

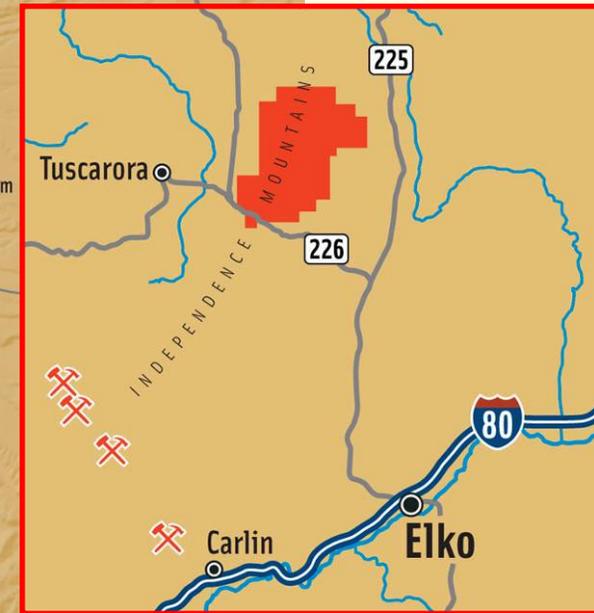
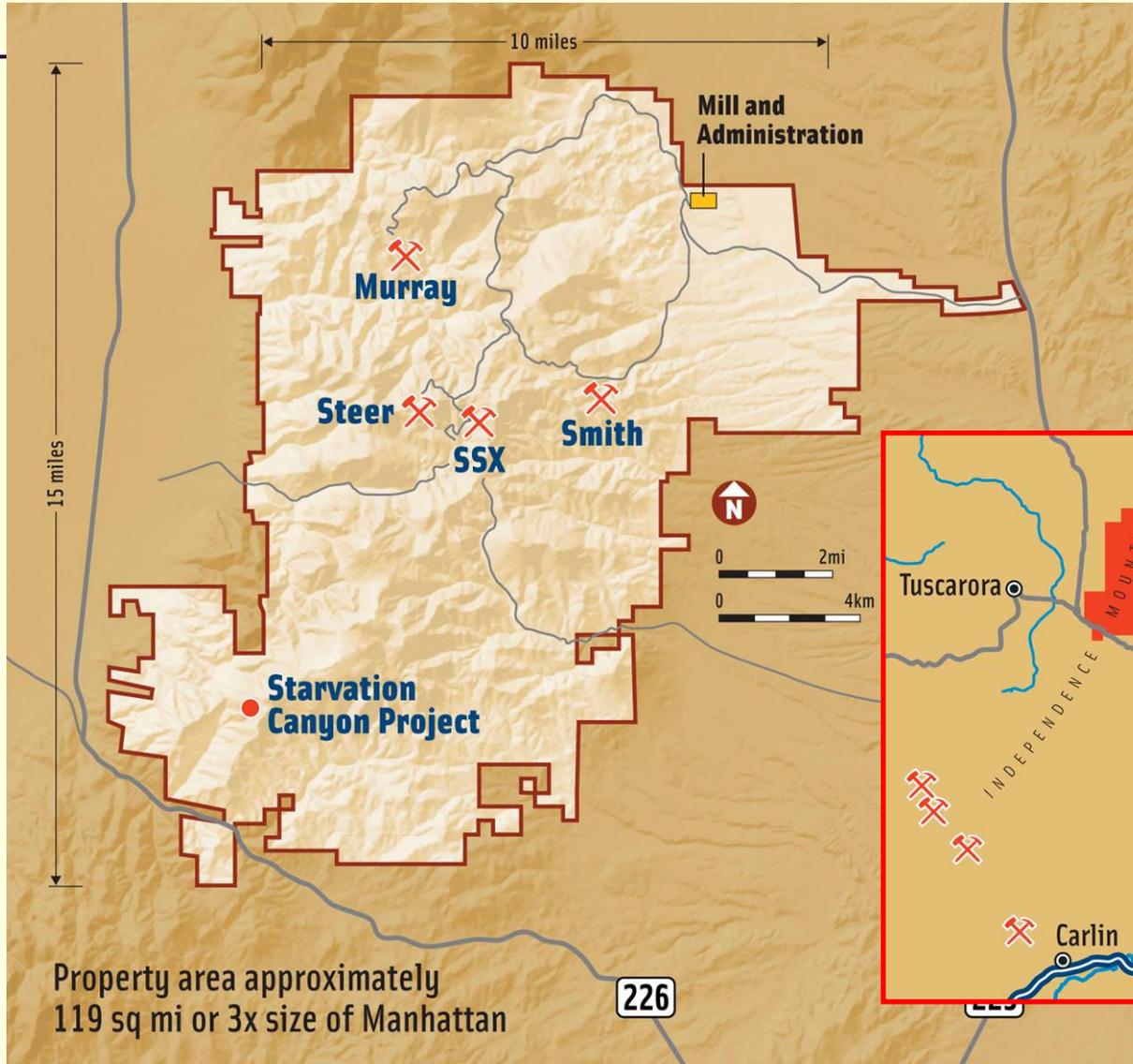
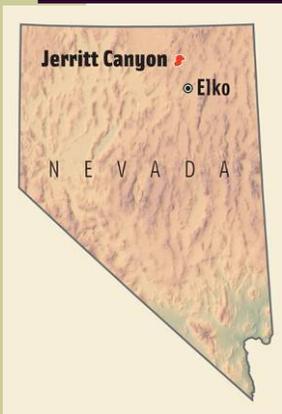


