

UNUSUAL OCCURRENCE REPORT FOR GROUNDFALL/ROCKBURST (UNDERGROUND MINE)

Company incident code:	☐ Internal Report			portable In	c <mark>ident</mark> ntario Regulat	ion 420/21)	
Company:	Mine:	Addı		ction 4 of O	mano Regulai	1011 420/21)	
Company.	Unknown		e discovered:	AM	 ☐ РМ ☐	Unknown	
Date:	Time of occurrence		AM PM	Unkno		_ Chkhown	
Damage sustained by min openings:	None None	Single	location	☐ Multij	ple locations		
General description of occ	currence:						
wonum.c							
VORKERS		1				1. Dx.1	
At time of incident worke	ers were: Undergro	ound	Surface		No one Wor	rking 🔲 Unki	nown
<u> </u>	required in area: Yes		Was access to			Yes N	Ю
<u> </u>	<u> </u>	Yes No	To within wh	at distance	of the	Yes N	√o ∏ ft
Were workers in immedia	ate area of damage:	Yes		at distance workers p	of the		
Were workers in immedia Were there any injuries:	ate area of damage:	Yes No	To within wh incident were	at distance workers p	of the		
Were workers in immedia Were there any injuries: EISMICITY (FOR R	ate area of damage: Yes No ROCKBURSTS ONI	Yes No	To within wh incident were	at distance workers p	of the		
Were workers in immedia Were there any injuries: EISMICITY (FOR R Seismic event that	ate area of damage: Yes No COCKBURSTS ONI Magnitude:	Yes No	To within wh incident were Nature of Inj	at distance workers p	of the	m	☐ ft
Were workers in immedia Were there any injuries: EISMICITY (FOR R Seismic event that most likely triggered	ate area of damage: Yes No ROCKBURSTS ONI	Yes No CY)	To within whincident were Nature of Injustes:	at distance workers pr uries:	of the resent:	Depth	☐ ft
Were workers in immedia Were there any injuries: SEISMICITY (FOR R Seismic event that most likely triggered damage: Magnitude scale: Nut	Apparent seismic source mechanism:	Yes No CY) Coordina Unde	To within whincident were Nature of Injustes:	at distance workers pr uries: North	of the resent: East The reservation of the reservation is a second control of the reservation	Depth	☐ ft] m ☐ ft ult slip
Were workers in immedia Were there any injuries: EEISMICITY (FOR R Seismic event that most likely triggered damage: Magnitude scale: Oth	Apparent seismic source mechanism:	Yes No CY) Coordina Unde	To within whincident were Nature of Injustes:	at distance workers pr uries: North	of the resent: East The reservation of the reservation is a second control of the reservation	Depth Fa	☐ ft] m ☐ ft ult slip
Were workers in immedia Were there any injuries: EISMICITY (FOR R Seismic event that most likely triggered damage: Magnitude scale: Nut Oth	Apparent seismic source mechanism:	Yes No CY) Coordina Unde	To within whincident were Nature of Injustes: termined de of first event:	at distance workers pr uries: North	East Magnitude 2-3	Depth Far burst Far e of largest event:	☐ ft] m ☐ ft ult slip
Were workers in immedia Were there any injuries: EISMICITY (FOR R Seismic event that most likely triggered damage: Magnitude scale: Nut Oth Event magnitudes: Number of events:	Ate area of damage: Yes No ROCKBURSTS ONI Magnitude: Apparent seismic source mechanism: ttli Richter leer: < 1 Unknown	Yes No Coordina Unde Magnitud	To within whincident were Nature of Injustes: termined de of first event: 1-2 own	at distance workers pruries: North Strain burs	East Magnitude 2-3	Depth Far burst Far e of largest event:	☐ ft] m ☐ ft ult slip
Were workers in immedia Were there any injuries: EISMICITY (FOR R Seismic event that most likely triggered damage: Magnitude scale: Nut Oth Event magnitudes: Number of events: Period of time over which	ate area of damage: Yes No ROCKBURSTS ONI Magnitude: Apparent seismic source mechanism: ttli Richter her: <1 Unknown events occurred (if more	Yes No Coordina Unde Magnitud	To within whincident were Nature of Injustes: termined de of first event: 1-2 own	at distance workers pruries: North Strain burs Unknomknown	East Magnitude 2-3	Depth r burst Fa e of largest event: > 3	☐ ft ☐ m ☐ ft ☐ tult slip ☐ Hour
Were workers in immedia Were there any injuries: SEISMICITY (FOR R Seismic event that most likely triggered damage: Magnitude scale: Nut	ate area of damage: Yes No ROCKBURSTS ONI Magnitude: Apparent seismic source mechanism: ttli Richter her: <1 Unknown events occurred (if more	Yes No CY) Coordina Unde Magnitud Unkn than one): ing wall Seism	To within whincident were Nature of Injustes: termined de of first event: 1- 2 own U	at distance workers properties: North Strain burses:	East Magnitude 2- 3 wwn Seconds Ore Zone	Depth	☐ ft ☐ m ☐ finult slip ☐ Hournocated

