GN 704 COMPLIANCE AUDIT REPORT FOR EXXARO COAL GROOTEGELUK MINE

CONDUCTED BY



MARCH 2021

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1. INTRODUCTION

1.1. Scope of Mandate

- 1.1.1 Exxaro Coal (Pty) Ltd: Grootegeluk Mine has commissioned Inlexso to conduct an external GN 704 Compliance Audit applicable to its mining activities on the following properties in the Limpopo Province:
 - Leeuwdrif 312 LQ;
 - Grootegeluk 459 LQ;
 - Hieromtrent 460 LQ:
 - Turfvlakte 463 LQ;
 - Enkelbult 462 LQ;
 - Daarby 428 LQ;
 - Appelvlakte 448 LQ;
 - Goedehoop 457 LQ.
- 1.1.2 The mine holds two Water Use Licences,
- 1.1.2.1 No. 01/A41J/G/5318 issued on 5 June 2017.
- 1.1.2.2 No. 01/A42J/CICI/6418 issued 15 October 2019
- 1.1.3 This compliance audit was necessitated by virtue of the legal obligations set out in the Regulations on Use of Water for Mining and Related Activities Aimed at the Protection of Water Resources published under Government Notice 704 in Government Gazette 20119 in terms of the National Water Act 36 of 1998 ("GN 704").
- 1.1.4 The objective of this audit report is to verify the mine's existing management measures and to determine whether it is compliant with the obligations under GN 704.

- 1.1.5 This GN 704 compliance Audit Report ("audit report") is prepared by Selvan Subroyen and reviewed by Andries Kabeng who are employed by Inlexso, Environmental Law Department and have prepared this report in an independent capacity.
- 1.1.6 Selvan Subroyen has 13 years environmental auditing expertise and holds the following degrees: LLB, University of South Africa; BSc Honours in Environmental Science, University of KwaZulu Natal and B Paed (Geography), University of Durban-Westville.
- 1.1.7 Andries Kabeng has 6 years environmental auditing expertise and holds the following degrees: University of Pretoria (Bcom Law) and Unisa (LLB).

1.2. Methodology and Approach

- 1.2.1 This audit report will provide verifiable findings, in a structured and systematic manner, on the level of performance and compliance with the legal obligations as set out under GN 704.
- 1.2.2 This audit report will assess whether the GN 704 measures employed by the mine adequately avoids, manages and mitigates impacts on water resources.
- 1.2.3 This audit report is the result of certain conclusions reached, based on visual on- site observations of the Grootegeluk mining right area, as well as desktop audit sessions conducted by Inlexso on the 11th and 12th of March 2021 at the Grootegeluk Mine. Inlexso was accompanied during site visits by Exxaro functionaries, Filomaine Swanepoel (Senior Environmental Specialist); Simon Mashele (Environmental Specialist); Chris Labuschagne (Project Manager) and Charles Linstrom (Hydrologist) and who assisted with additional or supplemental information where required.
- 1.2.4 The specific evaluation criteria used in the audit are:

- The regulations stipulated in GN 704 and
- The DWA's M6.1 guideline for interpreting GN 704.
- 1.2.5 Instances of non compliances in terms of GN 704 are highlighted in this report followed by proposed steps for rectification and/or preventative measures by the mine. It is necessary to regard that this approach necessarily resulted in a certain level of repetition in the report.

1.3. Summary of Findings

1.3.1 Non-Compliances pertains to the following:

- The use of mine residue in the form of Overburden in the construction of Road & berms. The overburden needs to be classified and if shown to be a Type 3 waste like the overburden on Turfvlakte the mine will need to request exemption for this use under point 3 of GN 704.
- The fact that the Olifantskop dam is not a lined facility, the Project plan for the lining of the facility was shared.
- The fact that portions of the Reductant Product & Feed Stockpiles are not lined. The plan to line the facilities was shared and it was also agreed that should the areas not be lined; the areas will need to be cleaned-up.
- The loss of containment of the dirty storm water channel at the Slimes dam facility where it flows into the cement dam. The project for the upgrade for the area was shared with the auditor.

1.3.2 Observations & Partial Compliances.

- The upgrade of the Access and Signage around the PCD's and Slimes dam Facility work was visible on site and was thus captured as compliant since the process is underway.
- It was noted that the Slimes dam facility has recently gone over to a new contractor, however, the channels around the Slimes dam 1&2 needs to be cleaned since they are silted up with material and vegetation.

- The Cyclic pond areas are well managed; however, the side berms show signs of contamination that needs to be cleaned as part of housekeeping in the area.
- The Erosion Control Plan was noted as well as the various actions which need to be implemented during the dry season of 2021 to address the areas of concern.
- It was observed that some of the Plant Storm water channels are also silted and need to be cleaned by the cleaning contractor.
- At the pool workshop it was also observed that the channels taking the wash water to the separator is silted up and requires cleaning.
- At the corner of the GG1 Stock yards, one of the sumps have been cleaned of silt, however, the material was left to dry on the open soil.

1.4. Indemnity

- 1.4.1 In consideration of the fact that Inlexso has, in preparation of this report to a large degree, relied on information received from functionaries of the mine, Inlexso shall incur no liability for any claims for loss of damage which Exxaro may suffer in respect of this report and its contents. Inlexso shall however be liable for and shall indemnify Exxaro in respect of any such loss or damage which arises as result of fraud, dishonesty or gross negligence of Inlexso or any director, employee, officer, servant or agent of Inlexso.
- 1.4.2 The contents of this report address the identified issues from an environmental legal perspective and conditions may exist which were undetectable considering the limitations of this investigation. Any scientific findings alluded to in this report or documents reviewed, as adduced by Exxaro's functionaries, were on its face value accepted as correct and to be in order and relevant.

