BUTTERWORTH QUARRY ERF 725 (PORTION OF ERF NO 153 BUTTERWORTH), BUTTERWORTH, EASTERN CAPE PROVINCE

ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT REPORT

DMRE REFERENCE NUMBER:	EC 30/5/1/2/2/0183 MR
AUDIT PERIOD:	August 2023 – May 2024

PREPARED FOR: Transkei Quarries (Pty) Ltd Contact Person: Mr D Vorster Tel: 087 086 4509 Cell: 082 336 4462

Physical Address: Transkei Quarries Kentani Road Butterworth PREPARED BY: Greenmined Environmental (Pty) Ltd Auditor: Ms C Fouché Tel: 021 851 2673 Cell: 082 811 8514 Fax: 086 546 0579 Postal Address: Suite 62 Private Bag x15 Somerset West 7129



MAY 2024





1. PROJECT SPECIFIC DETAIL

ITEM	MINING RIGHT HOLDER			
Company Name	Butterworth Quarry (Pty) Ltd			
Contact Person	Mr. David Vorster			
Tel Number	087 086 4509			
Cell Number	082 336 4462			
E-mail Address	David.v@transkeiquarries.co.za			
	Transkei Quarries			
Physical Address	Kentani Road Butterworth			
ITEM	CONSULTANT DETAIL			
Company Name	Greenmined Environmental (Pty) Ltd			
Contact Person	Christine Fouché			
Tel Number	021 851 2673			
Cell Number	082 811 8514			
E-mail Address	Christine.f@greenmined.co.za			
	Postnet Suite 62			
	Private Bag x15			
Postal Address	Somerset West 7129			
ITEM	LOCATION AND AREA INFORMATION			
Site Name	Butterworth Quarry			
Property Description	Erf No 725 (Portion of Erf No 153 Butterworth)			
Location	Butterworth Quarry is situated ±3 km east of Butterworth central.			
Size of Mining Area	16.1634 ha			





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2. ENVIRONMENTAL AUDIT REPORT

PROJECT DETAIL

Right Number:	EC 30/5/1/2/2/0183 MR	Date of Commencement:	January 2010	
Site Name:	Butterworth Quarry	Inspection Date:	22 May 2024	
Right Holder:	Transkei Quarries (Pty) Ltd	Other Authorisations:	General Authorisation:	
Report Number:	02	Other Authorisations.	27/2/2/T420/2/1	

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

ECO:	Christine Fouché	
EXPERTISE:	Zoology with eighteen years experier compliance monitoring in South Afric Assessment Practitioner (regist	ure Conservation and a BSc in Botany and nce in environmental impact assessments and ca. Ms Fouché is a registered Environmental ration no: 2019/1003) with EAPASA oners Association of South Africa) since 2019.
DECLARATION OF INDEPENDENCE:	 I act as independent environmer I will perform the work relating to results and findings are not favo I have expertise in conducting knowledge of the Act and regula I will adhere to and comply with Environmental Management A Regulations. I do not have and will not have 	as environmental control officer declare that- ntal control officer in this compliance audit; to the audit in an objective manner, even if the urable to the holder of the authorisation; environmental compliance audits, including tions that have relevance to the activity; all responsibilities as indicated in the National act and Environmental Impact Assessment any vested interest in the activity other than hed in terms of the Environmental Impact (as amended). Date: 13 June 2024





<u>SCOPE & PURPOSE OF ENVIRONMENTAL AUDIT</u> (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 6 Environmental Management Programme of the EMPR (May 2007).

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:

- Offices and Storage Areas;
- Parking Area;
- Processing Area (new & old plants);
- Quarry Pit;
- Salvage Yard;
- Stockpile Areas;
- Wash Bay;
- Weigh bridge;
- Workshop.

To establish the environmental compliance assessment of the operation, the mine was inspected by the Environmental Control Officer, Christine Fouché, of Greenmined Environmental accompanied by site management.

