2 of the EMPR (2015), in particular Part 2: Environmental Objectives and Goals, Part 6: Action Plans, and Part 8: Monitoring and Environmental Management Programme Performance Assessment.

OBJECTIVE:

The objective of the environmental audit report (EAR) is to evaluate compliance of the operational activities with the Environmental Management Programme Report (EMPR) as approved by the Department of Mineral Resources and Energy. To evaluate the effectiveness of the EMPR, identify shortcomings, and discern the need for changes to the EMPR.

INSPECTED AREAS:

The inspection included an assessment of the following areas:

- Diesel depot;
- Offices and storage areas;
- Plant and stockpile areas;
- Quarry;
- Salvage yard;
- Wash bay; and
- Workshop.

The settling ponds and new road leading to/from it could not be reached as the area was too muddy to enter.

To establish the environmental compliance of the operation, the mine was inspected on foot by the Environmental Control Officer, Christine Fouché, of Greenmined Environmental accompanied by Me Ellen van der Westhuizen from Petra Quarry.

ASSUMPTIONS, UNCERTAINTIES OR GAPS IN KNOWLEDGE
(APPENDIX 7 SUB-REGULATION 3(F)):

The assumptions made in this document, stem from specific information gathered during the audit and background information provided by site management. The findings of the previous environmental performance assessment (2023) were also considered. This audit did not consider health and safety aspects, was not intended as a legal assessment, nor were the aspects of the Social and Labour Plan and/or Mine Works Programme reviewed.

LOCATION

Site Location:	Petra quarry is situated within Bloemfontein, approximately 5 km north of the Central Business District (CBD). The mine is bordered by the R700 also known as Kenneth Kaunda Road.																																																																													
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PROJECT DESCRIPTION

Dolerite is mined using conventional drilling, blasting, and bench-mining methods, with loosened material loaded to haul trucks and transported to the processing plant. The material goes through several crushers and screens to produce different sized aggregates and sand for the ready-mix, construction and road building industry.

SITE CONDITIONS

Cold, windy day with wet soil conditions due to rain received over the weekend.

REPORTABLE ENVIRONMENTAL INCIDENTS

Incident Date:	The quarry has an online system where all accidents and incidents are logged (see example attached to this document under Photographs). No major incidents occurred during the audit period that had to be reported to the DMRE.
Incident No:	
Incident:	
How addressed:	
When addressed:	

**ADOPTED METHODOLOGY
(APPENDIX 7 SUB-REGULATION 3(D)):**

COMPLIANCE SCORE	DESCRIPTION
1	Task not achieved
2	Task 20% achieved
3	Task 50% achieved
4	Task 80% achieved
5	Task 100% achieved in accordance with the EMP

NON-COMPLIANCE SCORE	DESCRIPTION
1	LOW – Mitigation not needed / mitigation measures to be maintained
2	MEDIUM – Mitigation should be considered
3	HIGH – Mitigation compulsory

INSPECTION ASPECTS

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
LEGISLATION COMPLIANCE:				
National Environmental Management Act, 1998 (Act No 107 of 1998) and the Environmental Impact Assessment Regulations, 2014 (as amended)	5	-	Compliant	The competent authority deems the approved EMPR and MR of the quarry compatible with an Environmental Authorisation in terms of NEMA, 1998 and the EIA Regulations, 2014 (as amended).
Copy of the EA available on site	N/A	-	-	
Mineral and Petroleum Resources Development Act, 2002 (Act No 28 of 2002)	5	-	Compliant	The mining right is valid until 14 April 2043.
Mining right available on site	5	-	Compliant	
Mine plan annually reviewed	5	-	Compliant	The mine plan was updated in April 2024.
National Environmental Management: Air Quality Act, 2004 (Act No 39 of 2004)	5	-	Compliant	Although the activities at the mine do not require an air emissions licence, the requirements of the NEM:AQA are considered on site.
National Environmental Management: Waste Act, 2008 (Act No 59 of 2008) (NEM:WA)	5	-	Compliant	The waste generated at the Quarry is managed in accordance with the requirements of the NEM:WA. The Quarry is also registered with SAWIS.
National Water Act, 1998 (Act 36 of 1998) (NWA)	5	-	Compliant	The Quarry has an approved Water Certificate (reference number: 23096392) that allows for the abstraction of water from the quarry pit (industrial use), the irrigation of wastewater (dust suppression), and the disposing of water containing waste. Annual water monitoring is also implemented at.
National Environmental Management: Biodiversity Act, 2004 (Act No 10 of 2004) (NEM:BA)	3	3	Ongoing	Petra Quarry has an Alien Invasive Species Management Plan (October 2022) as well as an Alien Invasive Management Action Plan. The action plan divides the mining area into 17 sections that are progressively cleaned. Site management focussed on the clearing of plants from sections 1 – 3 during the audit period.

