Explosives incidents and complaints

January 2013 report

This document lists all explosives safety and security incidents and complaints reported in the month of January 2013. This report also includes a summary of all safety and security incidents and complaints for the past year. The number of injuries and fatalities for January 2013 is also included below which is categorised by community or industry.

	Fatalities	Injuries
Community	0	0
Industry	0	1

Figure 1: Explosives incidents and complaints January 2013

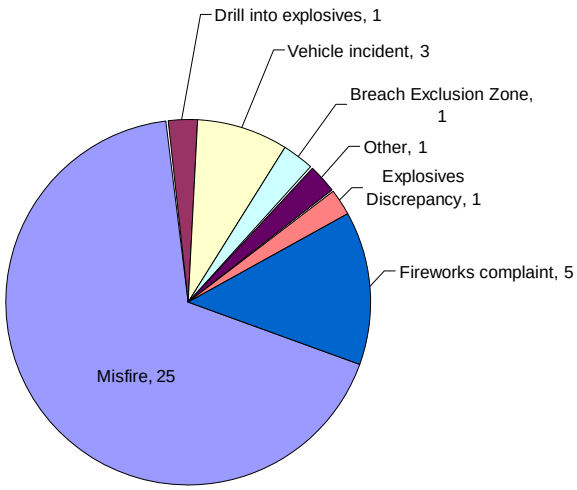
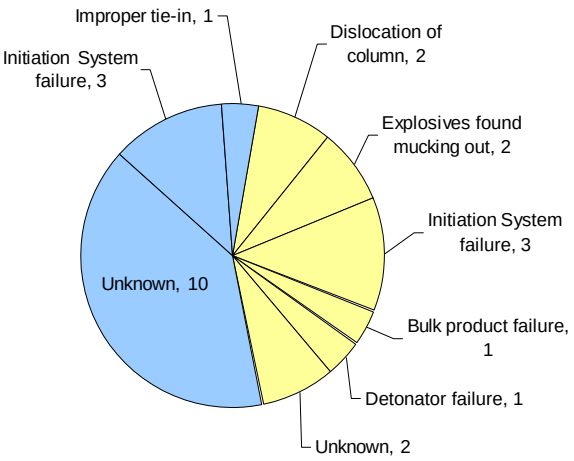
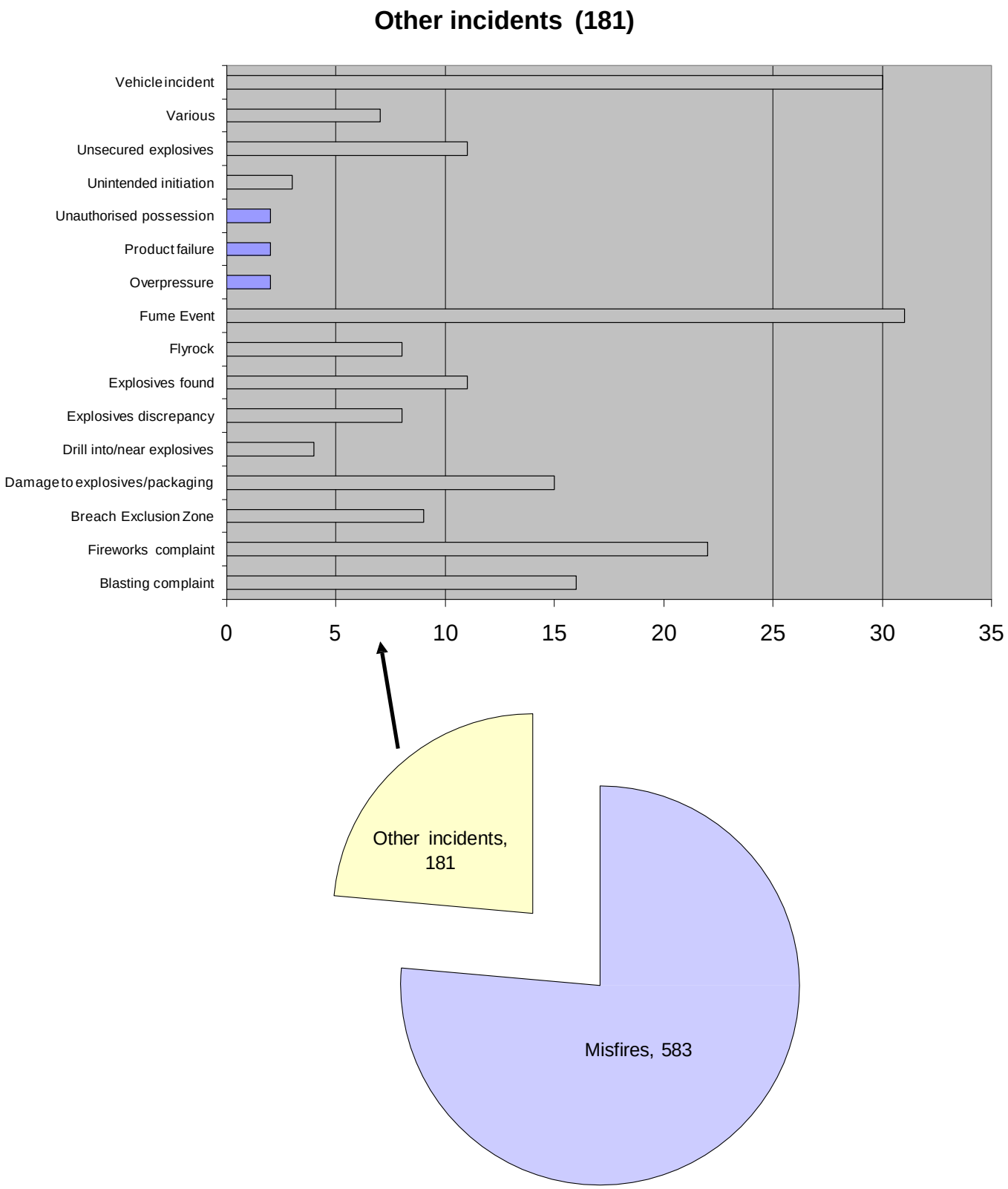


Figure 2: Breakdown of misfire causes January 2013



Above Ground
Underground

Figure 3: Past year incidents February 2012 – January 2013



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Breakdown of incidents for January 2013

Security

Description	Explosives involved
Explosives discrepancy (1 incident)	
A loaded hole slumped and was washed out and a single detonator broke off and could not be found.	1 Detonator

Safety

Mining

Description	Explosives involved	Outcome
Misfires - Above Ground (11 incidents)		
2 x dislocation of column 2 x explosives found mucking out 3 x initiation system failure 1 x bulk product failure 1 x detonator failure 2 x unknown causes	Blasting explosives	No adverse outcome (High Potential Incident)
Misfires - Underground (14 incidents)		
1 x improper tie-in 3 x initiation system failure 10 x unknown causes	Blasting explosives	No adverse outcome (High Potential Incident)
Breach Exclusion Zone (1 incident)		
A bulldozer entered a demarcated area of a loaded shot and stopped 2 metres from a loaded blast hole.	Blasting explosives	No injuries or property damage
Vehicle incident (2 incidents)		
A charge car carrying explosives caught fire at the refuelling bay at a mine site.	Blasting explosives	No injuries, property damage only (High Potential Incident)
A mobile manufacturing unit was travelling in a temporary reload area at a mine site and went around a corner and rolled on the passenger side. The operator freed himself from the seat belt and got out of the truck and was taken to the first aid office to receive treatment.	Blasting explosives	Minor injury to operator (High Potential Incident)
Drill into / near explosives (1 incident)		
A drill rig drilled through a misfire while collaring a hole.	Blasting explosives	No injuries or property damage
Other (1 incident)		
Prior to the tie up of a blast, two signal tube downlines were identified as melted due to sulphide reactivity in drill cuttings at the hole collars.	Blasting explosives	No injuries

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Transport

Description	Explosives involved	Outcome
Vehicle Incident (1 incident)		
A B-double truck loaded with Ammonium Nitrate struck the southern entrance gate to a government explosives reserve. The southern gate was extensively damaged.	SSAN	No injuries, property damage only

Complaints

Description	Explosives involved	Outcome
Fireworks (5 incidents)		
A complaint was received about illegal fireworks being used in a park.	Fireworks	No adverse outcome
A complaint was received about not being notified of a fireworks display on an adjoining property.	Fireworks	No adverse outcome
A complaint was received about noise relating to a fireworks display approximately 400 metres away. The complaintant claims that a 4 month old colt was spooked and died as a result of injuries sustained when it ran into a fence.	Fireworks	Complaintant stated colt died
A complaint was received about illegal use of fireworks at a residential property.	Fireworks	No adverse outcome
A complaint was received that a fireworks display did not meet the requirements of the fireworks code as fireworks were being fired over the tops of neighbouring houses.	Fireworks	No adverse outcome

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Explosives incidents and complaints

February 2013 report

This document lists all explosives safety and security incidents and complaints reported in the month of February 2013. This report also includes a summary of all safety and security incidents and complaints for the past year. The number of injuries and fatalities for 2013 is also included below which is categorised by community or industry.

	Fatalities	Injuries
Community	0	0
Industry	0	2

Figure 1: Explosives incidents and complaints February 2013

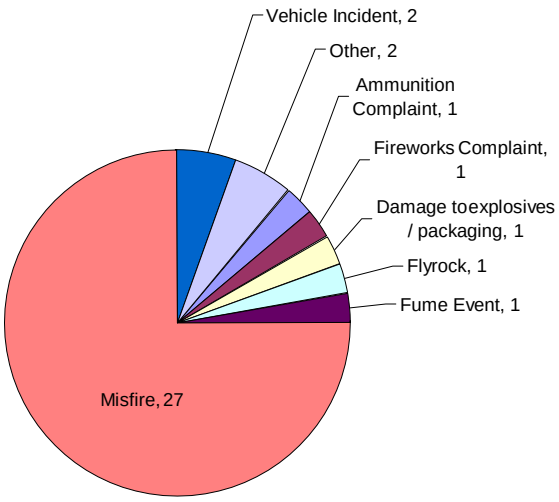


Figure 2: Breakdown of misfire causes February 2013

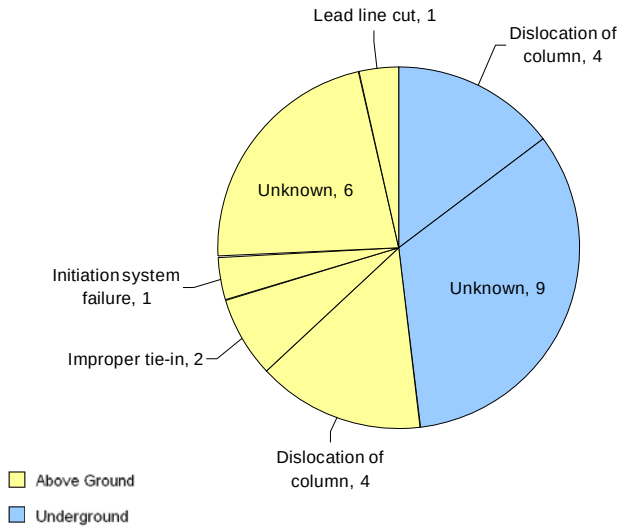
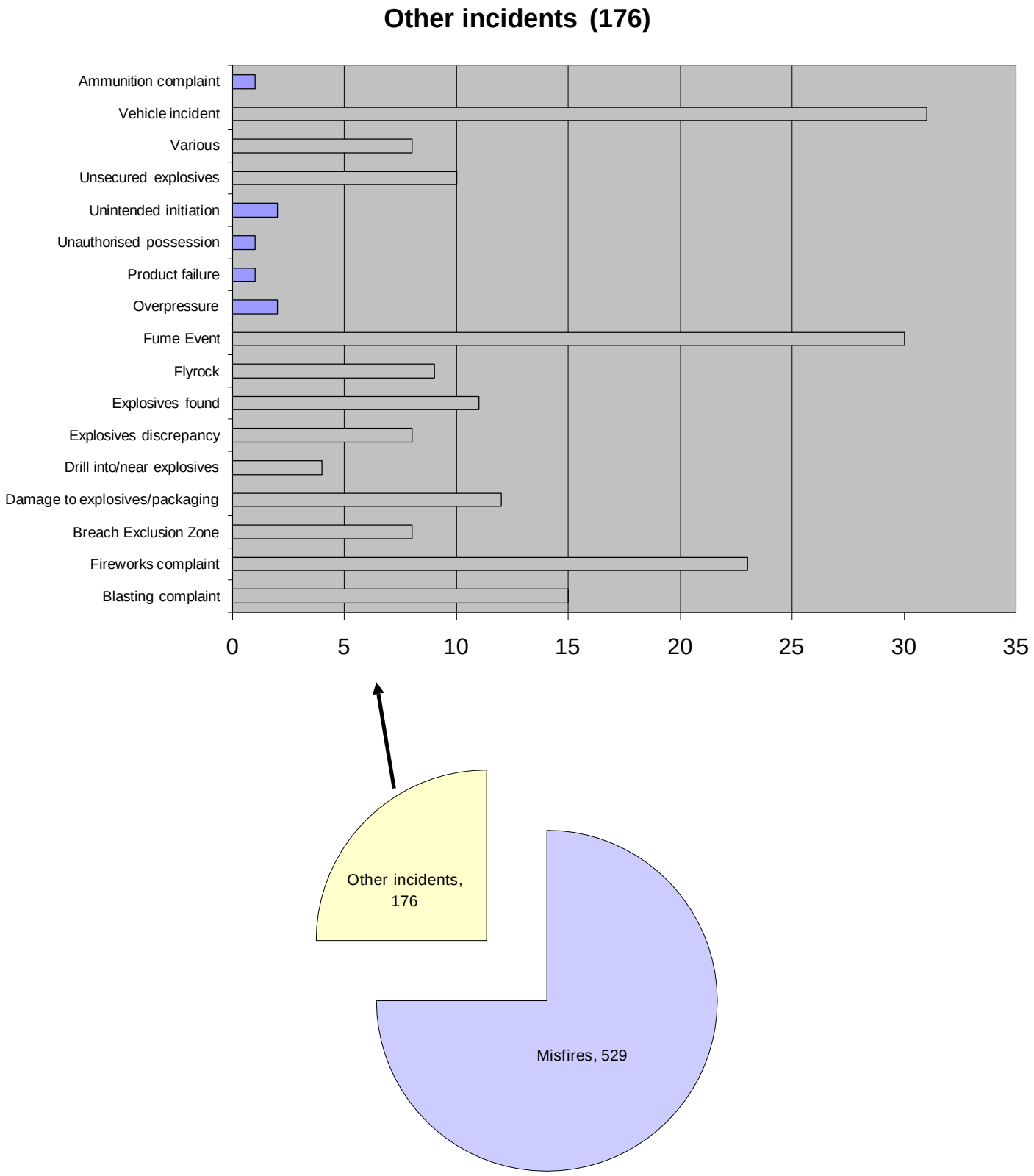


Figure 3: Past year incidents March 2012 – February 2013



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Breakdown of incidents for February 2013

Security

Description	Explosives involved
Explosives discrepancy (1 incident)	
A stocktake at an explosives magazine identified a shortfall of explosives.	4 detonators, 2 chubs

Safety

Mining

Description	Explosives involved	Outcome
Misfires - Above Ground (14 incidents)		
4 x dislocation of column 2 x improper tie-in 1 x lead line cut 1 x initiation system failure 6 x unknown causes	Blasting explosives	No adverse outcome (High Potential Incident)
Misfires - Underground (13 incidents)		
4 x dislocation of column 9 x unknown causes	Blasting explosives	No adverse outcome (High Potential Incident)
Flyrock (1 incident)		
A face burst led to damage to a mobile crushing unit.	Blasting explosives	No injuries, property damage only
Fume Event (1 incident)		
A Level 4 fume event that did not breach the blast exclusion zone occurred at a mine.	Blasting explosives	No exposures or injuries (High Potential Incident)
Vehicle incident (1 incident)		
A charge car exiting a portal ran into a parked truck.	High explosives	No injuries, property damage only
Other (2 incidents)		
An underground mine was evacuated after white vapour with a blue tinge was noticed coming from an area with a charged up winze.	High explosives	No injuries
A worker was charging a face at an underground mine when the basket dropped forward throwing the person against the face.	Blasting explosives	Minor injuries sustained

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Transport

Description	Explosives involved	Outcome
Damage to explosives / packaging (1 incident)		
Whilst unloading a container at a reserve, it was noticed that there was damage to a carton of explosives.	Blasting explosives	No injuries, damage to packaging only
Vehicle incident (1 incident)		
A road train left the highway and hit a ditch causing the load in the second shipping container to be displaced forwards against the left hand door which sprung open.	SSAN	No loss of containment or injuries, minor damage to the vehicle only

Complaints

Description	Explosives involved	Outcome
Fireworks (1 incident)		
A complaint was received that a non-approved contractor was sighted firing fireworks in a mall.	Fireworks	Fireworks display was under another contractor
Ammunition (1 incident)		
A gun shop owner is concerned about information some of his local customers have passed on indicating that another gun shop is selling ammunition and powders from a vehicle that travels out to other communities. He alleges that they've sold to people without following the correct security protocols and that it is occurring in a public place.	Ammunition	No evidence to substantiate allegations

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Explosives incidents and complaints

March 2013 report

This document lists all explosives safety and security incidents and complaints reported in the month of March 2013. This report also includes a summary of all safety and security incidents and complaints for the past year. The number of injuries and fatalities for 2013 is also included below which is categorised by community or industry.