1.5. Confidentiality

1.5.2 The contents of this audit report shall be treated as confidential and is for sole use by Exxaro and is confidential to it and its professional advisers and shall

not be disclosed to any person or party, provided that the information may be disclosed:

- 1.5.2.1 by Exxaro to its officers, directors, employees, consultants and professional advisers on a need-to-know basis as confidential information;
- 1.5.2.2 if required by the provision of any law, statute, regulation or court proceedings, or by rules or regulations of any licensed stock exchange or any other applicable regulatory body with whose rules such party is accustomed to comply.

1.6. Legal Privilege

1.6.1 It is recorded that, in view of the contemplated use and application of information incorporated in this report, the contents hereof may be regarded as legally privileged

1.7. Copyright

1.7.1 Copyright subsists in the contents and format of this Report. Any unauthorised use, re – production, editing or publication of the contents and/or format of this report are acts of copyright infringement and makes the infringer liable for civil law copyright infringement and may in certain circumstances make the infringer liable to criminal prosecution in terms of Section 27 of the Copyright Act 98 of 1978.

1.8. Findings

1.8.1 An Audit Compliance Matrix as utilised during the desktop audit sessions lists all legal obligations under GN 704 and is found under paragraph 2 of this report. The action plan in respect of each finding is also contained in the Audit Compliance Matrix as found under paragraph 2 and contains the proposed rectification and/or management comment in respect of such finding.

- 1.8.2 Findings were rated in terms of the following classification:
 - 1.8.2.1 Compliant: Indicates compliance with the relevant section of GN704 conditions
 - 1.8.2.2 Partial Compliance: Indicates partial compliance with the relevant sections of GN 704 and the IWUL conditions. The mine must improve the implementation of measures to ensure compliance with the relevant conditions;
 - 1.8.2.3 Non-Compliant: Indicates non compliance with the relevant sections of GN 704 and conditions stipulated in the IWUL.
 - 1.8.2.4 Note/Not applicable: Indicates that the relevant GN 704 section is not applicable by virtue of various circumstances and/or the phase(s) of operations or that the condition is noted or that exemption is received in terms of IWUL.

2. AUDIT COMPLIANCE MATRIX

GROOTEGELUK COAL MINE COMPLIANCE AUDIT 2021 ON REGULATIONS ON USE OF WATER FOR MINING AND RELATED ACTIVITIES AIMED AT THE PROTECTION OF WATER RESOURCES

Published under Government Notice 704 in Government Gazette 20119. Commencement date: 4 June 1999 made in terms of the National Water Act 36 of 1998

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
Definitions					
	In these regulations any	Note			
	expression to which a				
	meaning has been				
	assigned in the Act, shall				
	have the meaning so				
	assigned, and unless the				
	context indicates				
	otherwise-				
	"activity", means -				
	(a) any mining related	Note			
	process on the mine				
	including the				
	operation of washing				

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	plants, mineral				
	processing facilities,				
	mineral refineries and				
	extraction plants, and	N. A			
	(b) the operation and the	Note			
	use of mineral				
	loading and off-				
	loading zones,				
	transport facilities				
	and mineral storage				
	yards, whether				
	situated at the mine				
	or not,				
	(i) in which any	Note			
	substance is				
	stockpiled, stored,				
	accumulated or				
	transported for use in				
	such process; or	N. A			
	(ii) out of which process	Note			
	any residue is				
	derived, stored,				
	stockpiled,				

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	accumulated,				
	dumped, disposed of				
	or transported;				
	"clean water system",	Note			
	includes any dam, other				
	form of impoundment,				
	canal, works, pipeline and				
	any other structure or				
	facility constructed for the				
	retention or conveyance				
	of unpolluted water;				
	"dam", includes any	Note			
	settling dam, slurry dam,				
	evaporation dam,				
	catchment or barrier dam				
	and any other form of				
	impoundment used for				
	the storage of unpolluted				
	water or water containing				
	waste;				
	"dirty area", means any	Note			
	area at a mine or activity				

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible	Date
				Person	
	which causes, has				
	caused or is likely to				
	cause pollution of a water				
	resource;				
	"dirty water system",	Note			
	includes any dam, other				
	form of impoundment,				
	canal, works, pipeline,				
	residue deposit and any				
	other structure or facility				
	constructed for the				
	retention or conveyance				
	of water containing waste;				
	"environmental	Note			
	management				
	programme", means an				
	environmental				
	management				
	programme submitted in				
	terms of section 39 of the				
	Minerals Act, 1991 (Act				
	No. 50 of 1991);				

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible	Date
				Person	
	"facility", in relation to an	Note			
	activity, includes any				
	installation and				
	appurtenant works for				
	the storage, stockpiling,				
	disposal, handling or				
	processing of any				
	substance;				
	"manager", "mine" and	Note			
	"mineral", have the				
	meanings assigned to				
	them in the Mine Health				
	and Safety Act, 1996 (Act				
	No. 29 of 1996);'				
	"person in control of a	Note			
	mine or activity", in				
	relation to a particular				
	mine or activity, includes				
	the owner of such mine or				
	activity, the lessee and				
	any other lawful occupier				
	of the mine, activity or any				
	part thereof; a tributer for				

Ref#	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	the working of the mine,				
	activity or any part				
	thereof; the holder of a				
	mining authorisation or				
	prospecting permit and if				
	such authorisation or				
	permit does not exist, the				
	last person who worked				
	the mine or his or her				
	successors-in-title or the				
	owner of such mine or				
	activity; and if such				
	person is not resident in				
	or not a citizen of the				
	Republic of South Africa,				
	an agent or				
	representative other than				
	the manager of such a				
	mine or activity must be				
	appointed to be				
	responsible on behalf of				
	the person in control of				
	such a mine or activity;				