DESCRIPTION OF OCCURRENCE

Mine level:	Location								
This area was: Active Inactive	Abandoned	Coordinates:	North	East	Depth	☐ m ☐ ft			
Geological zone: H/W F/W Ore Rock type:									
The incident occurred in	The incident occurred in: Raise Drift/XC Pillar Shaft Ore/waste pass Stope Other:								
Opening dimensions:	Width:	Length:	Span:	Height:	ft	m			
Damage sustained to:	☐ Excavati	on Groun	d Support	Equipment	Unkno	own			
Associated mining activ	ity: Nothing	apparent Backfil	ling Blasting	g Bolting	Drilling 🗌 Mı	acking Scaling			
Ore Recovery in Immed	iate Area:	None	Primary Recov	ery Pillar	or Secondary	Recovery			
	one Shrinkage RM Slot & Sl		_	lar Cut & Fill 🔲	Undercut & Fi Block Caving				
If pillar sustained dama	ge: Type:	Rib F	Post	Sill	Crown	Other:			
Pillar dimensions:	Height:	Width:		Length:	☐ m	ft			
Material displaced from	:	Back Wall F	Floor Should	der Brow	Unknown [Other:			
Material displaced: tonnes tons	From behind s (uncontaine		nsupported ound:	Contained by sup	pport:	Total:			
Damage dimensions:	Length:	Width:		Max. depth:	l m	ft			
Displaced material:		Tabular Blocky	Thin/slabb	<u> </u>	ar Shotcret				
Rockburst damage mechanism:	Rock bulking	due to fracturing to seismic shaking		on due to seismic		,			
Comments (include desc	ription of the trigg	gering mechanism suc	h as drilling and	l blasting, stress or	structural, oth	ers):			
Rock mass characteristi (choose one only)	cs: Massi	ve Bedded	Blocky/Chunk	s Fractured	Slabbing	Unknown			
Structural geology and	Dyke	Fault/shear	Contacts	Steeply dippi	ing joints	Flat lying joints			
water:		lteration/infilling	Water						
Fault/dyke description:	Orientation:		d/plunge dip direction	Thickness:	m	ı 🗌 ft			
Comments:									

ROCK SUPPORT SYSTEM

D.:6	TF	Loca	ation	T dl	Pat	tern	Performance	
Reinforcement	Туре	Back	Walls	Length	Wide	Long	Failed	Beyond
Mechanical bolts								
Resin rebars								
Friction stabilizers								
Expandable bolts								
Dynamic bolts								
Cable bolts								
Surface	Т	Loca	ation	Dimension		Performance		
support	Туре	Back	Walls	or thickness	Cracked or bulged	Broken	Failed	
Wire-mesh								
Shotcrete								
Straps								
		Used to	support		Performance			1
Other sy	stem	Back	Walls	Deformed	Broken	Failed		
Backfill	Туре	Location	or Opening l	Backfilled	Binder T Con	Type and tent	Percentage Filled	
Comments Rega	rding Effecti	veness of Supp	port Systems:					
Follow-up Actio	n:							

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Mine level:	Location								
This area was: Active Inactive	Abandoned	Coordina	tes:	North	East	Depth	☐ m	☐ ft	
Geological zone: H/W F/W Ore Rock type:									
The incident occurred in	n: Raise	☐ Drift/X0	C Pillar	Sha	ft Ore/waste	e pass S	tope 🔲 C	Other:	
Opening dimensions:	Width:	Lengt	h: S	pan:	Height:	ft	n	n	
Damage sustained to:	☐ Excavati	on [Ground Sup	port	☐ Equipment	Unkı	nown		
Associated mining activi	ity: Nothing	apparent [Backfilling [Blastin	g Bolting D	Orilling \[\] M	fucking []	Scaling	
Ore Recovery in Immed	iate Area:	None	Prim	ary Reco	very Pillar o	or Secondary	Recovery		
	one Shrinkage	_	& Fill	_		Jndercut & F Block Caving	_	asthole	
If pillar sustained dama	ge: Type:	Rib	☐ Post		Sill 🔲 C	Crown	Other:		
Pillar dimensions:	Height:	W	idth:		Length:	□ n	n 🗌 ft		
Material displaced from	: Face I	Back Wa	all	Shou	lder Brow U	Jnknown [Other:		
Material displaced:	From behind s (uncontaine		From unsupp ground:		Contained by supp	port:	Total:		
tonnestons	Υ 4		7' 1.1		M 1 4				
Damage dimensions:	Length:		idth:		Max. depth:	n	_		
Displaced material:		Tabular _		Thin/slab				known	
Rockburst damage mechanism:	Rock bulking Rock fall due		-	Jnknown	tion due to seismic e	Not applic			
Comments:									
Rock mass characteristic (choose one only)	cs: Massi	ve Bed	ded Bloc	cky/Chun	ks Fractured	Slabbing	Unknov	wn	
Structural geology and	☐ Dyke	Fault/s	shear (Contacts	Steeply dippin	g joints	Flat lying	gjoints	
water:		lteration/infi		Water	T				
Fault/dyke description:	Orientation:		trend/plu	-	Thickness:	1	n 🗌 ft		
Comments:									

