

Gold King Mine Release Incident



On-Site Safety Briefing
ICP Durango, CO

Overview

- Weather
- Altitude
- Wildlife
- Site Hazards
- Driving Safety
- Water Sampling
- Heavy Equipment
- Mine Operations
- Confined Space
- PPE
- OEP
- Safety Policy
- Health & Wellness
- Keeping You Safe!

Weather

- Cold nights can be below freezing in some areas
- Warm daytime temperatures of 70-80 degrees F
- Wearing several layers of clothing provides better insulation in cold
- Shed layers as daytime temps warm up
- Storms can move in quickly and unexpectedly, especially in the mountains
- Expect Rain, Snow, Sleet, Hail, Lightening

Snow, Sleet and Hail can be expected near the Mine



Altitude Sickness (>11,000 ft. at mine)

– it may take several days to acclimate!

- Headache
- Loss of appetite
- Stomach ache, vomiting
- Loss of energy
- Insomnia
- Dizziness



Wildlife

- Bears
- Deer
- Elk
- Mountain Lions
- Snakes
- Insects

Bear Crossing Road



Elk Crossing



WATCH FOR
ROCKS &
WILDLIFE

7
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SPEED
LIMIT
?

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70.25

DURANGO 50



Site Hazards

Driving, Driving, Driving!

- Narrow roads
- Steep grade
- No shoulder
- No guardrail
- Unpaved, unstable roads
- Falling rocks
- Wildlife crossing

Travel up to Mine Portal (Adit)



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Travel from Durango to Silverton is over the Mountains on a steep, narrow highway with sharp curves, many areas without guard rails or shoulders