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 site audit and background information gathered from 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 was the aspects of the Social and Labour Plan and/or Mine Works Programme reviewed.





LOCATION

Site Location:	Butterworth Quarry is situated ±3 km east of Butterworth central.		
Site Map:		tenerael Guerrines Butterworth	
	A 32º19'46.98" B 32º19'45.97"	28º10'49.94" 28º10'52.78"	
C 32º19'49.08" 28º10'59.12"			
Site Coordinates:	D 32º19'50.83"	28º11'04.13"	
	E 32º19'55.95"	28º11'01.66"	
	F 32º20.00.75"	28º10'57.30"	
	G 32º20'00.92"	28º10'46.82"	
	H 32º20'01.39"	28º10'43.09"	

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. The boundaries of the pit are limited by the mining boundaries that stand in relation the adjacent Gcuwa River (west) and in the north by the processing and mining infrastructure/buildings.

The right holder applied for a Section 102 amend of the mine boundaries in terms of the MPRDA, 2002 in December 2023 that is still in process with the DMRE.



ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT REPORT BUTTERWORTH QUARRY



SITE CONDITIONS

Cloudy, windless day with dry soil conditions.

REPORTABLE ENVIRONMENTAL INCIDENTS

Incident Date:	
Incident No:	The quarry has an online system where all accidents and incidents are logged.
Incident:	No major incidents occurred during the audit period that had to be reported to
How addressed:	the DMRE.
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	
	L	EGISLATION COM	PLIANCE:		
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)	3	3	Being addressed	A Section 102 amendment application was submitted to expand the mining boundaries and include the section historically mined outside the approved mining footprint.	
Mining right available on site	5	-	Compliant	-	
Mine plan updated annually and submitted to the DMRE	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 mining activities 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)	5	-	Compliant	The waste management of the mine is in accordance with the NEM:WA requirements.	
National Water Act, 1998 (Act 36 of 1998)	5	-	Compliant	In 2019 DWS confirmed that the activities at Butterworth Quarry does not require a formal water use authorisation. Water usage is monitored with the ESG spreadsheet.	
National Environmental Management: Biodiversity Act, 2004 (Act No 10 of 2004) (NEM:BA)	3	3	Being Addressed	Butterworth Quarry has an Alien Invasive Species Management Plan as well as an Alien Invasive Management Action Plan. The action plan divides the mining area into 17 zones that are progressively cleaned. During the audit period the site focussed on re-growth in zones No 1, 4-6, and 12.	
	GENERAL REQUIREMENTS (EMPR PG 30):				
Mining area demarcated with beacons	5	-	Compliant	Soil berms are used to define the mining area and poles were added at the perimeter of the pit.	





DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE SCORE	STATUS	COMMENTS
Working hours restricted to 07:00 – 17:00 Mon- Fri, 07:00-13:00 Sat, excl public holidays.	1	3	To be addressed	Presently the Quarry operates in two shifts from $07:00 - 18:00$, and $17:00 - 03:00$. It is proposed that the operating hours of the quarry be updated when the EMPR is amended.
		TOPSOIL (EMPR	PG 31):	
Topsoil removed from all areas where physical disturbance occur.	N/A	-	-	No topsoil was removed during the audit period.
Topsoil stockpiles on high ground inside mining boundary outside the 1:50 flood level.	4	3	To be addressed	The topsoil heaps are on high ground, however the 1:50 year flood line of the river is unknown.
Topsoil kept separate from overburden and not used for building or road maintenance.	5	-	Compliant	Although topsoil and overburden were mixed historically, management now takes more care and keeps the topsoil and overburden heaps separate. The topsoil stockpiles were also signposted during the audit period.
Topsoil protected from wind- or surface run-off erosion.	5	-	Compliant	The topsoil heaps are vegetated.
	ACCE	SS TO THE SITE	(EMPR PG 31):	
Access via the existing Kentani Road.	5	-	Compliant	-
Security access gate manned permanently.	5	-	Compliant	-
No other roads used to gain access to the quarry.	5	-	Compliant	-
Roads adequately maintained to minimise dust, erosion, or surface damage.	5	-	Compliant	The access road was well maintained at the time of the inspection.
Liberation of dust effectively controlled (water spraying, speed)	5	-	Compliant	A dust suppression sub-contractor is appointed on site.
VEHICLE MAINTENANCE AND SECURED STORAGE AREA (EMPR PG 32):				
Responsibility of vehicle maintenance and secured storage area was sub-consulted to Bell Equipment.	5	-	Compliant	-
Workshop and maintenance areas kept clean, and spillages properly cleaned.	5	-	Compliant	-





DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE SCORE	STATUS	COMMENTS
Storage area securely fenced and hazardous substances and stocks stored therein. Drip pans, concrete slab or impervious lining installed in storage areas to prevent soil and water pollution.	5	-	Compliant	Since the previous audit, a concrete lined parking area was made for the diesel bowser.
No vehicles extensively repaired in the maintenance yard or off-site.	5	-	Compliant	-
	MAINTENANCE OF	VEHICLES AND	EQUIPMENT (E	MPR PG 32):
Maintenance of vehicles and equipment only done in the maintenance yard or off-site.	5	-	Compliant	This appeared true on the day of the audit.
Mining equipment adequately maintained to prevent spills.	5	-	Compliant	At the time of the inspection this appeared true.
Mining machinery or equipment do not constitute a pollution hazard.	4	3	To be addressed	 As mentioned earlier, the bowser is parked on a concrete lined area, and the used oil was removed from the old processing plant previously (2023) reported on. The salvage yard was also cleaned and equipment that may spill hydrocarbons were removed. However, the bunds of the diesel tank, used oil tank and generator must still be sealed.
	WAS	STE DISPOSAL (E	MPR PG 32):	
Suitable covered receptacles always available and conveniently placed for the disposal of waste.	4	3	To be addressed	The mine needs to obtain a hazardous waste bin where contaminated rags and other -waste can be placed.
Used oils, grease, hydraulic fluids placed in hazardous receptables and removed to a licenced disposal facility.	5	-	Compliant	Proof of waste disposal is available on site.
Spills cleaned up immediately.	5	-	Compliant	The spillages previously (2023) noted at the bowser parking area, old plant and the salvage yard were cleaned, and the leaking equipment was removed.





DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE	STATUS	COMMENTS
On completion: all areas cleared of		SCORE		Not yet applicable as the Quarry is still operational.
contaminated soil that is removed to a licenced waste disposal facility.	N/A	-	-	
All buildings, structures or objects at the vehicle maintenance yard and secured storage areas delt with in accordance with Section 44 of the MPRDA.	N/A	_	-	
Surface ripped or ploughed to a depth of 200 mm and topsoil spread evenly to its original depth.	N/A	-	-	
Site seeded with a vegetation mix adapted to reflect the local grassy vegetation.	N/A	-	-	
	OPERATING PROC	EDURES IN THE M	IINING AREA (E	EMPR PG 33):
Mining only taking place within the approved demarcated mining area.	1	3	In process	The mine submitted (December 2023) a Section 102 amendment application to the DMRE to extend the mining boundary and include the sections where mining exceeded the approved footprint.
 Restrictions on the potential impact on nearby drainage channels managed throughout the mining process to recommendations contained in the EMPR: Mining related debris scattered in the drainage channels removed. Runoff generated in the Butterworth Quarry, directed into the quarry excavation. Berms constructed along the western boundary to ensure surface water from the stockpiles and crushing plant fed towards the excavation. 	4	1	-	 The debris that were historically deposited to close to the river has not been removed as it is believed that removing the rock will have a larger impact than leaving it in place. Berms are in place to direct runoff from the mine areas into the excavation.





DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE SCORE	STATUS	COMMENTS
Watering applied to minimise the effect of dust generation, and noise kept within reason.	5	-	Compliant	-
No workers allowed to damage or collect indigenous plants or snare animals.	5	-	Compliant	-
Grass and vegetation re-established on completion of mining activities.	N/A	-	-	Not yet applicable.
No firewood collected on site, and fires prohibited.	5	-	Compliant	-
	E	KCAVATIONS (EM	PR PG 33):	
Topsoil handled as described in the EMPR.	N/A	-	-	Not applicable as no topsoil was stripped during the audit period.
Excavations only taking place within the approved demarcated mining area as per phased mining approach.	1	3	Being addressed	Refer to the comment regarding the Section 102 application.
Excavations made good as per the requirements of the EMPR with precision blasting implemented to meet the desired post- quarrying topography.	5	-	Compliant	Blasting at the quarry takes place in accordance with the requirements of the rock engineer.
	PROCESSING A	REAS AND WAS1	FE PILES (EMP	PR PG 34):
Quarry personnel accommodated off-site, and no overnighting allowed apart from the security staff.	5	-	Compliant	-
Field personnel have sufficient kitchen and sanitary facilities during working hours.	5	-	Compliant	-
Toilets provided and situated in an area where no negative impact occurs.	5	-	Compliant	-
Clean water available to workers.	5	-	Compliant	The Quarry receives potable water from the municipality.
Rivers and groundwater not impacted negatively.	4	3	To be addressed	• EEC takes annual water samples at the river before and after the quarry and in the quarry pit. The most recent





DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE SCORE	STATUS	COMMENTS
				 results (February 2024) did not comment on the findings, but it appears that the nitrate level of the water in the pit is above standard. See General Report. It is also suggested that the water in the last chamber of the oil sump must be tested for the presence of hydrocarbons.
No natural vegetation unnecessarily disturbed in and around the quarry site.	5	-	Compliant	-
Mining area and surrounds always kept neat and tidy.	5	-	Compliant	On the day of the audit the mining area was neat and tidy.
Processing area and waste piles established within a clearly demarcated area to the west/north-west of the mining area.	5	-	Compliant	-
On completion: Surface of the processing area scarified to a depth of at least 200 mm and graded to an even surface and previously stored topsoil returned.	N/A	-	-	Not yet applicable.
Rehabilitated area seeded with indigenous seed mix. Fertilisers avoided.	N/A	-	-	
	FINAL REHABIL	ITATION - LAND F	FORMING (EMP	PR PG 35):
Cliff sections not exceeding 10 m in height, and bench sections 3 m or wider.	N/A	-	-	Butterworth Quarry did not yet enter the Final Rehabilitation phase.
Upper face blasted to a gradient of 1:3 down to a depth of ±6 m below surface.	N/A	-	-	
Precision blasted face to a gradient of not steeper than 85° in 10 m cliff sections.	N/A	-	-	
3 m wide bench levels between each 10 m cliff face down to the floor to the quarry.	N/A	-	-	





DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE SCORE	STATUS	COMMENTS
Post-quarry landscape not prone to erosion at an unacceptable rate.	N/A	-	-	
FINAL RE	EHABILITATION - T	OPSOIL AND SUB	SOIL REPLACE	EMENT (EMPR PG 36):
Stripped overburden backfilled into the worked out areas and used to soften quarry slopes.	N/A	-	-	Butterworth Quarry did not yet enter the Final Rehabilitation phase.
Topsoil spread over the re-profiled areas.	N/A	-	-	
Prepared surfaces seeded with a suitable grass specie.	N/A	-	-	
	MONITOR	ING AND REPORT	ING (EMPR PG	38):
Regular monitoring of all environmental management measures and components carried out by the holder.	5	-	Compliant	Butterworth Quarry is regularly audited by ASPASA and the mine reports annually on the environmental performance of the quarry.
Annual environmental audit carried out by an independent ECO and submitted to DMRE.	5	-	Compliant	The previous environmental audit was carried out by Greenmined Environmental in August 2023 and submitted to
Performance assessment report submitted to the DMRE after each audit.	5	-	Compliant	the DMRE on 09 October 2024.
Changes to the mining process documented and the necessary changes recorded to facilitate future mining operations and audit investigations.	5	-	Compliant	As mentioned earlier, a Section 102 application was submitted to the DMRE for the extension of the mining boundaries.
Adherence to the impacts associated with dolerite quarrying as outlined in the EMPR addressed during the annual audit.	5	-	Compliant	The impacts associated with the mining operations are addressed in the annual audits.
Inspections and monitoring carried out on both the implementation of the programme and the impact on plant and animal life.	5	-	Compliant	-
Emergency or unforeseen impact reported to the DMRE within 14 days of event noticed.	N/A	-	-	No emergencies or unforeseen impacts occurred during the audit period that had to be reported to the DMRE.