	March 2013	Year to date (2013)
Community	0 fatalities 0 injuries	0 fatalities 0 injuries
Industry	0 fatalities 0 injuries	0 fatalities 2 injuries

Figure 1: Explosives incidents and complaints March 2013

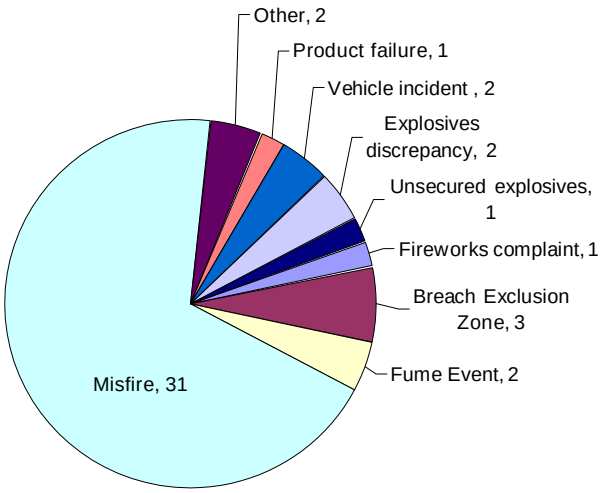


Figure 2: Breakdown of misfire causes March 2013

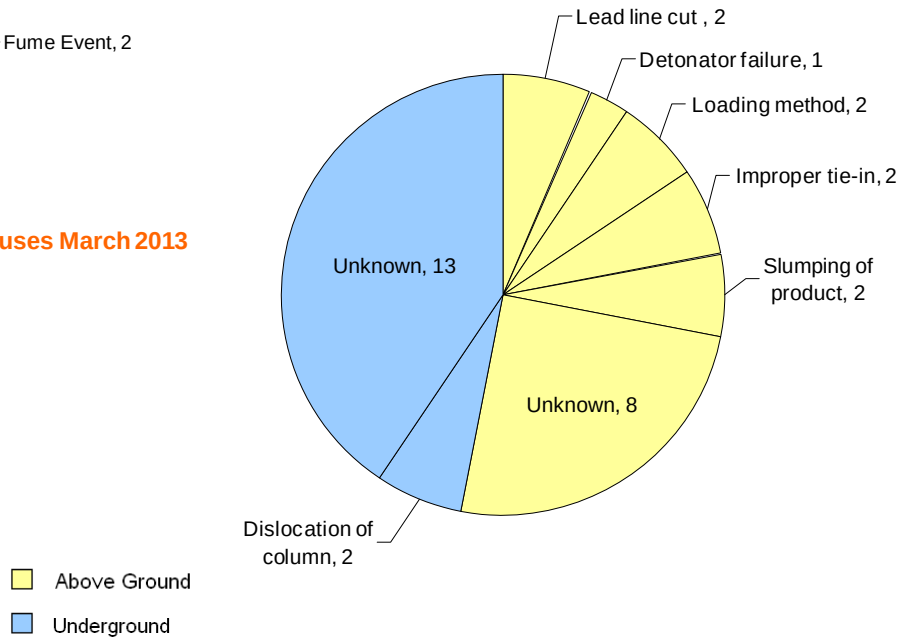
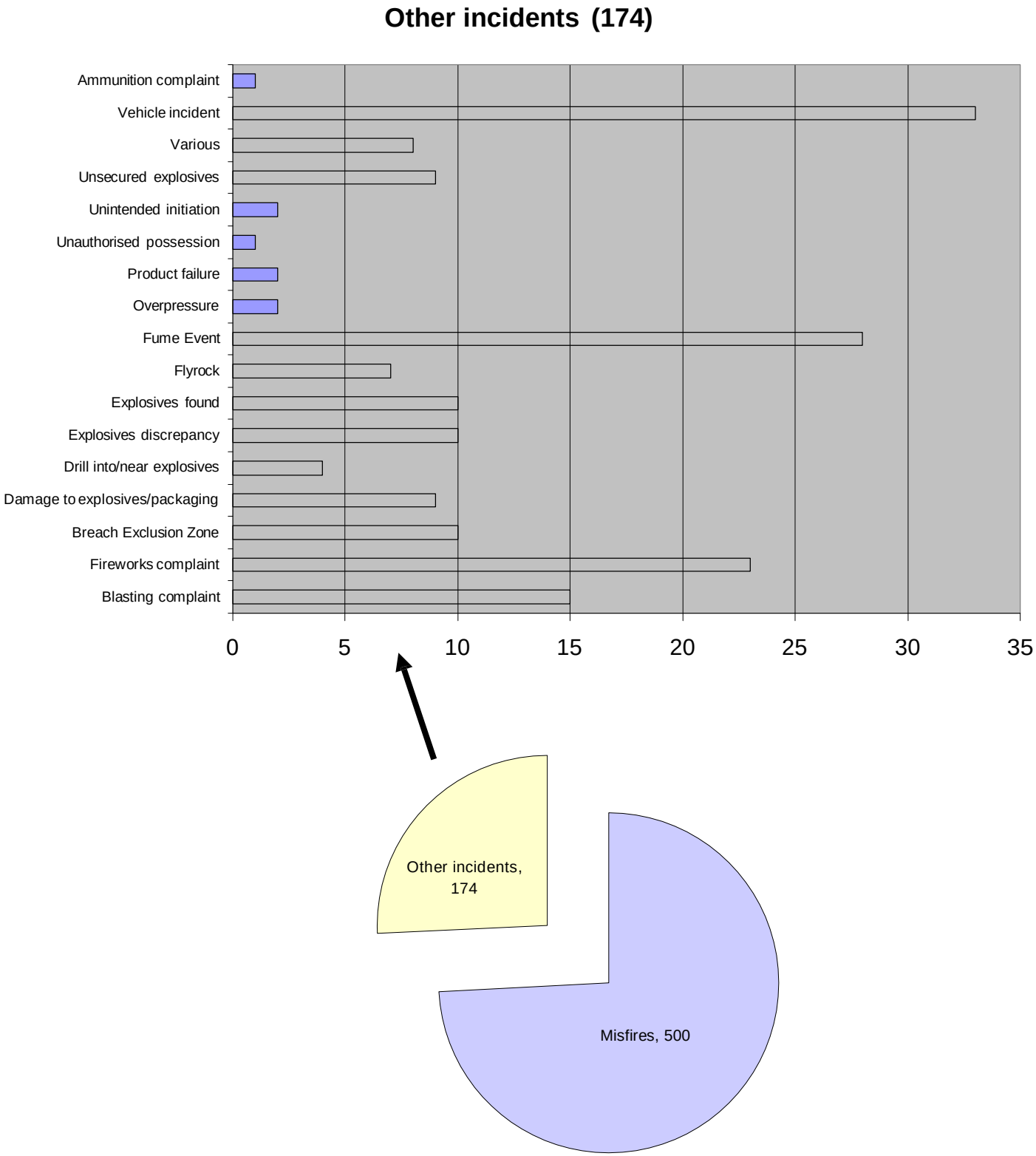


Figure 3: Past year incidents April 2012 – March 2013



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Breakdown of incidents for March 2013

Security

Description	Explosives involved
Explosives discrepancy (2 incidents)	
A box of surplus fireworks from a concert went missing after it was secured in a storage facility awaiting backload.	Fireworks
A magazine acquittal at the end of a shift identified one missing detonator.	Blasting Explosives
Unsecured Explosives (1 incident)	
A booster was located in a primesafe (cardboard holder unit) by a shotfirer during the charging of a presplit from the previous day's loading.	Blasting Explosives

Safety

Mining/Construction

Description	Explosives involved	Outcome
Misfires - Above Ground (16 incidents)		
2 x lead lines cut 1 x detonator failure 2 x loading method failures 2 x improper tie-ins 2 x slumping of product 8 x unknown	Blasting Explosives	No adverse outcome (High Potential Incident)
Misfires - Underground (15 incidents)		
2 x dislocation of columns 13 x unknown	Blasting Explosives	No adverse outcome (High Potential Incident)
Breach Exclusion Zone (3 incidents)		
A shotfirer tried to fire a shot at a mine site when an error came up as a result of an excavator breaching the demarcation bund while tramming out of the blast exclusion zone.	Blasting Explosives	No injuries or property damage.
After the firing of a blast at a mine site, it was discovered that a contractor had been left inside the blast exclusion zone. No fume was recorded for the blast.	Blasting Explosives	No injuries or property damage.
A fitter was left working on a loader within the blast exclusion zone when a shot was fired at a mine site. The loader was approximately 300 metres from the shot.	Blasting Explosives	No injuries or property damage.
Fume Event (2 incidents)		
A level 4 fume event was generated which was contained in the blast fume management zone.	Blasting Explosives	No exposures. (High Potential Incident)

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A level 4 fume event was generated which was contained within the 1000 metre blast exclusion zone.	Blasting Explosives	No exposures. (High Potential Incident)
Product failure (1 incident)		
A detonator failed to log due to internal fuse failure.	Blasting Explosives	No injuries. Product retained for investigation.
Vehicle incident (1 incident)		
A fork lift picked up a full container of ammonium nitrate and when stopping the fork lift, the ammonium nitrate has slid off the forks and landed on its side.	SSAN	No loss of product.
Other (1 incident)		
Unauthorised detonators were loaded into a production blast	Blasting Explosives	No injuries

Transport

Description	Explosives involved	Outcome
Vehicle incident (1 incident)		
Whilst travelling, a B-double loaded with ammonium nitrate emulsion lost its rear trailer which had rolled over onto its side. As a result, 4 tonnes of product had spilled.	Blasting Explosives	No injuries. Product fully removed and cleaned up.

Complaints

Description	Explosives involved	Outcome
Fireworks (1 incident)		
A fireworks contractor received a complaint about dogs running around their local area as a result of fireworks displays in addition to never being notified of any fireworks displays in the area.	Fireworks	No formal complaint received.

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Explosives incidents and complaints

April 2013 report

This document lists all explosives safety and security incidents and complaints reported in the month of April 2013 and a summary for the past year. The number of injuries and fatalities for 2013 is also included below which is categorised by community or industry.

	April 2013	Year to date (2013)
Community	0 fatalities 0 injuries	0 fatalities 0 injuries
Industry	0 fatalities 0 injuries	0 fatalities 2 injuries

