WONDERKOP CONCERN COMMUNITY

20 JULY 2023

A warm welcome to everyone in Attending.

Content :Tailing Dam Facility

:Blocked Sewer Line

:Smelter Operation Query

:Wonderkop Koppie

Wonderkop Concern Community

International Council on Mining And Metals (Tailings Principles)

- The Global Industry Standard on Tailings Management (the Standard) strives to achieve the ultimate goal of zero harm to people and the environment. Underpinned by an integrated approach to tailings management, the Standard aims to prevent catastrophic failure and enhance the safety of mine tailings facilities across the globe. It embodies a step-change in terms of transparency, accountability and safeguarding the rights of project affected people.

- To conform with the Standard, operators must use specified measures to prevent the catastrophic failure of tailings facilities and to implement best practices in planning, design, construction, operation, maintenance, monitoring, closure and post closure activities.

International Council on Mining And Metals (Tailings Principles)

- Topic Area I focuses on project-affected people. To respect human rights, including the individual and collective rights of indigenous and tribal peoples, a human rights due diligence process is required to identify and address those that are most at risk from a tailings facility or its potential failure. To demonstrate respect, project-affected people must be afforded opportunities for meaningful engagement in decisions that affect them. The requirements within Topic Area I are intended to be cross-cutting in terms of being addressed across all operational activities and ongoing throughout the tailings facility lifecycle.

Tailing Dam Facility No6 Pettition

- **26/05/2023**
- TDF 6
- This letter serves as petition letter that Wonderkop Community request assistance from NGO`s **Mining Watch Canada ,Bench Marks Foundation and Earthworks** to intervene in the tailing dam (TDF 6) that is constructed behind our village without the Community engagement and consultation prior the construction of the tailing dam.
- According to NEMA Act 107 of 1998 all affected parties or community should be engaged and consulted to address all the risk and safety associated with the tailing dam operations prior the commencement of the project.
- The EIA report was received from Sibanye Stillwater however the EIA report is not adequate enough to address all the risk that can impact Wonderkop Community.
- The EIA report is generic and not specific to the tailing dam and it talks a lot about mining operation not tailing dam e.g (stockpiles, Shafts, Plant).
- All the contributing factors to the tailing dam failure are excluded; Altitude, Radius, Underground blasting, Open cast blasting and Adverse weather conditions.
- All risk ratings are from Low-Medium while the tailing dam pose the Community in high risk especially when we are 1.28 Km away from the tailing dam and the tailing dam is sloping towards our community.
- Community participation meeting minutes and attendance registers not attached on the EIA report (Appendix2)
- The EIA report was not properly conducted we would like intervention on this matter with Sibanye Stillwater and Above mention NGO`s.

Spillage Hazards & Risk

- Soil and Water contamination.
- Health and Environmental risk to the community members, livestock and aquatic animals.

- Community members fishing.
- Children swimming in the river and the dams.
- Spiritual healer and church members conducting baptism ceremonies.
- Live stock drinking and grazing on contaminated areas.

Tailing Dam Spillage to the river

Livestock grazing on affected area

Lab Report Of Analysis

[redacted]

MC-LF-04-06

PREPARATION PROCEDURE USED: MC-LP-PP-01-04

ANALYTICAL PROCEDURE USED: MC-LP-IN-32-02

REFERENCE MATERIAL USED: AMIS 0388 AND INHOUSE QC

REPORT OF ANALYSIS TO COMPANY: BROWN (WONDERKOP)

DATE RECEIVED: 18-Jul-23
CUSTOMER NAME: **BROWN MATLOKO** 065 186 0954
gomotsegangbrown@hotmail.com

DATE OF ANALYSIS: 19-Jul-23
MATERIAL TYPE: FINES
WAYBILL NUMBER:
REPORT NUMBER: F9113

CHEMICAL ANALYSIS

				Fire Assay	Wet Chem	Wet Chem	Calc	ICP	ICP	ICP	ICP	ICP	XRF	
				ELEMENTS										
FULL XRF SCAN				4E PGM	Cr_2O_3	FeO	Cr/Fe:1	SiO_2	MgO	Al_2O_3	CaO	P	S	Moisture
SAMPLE ID	SAMPLING DATE	LAB ID	Mass (g)	g/t	%	%	Calc	%	%	%	%	%	%	%
TAILING DAM SPILLAGE	18-Jul-23	F9113	1020.80				#DIV/0!							

Declaration
We, [redacted] fully independent laboratory, hereby certify that, for the product as described above,
1. Metchem Laboratory is not responsible for the sampling activity related to this sample
2. The measurements are traceable to national and international standards.
3. The results relate only to the items tested and are reported on the dry basis.
4. Control Charts for the QC's are updated and kept for each sample analysed by the laboratory
5. Any deviations outside the estimated uncertainty on each element analysed and reported will be stated.