ROCK SUPPORT SYSTEM

D: 6	TT.	Loca	ation	T (1)	Pattern		Perfor	rmance
Reinforcement	Type	Back	Walls	Length	Wide	Long	Failed	Beyond
Mechanical bolts								_
Resin rebars								
Friction stabilizers								
Expandable bolts								
Dynamic bolts								
Cable bolts								
Surface		Loca	ation	Dimension		Performance		
support	Type	Back	Walls	or thickness	Cracked or bulged	Broken	Failed	
Wire-mesh								
Shotcrete								
Straps								
041	-4	Used to	support		Performance			•
Other sy	stem	Back	Walls	Deformed	Broken	Failed		
Backfill '	Туре	Location	or Opening	Backfilled	Binder T Con		Percentage Filled	
Comments Rega	arding Effecti	veness of Sup	port Systems	:	l			
Follow-up Actio	n:							

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Opening dimensions:	Width:	Leng	th:	Span:	Height:	f	t r	n	
Damage sustained to:	Excavati	on [Ground	l Support	☐ Equipment	Unk	nown		
Associated mining activi	ity: Nothing	apparent [Backfilli	ing 🗌 Blastin	g Bolting	Drilling 1	Mucking	Scaling	
Ore Recovery in Immed	iate Area:	None		Primary Reco	very Pilla	r or Secondar	y Recovery		
	one Shrinkago RM Slot & Sl	=	& Fill ers Retrea	_	llar Cut & Fill el Caving	Undercut & Block Cavin	_	asthole	
If pillar sustained dama	ge: Type:	Rib	☐ Po	ost	Sill	Crown	Other:		
Pillar dimensions:	Height:	V	Vidth:		Length:		m 🔲 ft		
Material displaced from	: Face	Back W	all 🔲 F	loor Shou	lder Brow	Unknown	Other:		
Material displaced:	From behind s (uncontaine			nsupported ound:	Contained by su	pport:	Total:		
tonnestons	Τ				N 1 1				
Damage dimensions:	Length:	_	Vidth:		Max. depth:	_	m		
Displaced material:		Tabular [Blocky					known	
Rockburst damage mechanism:	Rock bulking Rock fall due		_	Unknown	tion due to seismic	Not appli			
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water:	<u> </u>	lteration/inf		Water	<u> </u>				
Fault/dyke description:	Orientation:			d/plunge dip direction	Thickness:		m 🗌 ft		
Comments:									

ROCK SUPPORT SYSTEM

D. C.	T.	Loca	ation		Pat	tern	Performance	
Reinforcement	Type	Back	Walls	Length	Wide	Long	Failed	Beyond
Mechanical bolts								_
Resin rebars								
Friction stabilizers								
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Surface	TD.	Loca	ation	Dimension		Performance		
support	Type	Back	Walls	or thickness	Cracked or bulged	Broken	Failed	
Wire-mesh								
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Straps								
041		Used to	support		Performance			I
Other sy	stem	Back	Walls	Deformed	Broken	Failed		
Backfill '	Туре	Location	or Opening	Backfilled	ed Binder Type and Content		Percentage Filled	
Comments Rega	arding Effective	veness of Supp	port Systems:	:	I			
Follow-up Actio	n:							

ATTACHMENTS					
Please, provide a list of attached doc	cuments (e.	g., photos, mine pl	ans, etc.) if applicable		
SIGN-OFF					
Date Report Completed	1	Name of Person C	ompleting Report		Title
Phone: ()	Fa	ax: ()		E-Mail:	
The state of the s			g.		
Title		Name	Signature	2	Date
Please call the Ministry of Labour,	Immigration	on Training and	Skills Davalonment o	all contro o	+ 1_877_202_0008
rease can the winistry of Labour,	illilligi ati	on, 11 aming and	Skins Development C	an centre a	t 1-0//-202-0000.
If this is a reportable incident, pleas					
 Using the above information, co Report of a workplace fatality, 					
More information available at Re					
incidents-and-illnesses#section-6			\ <u></u>		
Please send a copy of the report to:					
 Senior Specialist Ground Conti 		olace Safety North	, 690 McKeown Ave	nue, PO Bo	x 2050, North Bay, Ontario

information, please contact WSN's Senior Specialist Ground Control, (705) 474-7233 GCS@workplacesafetynorth.ca

P1B 9P1 GCS@workplacesafetynorth.ca (Alternate address: PhilipDirige@workplacesafetynorth.ca)

To obtain a copy of the Guidelines for completing the Unusual Occurrence Report for Groundfall/Rockburst, or for additional