Figure 1: Explosives incidents and complaints April 2013

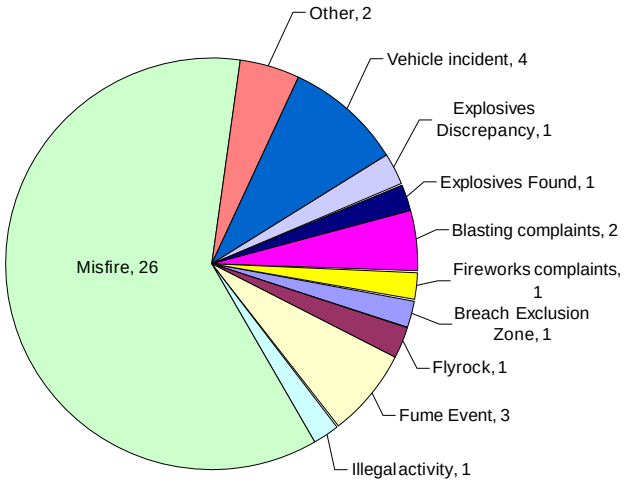


Figure 2: Breakdown of misfire causes April 2013

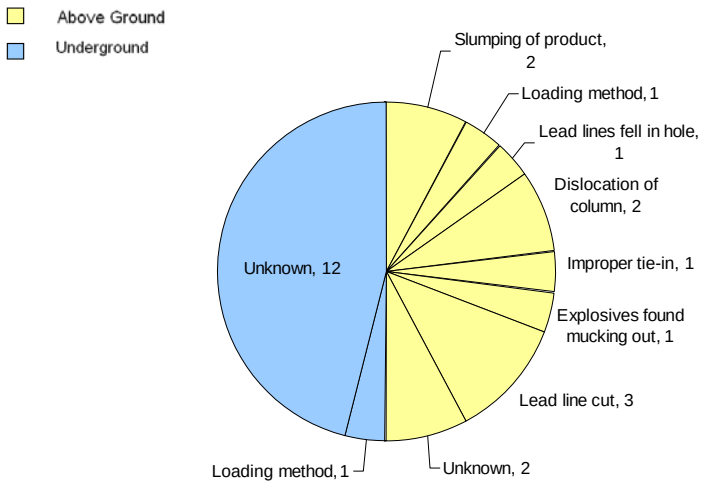
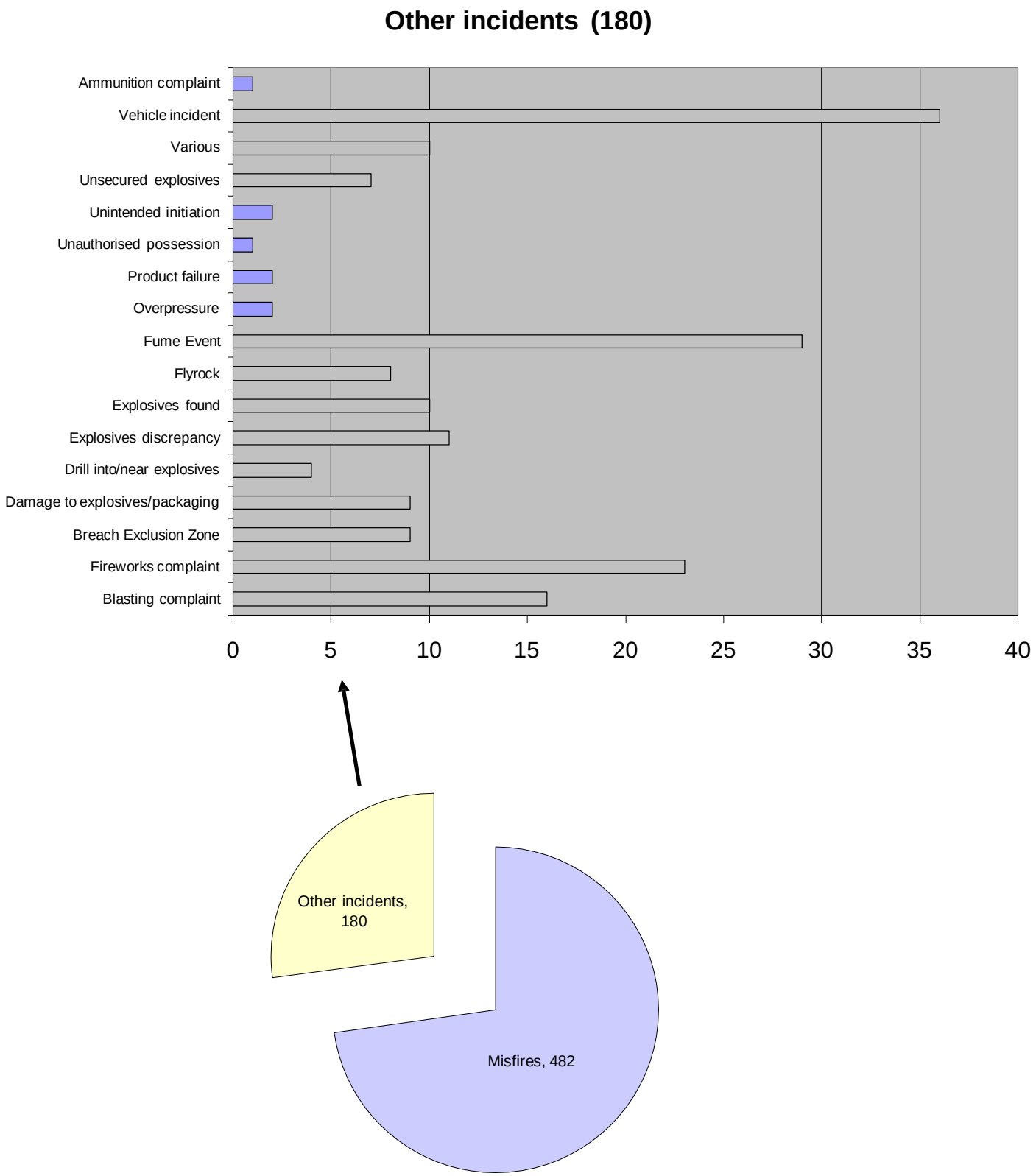


Figure 3: Past year incidents May 2012 – April 2013



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Breakdown of incidents for April 2013

Security

Description	Explosives involved
Explosives discrepancy (1 incident)	
A mine reported that they could not account for 4 electronic detonators but does not suspect any foul play.	Blasting explosives
Explosives found (1 incident)	
35 metres of live signal tube was found at a mine site that was discarded from secondary blasting.	Blasting explosives

Safety

Mining

Description	Explosives involved	Outcome
Misfires - Above Ground (13 incidents)		
3 x lead lines cut 1 x explosives found while mucking out 1 x improper tie-in 2 x slumping of product 2 x dislocation of column 1 x lead lines fell in hole 1 x loading method 2 x unknown causes	Blasting explosives	No adverse outcome (High Potential Incident)
Misfires - Underground (13 incidents)		
1 x loading method 12 x unknown causes	Blasting explosives	No adverse outcome (High Potential Incident)
Breach Exclusion Zone (1 incident)		
An excavator dug into a loaded shot in pit and exposed a collar of 2 columns.	Blasting explosives	No adverse outcome (High Potential Incident)
Flyrock (1 incident)		
An overburden shot was fired with an equipment exclusion zone of 300 metres. A three-hole face burst and projected rock 396 metres into the dragline damaging the cables and structure.	Blasting explosives	No injuries, Property damage only
Fume Event (3 incidents)		
A level 4 fume event was generated at a mine site which breached the Fume Management Zone.	Blasting explosives	No exposures
A level 4 fume event was generated at a mine site but did not breach the Fume Management Zone.	Blasting explosives	No exposures
A fume event was generated at a mine site but did not breach the Fume	Blasting explosives	No exposures

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Management Zone.		
Vehicle incident (2 incidents)		
A mobile manufacturing unit reversed into a Shotfirer's ute whilst trying to leave the shot at a mine site.	Blasting explosives	No injuries, Property damage only
A charge car was being cleaned in an engine bay when the degreaser must have come in contact with the hot surface causing a fire. A small amount of ungassed emulsion was on board at the time.	Blasting explosives	No injuries, Property damage only
Other (2 incidents)		
A batch of boosters were identified at a mine site as being overfilled. The explosives have been quarantined and further investigation is underway.	Blasting explosives	No injuries
A blast crew inspected a shot and discovered a number of slumped holes. The top of the hole was reprimed and the shot was fired with no signs of misfires.	Blasting explosives	No injuries

Transport

Description	Explosives involved	Outcome
Vehicle Incident (1 incident)		
Last night during an import a transport vehicle was stopped on a highway with a 1.2T bulka bag leaking ammonium nitrate. The leak was contained, a total of 60Kgs was lost. The bulk bag was torn from a defect on the trailer head board/gate.	SSAN	Spill

Storage

Description	Explosives involved	Outcome
Vehicle Incident (1 incident)		
A forklift made contact with an overhead high voltage power line during an operation dragging a large tarpaulin into an area to drain water.	n/a	No injury, Property damage only

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Community

Description	Explosives involved	Outcome
Illegal activity (1 incident)		
Home made explosives were seized from a residence as a result of a police operation.	Home made explosives	Explosives seized, no injuries

Complaints

		Outcome
Fireworks (1 incident)		
A complaint was received about illegal use of fireworks at a residential property.	Fireworks	Owner/occupier letter sent to residential property
Blasting (2 incidents)		
A complaint was received from a blast crew member regarding non-compliance at a mine site.	Blasting explosives	Complaint under investigation
A coal miner complained about a mine site not having procedures or risk assessments for night shift loading.	Blasting explosives	Site inspection scheduled

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Explosives incidents and complaints

May 2013 report

This document lists all explosives safety and security incidents and complaints reported in the month of May 2013 and a summary for the past year. The number of injuries and fatalities for 2013 is also included below which is categorised by community or industry.

	May 2013	Year to date (2013)
Community	0 fatalities 1 injury	0 fatalities 1 injury
Industry	0 fatalities 0 injuries	0 fatalities 2 injuries

Figure 1: Explosives incidents and complaints May 2013

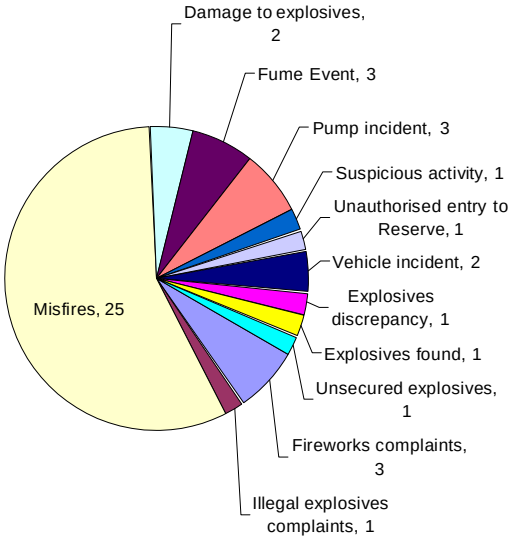


Figure 2: Breakdown of misfire causes May 2013

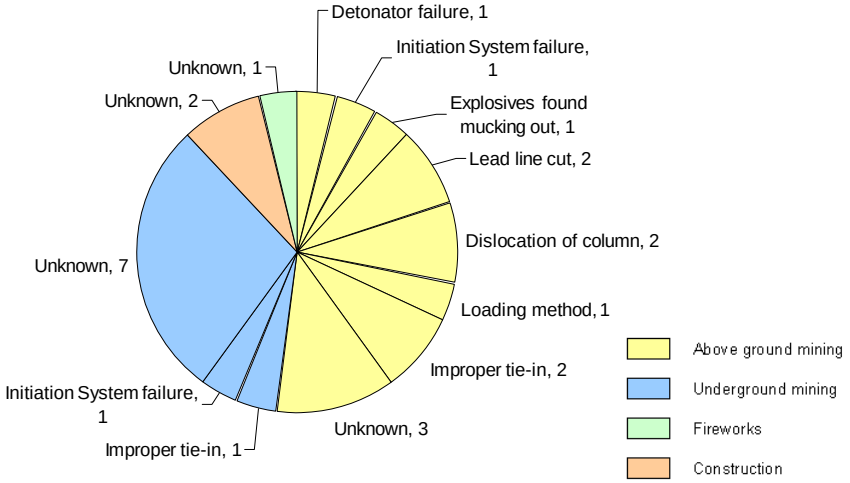
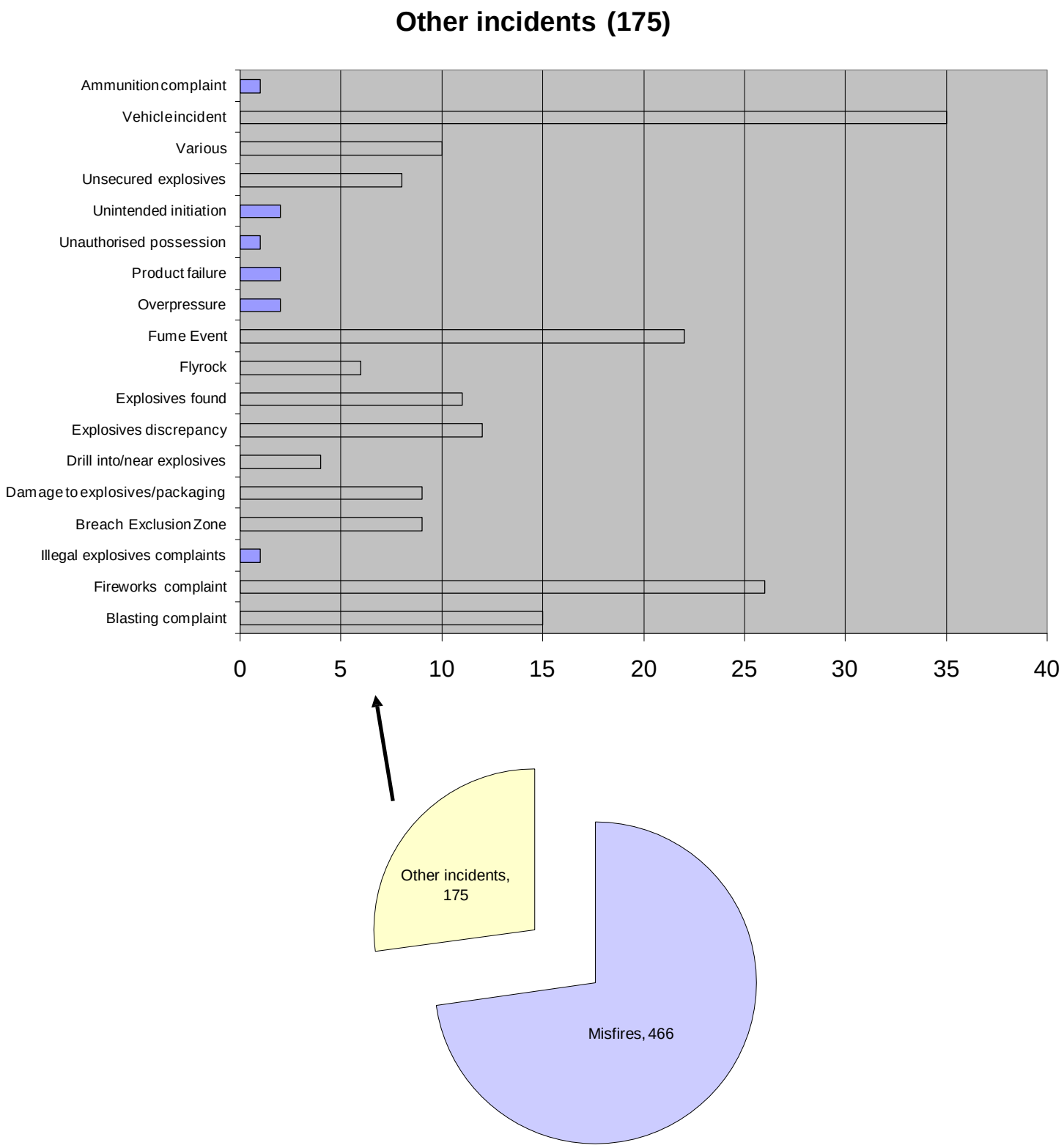


Figure 3: Past year incidents June 2012 – May 2013



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Breakdown of incidents for May 2013

Security

Description	Explosives involved
Explosives discrepancy (1 incident)	
A booster was discovered missing following the loading of a blast at a mine site.	Blasting explosives
Explosives found (2 incidents)	
Misfired explosives found at crushing and screening area at a mine site.	Blasting explosives
A booster with a detonator attached was found at a mine site.	Blasting explosives
Unauthorised entry to reserves (1 incident)	
Vehicles were reported entering a government explosive reserve and traveling on the reserve unaccompanied by authorised staff.	n/a

Safety

Mining

Description	Explosives involved	Outcome
Misfires - Above Ground (11 incidents)		
2 x dislocation of column 1 x detonator failure 1x explosives found while mucking out 1 x improper tie-in 1 x initiation systems failure 1 x lead line cut 1 x loading method 3 x unknown or unidentified	Blasting explosives	No adverse outcome (High Potential Incident)
Misfires - Underground (9 incidents)		
1 x improper tie-in 1 x initiation systems failure 7 x unknown or unidentified	Blasting explosives	No adverse outcome (High Potential Incident)
Damage to explosives / packaging (2 incidents)		
While cleaning up in between rows to move stemming material on a shot at a mine site, a skid steer loader bucket snagged an old lead in line from a previous shot and cut the downline.	Blasting explosives	Lead in line cut
The front wheel of a skid steer drove over a detonator.	Blasting explosives	Damage to detonator
Fume Event (3 incidents)		
A level 1-2 fume event was generated at a mine site which breached the blast exclusion zone and fume management zone.	Blasting explosives	One exposure, no long term health effects
A level 3 fume event was generated at a	Blasting explosives	No exposures

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mine site which breached the fume management zone and blast exclusion zone.		
A level 3 fume event was generated at a mine site.	Blasting explosives	No exposures
Vehicle incident (2 incidents)		
A spill of emulsion occurred due to a valve failure on a tanker at a bench reload at a mine site.	Blasting explosives	Loss of product
A fire was reported in the engine bay of a light vehicle carrying explosives.	Blasting explosives	No injuries, fire extinguished

Construction

Description	Explosives involved	Outcome
Misfires (2 incidents)		
2 x unknown or unidentified	Blasting explosives	No adverse outcome (High Potential Incident)

Fireworks

Description	Explosives involved	Outcome
Misfires (1 incident)		
1 x unknown or unidentified	Fireworks	No adverse outcome (High Potential Incident)

Transport

Description	Explosives involved	Outcome
Suspicious activity (1 incident)		
A prime mover was photographed by a person who pulled up outside the gates to an explosives storage depot. The person got out of their vehicle to take photos of the prime mover and trailers.	Blasting explosives	Incident logged with Queensland Police.