Approval of certificate

[redacted]

Technical Signatory — Laboratory Manager/Chemist — 19-Jul-23 Date Issued

Sample Name	BROWN F9113	Dilution Material	HWC
Method	Geochem Traces (A) current control	Sample Mass	5.0000
Sample Folder	July 2023	Dilution Mass	1.0000
Sample Type	Pressed Tablet	Dilution Factor	0.8333
Sample Status	AAAAXXXX	Measurement Date	7/19/2023 9:09 AM
Operator	Admin User	Evaluation Date	7/19/2023 9:09 AM

Tailing Dam Spillage

Results - BROWN F9113

The error is the statistical error with 1 sigma confidence interval

	Element		Concentration		Abs. Error
11	Na_2O	Sodium oxide	5.234	%	0.036
12	MgO	Magnesium oxide	9.798	%	0.024
13	Al_2O_3	Aluminium oxide	5.236	%	0.013
14	SiO_2	Silicon dioxide	17.01	%	0.01
15	P	Phosphorus	0.00738	%	0.00063
16	S	Sulfur	9.992	%	0.004
17	Cl	Chlorine	3.884	%	0.002
19	K_2O	Potassium oxide	0.1167	%	0.0008
20	CaO	Calcium oxide	4.917	%	0.003
21	Sc	Scandium	< 0.0011	%	-
22	TiO_2	Titanium dioxide	0.6611	%	0.0008
23	V_2O_5	Vanadium pentoxide	0.03258	%	0.00035
24	Cr_2O_3	Cromiumoxide	2.227	%	0.001
25	MnO	Manganese(II) oxide	0.1190	%	0.0003
26	FeO	FeO	4.341	%	0.003
27	Co	Cobalt	< 0.00010	%	-
28	Ni	Nickel	0.01315	%	0.00011
29	Cu	Copper	0.00363	%	0.00005
30	Zn	Zinc	0.00522	%	0.00005
31	Ga	Gallium	0.00085	%	0.00002
32	Ge	Germanium	0.00006	%	0.00001
33	As	Arsenic	0.7	ppm	0.1
34	Se	Selenium	< 0.00001	%	-
35	Br	Bromine	0.00821	%	0.00003
37	Rb	Rubidium	0.00052	%	0.00001
38	Sr	Strontium	0.01755	%	0.00003
39	Y	Yttrium	0.00072	%	0.00001
40	Zr	Zirconium	0.01246	%	0.00003
41	Nb	Niobium	0.00036	%	0.00002
42	Mo	Molybdenum	< 0.00002	%	-
44	Ru	Ruthenium	< 0.3	ppm	-
45	Rh	Rhodium	< 0.2	ppm	-
46	Pd	Palladium	< 0.3	ppm	-
47	Ag	Silver	< 0.2	ppm	-
48	Cd	Cadmium	< 0.00002	%	-
49	In	Indium	< 0.3	ppm	-
50	Sn	Tin	0.00031	%	0.00002
51	Sb	Antimony	< 0.00007	%	-
52	Te	Tellurium	< 0.00005	%	-
53	I	Iodine	< 0.00015	%	-
55	Cs	Cesium	0.00081	%	0.00010

Tailing Dam spillage

56	Ba	Barium	0.01225	%	0.00019
57	La	Lanthanium	0.00250	%	0.00020
58	Ce	Cerium	0.00344	%	0.00029
59	Pr	Praseodymium	0.00176	%	0.00025
60	Nd	Neodymium	< 0.00007	%	-
62	Sm	Samarium	0.00096	%	0.00047
70	Yb	Ytterbium	< 0.00020	%	-
72	Hf	Hafnium	0.00051	%	0.00009
73	Ta	Tantalum	0.00035	%	0.00012
74	W	Tungsten	0.00032	%	0.00008
77	Ir	Iridium	-		-
78	Pt	Platinum	0.0	ppm	0.0
79	Au	Gold	< 0.2	ppm	-
80	Hg	Mercury	< 0.00002	%	-
81	Tl	Thallium	0.00006	%	0.00002
82	Pb	Lead	0.00047	%	0.00002
83	Bi	Bismuth	< 0.00003	%	-
90	Th	Thorium	0.7	ppm	0.1
92	U	Uranium	< 0.3	ppm	-

Hazard Identification of Chemicals

- **Routes of Entry**:

Eye Contact. Inhalation. Ingestion. Absorbed through skin.

- **Potential Health Effects:**

- **Eyes**

May cause slight eye irritation and local inflammation.

- **Skin**

May be harmful if absorbed through skin. May cause slight skin irritation.

