

CMO number: _____

Incident date: 6/12/19

Incident title:

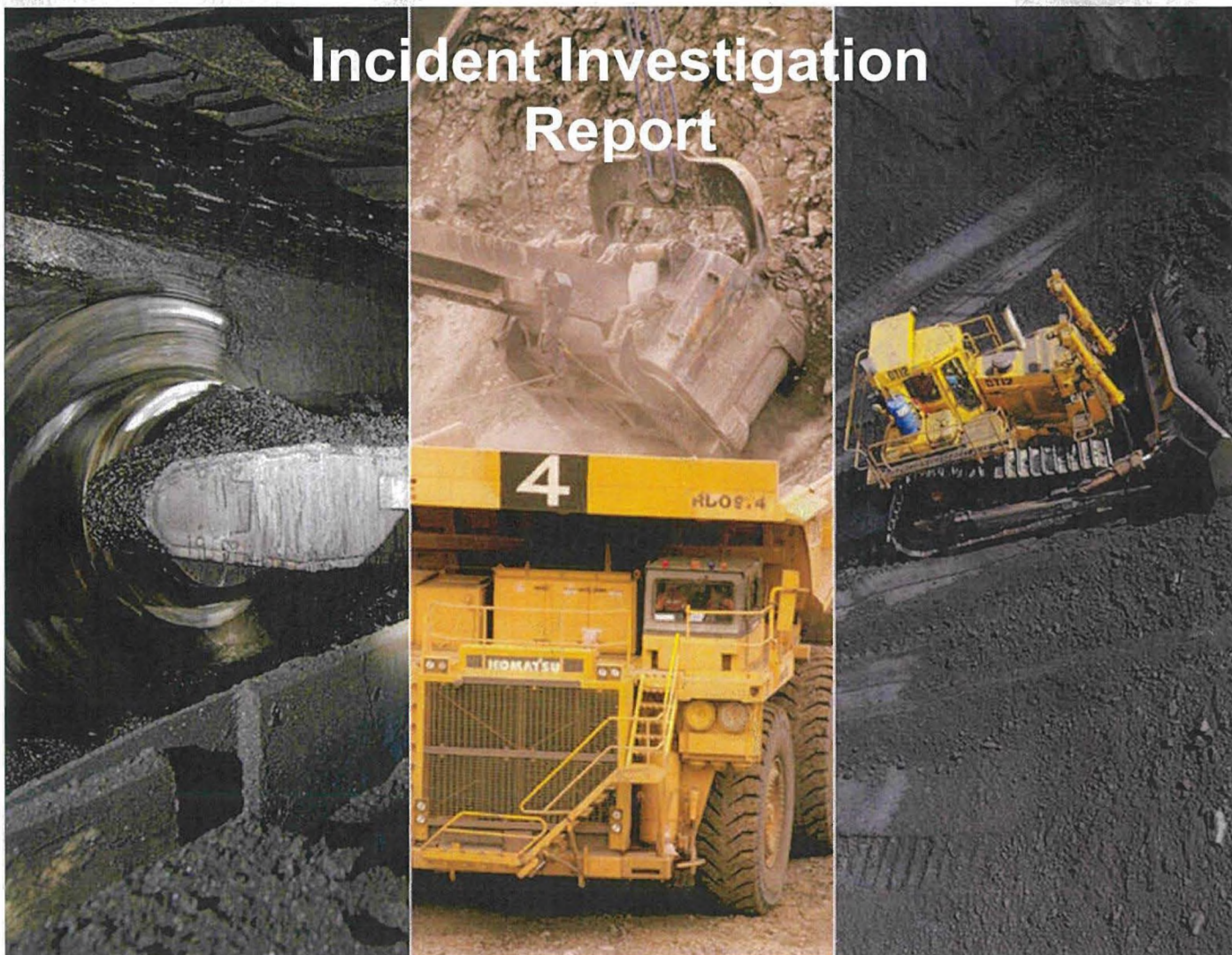
CH4 SPIKE @ MG 501
TG DRIVE

**COAL ASSETS
AUSTRALIA**

E-MAILED
6-12-19

GLENCORE

Incident Investigation Report



Document Number: GCAA-625378177-10439

Status: Approved

Version: 4.0

Effective: 30/08/2018

Review: 27/07/2021

Owner: Manager-Safety and Emergency Capability

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PEEPO				
People	Environment	Equipment	Procedures and documents	Organisation
When conducting an investigation, PEEPO helps us to assess all the factors.				
<p>People</p>	<p>Consider:</p> <ul style="list-style-type: none"> - Were those involved in the incident experienced in the task? - Had they been adequately trained? - Are they physically capable of conducting the task? - What was the status of their health? - Was fatigue a factor? <ul style="list-style-type: none"> ▶ Number of days in the shift cycle ▶ Days worked before the incident (including other locations if relevant) ▶ Travel arrangements ▶ Were they under stress or time pressures (work or personal)? 	<p>Enter People data:</p> <p>EXPERIENCED OPERATORS 8 ERZ-C.</p>		
<p>Environment</p>	<p>Consider:</p> <ul style="list-style-type: none"> - What were the weather conditions? - Was housekeeping a problem? - Was it too hot or too cold? - Was noise a problem? - Was there adequate light? - Were toxic or hazardous gases, dusts, or fumes present? 	<p>Enter Environment data:</p> <p># CUTTING THROUGH 2300 NITE # GENERAL UNDERGROUND CONDITIONS.</p>		