Manufacture

Description	Explosives involved	Outcome
Pump incident (3 incidents)		
During change tank operations at manufacture, 15 kg discharged and recovered to "rework" area. Mechanical disc failure is the probable cause.	Blasting explosives	Pressure being monitored

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The disc on a mono pump burst during a tank change at a manufacturing plant.	Blasting explosives	Pressure being monitored
A burst disc ruptured after pumping was attempted to fill a trailer with a partially closed valve.	Blasting explosives	The partially closed valve was not open enough to reduce pressure to the disc

Community

Description	Explosives involved	Outcome
Homemade explosives (1 incident)		
A teenage boy lost both of his hands from a homemade golf ball bomb that went off while he was holding it.	Blasting explosives	Serious injuries to the boy's hands and shrapnel wounds to his body.

Complaints

Description	Explosives involved	Outcome
Fireworks (3 incidents)		
A complaint was lodged regarding the excessive noise of a fireworks display that frightened their dog.	Fireworks	Inspectorate to follow up
A complaint was received from a resident regarding illegal fireworks being let off.	Fireworks	Occupier letter sent
A complaint was received from a concerned resident regarding a large amount of fireworks being let off in their street.	Fireworks	Occupier letter sent
Blasting (2 incidents)		
A complaint was received about not being notified of a blast in their area. The complaintant lives on a rural property and has livestock which were startled during the blasting.	Blasting explosives	Inspectorate followed up with complainant
A complaint was made by a local business regarding large blasts in the area that shook her windows.	Blasting explosives	Inspectorate followed up with complaintant
Illegal explosives (1 incident)		
A complaint was received about the potential importation of exploding rifle targets.	Illegal explosives	Advice given to complaintant that the explosives are not authorised for use in Queensland and could not be imported into the state.

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Explosives incidents and complaints

June 2013 report

This document lists all explosives safety and security incidents and complaints reported in the month of June 2013 and a summary for the past year. The number of injuries and fatalities for 2013 is also included below which is categorised by community or industry.

	June 2013	Year to date (2013)
Community	1 fatality 2 injuries	1 fatality 3 injuries
Industry	0 fatalities 0 injuries	0 fatalities 2 injuries

Figure 1: Explosives incidents and complaints June 2013

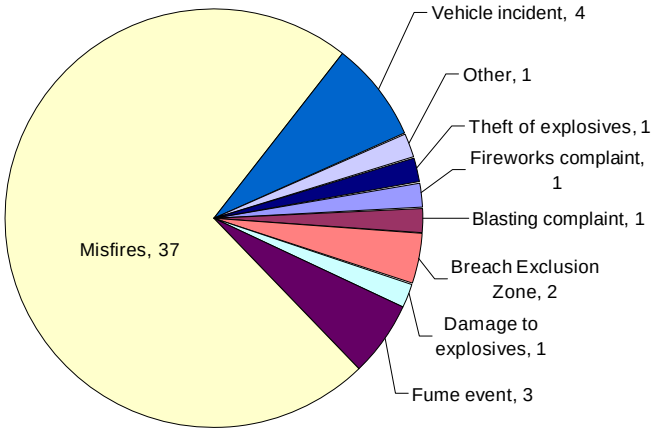


Figure 2: Breakdown of misfire causes June 2013

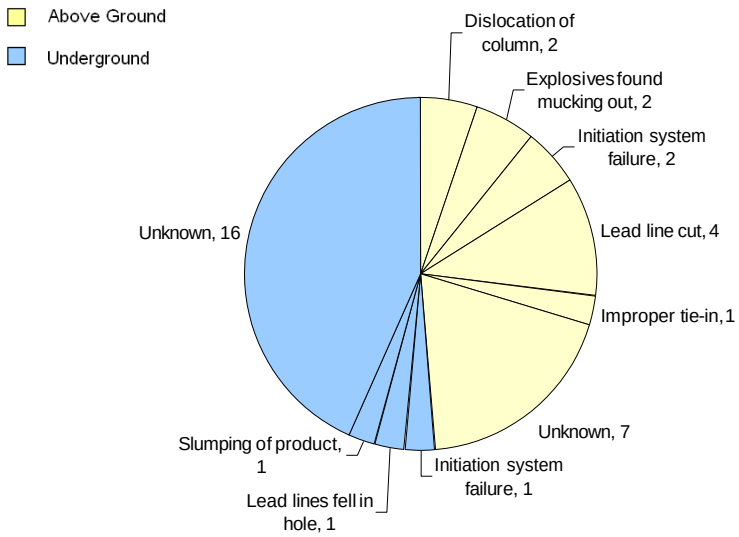
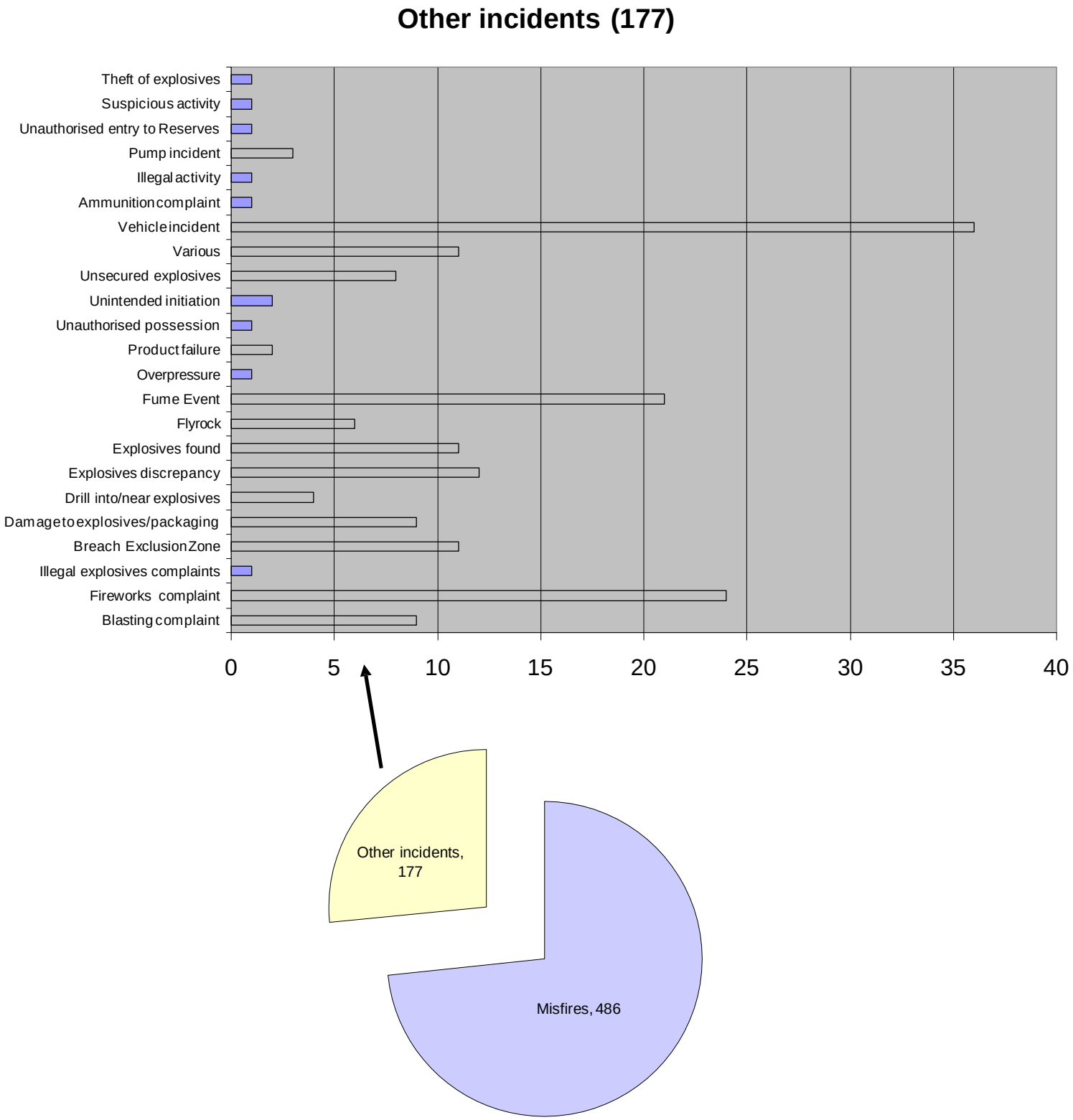


Figure 3: Past year incidents July 2012 – June 2013



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Breakdown of incidents for June 2013

Security

Description	Explosives involved
Theft of explosives (1 incident)	
A contractor scraped up a quantity of dirt mixed with ammonium nitrate, put it in a bucket and took it home.	SSAN

Safety

Mining

Description	Explosives involved	Outcome
Misfires - Above Ground (18 incidents)		
1 x improper tie-in 2 x dislocation of column 2 x explosives found mucking out 2 x initiation system failure 4 x lead line cut 7 x unknown/unidentified	Blasting explosives	No adverse outcome (High Potential Incident)
Misfires - Underground (19 incidents)		
1 x initiation system failure 1 x lead lines fell in hole 1 x slumping of product 16 x unknown/unidentified	Blasting explosives	No adverse outcome (High Potential Incident)
Breach Exclusion Zone (2 incidents)		
An employee of a mine site has driven past a blast guard after a shot had been fired.	Blasting explosives	No adverse outcome (High Potential Incident)
A drill fitter has driven his vehicle onto a shot that was being loaded.	Blasting explosives	No adverse outcome (High Potential Incident)
Fume Event (3 incidents)		
A level 3 fume event was generated at a mine site which breached the blast exclusion zone.	Blasting explosives	No exposures
A level 2/3 fume event was generated at a mine site which breached the blast exclusion zone.	Blasting explosives	8 workers exposed, no long term health effects expected
A blast was fired at a mine site. Following the blast, two employees working at the adjacent mine reported to the local medical centre feeling ill due to potential fume exposure.	Blasting explosives	2 possible exposures, no long term health effects expected
Damage to explosives / packaging (1 incident)		
A vehicle drove over a harness wire at a mine site.	Blasting explosives	Damage to harness wire

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Vehicle incident (2 incidents)		
Maintenance conducted on an explosives light vehicle found to have explosives still on board. The vehicle was not checked for explosives prior to entering the workshop.	Blasting explosives	No adverse outcome (High Potential Incident)
A fire was noticed coming from a charge vehicle's rear left tyre.	Blasting explosives	Fire extinguished successfully

Transport

		Outcome
Vehicle incident (1 incident)		
A mechanical failure of a brake booster caused the vehicle brakes to catch fire on an ammonium nitrate emulsion tanker.	Blasting explosives	Fire extinguished successfully

Community

Description	**Explosives involved**	**Outcome**
Other (1 incident)		
An explosion occurred after propellant powder had been placed into a steel tube and lit with a burning stick.	Blasting explosives	One person killed and two people injured

Complaints

Description	**Explosives involved**	**Outcome**
Fireworks (1 incident)		
A complaint has been received about the illegal use of fireworks at a residential property.	Fireworks	No further action
Blasting (1 incident)		
A complaint was received regarding an alleged fume cloud.	Blasting explosives	Investigation revealed no blasting conducted on the day.

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Explosives incidents and complaints

July 2013 report

This document lists all explosives safety and security incidents and complaints reported in the month of July 2013. This report also includes a summary of all safety and security incidents and complaints for the past year. The number of injuries and fatalities for 2013 is also included below which is categorised by community or industry.

	July 2013	Year to date (2013)
Community	0 fatalities 1 injury	1 fatality 4 injuries
Industry	0 fatalities 0 injuries	0 fatalities 2 injuries