DESCRIPTION	COMPLIANCE SCORE	NON- COMPLIANCE SCORE	STATUS	COMMENTS
Community complaints register kept in the office, and complaints addressed as far as possible.		-	Compliant	The mine has a complaints box. As discussed, a sign must be added to the complaints box to note it as such.
Blast monitoring implemented	5	-	Compliant	B&E International is responsible for the blasting and monitoring thereof at the mine.





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

The Quarry has a complaints box where all complaints can be lodged. All complaints received during the audit period have been addressed/considered.

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

Date of previous	
EAR/EPA:	August 2023
Proof of submission to DMRE available:	The previous EAR was submitted to the DMRE on 09 October 2023, and proof of this is available from the right holder.
EAR/EPA compiled	
by independent	This EAR was compiled by Ms Christine Fouché from Greenmined Environmental
person with	(Pty) Ltd.
environmental	
auditing expertise:	
Potential and	
registered I&AP's	The holder of the mining right (Transkei Quarries (Pty) Ltd) must, within 7 days of
notified within 7 days	submission, notify all potential and registered I&AP's of the submission of the
of the submission	report. The report will also be placed on the publicly accessible Greenmined
date, and report	website.
available on publicly	
accessible website	

GENERAL REPORT

Compliance of the mining site with the EMPR (2008) was reviewed during the site assessment. The mining area recorded a compliance score of 92% for the audit period (1% increase since the previous audit).

On the day of the audit the mining area was neat and well managed. Numerous signs were added to direct traffic, notify employees and visitors of the safety requirements, control speed, demarcate work areas etc. Site management is in the process of adding a new processing plant and removing the old plant (no longer in use) at the back of the site.

Section 102 Amendment Application:

As mentioned earlier, the mining footprint exceeds the approved mining boundary and a Section 102 amendment application in terms of the MPRDA, 2002 to extend the mining footprint was submitted to the DMRE in December 2024. The application is still in process and proof of submission is available at the mine.

Site Improvements:

Butterworth Quarry implemented/corrected most of the findings of the 2023 EPA, in that the hydrocarbon spills previously noted were cleaned, the leaking equipment was removed from the salvage yard and old processing





plant and the areas cleaned, a concrete lined parking area was made for the diesel bowser, and the generator was bunded.

Spekboom (*Portulacaria afra*) was planted in the office gardens and the topsoil heaps were signposted. Sediment traps were added to the stormwater berms to retain the fines from the stormwater that flows into the quarry pit or the surroundings.

The litter previously noted along the fence line where the client trucks park was removed and refuse bins were added that can be used by the drivers.

Alien Invasive Species:

Site management removed the problem plants that re-established in zones 1, 4-6, and 12. Unfortunately the mine and surrounding areas are heavily infested with invader plant species such as Bugweed (*Solanum mauritianum*), Castor-oil (*Ricinus communis*), and Seringa (*Melia azedarach*) that requires constant management. It is proposed that the cleared areas are sown with indigenous grass species to minimise the denuded areas and lessen the re-occurrence of problem species.

