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OP : Operational Procedure

**Tailings Storage Facility Reclamation Procedure
Mine Waste Solutions Remining**

MEMBERS OF THE REVIEW AND APPROVAL COMMITTEE

	NAME	DESIGNATION	SIGNATURE AND DATE
REVIEWED BY	CHRIS BADASHE	PLANT MANAGER	
REVIEWED BY	ROSE DYOBISO	PLANT ENGINEER	
APPROVED BY	JOSIAH BANDA	CHIEF SAFETY OFFICER	
AUTHORISED BY	ROLLET MASOKANA	GENERAL MANAGER	

The Health and Safety committee must be consulted regarding the content of the document before being approved and signed off by the General Manager / Plant Manager. A hard copy of the site specific document must be kept by the Chief Safety Officer.

This document supersedes all previous “Tailings Storage Facility Reclamation Procedure” Operating Procedures

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6.3.2 The access ramps must be managed on a weekly basis, where a TMM must level the surface of the access ramp in order to ensure that the surface is smooth and free of loose particles, which generate dust. 11

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1. GENERAL INFORMATION

1.1 Location and Brief description of the mine

Business Unit Description: Reclamation and retreatment of existing tailings dams storage facilities in the Stilfontein area for the extraction of gold and uranium

1.2 Name of Mine and Owner

Name of Business Unit Controlling Group/owner Chemwe (Pty) Ltd
Mine Waste Solutions, a subsidiary of First Uranium (Pty) Ltd, a subsidiary of Harmony Mine (Pty) Ltd

1.3 Contact Details

Telephone 018 478 4214
Telefax 018 478 4272

1.4 Magisterial district

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Magisterial District

Potchefstroom

1.5 Commodities

Products

Gold and uranium concentrates.

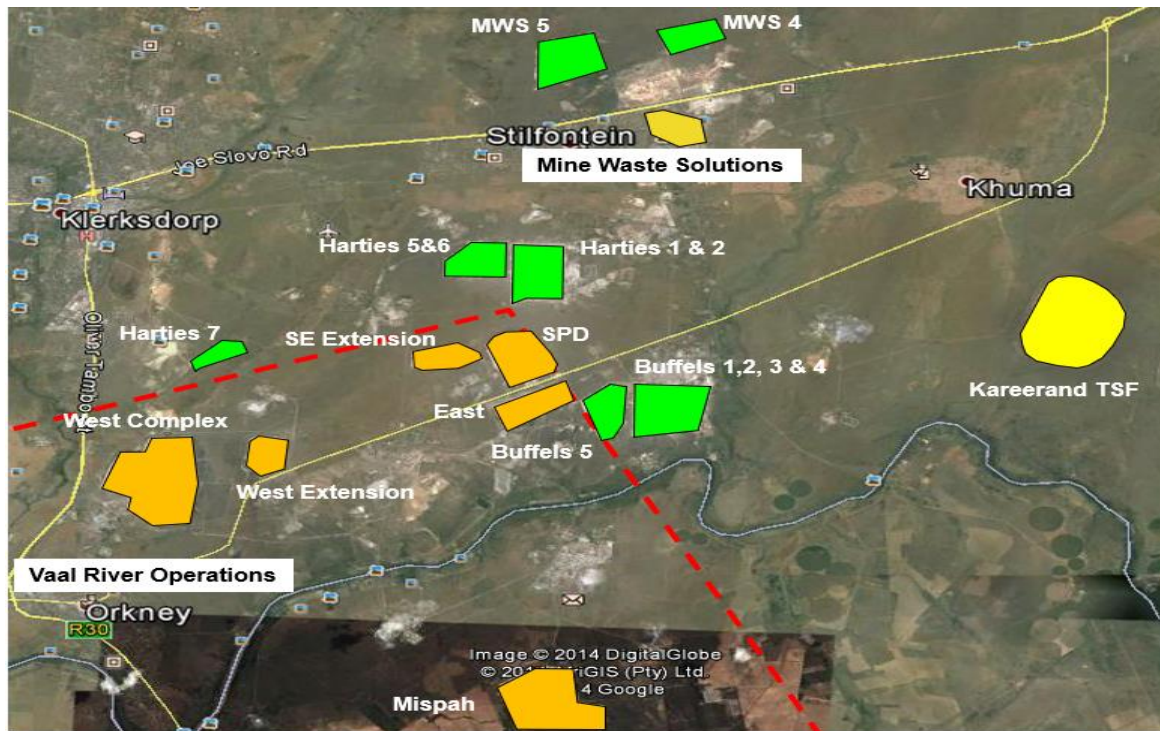


Figure 1: Mine Waste Solution Tailings Storage Facilities

2. TERMS AND DEFINITIONS

"APP" means Approved Professional Person, designated the DWAE.