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
VISUAL MITIGATION (EMPR PG 87):				
Is the site implementing good visual and housekeeping standards.	5	-	Compliant	The overall appearance of the mining area was neat on the day of the inspection.
Upon closure: Is the site rehabilitated and sloped to minimise visual impacts.	N/A	-	-	-
DUST HANDLING (EMPR PG 87):				
Dust suppression implemented (roads, stockpile areas etc.)	5	-	Compliant	Additional sprayers were installed during the audit period. Water for dust suppression is obtained from the quarry sump.
Continuous assessment of all dust suppression equipment implemented to confirm effectiveness.	5	-	Compliant	-
Speed of vehicles controlled to lessen dust generation and road deterioration	5	-	Compliant	Signage reducing speed in the mining area are present.
Hauling stopped when dust increases until all roads are effectively watered down to control dust.	5	-	Compliant	Additional water sprayers were added along the roadways to control dust generation.
Dust regularly cleared from the crusher.	5	-	Compliant	The plant is daily cleaned between 07:00 and 10:00.
Monthly fallout dust monitoring implemented	5	-	Compliant	EEC is responsible for the fallout dust monitoring of the site. At the time of the inspection the dust monitoring units were in place.
NOISE HANDLING (EMPR PG 87):				
Noise control implemented on site	5	-	Compliant	EEC is responsible for the noise surveys of the site.
Mining equipment serviced regularly to minimise noise	5	-	Compliant	The site has a maintenance register that keeps track of the service records of the mining equipment.
Blasting planned with due cognisance of other land users. Surrounding landowners informed prior to blasting.	5	-	Compliant	The most recent blast was on 27 May 2024 and the surrounding landowners/occupiers were informed prior to the blast.
Quarterly noise monitoring implemented.	5	-	Compliant	The noise monitoring results are quarterly reported to the DMRE.

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
MANAGEMENT OF WEED OR INVADER PLANTS (EMPR PG 88):				
Weed and invader plant control management programme implemented on site.	4	3	To be intensified	As mentioned earlier, the site does have an alien invasive species management plan and -action plan. The implementation of this plan must be intensified.
Declared invader or exotic species controlled on rehabilitated areas.	3	3	Ongoing	The problem plants were cleared from the topsoil stockpiles in February 2024. As mentioned earlier, the problem plants are being removed from sections 1 – 3.
Stockpiles kept free of weeds (invader plants).	3	3		
STORMWATER HANDLING (EMPR PG 88):				
Storm water diverted around the stockpiled area and access roads to prevent erosion	5	-	Compliant	The stormwater berms that control and direct stormwater runoff are still in place. Gabion rock, added at strategic points in the berms, act as sediment traps before stormwater seep into the adjacent drainage lines. The berm between the settling ponds and the southern drainage line was improved. The wash bay and drain to the oil sump was improved during the audit period to prevent dirty water escaping into the surroundings. On the day of the audit, this system was operational, and all dirty water was contained. The site has a generic Storm Water & Erosion Management Plan that is supported by a Floodline delineation diagram and Water Reticulation Map.
Clean water kept clean and routed to a natural water course to prevent clean water from running or spilling into dirty water systems	5	-	Compliant	
Dirty water collected and contained in a system separate to the clean water system	5	-	Compliant	
Storm water management plan implemented on site	5	-	Compliant	
Water from tertiary crushers draining into the settlement ponds.	5	-	Compliant	
MANAGEMENT OF HEALTH AND SAFETY RISKS (EMPR PG 89):				
Surrounding land users informed of blasting events	5	-	Compliant	The mine has two sign boards announcing every blasting event. Centlec and the nearby nursery are informed via email, while the surrounding landowners are directly informed (visited).
Measures implemented to limit flyrock	5	-	Compliant	-

