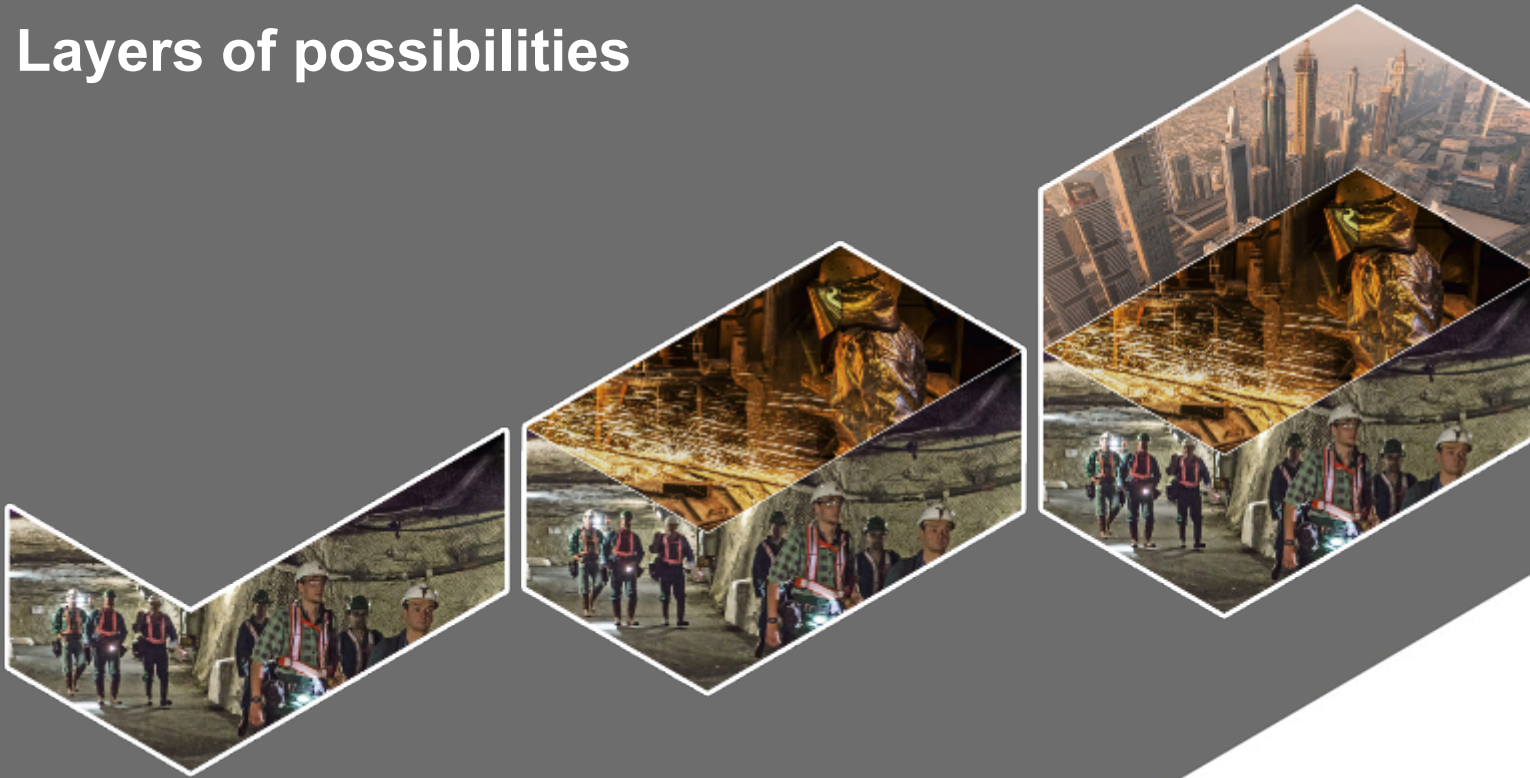


# Layers of possibilities



**KGHM**

## COBRE VALLEY SMALL TOWN FORM-WATERSHED ISSUES

*KGHMI/Carlota Copper Company-Carlota Mine*

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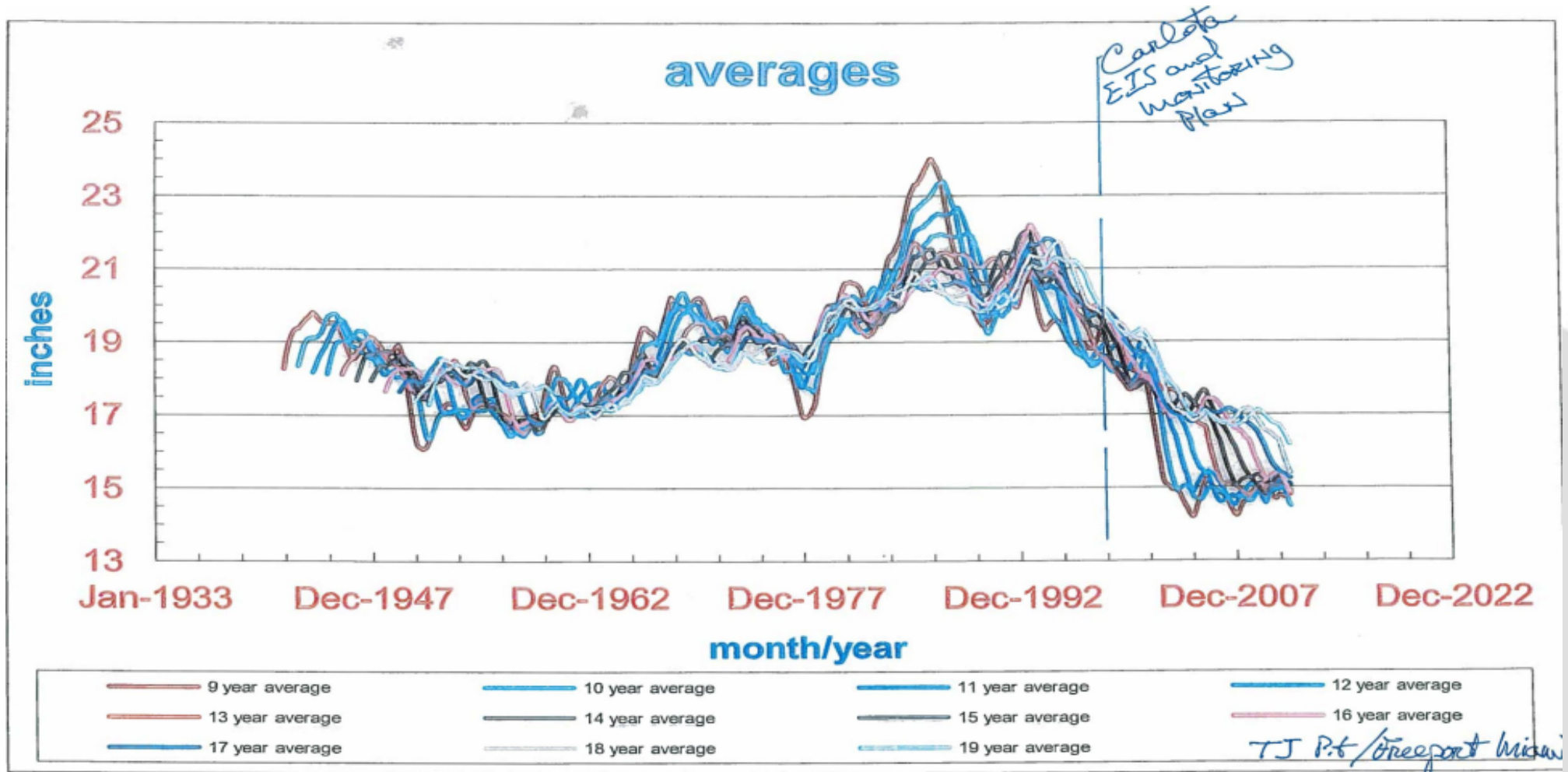
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# Carlota Mine

- A little history, where we are today, and a little future
- Mid 1800's underground high grade Cu/Ag mining
  - Cu oxide was known, but technology was not available to mine the oxide
  - Mid 1900's SXEW technology was known and Cu oxide deposits were in play
  - Late 1900's
    - Exploration/development drilling to confirm ore grade and size
    - Permitting started and was completed in about 10yrs
    - Permits written and approved based on a 25yr high rain fall (see next slide)
- 2000's
  - Modification of existing permits, including zero discharge
  - Construction of the Carlota Cu Oxide mine begins 2007
  - First Cu cathode pulled in late 2008
  - Mining in the Carlota/Cactus pit ended December 2014
  - Cu production from the leach pad continues to present, with SSL
  - Eder South Cu oxide deposit construction starts late 2017, with mining starting mid 2018

# Carlota Mine

- Desert Southwest, Rainfall and Watershed resources
  - “A picture is worth a thousand words...” (Carlota and the Cobre Valley area is on the northern edge of the same latitude that crosses the Sahara Desert)



# Carlota Mine

- Managing Carlota's water recourses
  - Zero discharge mine
    - Storm water, impacted or un-impacted kept onsite
      - Storm water retention pond, East sed pond



# Carlota Mine

- Diversion channels for Pinto Creek and Powers Gulch
  - Un-impacted surface water is diverted around the mine facilities



# Carlota Mine

- Pit Lake (today approx. 151Mgal, will contain 5Bgal when “full”)



# Carlota Mine

- South impoundment (90Mgal)



## Carlota Mine

- Using mist balls in the SXEW plant to minimize evaporation from the EW cells



# Carlota Mine

- Managing Carlota's water resources
  - Two production groundwater wells in HC
    - No surface water usage, except storm water that falls directly on the mine site
  - Mitigation system in HC
  - Minimizing groundwater usage by
    - Using onsite stored storm water
      - Retention ponds
      - South impoundment
      - Pit lake water
    - Using wobblers on the leach pad that put out a “larger/heavier” droplet than a finer mist
    - Using mist balls to reduce evaporation



**THANK YOU**

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Performance, Reliability and Sustainability”