- **Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

Hazard Identification of Chemical

- **Ingestion**

May be harmful if swallowed.

It may cause irritation and/or a burning sensation in the mouth, pharynx, oesophagus and gastrointestinal tract. Symptoms may include abdominal pain, nausea, vomiting and diarrhoea.

Accidental Release Measures

- **Personal Precautions:**

Use personal protective equipment. Avoid substance contact and inhalation. Avoid dust formation. Ensure adequate ventilation.

- **Environmental Protection Measures:**

Do not allow to enter sewerage system or the river.

- **Small Spill:**

Use appropriate tools and personal protective equipment.
Pick up spillage. Dispose of in a waste disposal container.
Do not allow to enter sewerage system or the river.

- **Large Spill:**

Use appropriate tools and personal protective equipment.
Contain material. Take up spillage limiting generation of dust. Dispose of in a waste disposal container. Do not allow to enter sewerage system or the river

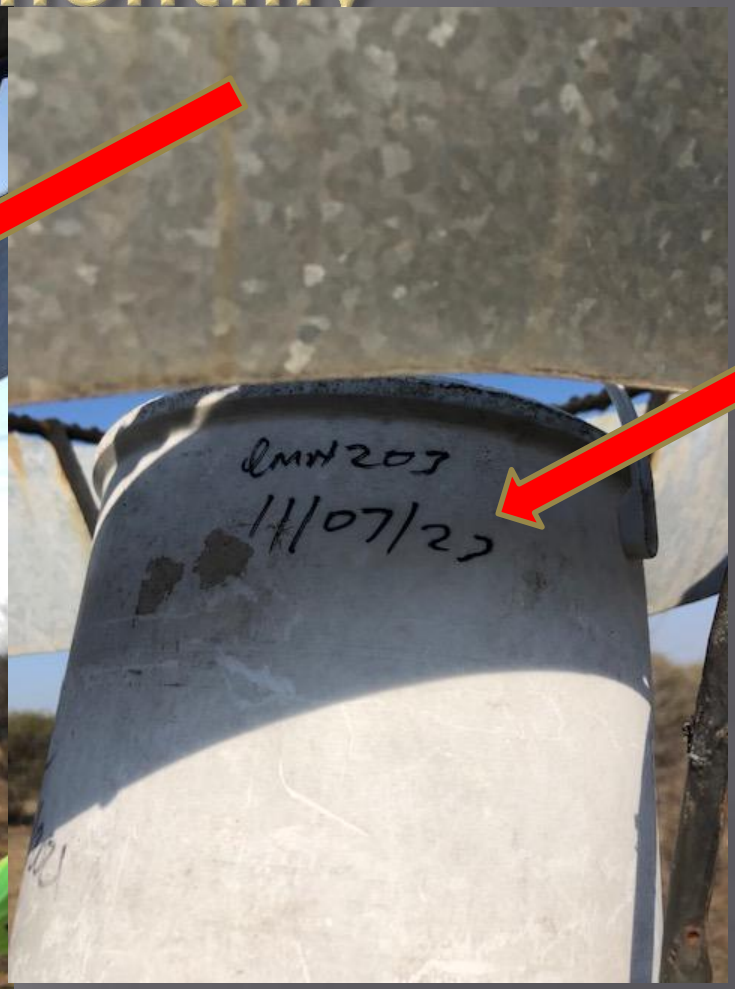
Carcass near affected area

No Proper Maintenance on pipes going trough the Tailing dam(Leaking to the river)

Slurry deposited into the river

Slurry deposited into the river

Bucket Dust monitor data collection done quarterly not monthly



Blocked Sewer line

- This matter was brought to Sibanye Stillwater`s attention since 20th January 2020 even now the matter is not resolved.
- Sewerage that flows to our village causes Health and environmental risk to our lives.