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Audible warning of pending blast given at least 15 m before blast.	5	-	Compliant	A siren is used as warning.
Flyrock that falls beyond the working area collected and removed.	5	-	Compliant	-
Workers provided with PPE	5	-	Compliant	-
HANDLING OF HAZARDOUS MATERIALS AND SUBSTANCES (EMPR PG 90):				
Hazardous material stored within a closed storage facility with impermeable floor.	5	-	Compliant	At the time of the inspection all hazardous materials were stored within closed storage facilities with impermeable floors.
Storage area equipped with a level impermeable floor.	5	-	Compliant	-
Storage area out of the 1:100 year floodline or further than 100 m from the edge of a watercourse.	5	-	Compliant	-
Access controlled to the storage area.	5	-	Compliant	-
Fuel storage tanks equipped with secondary containment with impermeable floor and bund wall. (110% capacity).	5	-	Compliant	The bund of the 23 000 l diesel tank was intact with an impermeable floor. Site management test the integrity of the bund annually.
Formal inspection routine implemented to check all equipment in the bunded area as well as the bund itself for malfunctions or leakages.	4	3	To be implemented	According to management no formal inspection routine exist, however checks are performed occasionally.
Contaminated water prevented from mixing with clean water and contained until collected by a registered waste handling contractor.	5	-	Compliant	As mentioned earlier, the drain of the wash bay was improved to direct all dirty water to the oil sump. Drip trays must daily be emptied to prevent spills.
Drip trays used under all stationary equipment/vehicles.	4	3	Ongoing	Although there were two trucks without drip trays, most of the other stationary vehicles/equipment had drip trays on the day of the audit. As discussed, the rainwater that collects in the drip trays must daily be emptied into the oil sump.

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
WASTE MANAGEMENT (EMPR PG 91):				
Vehicle repairs contained to the service bay and waste products disposed of into a closed container/bin.	5	-	Compliant	This appeared true on the day of the audit.
Effluents containing oil, grease or other industrial substance collected in a suitable receptacle and removed from site to a registered facility.	5	-	Compliant	The used oils, grease and other industrial substances are removed from site by registered waste handling companies, and the effluent from the wash bay is directed to the oil sump.
All spills cleaned immediately	5	-	Compliant	The wet soil conditions on the day of the audit made identifying hydrocarbon spills hard. However, no major spills were noted, and site management confirmed that all spills are cleaned immediately.
Empty oil/fuel drums or containers stored in a bunded area until removed to a licenced disposal facility	5	-	Compliant	-
Biodegradable and non-biodegradable refuse stored in a closed container at a collection point until removed to a recognised landfill site.	5	-	Compliant	-
Water from wash bay draining into an oil sump.	5	-	Compliant	-
Fines from the settlement dam placed at a designated and demarcated area and used in the rehabilitation of the quarry.	5	-	Compliant	-
MANAGEMENT OF ACCESS ROADS (EMPR PG 92):				
Access roads adequately maintained.	5	-	Compliant	-
Storm water directed around the access roads to prevent erosion.	5	-	Compliant	-
Vehicle movement restricted to existing access routes and crisscrossing of tracks through undisturbed areas prevented.	5	-	Compliant	-

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
TOPSOIL HANDLING (EMPR PG 92):				
Topsoil stripping implemented (first 200 mm) and stored at a demarcated signposted area.	N/A	-	-	No topsoil was stripped during the audit period.
Topsoil stockpiles free of invader plants.	5	-	Ongoing	The topsoil heaps were cleared of problem plants in February 2024.
Topsoil storage/stockpiling on a level area that is protected from stormwater. Heaps <2 m.	5	-	Compliant	-
Storm- and runoff water diverted around the stockpile areas and access roads.	5	-	Compliant	-
Topsoil stored longer than 6 months vegetated with indigenous grass seed mix.	5	-	Compliant	A grass layer did establish on the topsoil since the heaps have been in existence for many years.
MONITORING PROGRAMMES (EMPR PG 93) (NOT ALREADY ASSESSED):				
Surface and storm water monitoring: • Bi-annual water monitoring on settlement dams and wash bay.	5	-	Compliant	Petra Quarry submitted water quality samples in January 2024 and planned to submit the next samples in June 2024. Samples are collected from the quarry pit sump, the slimes dams (settling ponds), drainage line (if water is available), and the last chamber of the oil sump.
Effectiveness of the stormwater infrastructure.	TBC	-	Compliant	The January 2024 water results indicated elevated levels of the TSS and Turbidity in the settling ponds and drainage line (adjacent to the settling ponds). The SAR value of the drainage line also exceeded the recommended limit for irrigation purposes. See General Report.
Monitoring of waste generation and waste register in place.	5	-	Compliant	See proof attached.
Ground vibration and airblast level monitoring implemented.	5	-	Compliant	B&E International (Pty) Ltd is responsible for the blasting and associated vibration monitoring of the mine.
Topsoil returned to rehabilitated area	N/A	-	-	Not yet applicable. Presently the fines from the settling ponds are used to rehabilitated some of the mined areas.
Proof of induction meeting with employees.	5	-	Compliant	-

**COMMENTS OR COMPLAINTS RECEIVED FROM I&AP'S
(APPENDIX 7 SUB-REGULATION 3(G) & (J)):**

The Quarry has a complaints register where all complaints can be logged. The register is available on site and on the day of the audit all complaints received during the audit period were addressed/considered.

