

<b>Name</b>	CMM - generic sample RA - common rocks, silicate minerals, oxide minerals, glasses and ceramics	<b>Managed (Current) Rating</b>	<b>Target (Residual) Rating</b>
<b>Location</b>	St Lucia (01), Hawken Engineering Building (01.0050)	Low	Low
<b>Location Category</b>	Facility - Laboratory		
<b>Business Unit</b>		<b>Last Review Date</b>	<b>Risk Owner</b>
	Microscopy and Microanalysis	2/02/2023	Heike Gruber
<b>Risk Assessment Team</b>		<b>Risk Approver</b>	
<b>Additional Notes</b>		Ronald Peter Rasch	
<b>Describe task / use</b>			
	SEM of common rocks, silicate minerals, oxide minerals and glasses		

## Risk Factors

Risk Factor	Chemical/Toxins/Poisons/Gases
Description	
<p>Exposure to sample. This RA is for common rock, mineral, glass and ceramic specimens, that are oxide based (eg SiO<sub>2</sub>, TiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, MgO, ZrO<sub>2</sub>) in solid form and pose no significant risk. It does NOT Cover: -Fine powders / particles / fibres / nano-material that produce an inhalation hazard. -Chemically unstable or reactive material. -Toxic / Radioactive / carcinogenic material or specimens that have been exposed to Toxic / Radioactive / carcinogenic material. - Non-oxide material like sulphides / oils / coals / organic materials -Specimens containing or exposed to biological hazards or quarantine restricted materials. IN ALL OFF THE ABOVE CASES A SEPARATE RISK ASSESSMENT IS REQUIRED.</p>	<ul style="list-style-type: none"> <li>● Absorption/skin mucosa -- Yes</li> <li>● Accumulative effects -- No</li> <li>● Carcinogen -- No</li> <li>● Chemical splash/spill -- No</li> <li>● Corrosive substance -- No</li> <li>● Compressed gas -- No</li> <li>● Cryogenic substance -- No</li> <li>● Dangerous when wet -- No</li> <li>● Explosives/explosive atmosphere -- No</li> <li>● Flammable liquid -- No</li> <li>● Flammable solid -- No</li> <li>● Harmful irritant -- No</li> <li>● Incompatible with other chemicals -- No</li> <li>● Ingestion -- No</li> <li>● Inhalation -- No</li> <li>● Needle stick or sharps injury -- No</li> <li>● Oxidiser -- No</li> <li>● Poison -- No</li> <li>● Sensitising agent -- No</li> <li>● Serious irreversible affects -- No</li> <li>● Spontaneously combustible -- No</li> <li>● Storage hazard -- No</li> <li>● Toxic substance/toxin -- No</li> </ul>

Low	Low		
<b>Existing Controls</b>	<b>Proposed Controls</b>		
<ul style="list-style-type: none"> <li>6 - PPE: Commonly found silicate or oxide rocks and minerals that are safe to handle have little exposure risk. General good house keeping and safe laboratory practices should be followed. Always use gloves when handling specimens.</li> </ul> <p>Spill procedure: Clean up by picking up with a gloved hand, vacuuming or sweeping. Dust mask if required.</p>	Description	Responsibility	Target Date
	There are no additional controls to reduce the already low risk.		

Risk Factor	Chemical/Toxins/Poisons/Gases
Description	
<p>It is possible that some specimens have sharp edges or are mounted on glass slides the could break. This could form a cutting hazard.</p>	<ul style="list-style-type: none"> <li>● Absorption/skin mucosa -- No</li> <li>● Accumulative effects -- No</li> <li>● Carcinogen -- No</li> <li>● Chemical splash/spill -- No</li> <li>● Corrosive substance -- No</li> <li>● Compressed gas -- No</li> <li>● Cryogenic substance -- No</li> <li>● Dangerous when wet -- No</li> <li>● Explosives/explosive atmosphere -- No</li> <li>● Flammable liquid -- No</li> <li>● Flammable solid -- No</li> <li>● Harmful irritant -- No</li> <li>● Incompatible with other chemicals -- No</li> <li>● Ingestion -- No</li> <li>● Inhalation -- No</li> <li>● Needle stick or sharps injury -- Yes</li> <li>● Oxidiser -- No</li> <li>● Poison -- No</li> <li>● Sensitising agent -- No</li> <li>● Serious irreversible affects -- No</li> <li>● Spontaneously combustible -- No</li> <li>● Storage hazard -- No</li> <li>● Toxic substance/toxin -- No</li> </ul>

Low		Low	
<b>Existing Controls</b>		<b>Proposed Controls</b>	
<ul style="list-style-type: none"> <li>1 - Elimination: Be aware of any sharp edges, remove if possible, avoid if not possible to remove</li> </ul>		<b>Description</b>	<b>Responsibility</b>
		There are no additional controls to reduce the already low risk.	<b>Target Date</b>

## Appendix

### Risk Matrix Level

Low	Task can proceed upon approval of the risk assessment by relevant Line Manager or supervisor is received.
Medium	<p>Task can proceed upon approval of the risk assessment by relevant Line Manager or Supervisor is received.</p> <p>It is recommended that a plan is developed to reduce the risk within a reasonable timeframe.</p>
High	Task can only proceed in extraordinary circumstances and provided there is authorisation by relevant Head of Function and a plan is in place to promptly reduce the risk to an acceptable level.
Extreme	Task must not proceed. Appropriate and prompt action must be taken to reduce the risk to an acceptable level.

## Risk Assessment Reviews

Date of Review	Review Team	Summary of Review
1/02/2023	Still appropriate to cover standard samples.	Still appropriate to cover standard samples.