"COP" means Code of Practice;

"DMRE" means the Department of Mineral Resources and Energy

"DWAE" means (Department of Water and Environment - formally DWAF;

"Downstream" means to the outside of the centerline of the crest of the dam wall or down slope (direction of flow) from the point of reference

"Exposure" means the subjection of a person to an airborne pollutant in the course of employment through any route of entry (e.g. inhalation, ingestion, skin contact, or absorption);

"Hazard" means a source, or exposure to danger

"MOHAC" means Mining Occupational Health Advisory Committee;

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"**Monitoring**" means the repetitive and continued observation, measurement, and evaluation of health and/or environmental or technical data, according to prearranged schedules, using nationally or internationally acceptable methodologies:

'**MHSA**' means Mine Health and Safety Act, 1996 (Act No 29 of 1996);

"**TSF**" means Tailings Storage Facility

"**Risk**" means the probability of a Hazard manifesting;

'**RW**' means Return Water

"**RWD**" means Return Water Dam(s)

'**Slurry**' means the mixture of tailings and water;

'**Tailings**' means the fine ground rock waste fragments discarded from the process plant after the mineral extraction process;

'**TDF**' means Tailings Disposal Facility;

"**SHEQ**" means Safety, Health, Environment and Quality

"**MWS**" means Mine Waste Solutions

"**PPE**" means Personal Protective Equipment

"**LDV**" means Light Delivery Vehicle

"**TMM**" means Trackless Mobile Machinery

"**OEM**" means Original Equipment Manufacturer

3. SCOPE OF WORK

The scope of this reclamation operational manual is to provide a standard for the safe reclamation of the MWS tailings storage facilities utilizing hydraulically powered monitor guns on tracks. The primary objective of this operational manual is to ensure that the conditions specified in terms of the MHSA are adhered to, in order to promote safe working conditions and ensure continual improvement towards safety, therefore ensuring that all employees on the reclamation areas operate under a controlled and safe environment.

4. RATIONALE

The purpose of the Operating Manual is to outline the reclamation methods which will be employed for the reclamation of the MWS tailings storage facilities. These methods will enable safe reclamation of the tailings with regards to adhering to the manner in which the mining plan is prearranged and compliance with the MHSA mining regulations.

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5. RECLAMATION OF TAILINGS

5.1 PROCESS FLOW DESCRIPTION

The Reclamation section relies on availability of Monitor water to reclaim slurry from the tailings dam.

Reclamation monitor water is received from existing Margaret water shaft reservoir, Kareerand Tailings Storage Facility and other water sources. The monitoring water is pumped, or gravity fed to midway dam, were there is an equal distribution to the reclamation pump-stations, by means of pumping.

At the reclamation station, the monitor water is pressurized through a series of high-pressure pumps and pumped through a high-pressure column, to the hydraulic re-mining monitor jets. The monitor jets are self-propelled and controlled remotely by an attendant, were a bench is cut using the high-pressure water, controlled through the monitor jet.

The bench is cut by applying re-mining standards based on the requirements for the quality of the end product. The bench width is approximately 12 meters and height of 15 meters at an angle of 45 degrees, depending on the barrel of the monitor jet.

Reclaimed slurry will flow through trenches created by the slurry itself as it gravitates towards the pump- station and through the flopper gates. A grizzly screen is installed before the pit-sump for the removal of excess material and debris which may damage the pit-pumps. The pit sump is agitated to keep solids in suspension. Clay material will also float on top of the slurry in the pit sump. Slurry will be pumped from the pit sump by pit pumps 1 or 2 to the vibrating screen.

Slurry from the pit pumps will report onto a 6mm aperture size vibrating screen from which oversized material will be removed and stockpiled. The undersize material flows into the under-pan into the transfer tank and two trains of transfer pumps, with each train consisting of seven pumps in series pumps the slurry to the gold plant, where gold is extracted using metallurgical process. After gold extraction, the slurry is then pumped to Kareerand TSF where it is deposited, using hydro-cyclones.

The fine and coarse material is split within the hydro-cyclone, where the fines are deposited on the beach and the coarse material on the outer wall. The deposition is such that, water accumulates in a pool and is pumped using barge pumps. This water is recycled and used again for reclamation.

5.2. MIXING METHOD

There are three types of mining methods utilized during the reclamation of tailings storage facilities: Top-down, Bottom-up and floor cleaning methods.