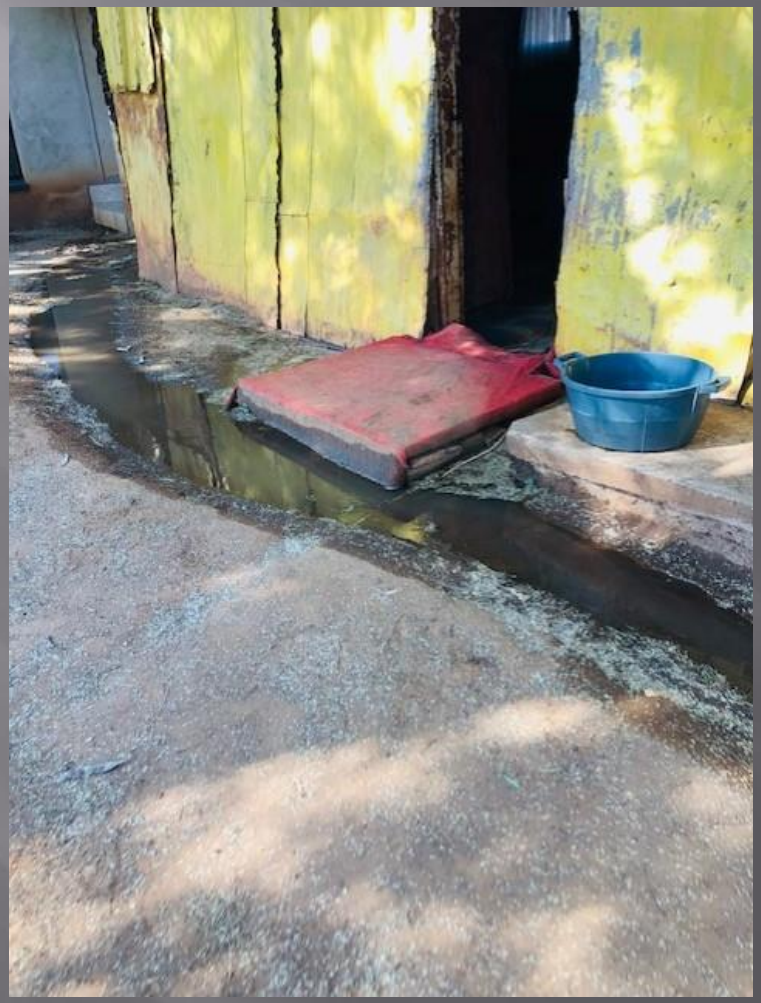
- In many Occasion we reported the same issue and still not resolved see below dates ;
- 16 November 2022 /13March 2023 /22 March 2023 /26 June 2023.

- Sibanye doesn`t show any commitment to address issues affecting the community.

Blocked Sewer line

Sewerage going trough the village

Sewerage going trough the village

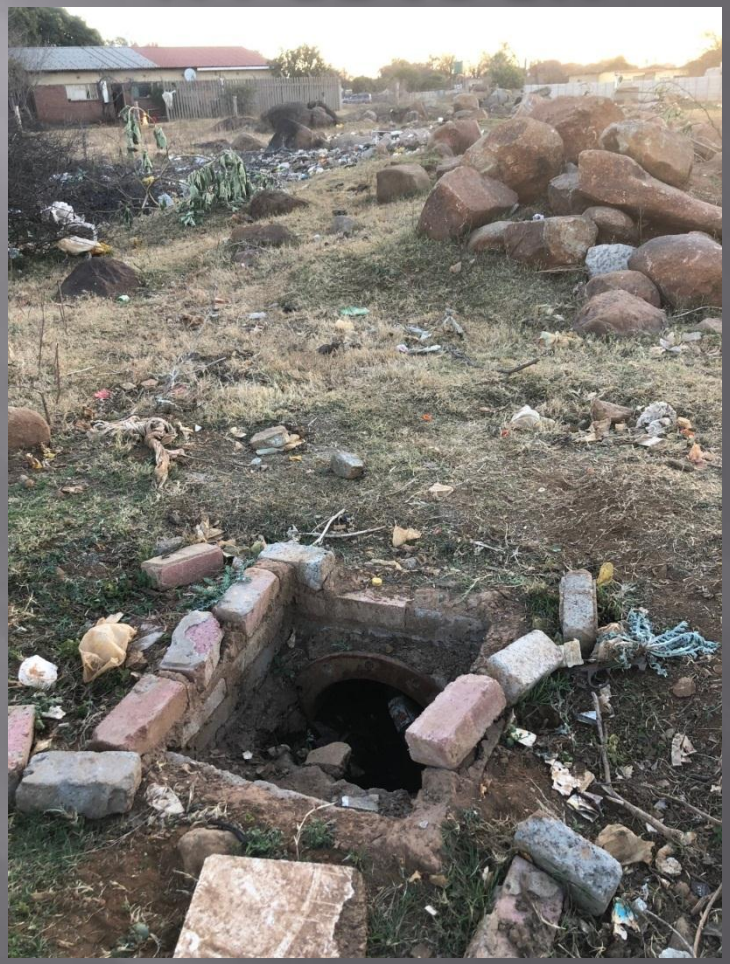


Children playing in the Sewerage

Blocked sewer line get worst in rainy days

Blocked sewer line get worst in rainy days

Manhole build inadequately and can injure community or livestock



Sewerage flowing to the river

Smelter Air Pollution

Smelter Querry

- Sibanye to tell us what is happening on the previous slide?

Wonderkop Koppie

- Why Wonderkop Koppie Called Marikana Koppie?

- In conclusion long term effect comes with long term benefits

- Questions?

- THANK YOU !!!!!!!!!!