**AUDITING OF EA, EMPR AND REPORTING THEREOF
(REGULATION 34):**

Date of previous EAR/EPA:	August 2023
Proof of submission to DMRE available:	Proof of submission of the EPA/EAR is available at the site office.
EAR/EPA compiled by independent person with environmental auditing expertise:	This EAR/EPA was compiled by Greenmined Environmental (Pty) Ltd.
Potential and registered I&AP's notified within 7 days of the submission date, and report available on publicly accessible website	The holder of the mining right (Petra Quarry (Pty) Ltd) must, within 7 days of submission, notify all potential and registered I&AP's of the submission of the report. The report will also be placed on the publicly accessible Greenmined website.

GENERAL REPORT

Compliance of the mine with the EMPR (2008) was reviewed during the site assessment. The mine recorded a compliance score of 97% for the audit period which is a 5% increase since the previous year.

As mentioned earlier, the area received substantial rains over the weekend prior to the audit, and the terrain was therefore wet and muddy. Although this restricted access to the settling ponds (slimes dams) and the new access road used to transport the sediment from the ponds to the excavation, all the other areas were accessible.

The overall appearance of the mine was neat, and improvements were made to the wash bay, salvage yard, the visibility of the roadways were increased through the placement of painted oversize rocks, water sprayers were added to alleviate dust generation on the roads, an additional area was rehabilitated along the south-eastern face of the quarry pit, and as mentioned earlier the access to the settling ponds were improved.

Stormwater/Water Management:

The stormwater berms that control runoff and prevent water with a high sediment load draining directly into the adjacent drainage line remain in place. As requested in the 2023 EPA, management keep these berms clear and no material, or fines are stockpiled directly next to (or on top of) it.

Based on the January 2024 water quality results the turbidity of the Stream Water was >1 000 NTU (increased from 0.00 NTU in 2023) while the Total Suspended Solids (TSS) was 32 597 mg/L. iWater notes that the chemical data indicated elevated levels of TSS and turbidity in the slimes dam and water stream samples. The high suspended solids and turbidity in the water stream will decrease dissolved oxygen levels in the water which can negatively affect aquatic health. As this stream/drainage line also flows past other industrial yards, it is proposed that Petra Quarry collect two samples in future, one upstream of the mine, and one downstream of the mine as this will indicate whether the contamination is a result of sediment rich water draining from the mining area into the stream. It is again suggested that the stormwater berms be added to the "Floodline delineation map" of the mine.

Further to this, the January 2024 results show elevated nitrate (Quarry Pit 8) and sodium absorption ratio (SAR) levels. The water report notes that these values exceed the limits of GA standards as given by the National Water Act 1998 (ACT No. 36 of 1998). The data proposed that the nitrate most likely originates due to blasting activity from the quarry. These nitrate compounds dissolved in water and is often mobilised especially after high raining periods. The mine ought to understand that the high nitrate levels will impact the environment and it should be managed as it poses a significant environmental risk. The SAR is a measure of the amount of sodium relative to calcium and magnesium and an indicator of the suitability of water for use in agricultural irrigation. The SAR value is over the recommended limit for irrigation purposes. The SAR is an index of the potential of a given irrigation water to induce sodic soil conditions (iWater, 2024). iWater recommended bioremediation strategies through groundwater infiltration. Petra Quarry must implement relevant management activities/techniques to address the above.

Dirty Water & Waste Management:

The 2023 EPA report required that the water from the last tank of the oil sump had to be tested for hydrocarbon traces. The January 2024 water results showed that the water from the oil separator was low in hydrocarbons (TPH) and no concern was raised by iWater.

The use of drip trays increased since the previous audit, and no major oil/hydrocarbon spills were noted on the day of the audit.

The quarry monitors energy use/carbon footprint related data with an ESG register that reports on the following:

- Vehicle Transportation,
- Machinery (Yellow) Use,
- Genset and Water Pump Combustion,
- Electricity Use,
- Water Use, and
- Waste Generation

As discussed, a column could be added that shows the water use allowances in terms of the Water Certificate. This will highlight when the water allowance limit is reached.

The waste generated at the quarry is handled/removed in the following manner or by the following service providers:

- Enviroserve removes fluorescent tubes,
- B&E International is responsible for all blasting related waste,
- The general waste is removed to the Mangaung Landfill site by the mine,
- RT Recycling and/or FS Scrap Metal removes the unwanted metal,
- Fuel44 collects the used oil, and
- Envirotech was commissioned to empty the oil sump and clean it.
- FS Pumps and Irrigation cleaned the septic tank.