5.2.1 Top-down method

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The mining method which is regularly utilized is the Top-down method, mainly on material, which is soft and relatively simple to mine, where the hydraulic monitor gun is positioned at the top of the face where reclamation of that face will commence. The hydraulic monitor gun will initially cut a safety cut off the face to be reclaimed, where the monitor gun will be positioned a meter from the face which will be cut. The path which the track gun will take will be clearly demarcated, behind and in-front of the monitor gun.

The top-down method is the safer of the methods mentioned above as both the hydraulic monitor gun and the operator are positioned at the top of the face and the material being cut falls towards the bottom.



Figure 2: Top-down mining method

5.2.2 Bottom-up method

The bottom-up method is mainly utilized on tailings which have hard surfaces, where the monitor gun is positioned at the bottom of the face which will be cut. The water jet from the hydraulic monitor gun is efficiently utilized as there is better penetration of the hard surface and this method yields better densities in this regard.

There are more safety precautions which have to be adhered to, when this type of mining method is utilized, as both the hydraulic monitor gun and operator are positioned at the bottom of the face being reclamation, where there is a potential of the face collapsing.

In order to avoid under-cutting and the formation of vertical faces, the face has to be reclaimed by cutting the top portion of the face first, ensuring that there is a step-in, which will reduce the distance with which the face will collapse and potentially decreasing the energy with which the face will collapse, thus reducing the risk of the face collapsing.

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Figure 3: Bottom-up mining method

5.2.3 Floor – Cleaning

Floor cleaning method is utilized at the end of the reclamation activities of the tailings storage facility, where an excavator gun is utilized for the floor clean-up operation, with a view of exposing cleaning-up to the foot-print of the TSF and exposing red-soil, which will be released to the environment.

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Figure 4: Floor-cleaning method

6. SAFETY SYSTEM

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6.1 GUN OPERATOR SAFETY PRECAUTIONS

- 6.1.1** The gun operator must stand 20 meters from the track of the gun, as the noise levels are above 85 decibels. In the event that the operator is required to step within the 20 meter demarcation from the track of the gun, then the operator must wear hearing protecting, but beyond 20 meters, hearing protection is not required as the noise levels are below 85 decibels.
- 6.1.2** The gun operator must stand 2 meters away from the face, in order to avoid any potential slipping into the trench. The demarcations have to be clearly visible at all times.
- 6.1.3** Measuring device shall be issued to each gun operator to ensure compliance with the required distance.
- 6.1.4** Track monitor guns are remote controlled and used at outside section for remining purposes.
- 6.1.5** Measures to ensure that only one remote control device per trackless mobile machine are used to control the motion of the trackless mobile machine at any one time. One remote control device issued per track gun.
- 6.1.6** Measures to ensure that all remote and remotely controlling devices are stored, issued and used only by the persons authorised by the Engineer to do so. Only operators that are trained, assessed, declared competent and authorised in writing by the responsible Engineer to operate Track Monitor Guns. It is mandatory for gun operators to carry their permits whilst operating TMM.
- 6.1.7** Remote controlled units are kept safe at lockable cabin fixed on the guns. Key control register is in place to manage issue of keys to access the remote unit.
- 6.1.8** Warning signs must be conspicuously displayed at the in-dam indicating the use of remote and remotely controlled trackless mobile machines in operation.
- 6.1.9** Gun operators must operate the guns where they have full visibility of the area to be mined.
- 6.1.10** To protect drivers of Trackless Mobile Machinery (TMMs) from exposure to dust when operating the TMM during dust generating activities and during adverse weather conditions (high winds) creating dust the following will apply to all areas within Surface Operations:
When drivers of TMM's are potentially exposed to dust as a result of work activities or adverse weather conditions the driver will be required to use a FFP2 respirator / dust mask to ensure effective protection against inhaling dust.

6.2 PRE-USE INSPECTION PROCEDURE.

- 6.2.1** The use of pre-use checklists to identify components critical for the safe operation of the type of trackless mobile machines (Track Guns).

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- 6.2.2** Operator of the trackless mobile machines must physically inspect and ensure that the safety features and devices as detailed on the pre-checklist, are functioning as intended prior to setting such trackless mobile machines in motion. Pre-use checklist attached as Annexure 2.
- 6.2.3** Pre-use checklists pinpoint all the components, features and functionalities to be inspected by the gun operator. TMM shall not be used if the condition of the TMM poses any danger to the safety and health of any person working on or in the vicinity of the TMM.
- 6.2.4** Gun operators must complete Pre-Use checklist at the beginning of the shift or when taking over from another operator. Completed checklists must be submitted to responsible supervisor who must file such checklists for at least 3 months.
- 6.2.5** For each component, feature or functionality, the check list clearly indicate the pre-established criteria under which the trackless mobile machines may or may not be put in motion. Risk ranking of the critical items identified under "A" or "B" hazard. The following legend shall be used while inspecting TMM's.