<p>Equipment</p>	<p>Consider:</p> <ul style="list-style-type: none"> - Was there an equipment failure? - What caused it to fail? - Was the machinery poorly designed? - Were hazardous substances involved? - Were they clearly identified? - Was a less hazardous substance possible and available? - Was the raw material substandard in some way? - Should PPE have been used? - Was the PPE used? 	<p>Enter Equipment data:</p> <p>GAS SPIRE (CH₄) TRIPS TG DRIVE</p>		
<p>Procedures</p>	<p>Consider:</p> <ul style="list-style-type: none"> - Was a safe work procedure used? - Were written procedures available? - Was a SWMS or JSA conducted prior to the task? - Had conditions changed to make the normal procedure unsafe? - Were the appropriate tools and materials available? - Were they used? - Was lockout used when necessary? - Were safety devices working properly? 	<p>Enter Procedures data:</p> <p>ALL PROCEDURES FOLLOWED, UNEXPECTED GAS TRIP.</p>		
<p>Organisation</p>	<p>Consider:</p> <ul style="list-style-type: none"> - Were safety rules communicated and understood by all employees? - Were they being enforced? - Was there adequate supervision? - Were workers trained to do the work? If so, when were they trained and is it still valid? - Had hazards been previously identified? - Had procedures been developed to overcome them? - Were unsafe conditions corrected? - Was regular maintenance of equipment carried out? - Were regular safety inspections carried out? - Any changes to equipment, environment, people or procedures? 	<p>Enter Organisation data:</p> <p># NO ORGANISATIONAL ISSUES. # UNIDENTIFIED HAZARD.</p>		