Progressive Rehabilitation:

The slimes removed from the settling ponds are stockpiled in a designated area (east of the ponds) and when dry it is used to rehabilitate the benches/faces of the excavation. An area of ±2 000 m² along the south-eastern entrance of the quarry pit was rehabilitated during the audit period, and the mine proposes to increase the rehabilitation with an additional ±1 000 m² during the following twelve months.

DOCUMENT CHECKLIST:

■ Alien Invasive Species Management Plan, Action Plan & Register	-	Present
■ Approved EMPR	-	Present
■ Blasting Procedure	-	Present
■ Complaints Register	-	Present
■ Environmental Assessment Report (2023)	-	Present
■ Environmental Awareness Training	-	Present
■ Financial Provision (2023)	-	Present
■ Incidents Register / Flash Reports	-	Present
■ Material Safety Data Sheets	-	Present
■ Mine Works Program	-	Present
■ Mining Right	-	Present
■ Proof of Waste Disposal	-	Present
■ Social and Labour Plan	-	Present
■ Stormwater Management Plan / Floodline Delineation Diagram	-	Present
■ Updated Mine Plan	-	Present
■ Waste Spreadsheet	-	Present
■ ESG Spreadsheet	-	Present
■ Water Use Authorisation	-	Present
■ Monitoring Results	-	Dust Monitoring (Present) Noise monitoring (Present) Blast Monitoring (Present) Water Monitoring (Present)

MATTERS TO BE ADDRESSED:

1. Continue the clearing of invader plant species and monitor the cleared sections for reoccurrence;
2. Implement a formal inspection routine to monitor the integrity of the bunded area;
3. Ensure that all stationary vehicles/machinery uses drip trays;
4. Empty drip trays daily;
5. Expand the water samples of the drainage line to include one upstream (of the mining area) and one downstream sample;
6. Implement rectification measures to lower the water quality results to acceptable standards;
7. Add a column to the ESG/water management spreadsheet that indicates water allowance; and
8. Add the stormwater berms to the “floodline delineation map”.

**ABILITY OF EMPR TO ADEQUATELY MANAGE OR MITIGATE ENVIRONMENTAL IMPACTS (APPENDIX 7
SUB-REGULATION 3(E):**

Although some aspects of the EMPR are outdated it is believed that the EMPR still adequately manage and/or mitigate the environmental impacts at the mining area.


NEED FOR AMENDMENT OF THE EMPR:

No need was identified for the amendment of the EMPR.

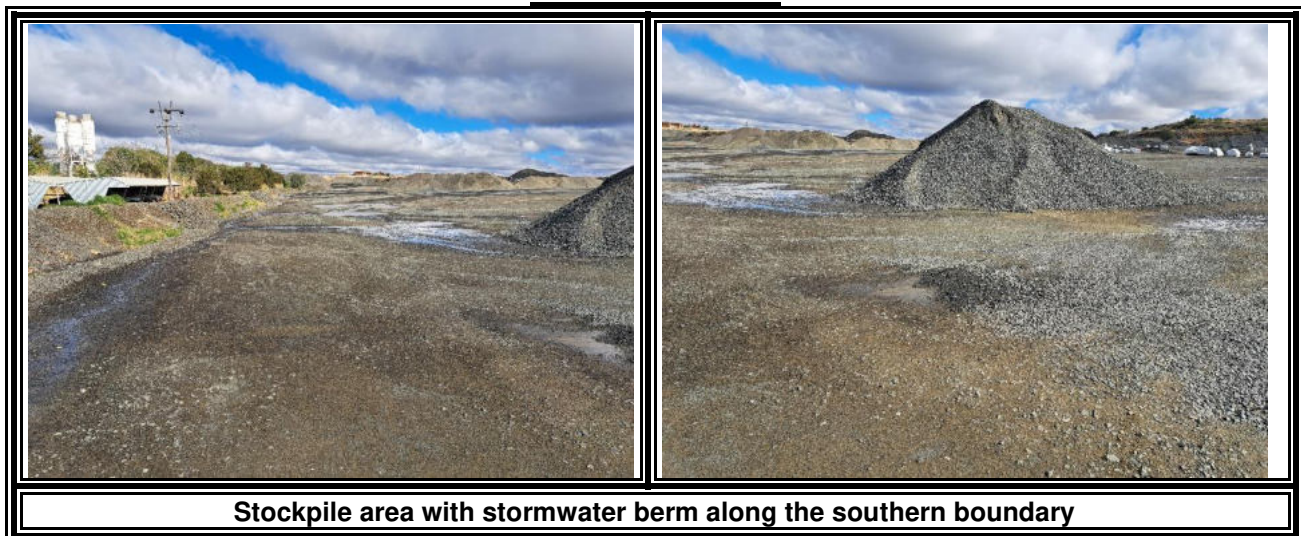
FINANCIAL PROVISION:

This report is accompanied by a reassessment of the financial provision calculation for the year 2024 that amounts to R 10 260 811.83. The 2024 financial provision do exceed the value of financial guarantee in place at the DMRE and the Right Holder may have to provide a shortfall amount upon departmental request.

ECO SIGNATURE

NAME:	SIGNATURE:	DATE:
Christine Fouche		01 July 2024

PHOTOGRAPHS





Formal parking bays for trucks and machinery. Drip trays in use.



Roadways clearly demarcated



Concrete slab outside workshop



Oil store with build in bund



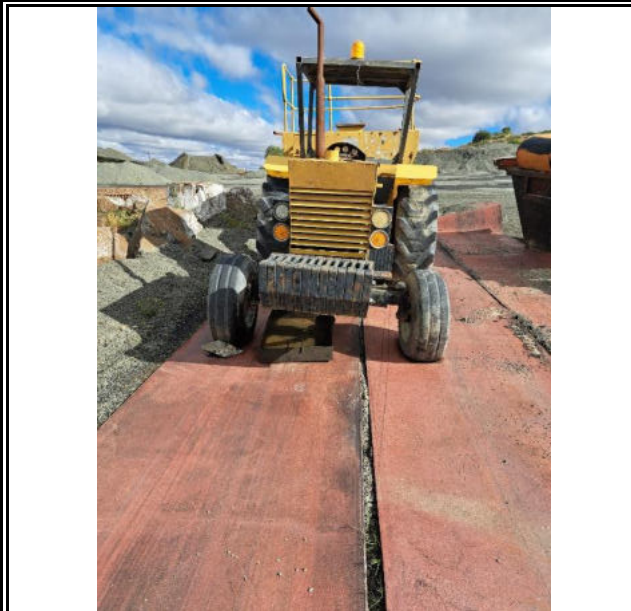
Improved wash bay



Hazardous waste storage area



Oil sump



Salvage yard where old conveyor belts are reused



Salvage yard



Roadway demarcated with old generator (not in use) adjacent to it

HARD ROCK QUARRY PIT



Problem plants removed from stockpiles



Sediment from the settling ponds used to rehabilitate the quarry



Sand plant and surroundings



Sprayers installed to lessen dust generation



Processing plant



Conveyor belts used to direct the water runoff from the sand plant to the settling ponds