Waste Handling and Chemical Storage:

As mentioned earlier, the bunds of the diesel tank, used oil tank and generator must be sealed and management must ensure that the bunds are large enough to contain 110% of the liquid stored within.

A hazardous waste bin must be added at especially the workshop where hazardous waste such as oil rags etc. can be deposited. This waste must then be removed from site by the hazardous waste handling contractor and proof must be filed.

It is proposed that the soil cleaned through bioremediation is tested at least once a year to proof that the cleaning methods are effective, and the soil is clear of hydrocarbons at the end of the process. The test results must be filed for auditing purposes.

As requested in 2023, site management accompanied the sewerage removal service provider and took pictures as proof that the waste is disposed of at the municipal sewerage works. As discussed, Jadezweni (sewerage handling service provider) must provide the site with a copy of the letter from the municipality that allows them to dispose of the sewerage at the municipal sewerage works.

Water Monitoring:

EEC annually collects water samples from the river (before and after the quarry) and the sump in the quarry pit. As mentioned earlier, the nitrate levels of the pit water seems high (even though the water results do not show guidelines/standards). The level of nitrate exceeds the limits for both sewage discharge as well as drinking water standards given by the National Water Act 1998 (ACT No. 36 of 1998). It also exceeds most GA (General Authorizations) limits. The nitrate most likely originates from blasting activity in the quarry. The mine must therefore note that the high nitrate levels will impact the environment and should be managed as it poses a significant environmental risk. Bioremediation or filtration management strategies must be implemented.

It is also proposed that the water quality tests must include a sample from the last chamber of the oil sump to test for the presence of hydrocarbons.





DOCUMENT CHECKLIST:

Alien Invasive Species Management Plan, Action Plan & R	egister -	Present
Blasting Procedure	-	Present
Complaints Register/Box	-	Present
EMPR	-	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 Plan (2024)	-	Present
Mine works program	-	Present
Mining right	-	Present
Pre-start Checklists	-	Present
Social and labour plan	-	Present
Waste disposal proof & service provider registration proof	-	Present
Monitoring results	-	Dust Monitoring (Present)
		Noise Monitoring (Present)
		Blast Monitoring (Present)
		Water Monitoring (Present)

MATTERS TO BE ADDRESSED:

- 1. Continue with the removal of problem plants and monitor cleared areas for re-occurrence;
- 2. Amend the EMPR to allow for shift work at the quarry;
- 3. Determine the 1:50 year flood line of the river;
- 4. Seal the bunds of the diesel tank, used oil tank, and generator;
- 5. Designate a drum for hazardous waste;
- 6. Address the high nitrate levels of the water in the pit;
- 7. Expand the water monitoring programme to include a sample from the last chamber of the oil sump;
- 8. Test the remediated soil to proof it does not contain hydrocarbons;
- 9. Request a municipal registration letter from Jadezweni regarding the disposal of sewerage;
- 10. Add a sign on the complaints box.

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

The EMPR was drafted before the requirements of the NEMA EIA Regulations, 2014 were promulgated and therefore not all the requirements of Appendix 4 of the GNR 326 have been considered. Butterworth Quarry has made significant progress to incorporate improved environmental management processes. It is the opinion of the author that the current EMPR of the Quarry does not adequately manage or mitigate the environmental impacts at the site.

NEED FOR AMENDMENT OF THE EMPR:

The EMPR of the Quarry will be amended as part of the pending Section 102 application that was submitted to the DMRE to address all possible impacts and provide guidance on effective environmental management of the operations.





FINANCIAL PROVISION:

This report is accompanied by a reassessment of the financial provision calculation for the year 2024 that amounts to R 5 293 566.06. The 2024 financial provision exceeds the value of financial guarantee in place at the DMRE (table below). However, the mine has a Section 102 amendment application pending with the DMRE to expand the mining footprint. It accordance with this application the financial guarantee of the mine will be increased should the S102 application be successful. The increased financial guarantee will then also account for the 2024 financial provision shortfall, and therefore the guarantee will not be increased until a decision is made on the Section 102 application.