Figure 1: Explosives incidents and complaints July 2013

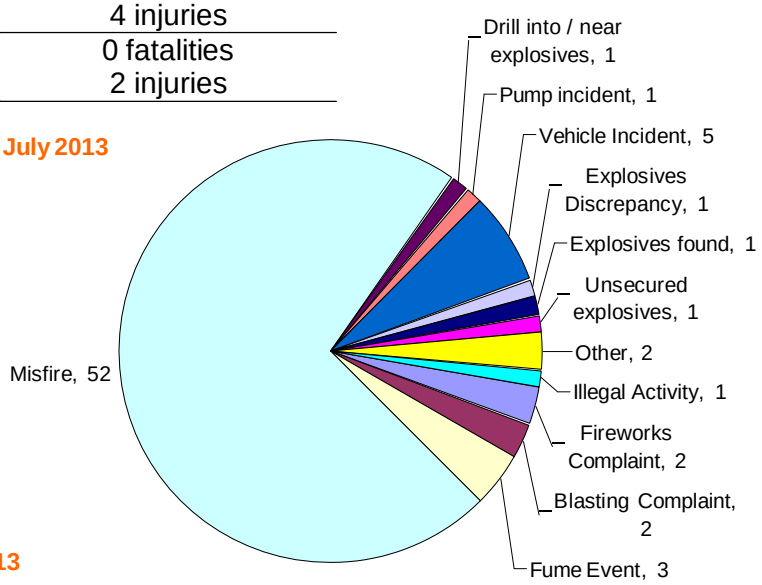


Figure 2: Breakdown of misfire causes July 2013

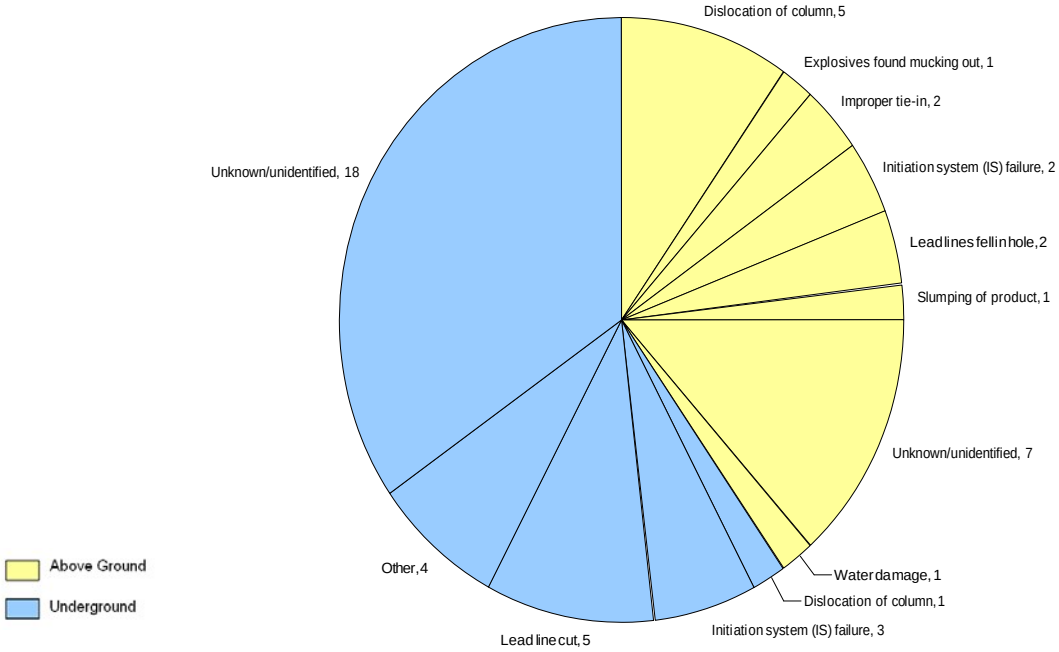
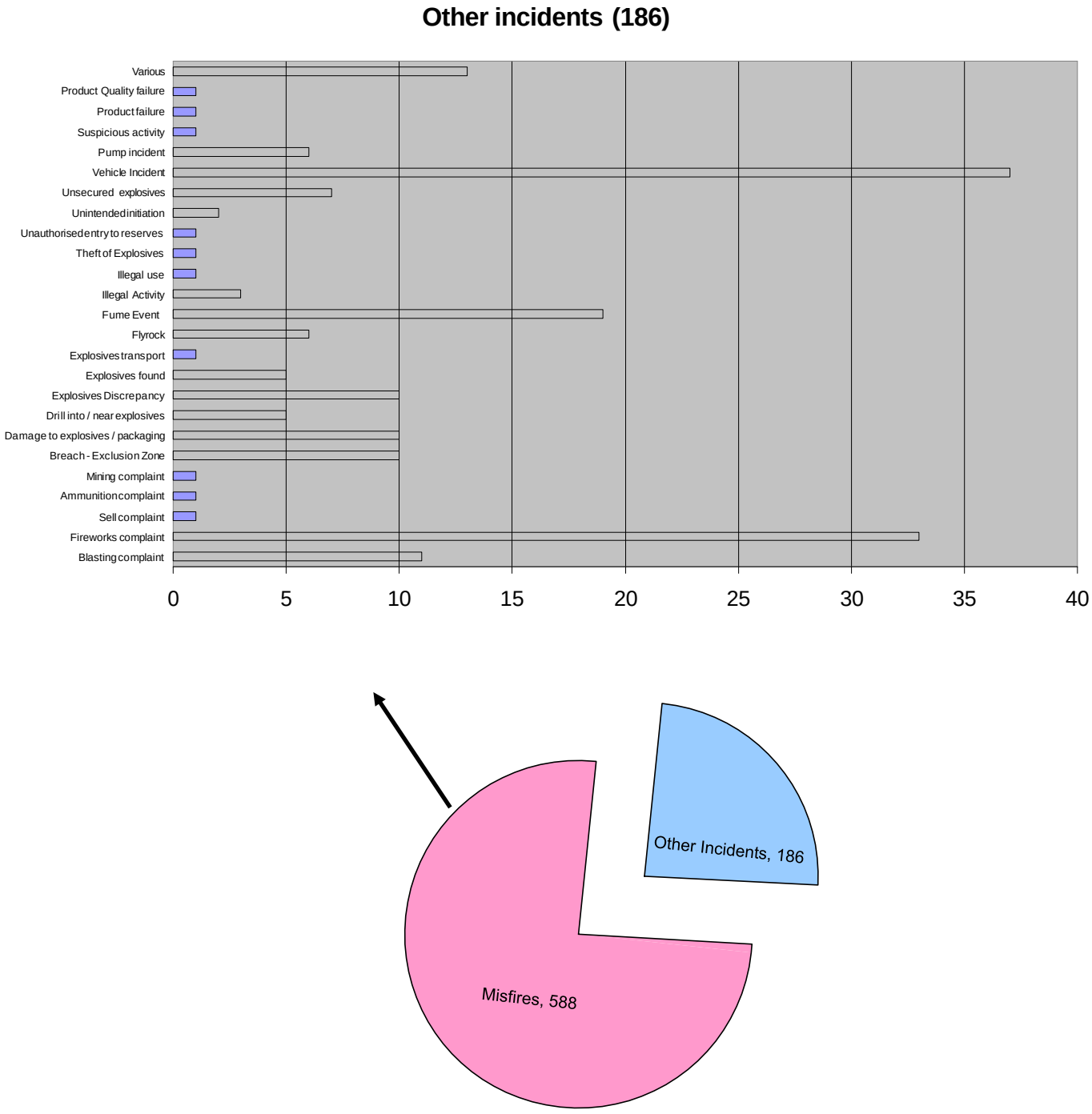


Figure 3: Past year incidents August 2012 – July 2013



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Breakdown of incidents for July 2013

Security

Description	Explosives involved
Explosives discrepancy (1 incident)	
When checking returned explosives to a magazine, a single detonator was missing.	Blasting explosives
Explosives found (1 incident)	
A box of 400g Boosters fell out of a shot firers vehicle. The box was found by the side of the inactive haul road in an un-damaged condition.	High explosives
Unsecured Explosives (1 incident)	
3 non-electric detonators were found unsecured in a charge car basket.	Blasting explosives

Safety

Mining/Construction

Description	Explosives involved	Outcome
Misfires - Above Ground (21 incidents)		
5 x dislocation of column 1 x explosives found mucking out 2 x improper tie-in 2 x initiation system (IS) failure 2 x lead lines fell in hole 1 x slumping of product 7 x unknown/unidentified 1 x water damage	Blasting explosives	No adverse outcome (High Potential Incident)
Misfires - Underground (31 incidents)		
3 x initiation system (IS) failure 5 x lead line cut 1 x Dislocation of column 4 x other 18 x unknown/unidentified	Blasting explosives	No adverse outcome (High Potential Incident)
Drill into/near explosives (1 incident)		
A jumbo drilled within 100 mm of a misfire in a shaft sink floor.	High explosives	No adverse outcome (High Potential Incident)
Fume Event (3 incidents)		
A level 4 Fume event occured at the firing of a tertiary shot. The plume left the blast exclusion zone but did not leave the fume management zone.	Blasting explosives	No exposures
A shot was fired that generated a level 3 fume event. A blast guard at the edge of the fume management zone moved location and reported being exposed to the dust cloud but not fume.	Blasting explosives	No exposures
A level 4 fume event has occurred after firing an overburden shot. The plume has	Blasting explosives	1 person taken to onsite medic as

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travelled approximately 1.5 km past the fume management zone.		precautionary measure and cleared
Vehicle incident (2 incidents)		
A mobile manufacturing unit was manufacturing and loading explosives on a bench when smoke was seen coming from underneath the cabin. Electrical isolation hit and fire extinguisher used.	Blasting explosives	No injuries
During routine maintenance grinding disks were discovered in the basket of a Normet. Investigation discovered that workers had been conducting hot work in the basket while loaded with explosives.	High explosives	No injuries
Pump Incident (1 incident)		
Two ammonium nitrate tanks were overloaded resulting in a spill of approximately 500kg of emulsion phase.	Blasting explosive	No injuries
Other (1 incident)		
During excavation of a construction site the operator uncovered an 80mm blast hole that had a shock tube protruding from the top of the hole. The hole contained some aggregate that had been used for stemming.	Blasting explosive	No injuries

Transport

Description	Explosives involved	Outcome
Other (1 incidents)		
Approximately 25-30 kilograms of Ammonium Nitrate prill spilled from a loaded shipping container during shunting operations.	SSAN	No injuries
Vehicle incident (2 incidents)		
A driver responded to an overheated trailer brake with a fire extinguisher assisted by a roadwork water truck operator.	Blasting explosives	No injuries
Trailers carrying ammonium nitrate separated from the prime mover and slid along the road.	SSAN	No injuries

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Manufacture

Description	Explosives involved	Outcome
Other (1 incidents)		
While filling a B double tanker, the A trailer was connected to ANE storage tanks and filled. The driver then drove the tanker forward to position the second trailer without disconnecting the delivery hose which ruptured spilling ammonium nitrate emulsion onto the ground.	Blasting explosives	No injuries

Community

Description	Explosives involved	Outcome
Illegal activity (1 incidents)		
A person illegally initiated two detonators whilst camping on a forestry reserve.	Blasting explosives	1 person injured

Complaints

Description	Explosives involved	Outcome
Fireworks (2 complaints)		
A person complained directly to a Fireworks operator regarding burning embers and packing material falling in to the audience during a fireworks display	Fireworks	No adverse outcome
A resident informed that he lives in close proximity to where a firework display was conducted and was not notified and was unable to manage dogs	Fireworks	No adverse outcome
Blasting (2 complaints)		
A complaint was received regarding damage to their ceilings from a suspected blast behind their house	Blasting explosives	No adverse outcome
A complaint was received about the non notification of a blast within 800m of a prorerty	Blasting explosives	No adverse outcome

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Explosives incidents and complaints

August 2013 report

This document lists all explosives safety and security incidents and complaints reported in the month of August 2013. This report also includes a summary of all safety and security incidents and complaints for the past year. The number of injuries and fatalities for 2013 is also included below which is categorised by community or industry.

	August 2013	Year to date (2013)
Community	0 fatality 1 injury	1 fatality 5 injuries
Industry	0 fatality 1 injuries	0 fatality 3 injuries

Figure 1: Explosives incidents and complaints August 2013

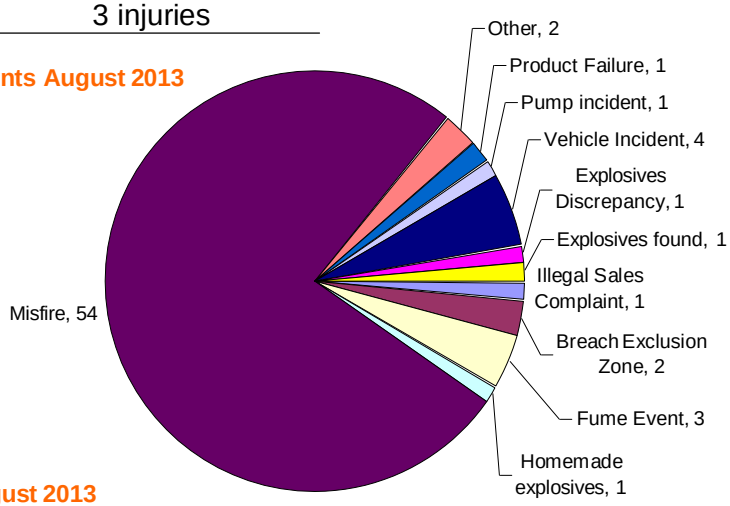


Figure 2: Breakdown of misfire causes August 2013

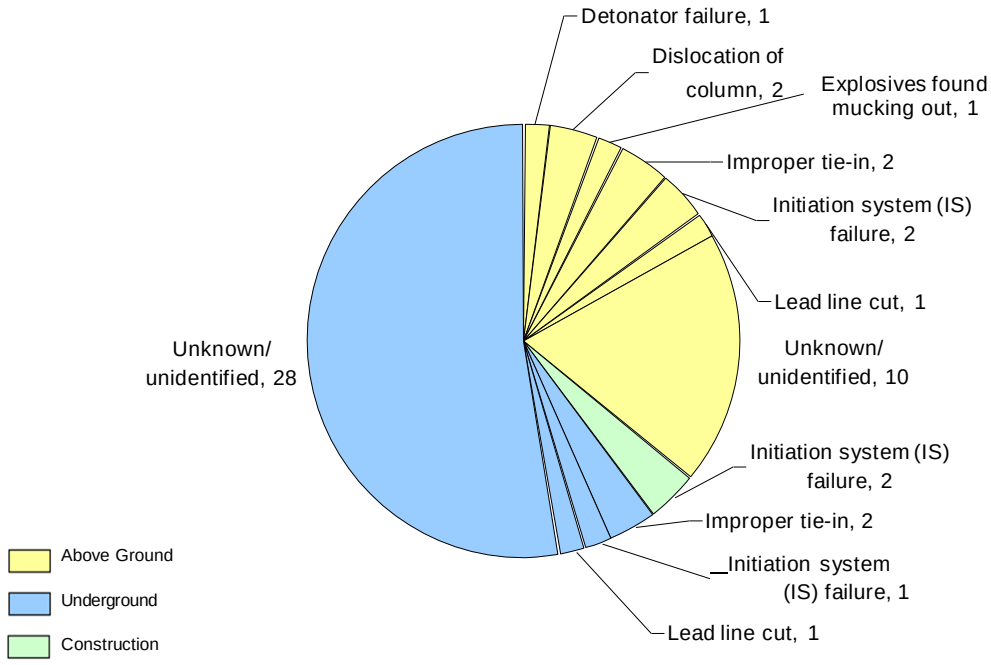
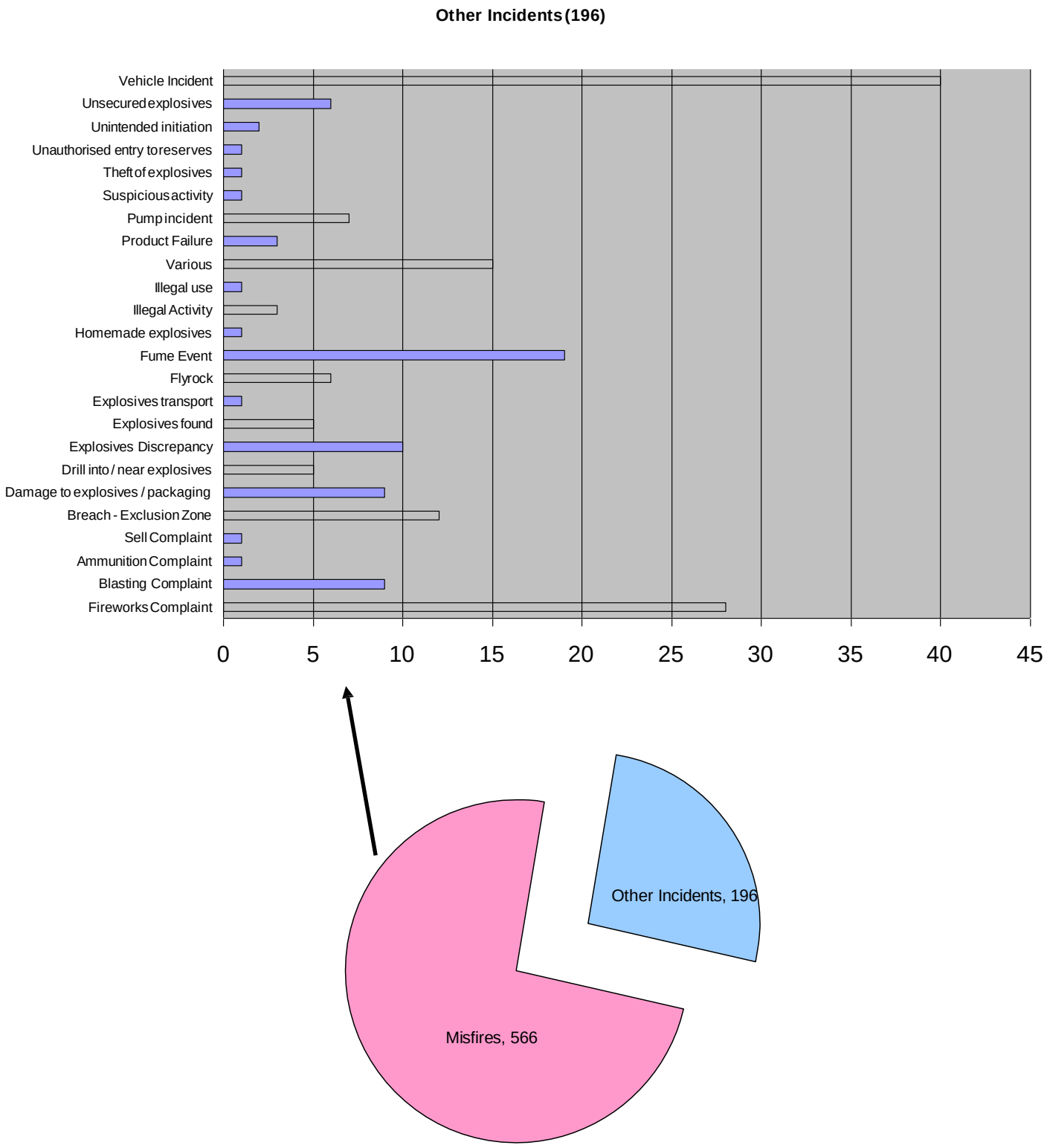