Sheet erosion due to rains – to be reinstated

Scrap metal storage skip



Processing plant



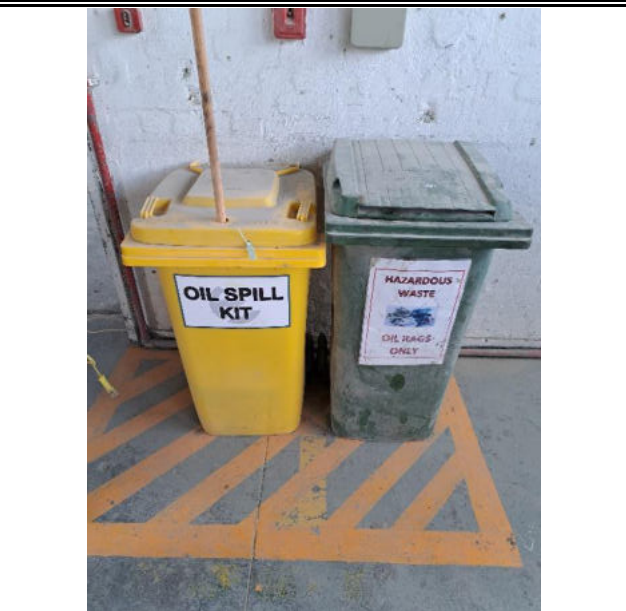
Stagnant water due to rains



Truck waiting area



Weigh bridge



Refuse bins and oil spill kit on site

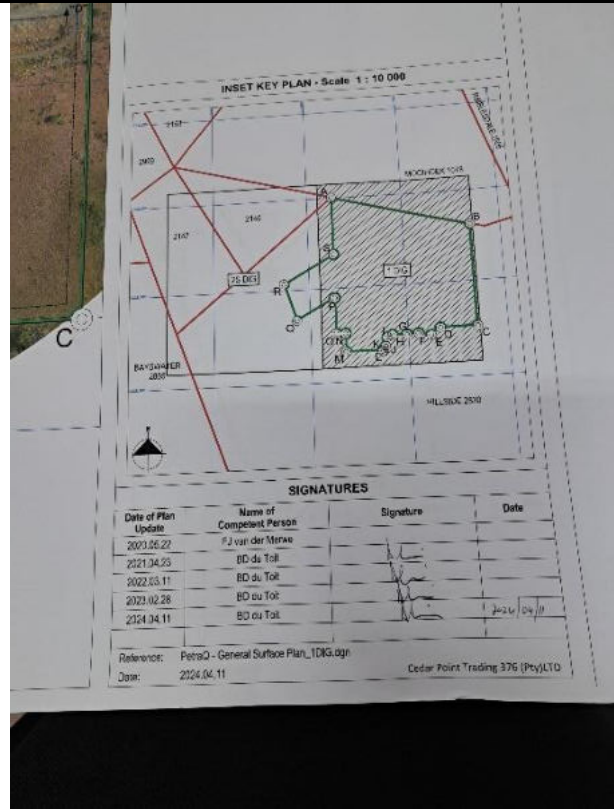
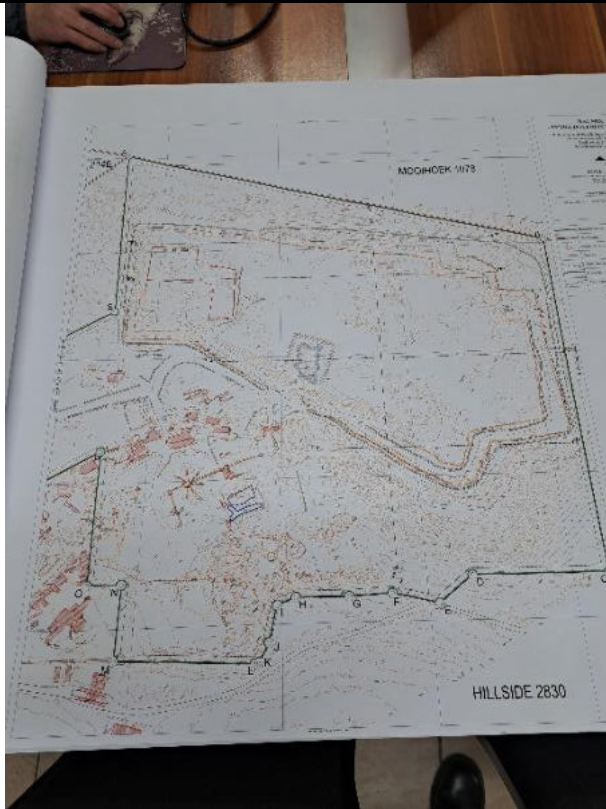


