

Equipment related injuries

Equipment	NSW(03-05) N=4169
Continuous Miner	447 (11%)
Scoop/LHD	232 (6%)
Shuttle Car	140 (3%)
Transport	140 (3%)

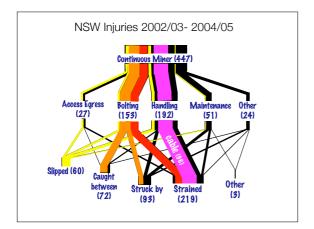
Analysis examples

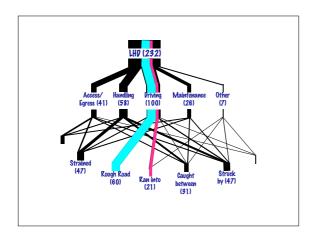
WHILE GETTING BOX OF CHEMICALS HE SLIPPED OFF STEP AT THE REAR OF ABM WORK PLATFORM JARRING HIS LOWER & UPPER BACK WHEN HE HIT THE GROUND

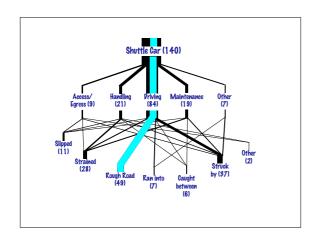
= Continuous miner : Handling : Slipped off

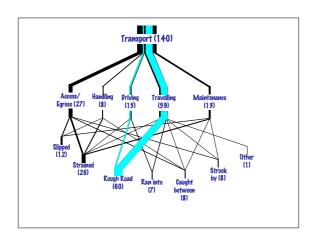
WHILE HE WAS A PASSENGER IN THE TRANSPORTER ON THE TRAVEL ROAD THE VEHICLE HIT A LARGE POT HOLE STRAINING HIS NECK SHOULDERS & BACK

= Transport : Traveling : Hit hole/rough road









NSW Priorities Continuous miner Slipping off Bolting: incorrect control operation Bolting: strain Handling continuous miner cable LHD/Shuttle car/Transport Driving - collisions Driving/Travelling - rough road Slipping off CM platform single level platform ladder access hand rails improved platform lighting Bolting: inadvertent or incorrect control operation guarding controls and pinch points shape & location coding standardize layout direction stereotypes

Bolting: strain	
 redesign bolting controls to improve access to drill pots mast mounted controls and rotated drill pots 	
Handling continuous miner cable	
hydraulic cable reeler	
monorail	
Driving - collisions	
proximity detection systems	
height adjustable LHD cab	
shuttle car steering incompatibility	

Driving/Travelling - rough road

- roadway maintenance
- weight adjustable suspension seats
- shuttle car suspension
- forward facing transport seating





	Project	Outcome	S
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- Seminar (feedback form)
- Equipment ergonomics risk assessment tool (draft in folder, comment requested)
- "Handbook for the control of equipment injury risks in underground coal mining" incorporating seminar proceedings, risk assessment tool, documented controls.