Figure 3: Past year incidents September 2012 – August 2013



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Breakdown of incidents for August 2013

Safety

Mining

Description	Explosives involved	Outcome
Misfires - Above Ground (19 incidents)		
1 x detonator failure 2 x dislocation of column 1 x explosives found mucking out 2 x improper tie-in 2 x initiation system failure 1 x lead line cut 10 x unknown/ unidentified	Blasting Explosives	No adverse outcome (High Potential Incident)
Misfires - Underground (32 incidents)		
2 x improper tie-in 1 x initiation system failure 1 x lead line cut 28 x unknown/ unidentified	Blasting Explosives	No adverse outcome (High Potential Incident)
Misfires – Construction (2 incidents)		
2 x initiation system failure	Blasting Explosives	No adverse outcome (High Potential Incident)
Breach Exclusion Zone (2 incidents)		
A water truck drove onto a blast bench during loading of a shot	Blasting Explosives	No adverse outcome (High Potential Incident)
A fitter drove a ute onto a loaded bench	Blasting Explosives	No adverse outcome (High Potential Incident)
Fume Event (3 incidents)		
A level 3 fume event was generated which breached the blast exclusion zone	Blasting Explosives	No exposures
Low level fumes	Blasting Explosives	Possible exposure to odour threshold no advisable outcome
A level 3 fume event was recorded in the fume management zone	Blasting Explosives	No exposures
Vehicle (3 incidents)		
A loaded MMU ran over a live drill dragline trailing electrical cable at a mine site	Blasting Explosives	No adverse outcome
A MMU rolled over after doing a u turn on an uneven surface	Blasting Explosives	No adverse outcome
A MMU reversed over a lead in line which caused it to tangle and snap	Blasting Explosives	No adverse outcome
Other (1 incidents)		
A loaded operator placed an oversized rock into bomb bay unaware that misfired	Blasting Explosives	No adverse outcome

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explosives were still on rocks in bay.		
Explosives Discrepancy (1 incidents)		
While baiting a shot a detonator and booster has been lost down a hole	Blasting Explosives	No adverse outcome
Explosives Found (1 incidents)		
An unused live detonator was found on a roadway in a public place	Blasting Explosives	No adverse outcome (High Potential Incident)

Manufacture

Description	Explosives involved	Outcome
Vehicle incident (2 incidents)		
A MMU rolled over after doing a u turn on an uneven surface	Blasting Explosives	No adverse outcome
A discharge valve was closed on an AN mono pump which caused the rupture disc at the back of the pump to blow out, resulting in 100kg of ANE spilling onto the ground.	Blasting Explosives	No adverse outcome

Fireworks

Description	Explosives involved	Outcome
Explosives Malfunction (2 incidents)		
A ground cake functioned during display, tubes were found out to 15 metres	Fireworks	No adverse outcome
A fireworks operator received minor burns whilst fighting a small grass fire cause by fireworks	Fireworks	Minor Burns, returned to work immediatley after incident

Community

Description	Explosives involved	Outcome
Damage to explosives (1 incidents)		
Two individuals made an improvised explosive the size of a cricket ball from toy gun caps.		One individual severly injured their left hand, losing thumb and index finger. Neck and chest injuries were also sustained from the explosion

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Complaints

Description	Explosives involved	Outcome
Sale of Explosives (1 complaint)		
A complaint was made about a shop selling explosives illegally	Propellant Powders	Matter being investigated

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Explosives incidents and complaints

September 2013 report

This document lists all explosives safety and security incidents and complaints reported in the month of September 2013. This report also includes a summary of all safety and security incidents and complaints for the past year. The number of injuries and fatalities for 2013 is also included below which is categorised by community or industry.

	September 2013	Year to date (2013)
Community	0 fatality 0 injury	1 fatality 5 injuries
Industry	0 injury 0 fatality	0 fatality 3 injuries

Figure 1: Explosives incidents and complaints September 2013

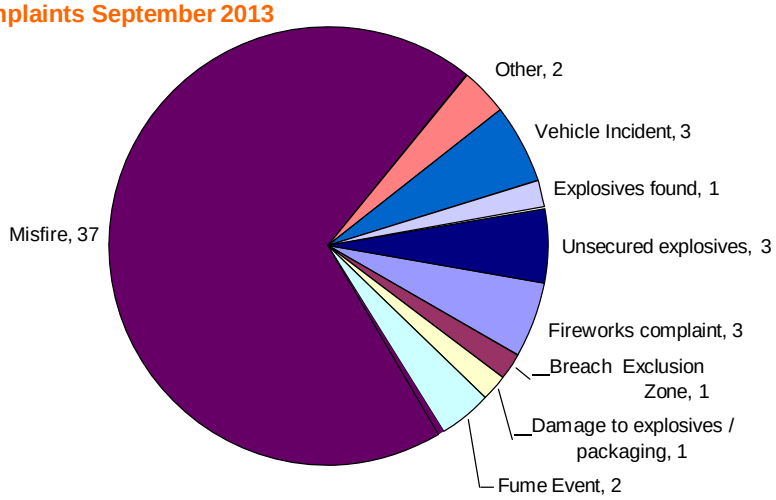


Figure 2: Breakdown of misfire causes September 2013

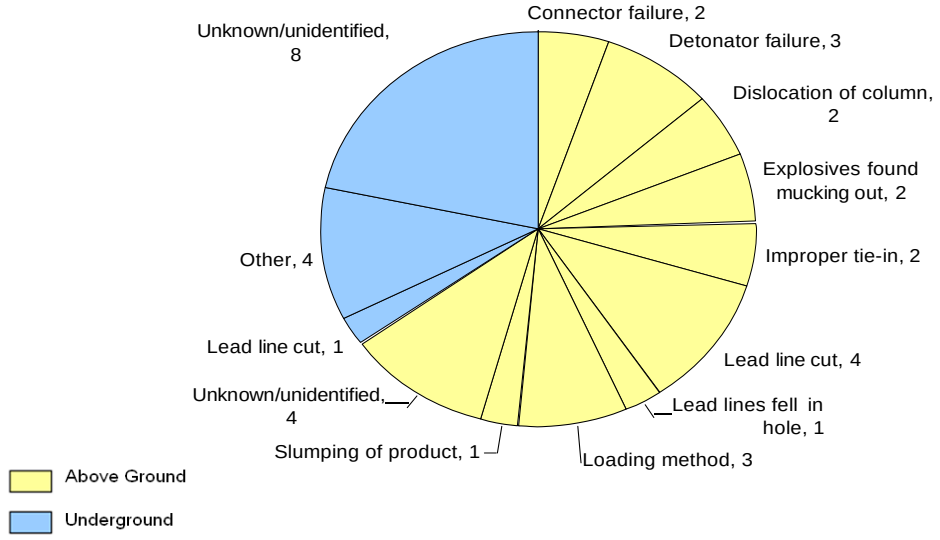
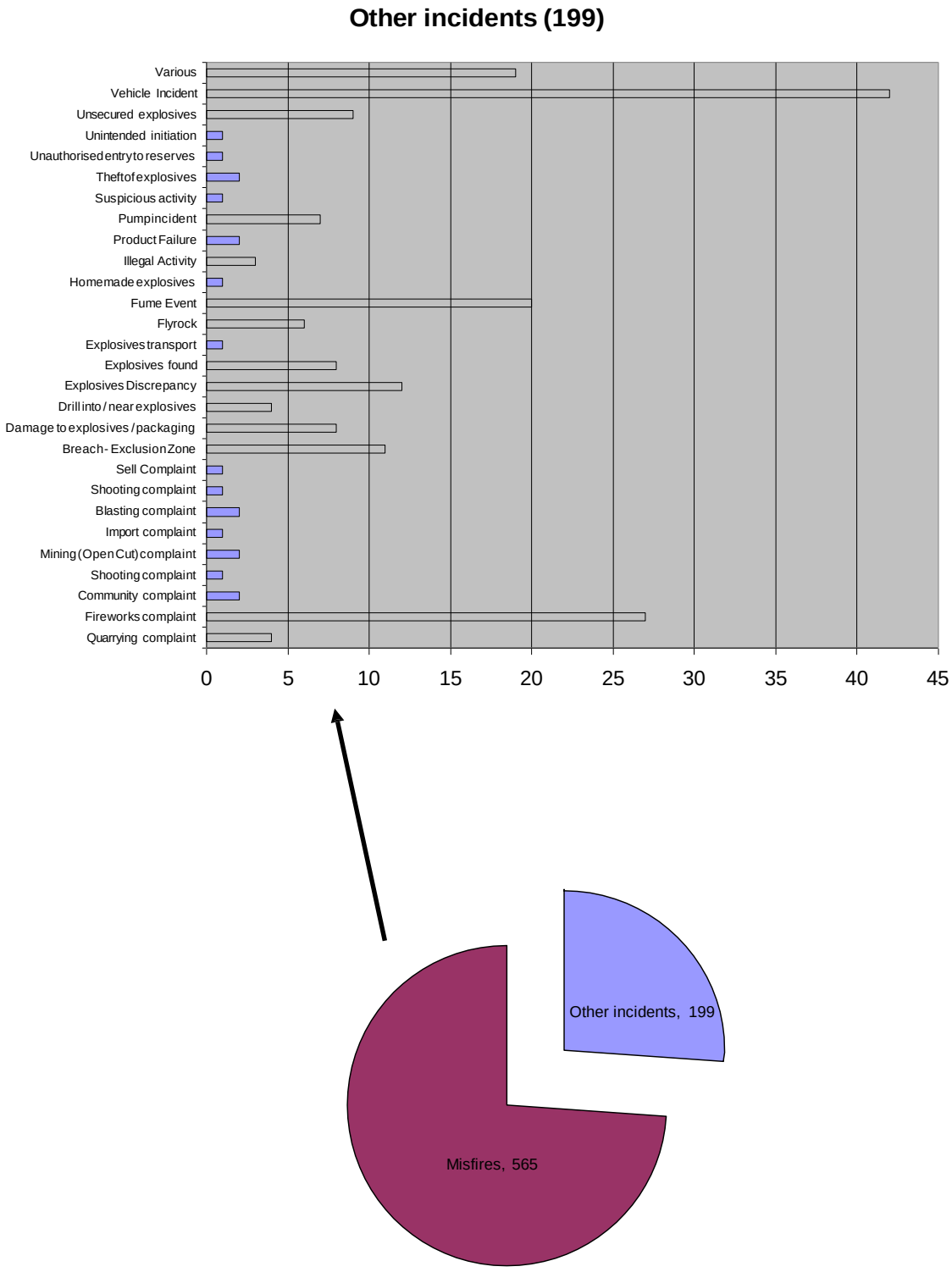


Figure 3: Past year incidents August 2012 – September 2013



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Breakdown of incidents for September 2013

Security

Description	Explosives involved
Explosives discrepancy (1 incident)	
A digger was digging up coal and a booster was found. It was an old booster from a previous misfire	Booster
Unsecured Explosives (2 incidents)	
A piece of recovered explosives was discovered on a table in a mine office	Powergel
A vehicle was sent off site for repair. A live booster was found under a tarpaulin in the tray of the vehicle	Booster

Safety

Mining

Description	Explosives involved	Outcome
Misfires - Above Ground (24 incidents)		
2 x connector failure 3 x detonator failure 2 x dislocation of column 2 x explosives found mucking out 2 x improper tie in 4 x lead line cut 1 x lead lines fell in hole 3 x loading method 1 x slumping of product 4 x unknown/ unidentified	Blasting explosives	No adverse outcome (High Potential Incident)
Misfires - Underground (13 incidents)		
1 x lead line cut 4 x other 8 x unknown/ unidentified	Blasting explosives	No adverse outcome (High Potential Incident)
Breach Exclusion Zone (1 incident)		
A digger has dug into a loaded shot, it was discovered by the oncoming shift	Blasting explosives	No adverse outcome (High Potential Incident)
Fume Event (2 incidents)		
A level 3 fume event was generated at a mine site	Blasting explosives	No exposures
A level 3 fume event occurred where the fume management zone was breached by 500 m	Blasting explosives	No exposures
Manufacture (2 incidents)		

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A truck was driven to calibration area when operator noticed smoke coming from under the truck, truck was moved out of explosives compound and fire supression was activated.	Blasting explosives	No adverse outcome (High Potential Incident)
An Emulsion Phase tank was in the process of transfering emulsion, when a spill of 19kg of emulsion occured	Emulsion	No adverse outcome (High Potential Incident)
Other (1 incident)		
An expired smoke flare was placed into a collection bin when it went off producing a large amount of smoke.	Flares	No adverse outcome (High Potential Incident)

Transport

Description	Explosives involved	Outcome
Damage to explosives / packaging (1 incident)		
The batching tank had been emptied and cleaned. Steam was pushed through the pipes to clear and this melted a shredded bulka bag wrapped around pipes. This caused a hot spot of approx 90c	Blasting explosives	No adverse outcome (High Potential Incident)
Vehicle incident (3 incidents)		
A B triple transporting 60 tonnes of prilled Ammonium nitrate was observed with smoke coming from a wheel on its first trailer.	Ammonium nitrate	A temporary exclusion zone was set up and brakes were cooled with water
A hydraulic fitting on a rear trailers lift circuit has failed while tipping a loaded container	Ammonium nitrate	No adverse outcome (High Potential Incident)
A slurry hose plumbing block on a mobile processing unit has failed causing the block to slide down the hose to the ground	Ammonium nitrate emulsion	Site is investigating

Complaints

Description	Explosives involved	Outcome
Fireworks (3 complaints)		
1 x complaint about the frequency of fireworks displays in Cairns	Fireworks	
2 x No notification of a fireworks event, which resulted in animals being scared	Fireworks	

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Explosives incidents and complaints

October 2013 report

This document lists all explosives safety and security incidents and complaints reported in the month of October 2013. This report also includes a summary of all safety and security incidents and complaints for the past year. The number of injuries and fatalities for 2013 is also included below which is categorised by community or industry.