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	"residue", includes any	Note			
	debris, discard, tailings,				
	slimes, screenings,				
	slurry, waste rock,				
	foundry sand,				
	beneficiation plant waste,				
	ash and any other waste				
	product derived from or				
	incidental to the operation				
	of a mine or activity and				
	which is stockpiled,				
	stored or accumulated for				
	potential re-use or				
	recycling or which is				
	disposed of;				
	"residue deposit",	Note			
	includes any dump,				
	tailings dam, slimes				
	dam, ash dump, waste				
	rock dump, in-pit deposit				
	and any other heap, pile				
	or accumulation of				
	residue;				

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	"stockpile", includes any	Note			
	heap, pile, slurry pond				
	and accumulation of any				
	substance where such				
	substance is stored as a				
	product or stored for use				
	at any mine or activity;				
	"the Act", means the	Note			
	National Water Act, 1998				
	(Act No. 36 of 1998);				
	"water system",	Note			
	includes any dam, any				
	other form of				
	impoundment, canal,				
	works, pipeline and any				
	other structure or facility				
	constructed for the				
	retention or conveyance				
	of water;				
2	Information and notification	1	'	1	
	(1) Any person intending	Did the holder notify the	NA, Mine has been operational since 1982		
	to operate a new	Department of the			
	mine or conduct any	intention to operate a			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	new activity must notify the Department of such intention not less than 14 days before the start of such operation or activity. (2) Any person in control of an existing mine or activity must- (a) Submit a copy of all amendments of their environmental	new mine or conduct any new activity, within 14 days before starting the operation? Did the holder submit a copy of all amendments of the environmental	Compliant IWWMP that indicates the water management plans for GG is updated and submitted annually as per the IWUL requirements.		
	management programme to the Department; (b) notify the Department in writing 14 days before the temporary or permanent	management programme to the Department? Has the holder notified the Department in writing with regards to the cessation of	Current requirements according the NEMA is that all amendments be submitted to DWS for their comment before approval, by the lead authority (DMRE).		

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	cessation of the	operation of a mine or			
	operation of a mine or	the conducting of an			
	the conducting of an	activity; or the			
	activity, or the	resumption of such			
	resumption of such	operation or activity?			
	operation or activity;				
		Did the holder ensure			
		that the notification			
		was made within 14			
		days?			
	(c) notify the Department	Did the holder notify the	Compliant, Exxaro notified DWS of the PCD dam		
	by the fastest	Department of any	overflows on 5 Feb 21 & the official letter of		
	possible means of	emergency incident or	notification was submitted 8 Feb 21		
	any emergency	potential emergency	GG.DWS.003.2021- Notification of Overflow of		
	incident or potential	incident involving a	Pollution Control Dams at GG		
	emergency incident	water resource at or			
	involving a water	incidental to operation			
	resource at or	of a mine or the			
	incidental to the	conducting of any			
	operation of a mine or	activity, furnishing			
	the conducting of any	information?			
	activity, furnishing				

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	information regarding-		Bosbok dam overflow.		

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
			Phase 2 Attenuation Dam 4		
	(i) the date and time of the incident;	Did the holder notify the Department of the date and time of the incident?	Compliant		
	(ii) a description of the incident;	Did the holder provide a description of the incident?	Compliant		
	(iii) the source of the pollution or potential pollution;	Did the holder provide the source of the	Compliant		

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
		pollution or potential			
		pollution?			
	(iv) the impact or	Did holder notify the	Compliant		
	potential impact on	Department of the			
	the water resource	impact or potential			
	and the relevant	impact on water			
	water users;	resource and the			
		relevant water users?			
	(v) remedial action taken	Has the holder notified	Compliant		
	or to be taken by the	the Department of any			
	person in control of	remedial action taken by			
	the mine or activity to	themselves of the mine			
	remedy the effects of	or activity to remedy the			
	the incident; and	effects of the incident?			
	(d) within 14 days after	Did the holder notify the	Compliant, Feedback on root causes and remedial		
	the date of an	Department in writing of	action was submitted (23 Feb 21)		
	incident	measures taken to	GG.DWS.004.2021 - Grootegeluk Dam Overflow		
	contemplated in	correct and prevent a	Feedback		
	paragraph (c) inform	recurrence of an			
	the Department in	incident involving a			
	writing of measures	water resource at or			
	taken to correct and	incidental to the			
		operation of a mine or			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	prevent a recurrence	the conducting of any			
	of such incident.	activity? Did the holder			
		make this notification			
		within 14 days after the			
		incident?			
			Bosbok Dam		

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
			Phase 2 Attenuation Dam 4		
3. Exe	mption from requirements	of regulations			
	The Minister may in writing authorise an exemption from the requirements of regulations 4, 5, 6, 7, 8, 10 or 11 on his or her own initiative or on application,	Exxaro to note.	Noted		

Ref #	Condition	Audit Question	Compliant/Non Compliant	Responsible	Date
Rei #	Condition	Audit Question	Compliant/Non-Compliant	Person	Date
	subject to such conditions				
	as the Minister may				
	determine.				
4. Res	strictions on locality				
	No person in control of a				
	mine or activity may-				
	(a) locate or place any	Did the holder ensure	Compliant, Grootegeluk is in possession of an		
	residue deposit, dam,	that no residue deposit,	approved Sec 21(c&i) license to mine through the		
	reservoir, together	dam, reservoir, together	seasonal pans occurring inside the LOM footprint		
	with any associated	with any associated	area. (18 October 2019 no. 07/A42J/CICI/6418)		
	structure or any other	structure or any other			
	facility within the	facility was located or			
	1:100-year flood-line	placed within the 1:100-			
	or within a horizontal	year flood-line or within			
	distance of 100	a horizontal distance of			
	metres from any	100 metres from any			
	watercourse or	watercourse or estuary,			
	estuary, borehole or	borehole or well,			
	well, excluding	excluding boreholes or			
	boreholes or wells	wells drilled specifically			
	drilled specifically to	to monitor the pollution			
	monitor the pollution	of groundwater,			
	of groundwater, or on				