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1. Introduction

2. Objectives

3. Methodology

4. Results

5. Conclusion

6. References

Part 1 - Incident Details

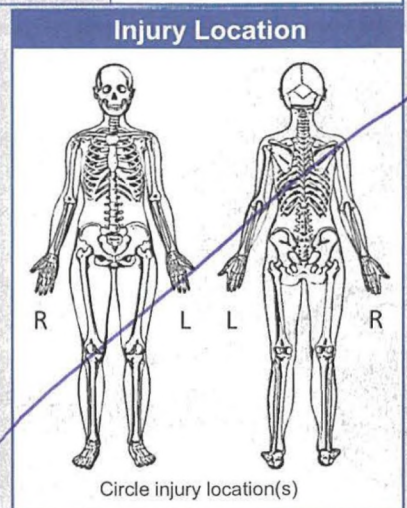
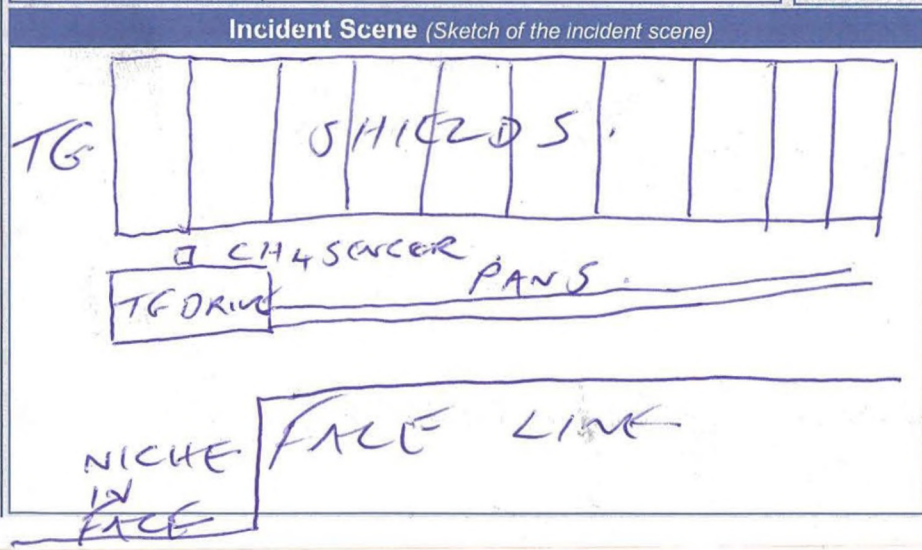
	Incident Description	Incident Number
Incident summary <i>(Overview of the incident)</i>	CUTTING THROUGH NICHE IN FACE @ MG 501, NICHE BOUGHT CH4 FRINGE FORWARD, TRIPPING TG DRIVE SITTER @ 18G SHIELD → MG	Reportable / Notifiable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

	Who	Empl	Contr
Reported by	J. DWYER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Reported to	G. WILSON	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Supervisor	G. WILSON	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Department	LONGWALL		
Task at time of incident	CUTTING THROUGH NICHE ON FACE.		
Crew	D CREW		
Witnesses	L. MUNRO B. SCYMORE		
Personnel involved <i>(Identify if contractor or employee, and employer)</i>	L. MUNRO B. SCYMORE G. WILSON J. DWYER		

	What												
	<input checked="" type="checkbox"/> Actual <input type="checkbox"/> Potential (<i>near miss</i>)												
Incident type	<input type="checkbox"/> Health and Safety <input checked="" type="checkbox"/> Environment <input type="checkbox"/> Community / Image / Reputation <input type="checkbox"/> Damage / Loss <input type="checkbox"/> Process												
Category <i>(circle rating for both)</i>	<table border="1" style="width:100%; text-align: center;"> <tr> <td style="font-size: small;">Actual</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td style="font-size: small;">Potential</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> </table>	Actual	1	2	3	4	5	Potential	1	2	3	4	5
Actual	1	2	3	4	5								
Potential	1	2	3	4	5								
Analysis tool <i>(Shading relates to category rating above)</i>	5 Whys ICAM (H&S Cat 3) (E&C Cat 3)												

	Where
Incident location	MG 501 LONGWALL TG DRIVE
Equipment involved <i>(type, number, rego)</i>	TG DRIVE CH4 SENSOR

When	
Date of incident	6/12/19.
Time of incident	5.51 am / pm
Date incident reported	6/12/19.
Time incident reported	5.52 am / pm
Shift start time	9.30 am / pm
Shift length	12 hours / minutes
Time into shift <i>(incident)</i>	8 hours / minutes
Overtime task?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N



Fatal Hazards (Tick only if applicable to the incident)	
<input type="checkbox"/> Strata Failure	<input type="checkbox"/> Inadequate Energy Isolation
<input type="checkbox"/> Fire and Explosion	<input type="checkbox"/> Working at Height
<input type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Lifting and Cranage
<input type="checkbox"/> Inappropriate Emergency Response	<input type="checkbox"/> Confined Space and Irrespirable/ Noxious Atmosphere
<input type="checkbox"/> Inrush and Outburst	<input type="checkbox"/> Tyre and Rim Management
<input type="checkbox"/> Explosives and Shotfiring	<input type="checkbox"/> Electrical Safety
<input type="checkbox"/> Other (add details)	N/A