	October 2013	Year to date (2013)
Community	0 fatality 0 injury	1 fatality 5 injury
Industry	0 fatality 0 injury	0 fatality 3 injury

Figure 1: Explosives incidents and complaints October 2013

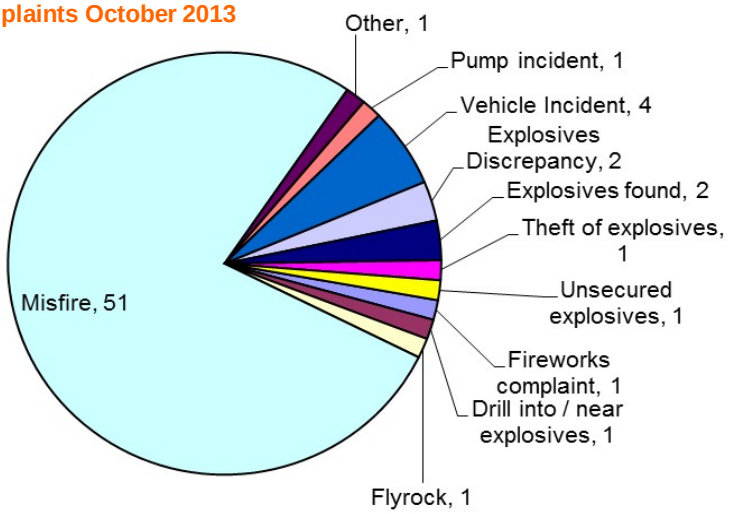


Figure 2: Breakdown of misfire causes October 2013

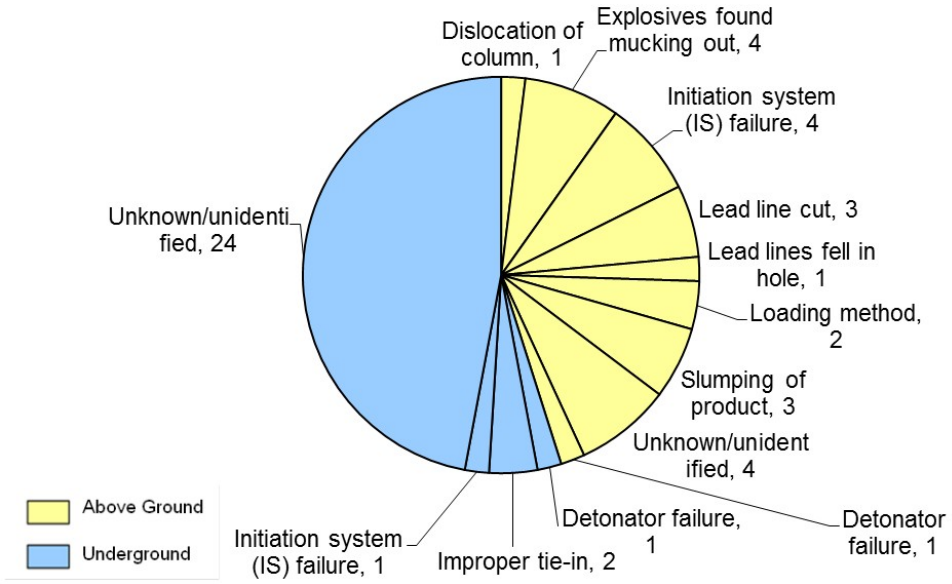
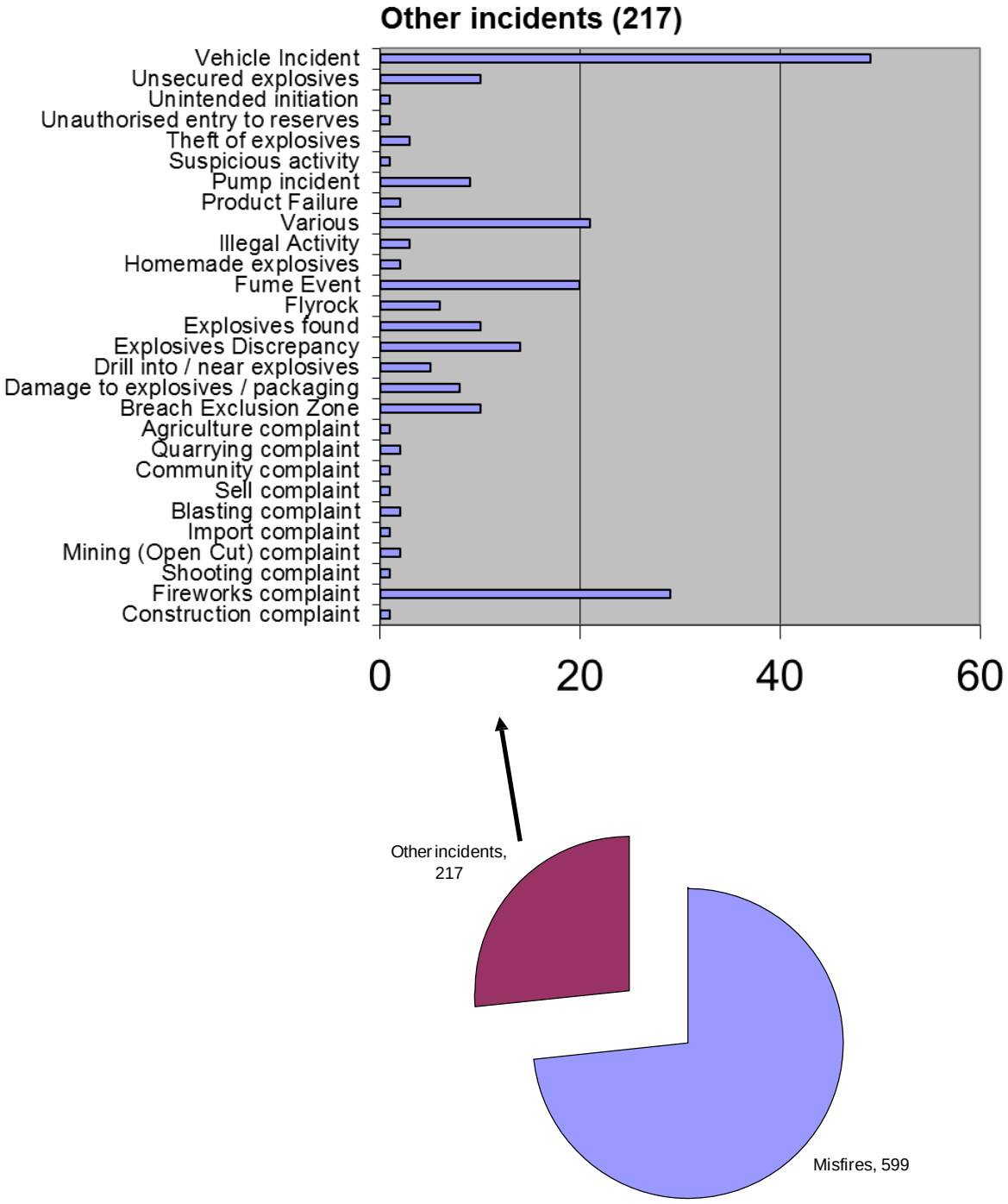


Figure 3: Past year incidents November 2012 – October 2013



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Breakdown of incidents for October 2013

Security

Description	Explosives involved
Explosives discrepancy (2 incident)	
A booster went missing from a mine site	Booster
During a mine site stocktake it was discovered that 40 boxes of product was unaccounted for	Detonator
Explosives found (2 incidents)	
Explosives were found unsecured in an abandoned recess of a mine site	Cartridges
An employee on a mine site found unsecured explosives	Detonators
Explosives Theft (1 incident)	
Product had been removed from a shot	Detonators
Unsecured Explosives (1 incident)	
Explosives were left in a booster and detonator holder overnight on a loaded shot	Detonators and Boosters

Safety

Mining

Description	Explosives involved	Outcome
Misfires - Above Ground (23 incidents)		
1 x dislocation of column 4 x explosives found mucking out 3 x lead line cut 1 x lead lines fell in hole 2 x loading method 4 x initiation system (IS) failure 3 x slumping of product 4 x unknown/ unidentified 1 x detonator failure	Blasting explosives	No adverse outcome (High Potential Incident)
Misfires - Underground (28 incidents)		
24 x unknown/ unidentified 2 x improper tie in 1 x detonator failure 1 x initiation system (IS) failure	Blasting explosives	No adverse outcome (High Potential Incident)
Flyrock (1 incident)		
Flyrock travelled outside exclusion zone and landed close to where an operator was working	Blasting explosives	No adverse outcome (High Potential Incident)
Other (1 incident)		
Unfired explosive product was found on drill bench in pit	Blasting explosives	No adverse outcome (High Potential Incident)

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Drill into/ near explosives (1 incident)		
Drilling pattern commenced in area with known misfires, drill has drilled into misfired hole bringing pieces of booster and product to the surface	Blasting explosives	No adverse outcome (High Potential Incident)

Transport

Description	Explosives involved	Outcome
Pump Incident (1 incident)		
Due to a switch tripping the drive pump was jogged to clear the pressure causing the burst disc to function resulting in a 10kg spill	Ammonium nitrate emulsion	No injury
Vehicle incident (4 incidents)		
A trailer full of Ammonium nitrate emulsion had a tyre fire	Ammonium nitrate emulsion	Fire was extinguished, brake specialist sent out to investigate.
A loaded ute's carry box opened while in transit spilling a carton of boosters	Boosters	All items recovered
Two mobile manufacturing units collided		Minor damage caused to vehicles
A delivery tanker truck was overloaded with approx 500kg product being discharged from tanker vents		No injury

Complaints

Description	Explosives involved	Outcome
Fireworks (1 complaint)		
A member of the public complained about the lack of notice for a fireworks display, their pet was frightened.	Fireworks	No further actions

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Explosives incidents and complaints

November 2013 report

This document lists all explosives safety and security incidents and complaints reported in the month of November 2013. This report also includes a summary of all safety and security incidents and complaints for the past year. The number of injuries and fatalities for 2013 is also included below which is categorised by community or industry.

	November 2013	Year to date (2013)
Community	0 fatality 0 injury	1 fatality 5 injury
Industry	0 fatality 0 injury	0 fatality 3 injury

Figure 1: Explosives incidents and complaints November 2013

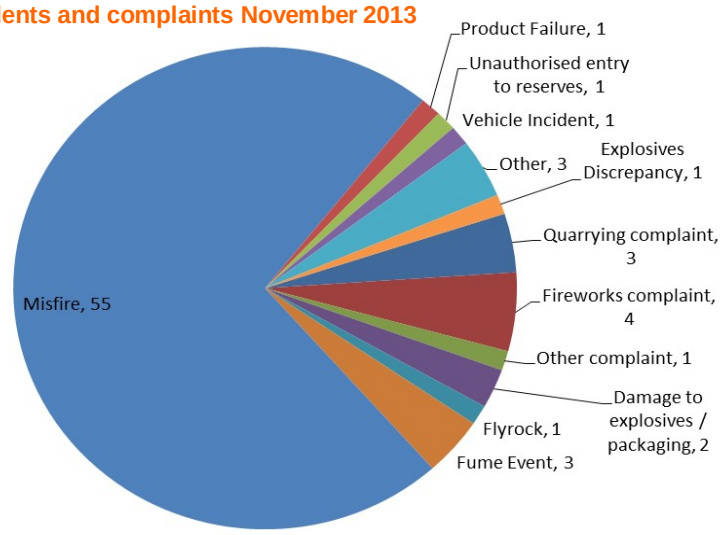
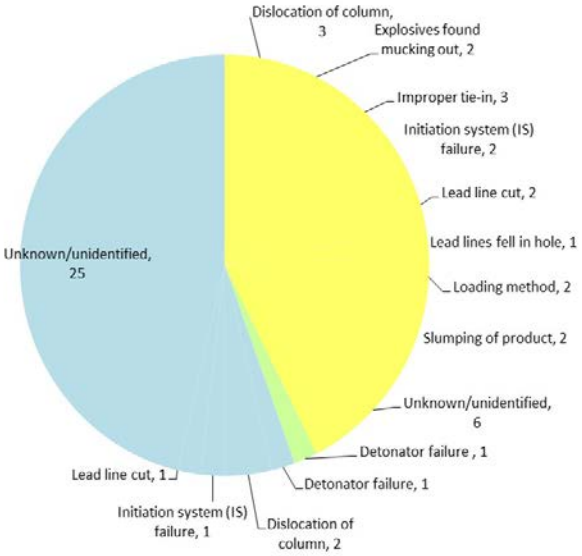
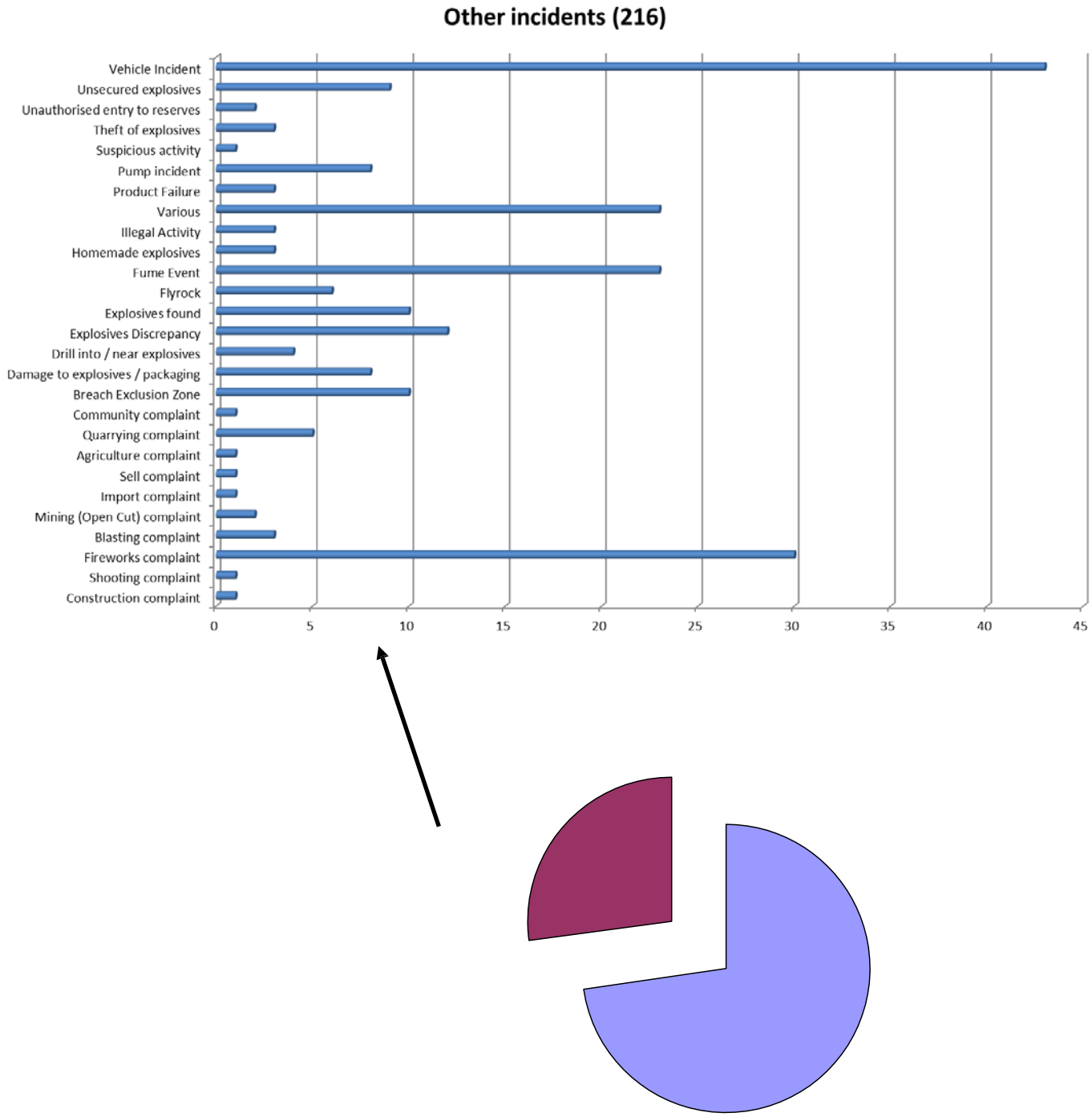