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible	Date
Ttor "	Condition	Addit Quodion		Person	Date
	water-logged ground,	or on water-logged			
	or on ground likely to	ground, or on ground			
	become water-	likely to become water-			
	logged, undermined,	logged, undermined,			
	unstable or cracked;	unstable or cracked?			
	(b) except in relation to a	Did the holder ensure	Compliant		
	matter contemplated	that any underground or			
	in regulation 10, carry	opencast mining,			
	on any underground	prospecting or any other			
	or opencast mining,	operation or activity			
	prospecting or any	under or within the 1:50			
	other operation or	year flood-line or within			
	activity under or	a horizontal distance of			
	within the 1:50 year	100 metres from any			
	flood-line or within a	watercourse or estuary,			
	horizontal distance of	whichever is the			
	100 metres from any	greatest was not carried			
	watercourse or	out?			
	estuary, whichever is				
	the greatest;				
	(c) place or dispose of	Did the holder ensure	Compliant, the mine is authorized to Backfill the		
	any residue or	that any residue or	plant Mine residue into the Grootegeluk pit as part		

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	substance which causes or is likely to cause pollution of a water resource, in the workings of any underground or opencast mine excavation, prospecting diggings, pit or any other excavation; o	substance which causes or was likely to cause pollution of a water resource, in the workings of any underground or opencast mine excavation, prospecting diggings, pit or any other excavation was placed or disposed of?	of the rehab activities. (Sec 21g) (01/A41E/ABCGIJ/4057)		
	or depots for any substance which causes or is likely to cause pollution of a water resource within the 1:50 year flood-line of any watercourse or estuary.		Compliant, The GG fuel Depot is not near any water course.		

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
			To T		
5 Restriction	s on use of material	1	Non-compliant	E Company and	20 Dec 24
	No person in control of a mine or activity may use		Non-compliant	F Swanepoel	30 Dec 21
	any residue or substance		Currently overburden is used for the construction of		
	which causes or is likely		roads and berms in and around the pit footprint		
	to cause pollution of a		area. It is recommended that the mine seek		
	water resource for the		exemption under Reg 3 of GN704.		
	construction of any dam				
	or other impoundment or				
	any embankment, road or				

Ref#	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	railway, or for any other				
	purpose which is likely to				
	cause pollution of a water				
	resource.				
6. Capacit	y requirements of clean and di	irty water systems			l
	Every person in control				
	of a mine or activity				
	must-				
	(a) confine any	Has the holder confined	Compliant, storm water channels are in place.		
	unpolluted water to a	unpolluted water to a	Clean and dirty water is separated on site with		
	clean water system,	clean water system,	channels or berms.		
	away from any dirty	away from any dirty			
	area;	area?			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	(b) design, construct,	Has the holder	Compliant, during the site visit it was observed that		
	maintain and operate any clean water	designed, constructed, maintained and	all storm-water infrastructure was designed adequately to prevent spillage.		
	system at the mine or	operated more than	Cleaning contractors are continuously cleaning the		
	activity so that it is not	once in 50 years any	channels.		
	likely to spill into any	clean water system at			
	dirty water system	the mine or activity so			
	more than once in 50	that it was not likely to			
	years;	spill into any dirty water			
		system?			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	(c) collect the water	Did the holder collect	Compliant, dirty is contained on site. During the site		
	arising within any	the water arising within	visit it was observed that the dirty water channels		
	dirty area, including	any dirty area, including	reporting to the pit is effective. Abstraction		
	water seeping from	water seeping from	boreholes are in place to recover and contain the		
	mining operations.	mining operations,	seepage water inside basalt aquifer.		
	outcrops or any other	outcrops or any other			
	activity, into a dirty	activity, into a dirty			
	water system;	water system?			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	(d) design, construct,	Has the holder	Compliant, during the site visit it was observed that		
	maintain and operate	designed, constructed,	all storm-water infrastructure was designed		
	any dirty water	maintained and	adequately to prevent spillage.		
	system at the mine or	operated more than			
	activity so that it is not likely to spill into any	once in 50 years any dirty water system at the	Cleaning contractors are continuously cleaning the channels.		
	clean water system	mine or activity so that it	Grianners.		
	more than once in 50	is not likely to spill into			
	years; and	any clean water			
	-	system?			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	(e) design, construct,	Has the holder	Compliant. The freeboard is maintained in all the		
	maintain and operate	designed, constructed,	PCD's visited.		
	any dam or tailings	maintained and			
	dam that forms part	operated any dam or	A VIII AND A STATE OF THE PARTY		
	of a dirty water	tailings dam that forms			
	system to have a	part of a dirty water	Activities to the second second		
	minimum freeboard	system to have a			
	of 0.8 metres above	minimum freeboard of			
	full supply level,	0.8 metres above full	San		
	unless otherwise	supply level, unless			
	specified in terms of	otherwise specified in			
	Chapter 12 of the Act.	terms of Chapter 12 of			
		the Act?			
	(f) design, construct and	Has the holder	Compliant, As built drawing are available indicating		
	maintain all water	designed, constructed,	the designs consider the 1:50 year flood. The as-		
	systems in such a	and maintained all water	build drawings for Mamba dam indicates that could		
	manner as to	systems in such a	be smaller however the dam is operated at less		
	guarantee the	manner as to guarantee	than 50% to compensated for this.		
	serviceability of such	the serviceability of			
	conveyances for	such conveyances for			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible	Date
				Person	
	flows up to and	flows up to and			
	including those	including those arising			
	arising as a result of	because of the			
	the maximum flood	maximum flood with an			
	with an average	average period of			
	period of recurrence	recurrence of once in 50			
	of once in 50 years.	years?			
7. Pro	tection of water resources				
	Every person in control of				
	a mine or activity must				
	take reasonable				
	measures to-				
	(a) prevent water	Has the holder taken	Non-Compliant	Chris	31 Dec 2022
	containing waste or	reasonable measures to	All PCD's and RDW's facilities at GGC have been	Labuschagne &	
	any substance which	prevent water containing waste or any	licensed and are part of the approved WUL. They		
	causes or is likely to	substance which causes	are all suitably lined as per the IWUL requirement,		
	cause pollution of a	or is likely to cause	except for the Olifantskop dam.		
	water resource from	pollution of a water resource from entering	Currently the mine is in the process of lining this		
	entering any water	any water resource,	dam and there is a registered capital project for		
	resource, either by	either by natural flow or	this.		
	natural flow or by	by seepage?			
	seepage, and must	Has the holder taken			
	retain or collect such	reasonable measures to			