GCAA SafeCoal Rule Breach (Tick only if a rule breach is applicable to the incident)	
<input type="checkbox"/> Δ1 - Never work above 2m without appropriate fall protection	<input type="checkbox"/> Δ7 - Never modify safety devices without permission.
<input type="checkbox"/> Δ2 - Always verify the isolation - test for dead.	<input type="checkbox"/> Δ8 - Never enter under unsupported roof.
<input type="checkbox"/> Δ3 - Never enter under suspended loads.	<input type="checkbox"/> Δ9 - Always follow positive radio communication requirements.
<input type="checkbox"/> Δ4 - Never enter no-go zones.	<input type="checkbox"/> Δ10 - Always consider health & safety implications when planning.
<input type="checkbox"/> Δ5 - Never operate equipment unless authorised.	<input type="checkbox"/> Δ11 - Always follow regulated traffic signage.
<input type="checkbox"/> Δ6 - Never attend work under the influence of alcohol or illicit drugs. Consumption on site is prohibited.	N/A

Fitness for Work (tick where applicable)			
<input type="checkbox"/> Alcohol testing conducted	Date and time completed	N/A	Comments
<input type="checkbox"/> Drug testing conducted			
<input type="checkbox"/> Fatigue assessment – complete GCAA Form HSEC – Post-incident Fatigue Assessment or approved equivalent			

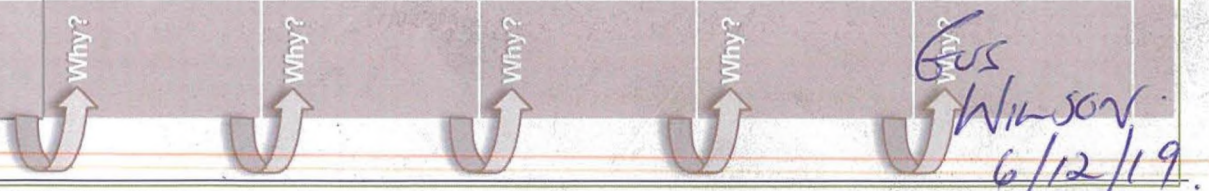
Description and Timeline of Events	
Events leading up to the incident	CUTTING THROUGH 23 rd NICHE 180 ^o SHC → SHEARER CUTTING BACK TOWARD MG ↓
Events at the time of the incident	* AS ABOVE * NICHE BRINGS FRINGE FORWARD TRIPPING T.G. - DRIVE.
Events immediately following the incident	ERT-C - NOTIFIED → PROCEEDED DIRECTLY TO TG TO INSPECT.
Immediate actions taken to control the situation and prevent further harm / loss	* SET UP CURTAIN IN FRONT OF T.G. SHIELDS APPROX 20M IN LENGTH * WORKED WELL - CH ₄ SENSOR @ - 45% / 100 ^o SHC
Was this an infrequent or frequent task for the individuals involved?	<input type="checkbox"/> First time <input type="checkbox"/> Each shift <input checked="" type="checkbox"/> Rarely <input type="checkbox"/> Weekly

Injury / Illness		Employee	Contractor
Name of injured person	/	<input type="checkbox"/>	<input type="checkbox"/>
Position, role and employer			
Details of the injury (Include location and type of injury)			
Was task relevant PPE being worn at the time? (If so, detail the PPE being worn)			
Did the injured worker have to stop work as a result of the injury? (If so, detail action taken – see below for First Aid Treatment)			
Was first aid or medical treatment provided? (If so, who provided what treatment)			

Part 2 – Timeline and 5 Why Analysis (Not applicable where ICAM process is to be used)