ECO SIGNATURE

NAME:	SIGNATURE:	DATE:
Christine Fouche	Janch	14 June 2024

PHOTOGRAPHS















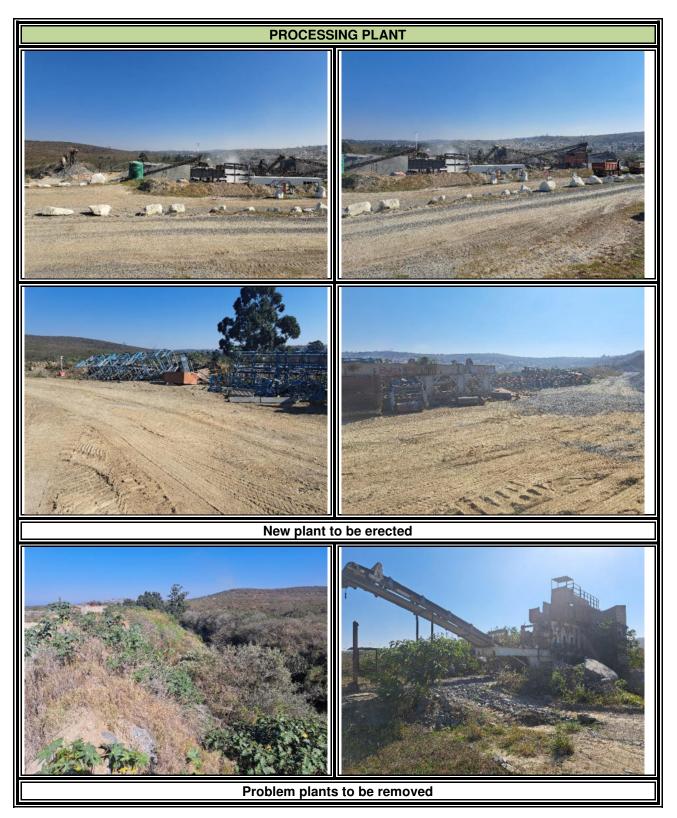














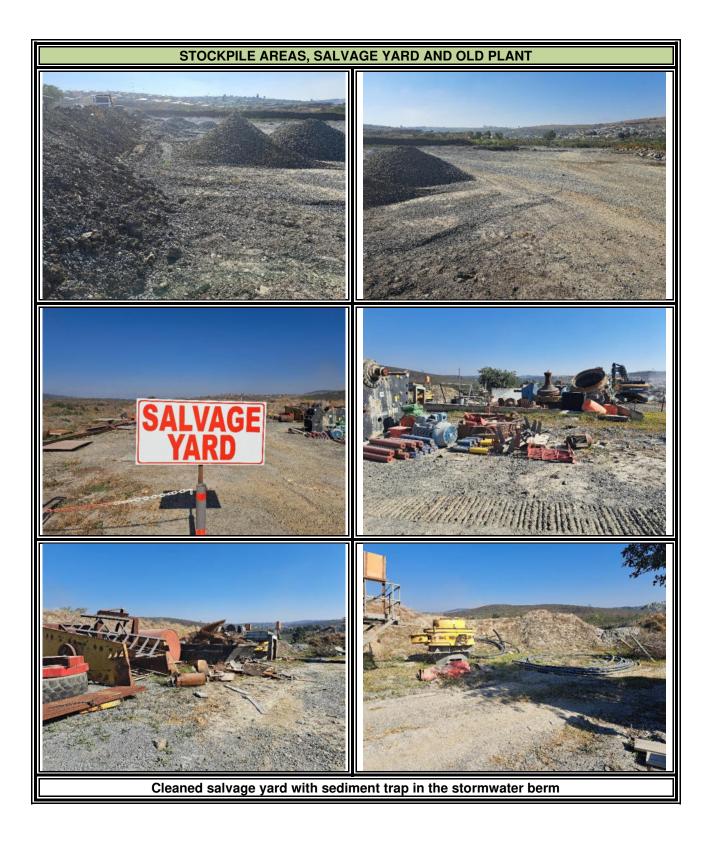












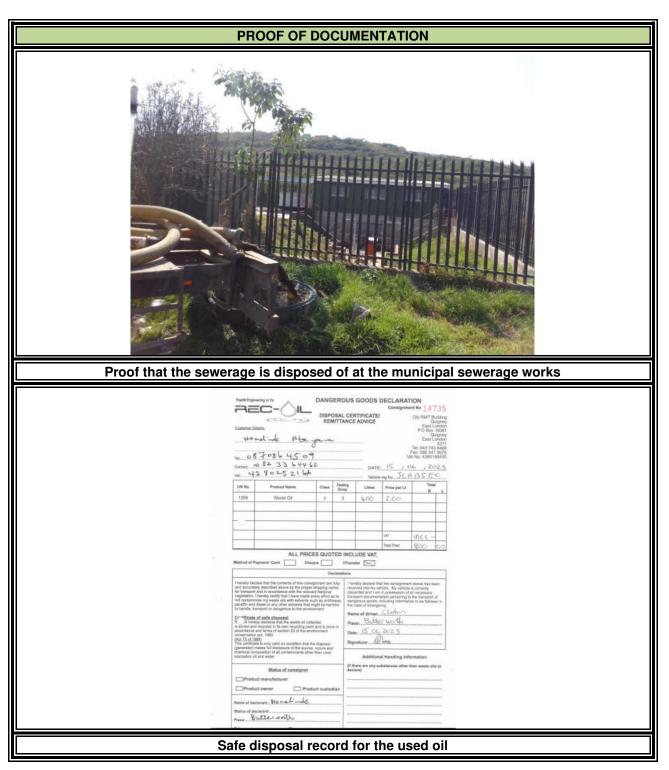




PROOF OF DOCUMENTATION				
Example of pre-start checklists				
Raumix Aggregates (South) Image of transke Quartice and Transke Quartice West Control Aggregates (South) West Control Aggregates (South) Image of transke Quartice West Control Aggregates (South) Image of transke Quartice Area/Mine: Image of transke Quartice This register must be completed every tie waste is disposed or delivered				
DATE REMOVED BY SIGNATURE VEHICLE TYPE OF WASTE QUANTITY TAKEN TO NAME OF REFNO WASTE REPORTED BY SIGNATURE VEHICLE REFNO WASTE OF WASTE OF WASTE SITE USIS/13 G-Pack JOK FATCORE GAURAL WASTE JIGUES BATTONELLIGUE AT AND				
General waste register				











PROOF OF DOCUMENTATION					
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SirMadam RE:CERTIFICATE OF DISPOSAL FO MATERIAL	<u>R GENERAL WASTE</u>				
It is hereby acknowledged that the below metrioned waste material is collected and disposed off safely by ourselves from the properties of Transkei Quaries in Butterworth, and no environmental law contravened or breached. Stock Type: General Waste Method: Landfill Disposal Location: KSD Landfill Mithatha Classification: G:L:B+ Date of Disposal: As required.					
Registration certificate of Nicam Waste (general waste service provider)				
DEE'S RECYCLING	C.C				
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SAFE DISPOSAL CERTIFIC					
DEES RECYCLING CC, TOGETHER WITH TRAN BUTTERWORTH, IS WORKING TOWAR ENVIRONMENTAL MANAG	DS RESPONSIBLE				
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INVOICE : TB 22544 WEIGHT RECEIVED : 11140 KG DESCRIPTION OF LOAD : SCRAP STI The contents of this load have been recycled in accordance with safe environmental practi Yours faithfully L. A. Harding (Manager)	at our Mthatha Branch				
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L. A . Harding					
(Manager)					
Safe disposal certificate for the scar	p metal removed from site				