Ref#	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	substance or water containing waste for use, re-use, evaporation or for purification and disposal in terms of the Act;	retain or collect such substance or water containing waste for use, re-use, and evaporation or for purification and disposal in terms of the Act?	The Reductant Product and Feed Stockpile expansions at the Reductant facility also still needs to be lined according to the WUL requirements. These is currently a Capital project that is aimed doing so. If this is not implemented the areas needs to be cleaned.	Armand Bezuidenhout	31 Aug 2021
	(b) design, modify, locate, construct and maintain all water systems, including	Has the holder taken reasonable measures to design, modify, locate, construct and maintain	Compliant No instream Infrastructure. Storm Water systems are however maintained to prevent pollution of water resources.		

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible	Date
		Audit Quodion		Person	
	residue deposits, in	all water systems,			
	any area so as to	including residue			
	prevent the pollution	deposits, in any area so			
	of any water resource	as to prevent the			
	through the operation	pollution of any water			
	or use thereof and to	resource through the			
	restrict the possibility	operation or use thereof			
	of damage to the	and to restrict the			
	riparian or in-stream	possibility of damage to			
	habitat through	the riparian or instream			
	erosion or	habitat through erosion			
	sedimentation, or the	or sedimentation or the			
	disturbance of	disturbance of			
	vegetation, or the	vegetation, or the			
	alteration of flow	alteration of flow			
	characteristics;	characteristics?			
	(c) cause effective	Has the holder taken	Compliant		
	measures to be taken	reasonable measures to			
	to minimise the flow	cause effective	Water is prevented from entering the pit via a range		
	of any surface water	measures to be taken to	of berms. The mine has two licensed in Pit sumps		
	or floodwater into	minimise the flow of any	where in-pit water is captured for reuse in the		
	mine workings,	surface water or	plants. These sumps are also part of the water		
	opencast workings,	floodwater into mine	reticulation system.		

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	other workings or subterranean caverns, through cracked or fissured formations, subsided ground, sinkholes, outcrop excavations, audits, entrances or any other openings;	workings, opencast workings other workings or subterranean caverns, through cracked or fissured formations, subsided ground, sinkholes, outcrop excavations, audits, entrances or any other openings?			
	d) design, modify, construct, maintain and use any dam or any residue deposit or stockpile used for the disposal or storage of mineral tailings, slimes, ash or other hydraulic transported	Has the holder taken reasonable measures to design, modify, construct, maintain and use any dam or any residue deposit or stockpile used for the disposal or storage of mineral tailings, slimes, ash or other hydraulic	Compliant. Quarterly Stability Audits are conducted for the Slimes dam facility. The approved As-built designs are available for the Cyclic ponds.		

Ref#	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	substances, so that the water or waste	transported substances, so that the water or			
	therein, or falling therein, will not result	waste therein, will not result in the failure			
	in the failure thereof or impair the stability thereof; entering and polluting any water resources;	thereof or impair the stability thereof?			
		Has the holder taken	Compliant,		
		reasonable measures to prevent the erosion or	Erosion Control Plan is in place. Areas of concern were identified in the 2020 Audit and there is an		
		leaching of materials	action plan that needs to be implemented in the Dry		
		from any residue	season on 2021. Erosion is managed accordingly.		
		deposit or stockpile from			
		any area and contain			
		material or substances			
		so eroded or leached in			
		such area by providing suitable barrier dams,			
		evaporation dams or			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
		any other effective measures to prevent this material or substance from entering and polluting any water resources?			
	(f) ensure that water used in any process	Did the holder take reasonable measures to	Compliant The mines water reticulation system for process		
	at a mine or activity is	ensure that water used	water is in place. The workshops also use recycled		
	recycled as far as	in any process at a mine	water from the oil separators & washing for		
	practicable, and any	or activity was recycled	washing of floors etc.		
	facility, sump,	as far as practicable?			
	pumping installation, catchment dam or	Did the holder ensure			
	other impoundment	that any facility, sump,			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	used for recycling water, is of adequate design and capacity to prevent the spillage, seepage or release of water containing waste at any time;	pumping installation, catchment dam or other impoundment used for recycling water, was of adequate design and capacity to prevent the spillage, seepage or release of water containing waste at any time?			
	g) at all times keep any water system free from any matter or obstruction which may affect the efficiency thereof; and	Did the holder take reasonable measures to keep any water system free from any matter or obstruction which may affect the efficiency thereof at all times?	Partially compliant, some channels observed are silted up, even with vegetation growing. There is a contract in place to clean the channels.	A Molauzi	Ongoing

Ref#	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
			Storm water drainage Channel at the slimes dam facility		
	(h) cause all domestic	Did the holder take	Compliant		
	waste, including wash-water, which cannot be disposed of in a municipal sewage system, to be disposed of in terms	reasonable measures to cause all domestic waste, including wash water, which cannot be disposed of in a municipal sewage system, to be disposed	Domestic waste water is disposed at the mins SWWTP. All process water is recovered for reuse.		