Risk Ranking A	G (Go) if in order or NG (No Go) if not in order					
Legend	G	Go: Inspected and found in safe working condition	NG	No Go: Unsafe stop usage of equipment		
Risk Ranking B	GB (Go but) Go with caution to effect repairs					
Legend	G	Go: Inspected and found in safe working condition	NG	No Go: Unsafe stop usage of equipment.	GB	Go but: Go with caution to effect repairs

- 6.2.6** The responsible supervisor or team leader must conduct Pre-task risk assessment on site with designated team at the beginning of each shift before task execution. Supervisor must ensure that designated team members have signed off identified risks and required actions.

6.3 MANAGEMENT OF ACCESS RAMPS AND BERMS

- 6.3.1** Access ramps and berms are constructed in order to ensure safe entry onto the tailings storage facility, where the access ramps must be constructed.
- 6.3.2** The access ramps must be managed on a weekly basis, where a TMM must level the surface of the access ramp in order to ensure that the surface is smooth and free of loose particles, which generate dust.

6.4 INCLINES AND DECLINES

- 6.4.1** In-dams narrow roadways, run-off areas to slow down vehicles in the case of a runaway. The design and location of run-off areas to slow down vehicles in the case of a runaway, where the risk assessment of the mine indicates the need for such

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run-off areas. Run-offs areas must be provided at narrow roads. When there is no visibility for the whole length of the road, run-off areas must be provided where possible at certain interval to allow vehicle to pass each other safely.

6.4.2 Measures must be in place that shall allow only one trackless mobile machine travelling in an incline or decline at any one time in either direction except when being towed or attended to for repairs, and under controlled conditions.

6.4.3 TMM operators travelling on tailings storage facility (TSF) to be aware of oncoming traffic to prevent collision.

6.4.4 Where the full length of decline or incline of the narrow road is visible, only one vehicle must travel the full length of the road at a time.

6.4.5 When there is no visibility for the whole length of the road, run-off areas must be provided where possible at certain interval to allow vehicle to pass each other safely.

6.4.6 Communication to be done in form of hooting.

6.4.7 Measures must be in place that allow only one trackless mobile machine travelling in an incline or decline at any one time in either direction except when being towed or attended to for repairs, and under controlled conditions.

6.5 VISIBILITY AND AWARENESS

6.5.1 To ensure that operators and pedestrians have full visibility of each other, vehicles, road surfaces and signage. At all times the average light intensity of TMMs in the direction of travel shall not be less than 10 Lux at a distance of 20 meters (night time) in terms of Minerals Act regulation 15.3.2.

5.6.2 Employees must wear reflective clothing in order for operator to identify the presence of persons and hazards timely.

6.5.3 Every trackless mobile machine shall be provided with driving lights of sufficient intensity, shining in the direction of travel, to enable the driver to identify any dangerous conditions. All TMM's must be equipped with an orange flashing/rotating light which shall be in operation.

6.5.4 All TMMs must be provided with reflective strips (back and sides). The strips cover the whole length of the vehicle to easily identify the size of such vehicle. In addition, LDVs shall be equipped with a reflecting flag/buggy flag, at sufficient height to ensure visibility.

6.5.5 Any parked stationary or broken down trailers or TMM that is not in a dedicated parking area shall be identified by placing out (2) reflective triangles fifteen (15) meters in front and behind such vehicles.

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7. MINING PLAN

The mining plans based on block models, which indicate the gold grade variation across the tailings storage facility. Reclamation will be based on the mining plan derived from the block models. There should be bi-weekly meetings where compliance to the mining plan is monitored, by both the employer and contractor. These mining plans will be made available to the contractor per site.