Figure 2: Breakdown of misfire causes November 2013



Underground
Construction
Aboveground

Figure 3: Past year incidents December 2012 – November 2013



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Breakdown of incidents for November 2013

Security

Description	Explosives involved
Unauthorised entry to reserves (1 incident)	
A vehicle tailgated a vehicle out of a government explosives reserve	Not applicable
Explosives discrepancy (1 incident)	
A received consignment had a deficiency of 1 tonne of explosives	Blasting Explosives

Safety

Mining

Description	Explosives involved	Outcome
Misfires - Above Ground (24 incidents)		
2 x lead line cut 3 x improper tie-in 3 x dislocation of column 1 x connector failure 2 x explosives found mucking out 2 x Initiation system (IS) failure 1 x lead line fell in hole 2 x loading method 2 x slumping product 6 x unknown/ unidentified	Blasting explosives	No adverse outcome (High Potential Incident)
Misfires - Underground (31 incidents)		
1 x detonator failure 2 x dislocation of column 2 x Initiation system (IS) failure 1 x lead line cut 25 x unknown/ unidentified	Blasting explosives	No adverse outcome (High Potential Incident)
Construction – (1 incident)		
1 x detonator failure	Blasting explosives	No adverse outcome (High Potential Incident)
Flyrock (1 incident)		
A single flyrock projected 100 metres and went through a shed roller door.	Blasting explosives	No adverse outcome (High Potential Incident)
Fume Event (3 incidents)		
A level 4 fume event occurred which breached the fume management zone	Blasting explosives	No adverse outcome (High Potential Incident)
A level 4 fume event occurred, fume management zone not breached	Blasting explosives	No adverse outcome (High Potential Incident)

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A level 2 fume event occurred which breached the blast exclusion zone	Blasting explosives	No adverse outcome (High Potential Incident)
Damage to explosives / packaging (2 incidents)		
While loading a shot a vehicle ran over a booster	Blasting explosives	No adverse outcome (High Potential Incident)
A MPU vehicle drove over a loaded hole	Blasting explosives	No adverse outcome (High Potential Incident)

Vehicle incident (1 incident)		
Driver in a shotfirer utility swerved to miss an animal and hit a fence.	Blasting explosives	Minor damage to vehicle
Other (3 incidents)		
The down hole leads were pulled down the hole. The hole was reprimed and fired.	Blasting explosives	No adverse outcome (High Potential Incident)
Loss of explosives during loading operations	Blasting explosives	450kg of Blasting explosives lost in blast hole cavity
A bush fire was burning at the rear of a storage yard	Security sensitive ammonium nitrate	Storage facility evacuated during bushfire
Product Faulire (1 incident)		
Aerial shells returned to the ground unfired.	Fireworks	No adverse outcome (High Potential Incident)

Complaints

Description	Explosives involved	Outcome
Fireworks (4 complaints)		
1 x noise complaint from a fireworks display	Fireworks	No further action
1 x complaint about a fireworks display being held near horses.	Fireworks	No adverse outcome (High Potential Incident)
2 x complaints about no notification of a display	Fireworks	No further action
Quarry (3 complaints)		
2 x Unauthorised blasting at a quarry	Blasting Explosives	No further action
1 x excessive vibration	Blasting Explosives	Matter being investigated

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Explosives incidents and complaints

December 2013 report

This document lists all explosives safety and security incidents and complaints reported in the month of December 2013. This report also includes a summary of all safety and security incidents and complaints for the past year. The number of injuries and fatalities for 2013 is also included below which is categorised by community or industry.

	December 2013	Year to date (2013)
Community	0 fatality 0 injury	1 fatality 5 injury
Industry	0 fatality 0 injury	0 fatality 3 injury

Figure 1: Explosives incidents and complaints December 2013

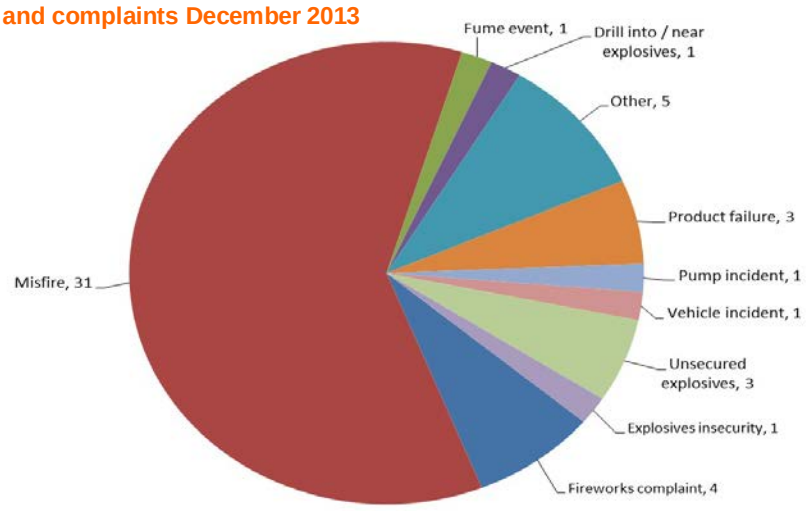


Figure 2: Breakdown of misfire causes December 2013

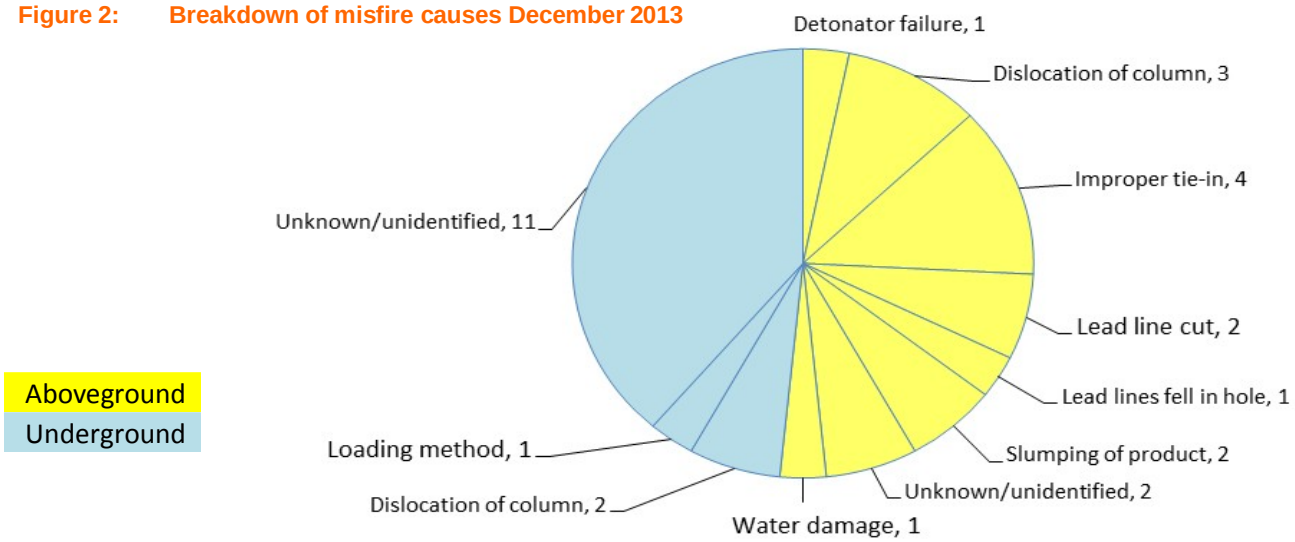
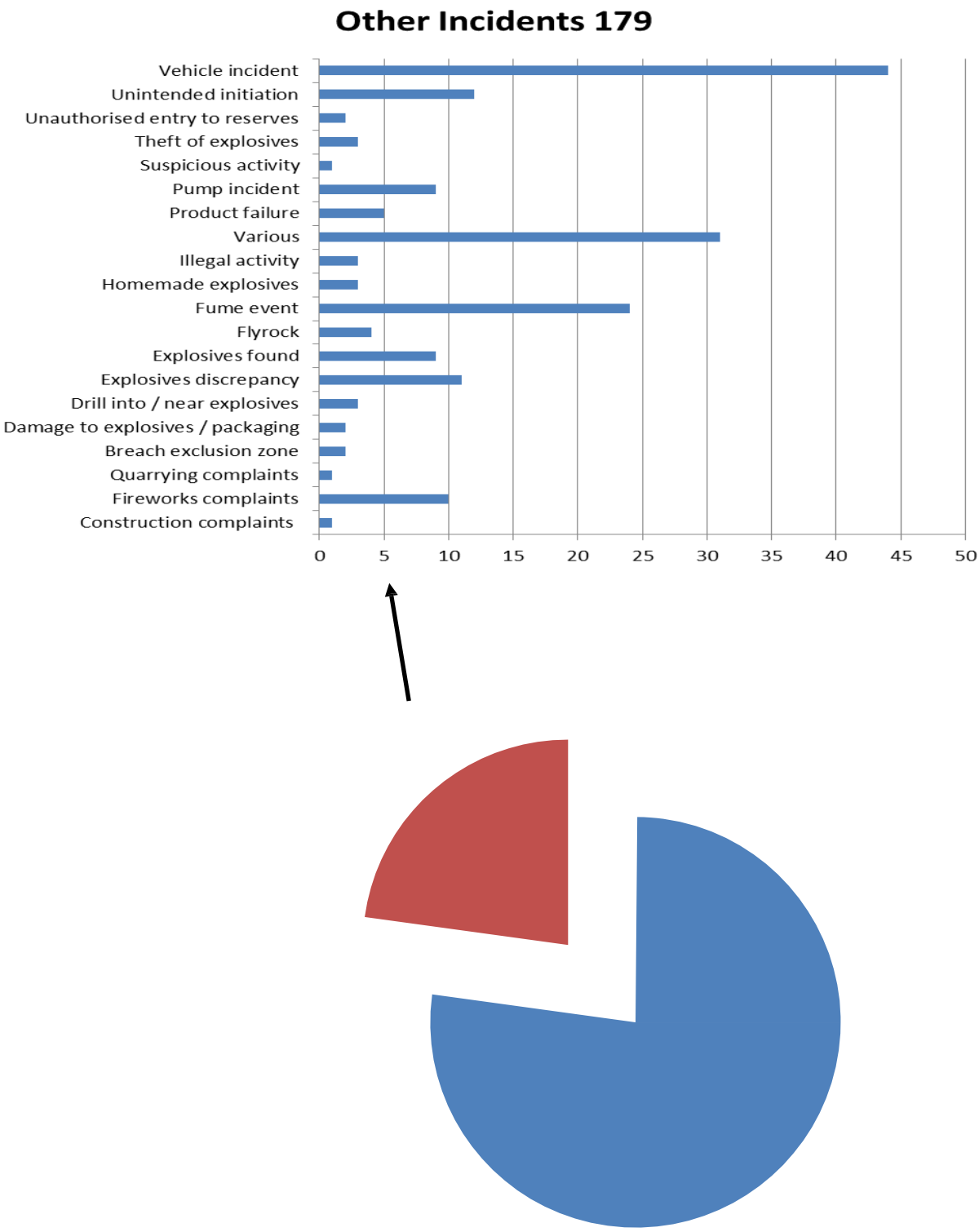


Figure 3: Past year incidents January 2013 – December 2013



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Breakdown of incidents for December 2013

Security

Description	Explosives involved
Explosives insecurity (1 incident)	
Explosives compound gate was left unlocked for a short period of time	Blasting Explosives

Safety

Mining

Description	Explosives involved	Outcome
Misfires - Above Ground (17 incidents)		
1 x detonator failure 3 x dislocation of column 4 x improper tie-in 2 x lead line cut 1 x lead lines fell in hole 2 x slumping of product 1 x water damage 3 x unknown/unidentified	Blasting Explosives	No adverse outcome (High Potential Incident)
Misfires - Underground (14 incidents)		
2 x dislocation of column 1 x loading method 11 x unknown/unidentified	Blasting Explosives	No adverse outcome (High Potential Incident)
Fume Event (1 incident)		
Level 3 fume event was generated at a mine site. The fume left the lease	Blasting Explosives	No exposures
Unsecured Explosives (3 incidents)		
2 boxes of boosters fell from vehicle in transit to the magazine magazine.	Blasting Explosives	No adverse outcome (High Potential Incident)
Explosives fell out of a carry box which was left open during transit	Blasting Explosives	Explosives recovered (High Potential Incident)
Inspection of parked up vehicle located a box of 20 boosters in gap between two explosives storage compartments on rear of vehicle	Blasting Explosives	Explosives Recovered (High Potential Incident)
Drilled into/near explosives (1 incident)		
2 Drill rigs drilled into a charged blast hole at mine site.	Blasting Explosives	No adverse outcome (High Potential Incident
Product Failure (1 Incident)		

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Mine reported a communication failure left it out of blast and reported it as a misfire.	Blasting Explosives	No adverse outcome (High Potential Incident)
Pump Incident (1 incident)		
Blockage in line at emulsion plant resulted in a flow restriction that activated a burst disc	Blasting Explosives	No adverse outcome (High Potential Incident)
Other (2 incidents)		
Detonator initiated during mucking out operations at mine site	Blasting Explosives	No adverse outcome (High Potential Incident)
Aerosol gas dispensers ruptured due to excessive heat on bench.	Blasting Accessory	No adverse outcome

Fireworks

Product Failure (2 incidents)		
25 multishot cake malfunctioned- no effects outside exclusion zone	Fireworks	No adverse outcome (High Potential Incident)
Low burst of 2 inch aerial shell during NYE display	Fireworks	No adverse outcome (High Potential Incident)
Other (3 incidents)		
Small grass fire started at the end of a fireworks display	Fireworks	Extinguished by operators with appliances on site
A small fire began in bushland during a fireworks display	Fireworks	Extinguished by operators with appliances on site
Fireworks Contractor started a grass fire while demonstrating firing techniques to an operator	Fireworks	No adverse outcome (High Potential Incident)

Transport

Description	Explosives involved	Outcome
Vehicle incident (1 incident)		
Single vehicle rollover. A double B driver swerved causing the second trailer to roll over. There was a spill of 300kg of ammonium nitrate emulsion.	Blasting Explosives	No adverse outcome (High Potential Incident)

Complaints

Description	Explosives involved	Outcome
Fireworks (4 complaints)		
A member of the public advised the fireworks contractor he was struck by a fireworks casing.	Fireworks	No adverse outcome
3 x illegal fireworks complaints	Fireworks	No adverse outcome

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