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	of an authorisation	of in terms of an			
	under the Act.	authorisation under the			
		Act?			
8. Se	curity and additional measu	res			
	Every person in control of				
	a mine or activity must-				
	a) cause any	Has the holder caused	Compliant		
	impoundment or dam	any impoundment or	Project in place to upgrade fencing and signage.		
	containing any	dam containing any			
	poisonous, toxic or	poisonous, toxic or			
	injurious substance	injurious substance to			
	to be effectively	be effectively fenced off	LIFEBUOY		
	fenced-off so as to	so as to restrict access	PENSTOCK		
	restrict access	thereto?	MOTUAD YOUR INSTRUMENT OF THE PROPERTY OF THE		
	thereto, and must		WIND ROS		
	erect warning notice	Has the holder erected			
	boards at prominent	warning notice boards at			
	locations so as to	prominent locations so			
	warn persons of the	as to warn persons of			
	hazardous contents	the hazardous contents			
	thereof;	thereof?			

Ref#	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	(b) ensure access	Did the holder ensure	Compliant		
	control in any area	access control in any	Access control is in place		
	used for the	area used for the			
	stockpiling or	stockpiling or disposal of			
	disposal of any	any residue or	THE RESERVE OF THE PARTY OF THE		
	residue or substance	substance which			
	which causes, has	causes, has caused or			
	caused or is likely to	was likely to cause			
	cause pollution of a	pollution of a water			
	water resource so as	resource so as to	Control of the Contro		
	to protect any	protect any measures			
	measures taken in	taken in terms of these			
	terms of these	regulations?			
	regulations;				
	(c) not allow the area	Did the holder ensure	Compliant		
	contemplated in	that the area			
	paragraph (a) and (b)	contemplated in	Areas are only used for licensed activities.		
	to be used for any	paragraph (a) and (b)			
	other purpose, if such	was not used for any			
	use causes or is likely	other purpose which			
	to cause pollution of a	would cause or likely to			
	water resource; and				

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
		cause pollution of a			
		water resource?			
	d) protect any existing	Did the holder ensure	Partially compliant. Some channels damaged and	A Nyambi	30 May 21
	pollution control	that any existing	not yet fixed:		
	measures or replace	pollution control			
	any existing pollution	measures were	Cement Dam inflow at the Slimes Facility		
	control measures	protected? Or did the			
	deleteriously	mine replace any			
	affected, damaged or	existing pollution control			
	destroyed by the	measures deleteriously			
	removing or	affected, damaged or			
	reclaiming of	destroyed by the			
	materials from any	removing or reclaiming			
	residue deposit or	of materials from any			
	stockpile, and	residue deposit or			
	establish additional	stockpile?			
	measures for the				
	prevention of	Did the mine establish			
	pollution of a water	additional measures for			
	resource which might	the prevention of			
	occur, is occurring or	pollution of a water			
	has occurred as a	resource which might			
		occur, is occurring or			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible	Date
RCI #	Condition	Audit Question		Person	Date
	result of such	has occurred as a result			
	operations.	of such operations?			
9. Te	mporary or permanent cessa	ation of mine or activity			,
	(1) Any person in control	Did the holder ensure	NA		
	of a mine or activity	that all pollution control			
	must at either	measures have been			
	temporary or	designed, modified,			
	permanent cessation	constructed and			
	of operations ensure	maintained so as to			
	that all pollution	comply with these			
	control measures	regulations at either			
	have been designed,	temporary or permanent			
	modified, constructed	cessation of			
	and maintained so as	operations?			
	to comply with these				
	regulations.				
	(2) Any person in control	Did the holder ensure	NA		
	of a mine or activity	that the in-stream and			
	must ensure that the	riparian habitat of any			
	in-stream and	water resource, which			
	riparian habitat of any	may have been affected			
	water resource,	or altered by a mine or			
	which may have been	activity, is remedied so			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	affected or altered by	as to comply with these			
	a mine or activity, is	regulations?			
	remedied so as to				
	comply with these				
	regulations.				
	(3) On either temporary	Exxaro to note.	NA		
	or permanent				
	cessation of a mine				
	or activity the Minister				
	may request a copy				
	of any surface or				
	underground plans				
	as required in terms				
	of the Minerals Act,				
	1991.				
10. A	Additional regulations relating	to winning sand and alluv	vial minerals from watercourse or estuary		
	(1) No person may-				
	(a) extract sand, alluvial	Has the holder ensured	NA		
	minerals or other	that no person has			
	materials from the	extracted sand, alluvial			
	channel of a	minerals or other			
	watercourse or	materials from the			
	estuary, unless	channel of a			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	reasonable	watercourse or estuary,			
	precautions are taken	unless reasonable			
	to-	precautions were			
		taken?			
	(i) ensure that the	Has the holder ensured	NA		
	stability of the	that the stability of the			
	watercourse or	watercourse or estuary			
	estuary is not	was not affected by			
	affected by such	such operations?			
	operations;				
	(ii) prevent scouring and	Has the holder ensured	NA		
	erosion of the	that scouring and			
	watercourse or	erosion of the			
	estuary which may	watercourse or estuary			
	result from such	which may result from			
	operations or work	such operations or work			
	incidental thereto;	incidental thereto was			
		prevented?			
	(iii) prevent damage to	Has the holder ensured			
	in-stream or riparian	that damage to instream	NA		
	habitat through	or riparian habitat			
	erosion,	through erosion,			
	sedimentation,	sedimentation,			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible	Date
				Person	
	alteration of	alteration of vegetation			
	vegetation or	or structure of the			
	structure of the	watercourse or estuary,			
	watercourse or	or alteration of the flow			
	estuary, or alteration	characteristics of the			
	of the flow	watercourse or estuary			
	characteristics of the	was prevented?			
	watercourse or				
	estuary; or				
	(b) establish any slimes	Did the holder establish	NA		
	dam or settling pond	any slimes dam or			
	within the 1:50 year	settling pond within the			
	flood-line or within a	1:50 year flood-line or			
	horizontal distance of	within a horizontal			
	100 metres of any	distance of 100 metres			
	watercourse or	of any watercourse or			
	estuary.	estuary?			
	(2) Every person winning	Did the holder ensure	NA		
	sand, alluvial	that every person			
	minerals or other	winning sand, alluvial			
	materials from the	minerals or other			
	bed of a watercourse	materials from the bed			
	or estuary must-	of a watercourse or			