8. ANNEXURES

- Annexure 1 Mine Waste Solutions Tailings Storage
- Annexure 2 Gun Pre-Use Checklist
- Annexure 3 Pre-Risk Assessment Slam Document
- Annexure 4 Records of Amendments

ANNEXURE 1: MINE WASTE SOLUTIONS TAILINGS STORAGE



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ANNEXURE 2: TRACK GUN PRE-USE CHECKLIST

TT-PU-Track Gun (Water)

Supervisor Industry Number: Supervisor Name: Supervisor Signature:

Operator Industry Number: Operator Name: Operator Signature:

Workplace Name:

Section: Date:

Equipment Number:

Shift: Morning Afternoon Night

	KM Reading			
	Start		End	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Step			Step		
GO BUT			NO GO		
Pipe leaks			Hydraulic oil level		
Body condition			Engine oil level		
Nozzle condition			Track alarm		
Remote battery & charger			Emergency button		
Gun condition - house keeping			Remote control		
Air cleaner hoses			Swivel		
Diesel level			Gun Distance from phase/wall		
Safety operating line adhere to			Strainer box		
Track condition			Oil or fuel leaks		
Gun road			Guards & covers		
Key & ignition system			Gun light		
Fire extinguisher					
Battery & connections					
Strobe light					

NOTE: If any steps are marked "NO GO" Equipment is not to be used

REPORT ALL DEFECTS TO SUPERVISOR IMMEDIATELY

General Comments

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ANNEXURE 3: PRE-TASK RISK ASSESSMENT-SLAM

Harmony Gold - Pre Task Risk Assessment SLAM							
Responsible person or team leader							
Initials and Surname:				Date:			
Industry No:				Operation:			
Workplace:				3.		ASSESS THE HAZARDS THAT WERE IDENTIFIED	
Section:				Identify control measures for hazards in STEP 2. A Procedure/TBRA is required for any YES answer in STEP 2. Ensure adherence to applicable COP's, MI's, Procedures and PTW.			
Task:							
Signature:							
1.		AND THINK ABOUT THE AREA, PEOPLE AND THE TOOLS		GO / NO-GO condition?			
				YES NO		MAJOR HAZARDS CONTROL MEASURES	
A) Do we all understand the task at hand?							
B) Do we all understand the steps required to do the task safely?							
C) Are tools, equipment, PPE inspected and in good condition?							
D) Are we competent and not fatigued to do the task safely?							
E) Are we sure other activities in the area won't impact the task?							
F) Are we sure our task won't impact other activities in the area?							
G) Did we identify and test an emergency line of communication?						OTHER HAZARDS CONTROL MEASURES	
H) Is the workplace/area safe to enter?							
I) Is the housekeeping at the workplace/area in order?							
If any answer in step 1 is No/Red, stop and fix deviation							
2.		LOOK FOR THE HAZARDS INVOLVED IN THE TASK TO BE PERFORMED		Major Hazard interaction?			
				NO YES			
A) Will we be working close to MOVING/ROTATING MACHINERY?							
B) Will we be working near any NIP/PINCH points?							
C) Will we need to release, isolate and lock out STORED ENERGY?							
D) Will we need to isolate and lock out ELECTRICITY?							
E) Will we be using LIFTING EQUIPMENT/TACKLE?							
F) Will we be working at HEIGHTS?							
G) Will we be working inside or close to EXCAVATIONS?							
H) Will we be working in a CONFINED SPACE?							
I) Will we be working near DAMS/SUMPS with risk of drowning?							
J) Will we be working with hazardous CHEMICALS?							
K) Will we be performing HOT WORK activities?							
L) Will we be working in a high risk HANG/SIDEWALL area?							
M) List any OTHER significant hazards in the work area in STEP 3 and determine mitigating controls for each such hazard							
						4.	
						MANAGE THE HAZARDS AND CONTROL MEASURES	
						Controls in place and effective?	
						YES NO	
						A) Are all of the identified controls in place?	
						B) Will the identified controls prevent an incident or accident?	
						C) Is it SAFE to execute the task?	
						D) Procedure/TBRA available for major hazard interactions?	
						Procedure/Task Based Risk Assessment number: _____	
						E) Is approved permit to work available if applicable? _____	
						Permit-to-Work number: _____	
						IF ALL THE ANSWERS IN STEP 4 ARE YES/GREEN COMMENCE THE TASK SAFELY	
						IF ANY ANSWER IN STEP 4 is NO/RED, STOP AND CONDUCT A TASK BASED RISK ASSESSMENT (TBRA)	
If any conditions change while the task is being executed STOP and re-do the SLAM or TBRA							
Go to step 3							
Other team members part of the Task							
Name and Surname:		Industry number:		Signature:		Name and Surname:	

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ANNEXURE 4: RECORD OF AMENDMENTS

<u>Date revised</u>	<u>Revision number</u>	<u>Amendment</u>
14 March 2022	Revision 3	<ul style="list-style-type: none"> • Edited gun operator safety precautions • Insert Pre-use inspection procedure • Insert Pre task Risk Assessment-SLAM • Insert Declines and Inclines • Insert Visibility and Awareness •

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