Old used oil storage area



Diesel tank and bund wall

PROOF OF DOCUMENTATION

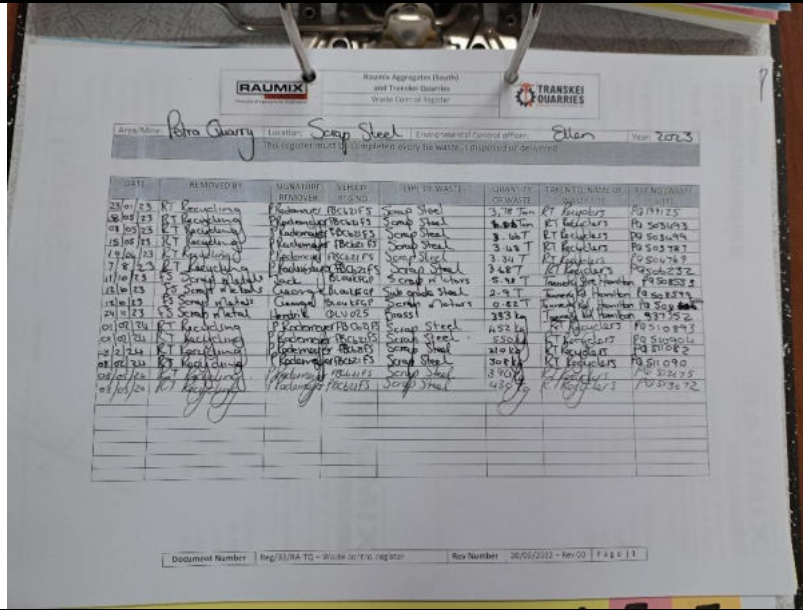


Updated mine plan

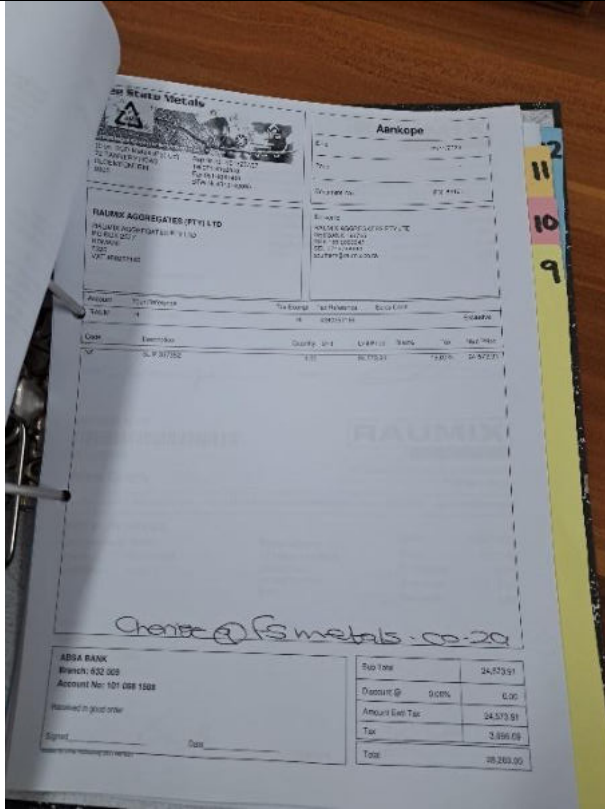


Traffic management plan

PROOF OF DOCUMENTATION



Scrap metal removal register



Proof of scrap metal removal

PROOF OF DOCUMENTATION


DOC NAME: FLASH REPORT, DOC DATE: 1/12/2022, RAUMIX, TRANSKEI QUARRIES

FLASH REPORT

INCIDENT DETAILS

Site: Petra Quarry, Environmental: Excessive Dust Release
 Type of Incident: TE February 2024, Secondary Plant
 Date of Incident: 20 February 2024
 Area of Incident: Ausimex Plant, 750c2560200b
 Person(s) Involved: TE0504, Plant Operator
 Person(s) ID Numbers: TE0504
 Person(s) Emp. Numbers: TE0504
 Occupation: Plant Operator
 Date of Incident: 20/02/2024
 Time of Incident: N/A
 Estimated Repair / Injury Cost: N/A
 Investigation Cost: N/A

Description:
 Safety officer was on his way to the Primary Plant when the site Excessive Dust Release from the Secondary Plant. Site immediately took a sidestep and reported it to the Summer whatsapp group so that the supervisors can take action. Lebohang Lapote said that he already told the operator to open the water sprayers, not sure why he didn't.



Root Cause – singular issue that caused the incident
 Gross negligence of the plant operator – Reluctance for not opening water sprayers while operating the plant.

KNOW WHAT CAN GO WRONG AND TAKE CONTROL


DOC NAME: FLASH REPORT, DOC DATE: 1/12/2022, RAUMIX, TRANSKEI QUARRIES

FLASH REPORT

INCIDENT DETAILS

Site: Petra Quarry, Environmental: Hydraulic Oil Spill
 Type of Incident: 20 January 2024
 Date of Incident: 20 January 2024
 Area of Incident: TMD Planting area and roadways
 Person(s) Involved: Edwar Mariani
 Person(s) ID Numbers: 832235011000
 Person(s) Emp. Numbers: 832235011000
 Occupation: Driver
 Date of Incident: 13/11/24
 Time of Incident: 09:11:27
 Estimated Repair / Injury Cost: N/A
 Investigation Cost: R 3 300

Description:
 On Saturday 20th of January 2024 at 13:15, the safety officer was on the way home when he noticed spills at the entrance gate and followed the spill. At the workshop he asked Edwar Mariani (plant supervisor) if he knew which truck is leaking oil. He said that it's the water truck that's leaking hydraulic oil because of a loose nut and that he will gather the nut. On investigation the safety officer was told that the water truck driver already left at 12:00. He didn't bother to check a dip they underneath the truck to prevent further spillage.



Root Cause – singular issue that caused the incident
 Environmental irresponsible behaviour by operator

Type of Injury: Minor Injury First Aid = MI (FA), Minor Injury Medical Treatment = MI (MT), Lost Time Injury = LTI, Reportable Injury = RI

KNOW WHAT CAN GO WRONG AND TAKE CONTROL

Flash reports maintained on site