Ref #	Condition	Audit Question	Compliant/Non Compliant	Responsible	Date
Rei #	Condition	Audit Question	Compliant/Non-Compliant	Person	Date
		estuary has complied			
		with the questions			
		below?			
	(a) construct treatment	Has the holder	NA		
	facilities to treat the	constructed treatment			
	water to the standard	facilities to treat the			
	prescribed in	water to the standard			
	Government Notice	prescribed in			
	No. R.991 dated 26	Government Notice No.			
	May 1984 as	R.991 dated 26 May			
	amended or by any	1984 as amended or by			
	subsequent	any subsequent			
	regulation under the	regulation under the Act			
	Act before returning	before returning the			
	the water to the	water to the			
	watercourse or	watercourse or estuary?			
	estuary;				
	(b) limit stockpiles or	Has the holder limited	NA		
	sand dumps	stockpiles or sand			
	established on the	dumps established on the bank of any			
	bank of any	watercourse or estuary			
	watercourse or	to that realised in two			
	estuary to that	days of production?			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	realised in two days	Has the holder dumped			
	of production, and all	or stockpiled all other			
	other production	production outside of			
	must be stockpiled or	the 1:50 year flood-line			
	dumped outside of	or more than a			
	the 1:50 year flood-	horizontal distance of			
	line or more than a	100 metres from any			
	horizontal distance of	watercourse or estuary?			
	100 metres from any				
	watercourse or				
	estuary; and				
	(c) implement control	Did the holder	NA		
	measures that will	implement control			
	prevent the pollution	measures that would			
	of any water resource	prevent the pollution of			
	by oil, grease, fuel or	any water resource by			
	chemicals.	oil, grease, fuel or			
		chemicals?			
11. Add	ditional regulations for reha	bilitation of coal residue o	deposits		
	Any person mining or				
	establishing coal residue				
	deposits must rehabilitate				

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	such residue deposits so that-				
	(a) all residue deposits are compacted to prevent spontaneous combustion and minimise the infiltration of water; and	Did the holder ensure that all residue deposits were compacted to prevent spontaneous combustion and minimise the infiltration of water?	Compliant The placing of the Residue Material results in sufficient compaction and is approved in the EMPR. During the site visit there was no Spontaneous combustion evident. Red sand is used to control any Spontaneous Combustion that does occur.		

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	b) the rehabilitation of the residue deposits is implemented concurrently with the mining operation.	Did the holder ensure that the rehabilitation of the residue deposits is implemented concurrently with the mining operation?	Compliant The concurrent rehab of the pit area as part of the Backfill activities was observed. The mine has also submitted a Rehabilitation EA and WL application for Dum 4&5 (Dec 2019), the process is still underway and with the DMRE for Approval.		

Ref#	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	(1) The Minister may,	Did the holder ensure to	Noted	1 010011	
	after consultation	arrange for a technical	Noted		
	with the Department	investigation or			
	·				
		inspection, which may			
	Energy and the	include an independent			
	Department of	review, to be conducted			
	Environmental Affairs	on any aspect aimed at			
	and Tourism, in	preventing pollution of a			
	writing require any	water resource or			
	person in control of a	damage to the in-stream			
	mine or activity to	or riparian habitat			
	arrange for a	connected with or			
	technical	incidental to the			
	investigation or	operation or any part of			
	inspection, which	the operation of a mine			
	may include an	or activity?			
	independent review,				
	to be conducted on				
	any aspect aimed at				
	preventing pollution				
	of a water resource or				
	damage to the in-				
	_				
	stream or riparian				

Condition	Audit Question	Compliant/Non-Compliant	Responsible	Date
			Person	
of a mine or activity.				
(2) Such investigation	Exxaro to note.	Noted		
must be conducted				
and a report thereon				
compiled in the				
manner and within				
the time period that				
the Minister may				
specify.				
(3) The person in control	Did the holder ensure	Noted		
of the mine or activity	that the Minister was			
must inform the	informed to the			
Minister as to the	expertise and			
expertise and	qualifications of the			
qualifications of the	persons who are to			
	·			
conduct an				
_				
	habitat connected with or incidental to the operation or any part of the operation of a mine or activity. (2) Such investigation must be conducted and a report thereon compiled in the manner and within the time period that the Minister may specify. (3) The person in control of the mine or activity must inform the Minister as to the expertise and qualifications of the persons who are to	habitat connected with or incidental to the operation or any part of the operation of a mine or activity. (2) Such investigation must be conducted and a report thereon compiled in the manner and within the time period that the Minister may specify. (3) The person in control of the mine or activity must inform the Minister as to the expertise and qualifications of the persons who are to conduct an investigation or inspection investigation or contemplated in	habitat connected with or incidental to the operation or any part of the operation of a mine or activity. (2) Such investigation must be conducted and a report thereon compiled in the manner and within the time period that the Minister may specify. (3) The person in control of the mine or activity must inform the Minister as to the expertise and qualifications of the persons who are to conduct an investigation or contemplated in the the operation or any part of the other or activity on the other or activity or inspection or contemplated in the distinct of the mine or activity or inspection or contemplated in the other or activity or inspection or contemplated in the other or activity or inspection or or inspection or or inspection or contemplated in the other or activity or inspection or or ins	Audit Question Compliant/Non-Compliant habitat connected with or incidental to the operation or any part of the operation of a mine or activity. (2) Such investigation must be conducted and a report thereon compiled in the manner and within the time period that the Minister may specify. (3) The person in control of the mine or activity must inform the Minister as to the expertise and qualifications of the persons who are to conduct an investigation or contemplated in conduct an investigation or contemplated in conduct an investigation or contemplated in compared to compliant/Non-Compliant Person Noted Noted