Highway 550 – Silverton, CO





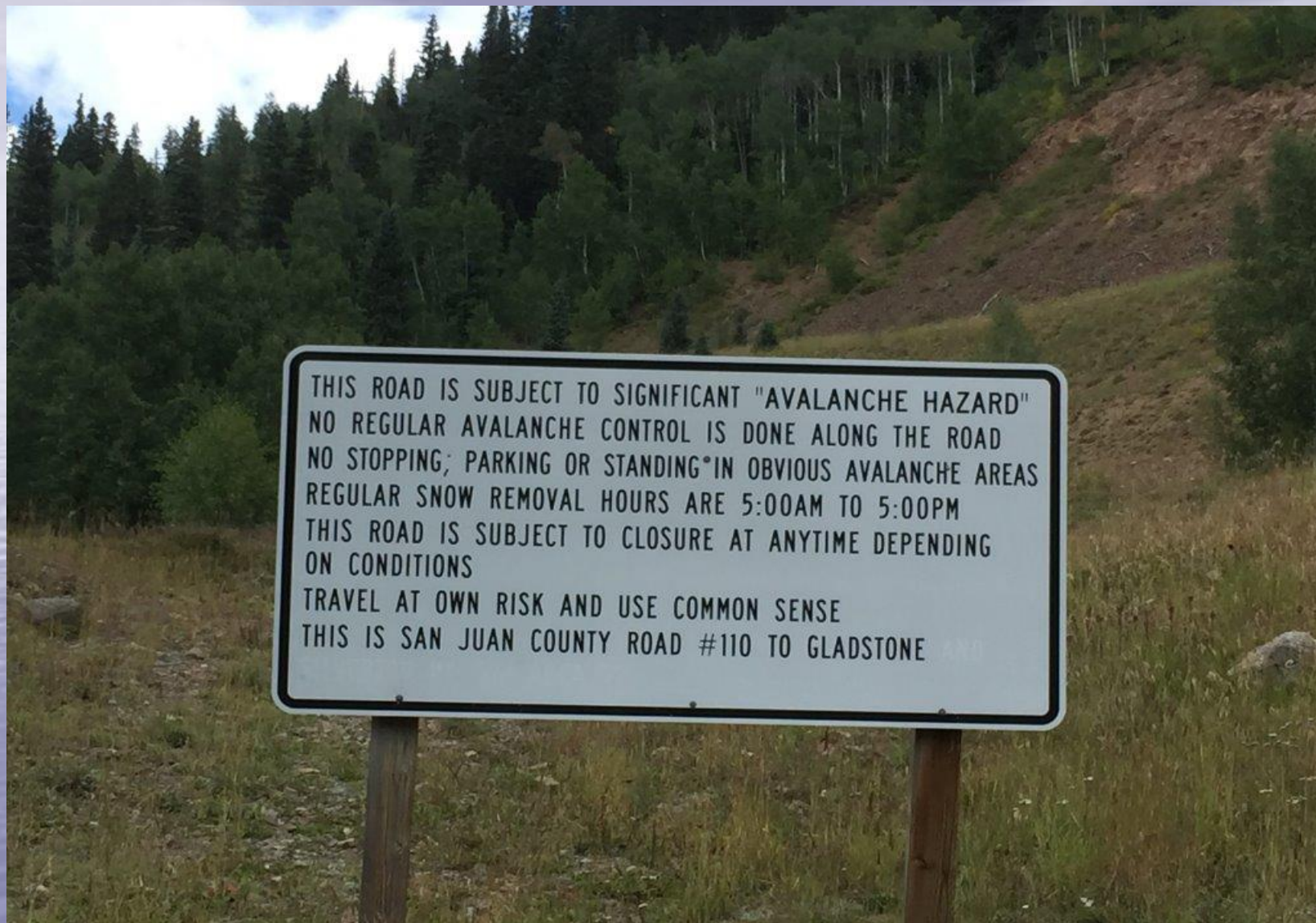
Driving Safety

- Increased traffic on roads due to tourists
- Expect rain, ice or snow on mountain roads
- Limit driving in evening after long work shift!
- Wildlife move at dawn, dusk & after dark along roads
- Mountain highways - steep, curves with no protection
- Narrow gravel or dirt Mine roads with uneven surfaces
- If you are uncomfortable driving – DON'T DRIVE!

Other Site Hazards:

- **Slips Trips and Falls**
 - Uneven and Unsteady ground
- **Heavy Equipment Operations**
 - Be alert, wear PPE!
 - Noise Hazard
- **Confined Space**
 - Mine Adit

Gravel Road from Silverton to Gladstone Staging Area



Water Sampling – unstable rocks



Steep Banks and Deep Water



Heavy Equipment

- Heavy equipment is being used near the mine
- Blind spots and wide swings are common so be vigilant and watchful of your surroundings
- Maintain eye contact with the operator
- Remember that they have the right of way!
- Follow direction of Safety Officer & Site Manager







DY-150-1
4,350LBS DRY
5,250LBS WET

CAT 980H

DY-150-1
4,350LBS DRY
5,250LBS WET

AKA

CA
#5

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Mine Operations

Treat and Sample Mine discharge at site

Stabilize and maintain mine road

Stabilize Mine Adit

Refine water treatment process

Prepare to manage water treatment sludge

Prepare to start repairs on waste dump

Gladstone Staging Area-Mine Operations CP



Mine Waste Lime Treatment



Mine Discharge Settlement Ponds



Mine Road Stabilization



Mine Portal (Adit) Stabilization



Mine Adit Interior Stabilization



Confined Space

All three of the following criteria must be present:

- 1) Large enough to completely enter and perform work
- 2) Entry Not Designed for Continuous Occupancy - Space unsuitable for occupancy under normal conditions without safety and health considerations.
- 3) Limited Access and Egress -Entry and exit difficult, hinders ability to escape.

Confined Space?



REQUIRED Personal Protective Equipment (PPE)

- **All workers and visitors MUST wear the following:**

Hard Hat

Safety Vest

Protective Eyewear

Safety Footwear

Incident Safety Policy

- All workers and visitors are to attend a site safety briefing and follow the direction of the site OSC and Safety Officer in accordance with the Health & Safety Plan (HASP).
- PPE must be worn for field activities as required in the HASP and to visit the mine.
- All visitors to the mine must remain in the utility terrain vehicle (UTV) at all times.

Health & Wellness

- **Injury & Illness reporting - to Safety Officer**
- **Medical Treatment**
 - HASP, Medical Plan (206)
- **Nutrition & Hydration (POPC)**
- **Stress Management (CISM)**
 - Take a Day Off
 - Maintain Fitness (exercise)!
- **Fatigue Prevention**
 - long work shift, long drives, long duty tour

If it doesn't Look Right,
If it doesn't Feel Right,
If you don't know ... **STOP!**

Don't Proceed if you are Unsure.
Ask your Supervisor or Safety
Officer?

Our Goal is to Keep You Safe!

Safety is EVERYONE's Responsibility!





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