	<p>5.51 PM.</p> <ul style="list-style-type: none"> * CUTTING THROUGH A NICHE @ TG 23CT * SHEARER @ 180 SHIELD HEADING BACK TO MG * NICHE ALLOWS CH₄ FRINGE TO MOVE FORWARD @ TG DRIVE TRIPPING TG DRIVE AT APPROX 2.5% CH₄ ^{GN} 1.25% TRIP & ROSE _{GN} TG APPROX 2.5%.
post-event	<ul style="list-style-type: none"> * DEPUTY NOTIFIED AT 5.52 PM PROCEEDED TO TG TO INVESTIGATE, FOUND TG CH₄ SENSOR SITTING @ 2.5% CH₄ CONFIRMED WITH HAND HOLD GAS DETECTOR. * NOTIFIED COMMS & ROBERT CADY.
event	<ul style="list-style-type: none"> * ROLL OF BRATTICE ON TG DRIVE. * GOT ASSISTANCE FROM CREW TO RUN A CURTAIN FROM APPROX 190 SHIELD TO 203 SHIELD. (BRATTICE CURTAIN)
Timeline	<ul style="list-style-type: none"> * CLIPPED CURTAIN TO SHIELDS ALONG FACE WITH MINSUP CHIPS. * VENTILATION ACROSS CURTAIN DROPPED CH₄ READINGS @ TG DRIVE TO BELOW 0.5% CH₄.
pre-event	<ul style="list-style-type: none"> * NOTIFIED COMMS & R. CADY. * REQUEST PERMISSION TO START & ALSO ASKED ABOUT DE-GASSING REQUIREMENTS. R CADY 1-12-19-RC * NOTIFIED BY R. FRENCH THAT DUE TO QUICK ACTIONS NO REQUIREMENT TO DE-GAS → AND SAFE TO RE-START * RE-STARTED & CUTT TILL END OF SHIFT, CONTINUOUSLY MONITORING → NO FURTHER ISSUES

This is a guide only. Don't try to fill every box, focus on the event. If more room is needed then add another page



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Part 2 – 5 Why Analysis Actions (Not applicable where ICAM process is to be used)

Root Cause Description

NICHE IN FACE BRINGS CH₄ FRINGE FORWARD.

Recommended Actions (from analysis)

Category (From hierarchy of controls)	Recommended Action	Assigned to	Action Accepted	Due Date
1.	Discuss with ERZ Controller. - Actions taken towards Inspection Gas readings and responsibilities included in SOP0347.	J. Canning		21.12.19
2.	Showed duties responsibilities prior to hooking into Niche towards	J. Canning		21.12.19. (Complete)

Part 3 - Additional Information (When applicable for recording additional information not covered in other sections)

Notes and Comments

- # BRATTICE CURTAIN ALONG SHIELDS VERY EASY TO SET UP.
- # IN FUTURE WILL SET UP IN ADVANCE TO PREVENT THIS ISSUE HAPPENING AGAIN.
crew setting up curtain as per M. Downes
Ventilation directive to prevent further incident. per Gus Linnard 6/12/19.

Part 4 – Approval and Quality Review

Investigation Team			
Team member names	L. MUNRO, B. SCYMORE, J. DWYRE, G. WILSON		
Approval			
Supervisor / Investigator	Gus Linnard	6/12/19.	Confidential
	Name (printed)	Date	
Shift Supervisor	BOB CANN	6-12-19.	
	Name (printed)	Date	
Coordinator / Superintendent	J. Canning	10.12.19	
	Name (printed)	Date	
Department Manager	Jason Farweath	11/12/19	
	Name (printed)	Date	
Quality Review			
Comments			
HST Manager	Luda Carduack	11.12.19	
	Name (printed)	Date	
E&C Manager (Required for all E&C related incidents)			Signature
	Name (printed)	Date	

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice to ensure transparency and accountability.

In the second section, the author outlines the specific steps for recording income and expenses. It is noted that all income, regardless of the source, must be reported to the appropriate authorities. Similarly, all business-related expenses should be properly categorized and documented.

The third part of the document provides a detailed breakdown of the tax calculation process. It explains how to determine the taxable income by subtracting allowable deductions from the total income. The author also discusses the various tax rates and credits that may apply, depending on the individual's circumstances.

Finally, the document concludes with a summary of the key points and a reminder to consult with a professional tax advisor for personalized advice. It stresses that staying up-to-date with the latest tax regulations is essential for maximizing one's financial position.