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	contemplated in	the commencement			
	subregulation (1)	thereof?			
	before the				
	commencement				
	thereof.				
	(4) The Minister may in	Did the holder ensure	Noted		
	writing require any	that a programme of			
	person in control of a	implementation to			
	mine or activity to	prevent or rectify any			
	submit a programme	pollution of a water			
	of implementation to	resource or damage to			
	prevent or rectify any	the in-stream or riparian			
	pollution of a water	habitat as			
	resource or damage	recommended by the			
	to the in-stream or	investigation			
	riparian habitat as	contemplated in			
	recommended by the	subregulation (1) within			
	investigation	the time period that the			
	contemplated in	Minister may specify			
	subregulation (1)	was submitted?			
	within the time period				
	that the Minister may				
	specify.				

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible	Date
			Compilation Compilation	Person	
	5) The Minister may in	Did the holder	Noted		
	writing direct any	implement a			
	person in control of a	compliance monitoring			
	mine or activity to	network to monitor the			
	implement a	programme of			
	compliance	implementation			
	monitoring network to	contemplated in			
	monitor the	subregulation (4),			
	programme of	through establishing,			
	implementation	operating and			
	contemplated in	maintaining monitoring			
	subregulation (4),	installations of a type,			
	through establishing,	at the locations and in			
	operating and	the manner specified			
	maintaining	by the Minister and to			
	monitoring	submit the monitoring			
	installations of a type,	information and results			
	at the locations and in	to the Minister for			
	the manner specified	evaluation?			
	by the Minister and to				
	submit the monitoring				
	information and				

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	results to the Minister				
	for evaluation.				
	(6) Subject to Chapter 4	Did the holder submit	Compliant		
	of the Act, any person	plans, specifications	Design Report are submitted to the Department as		
	in control of a mine or	and design reports	part of all new IWUA & all As-build drawings are also		
	activity must submit	approved by a	submitted as a condition of the Grootegeluk IWUL		
	plans, specifications	professional engineer			
	and design reports	to the Minister?			
	approved by a				
	professional engineer				
	to the Minister, not				
	later than 60 days				
	prior to				
	(a) the construction of	Did the holder submit	Compliant		
	any surface dam for	plans, specifications			
	the purpose of	and design reports			
	impounding waste,	approved by a			
	water containing	professional engineer to			
	waste or slurry, so as	the Minister relating to			
	to prevent the	the construction of any			
	pollution of a water	surface dam for the			
	resource;	purpose of impounding			
		waste, water containing			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible	Date
KOI II	Condition	Addit Question		Person	Dute
		waste or slurry, so as to			
		prevent the pollution of			
		a water resource?			
	(b) the implementation of	Did the holder submit	Compliant		
	any pollution control	plans, specifications and			
	measures at any	design reports relating			
	residue deposit or	to the implementation of			
	stockpile, so as to	any pollution control			
	prevent the pollution	measures at any residue			
	of a water resource;	deposit or stockpile, so			
	and	as to prevent the			
		pollution of a water			
		resource?			
	(c) the implementation of	Did the holder submit	Compliant		
	any water control	plans, specifications and			
	measures at any	design reports relating			
	residue deposit or	to the implementation of			
	stockpile, so as to	any water control			
	prevent the pollution	measures at any residue			
	of a water resource	deposit or stockpile, so			
		as to prevent the			
		pollution of a water			
		resource?			

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible	Date
				Person	
13.	General				
	The person in control of a	Did the holder provide	Compliant		
	mine or activity must	the manager with the			
	provide the manager with	means and afford him or	Various Capital project are in place to ensure		
	the means and afford him	her every facility	GN704 Compliance and the maintenance of		
	or her every facility	required to enable the	systems are also part of the approved budgets for		
	required to enable the	manager to comply with	the areas.		
	manager to comply with	the provisions of these			
	the provisions of these	regulations?			
	regulations.				
14.	Offences and penalties	1			
	(1) Any person who	Exxaro to note.	Noted		
	contravenes or,				
	subject to regulation				
	3, fails to comply with				
	regulation 2, 4, 5, 6,				
	7, 8, 9, 10, 11, 12 or				
	13 is guilty of an				
	offence and liable on				
	conviction to a fine or				
	to imprisonment for a				
	period not exceeding				
	five years.				

Ref #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
	(2) Whenever an act or	Exxaro to note.	Noted		
	omission by a				
	manager or				
	employee of a mine				
	or activity-				
	(a) constitutes an	Exxaro to note.	Noted		
	offence in terms of				
	these regulations,				
	and takes place with				
	the express or				
	implied permission of				
	the person in control				
	of a mine or activity,				
	that person is, in				
	addition to the				
	manager or				
	employee, liable to				
	conviction for that				
	offence; or				
	(b) would constitute an	Exxaro to note.	Noted		
	offence by the person				
	in control of a mine or				
	activity in terms of				

Ref	f #	Condition	Audit Question	Compliant/Non-Compliant	Responsible Person	Date
		these regulations that				
		manager or				
		employee is, in				
		addition to that				
		person, liable to				
		conviction for that				
		offence.				

I Ronald Mafoko (name and surname), as the General Manager of Grootegeluk Coal Mine, confirm that I have read and understand	
the content of this report.	
Signed at Grootegeluk Lephalale (place) on this (day) of May (month) 2021	
Constal Manager	NA/:ta a a a
General Manager	Witness