Queenstake Resources Jerritt Canyon

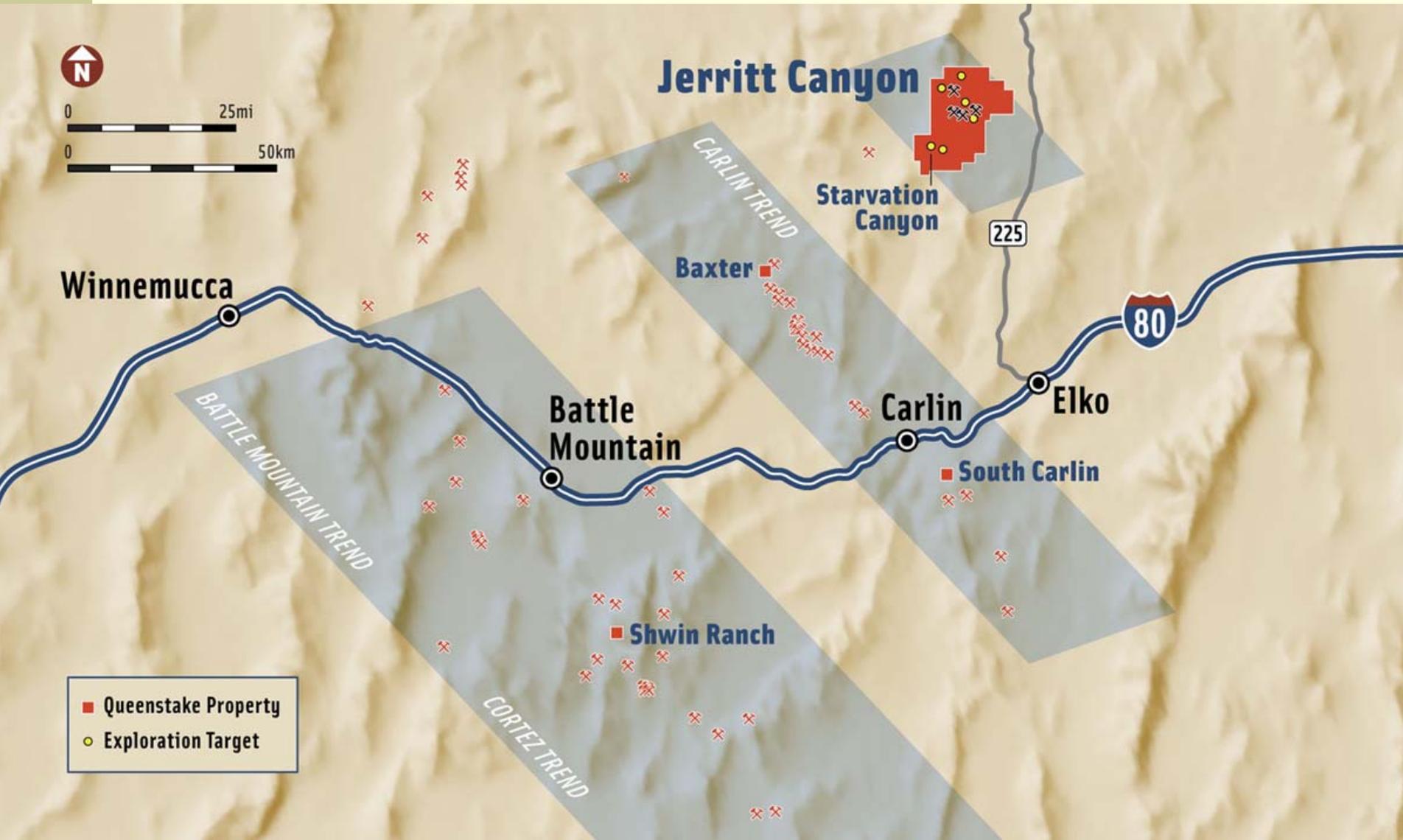


Jennifer Haas
Mine Engineer

Jerritt Canyon Location



Adjacent Nevada Trends



Overview

- Monthly and Continuous Duties
- Work area changes
- Results from the changes
- Testing Options

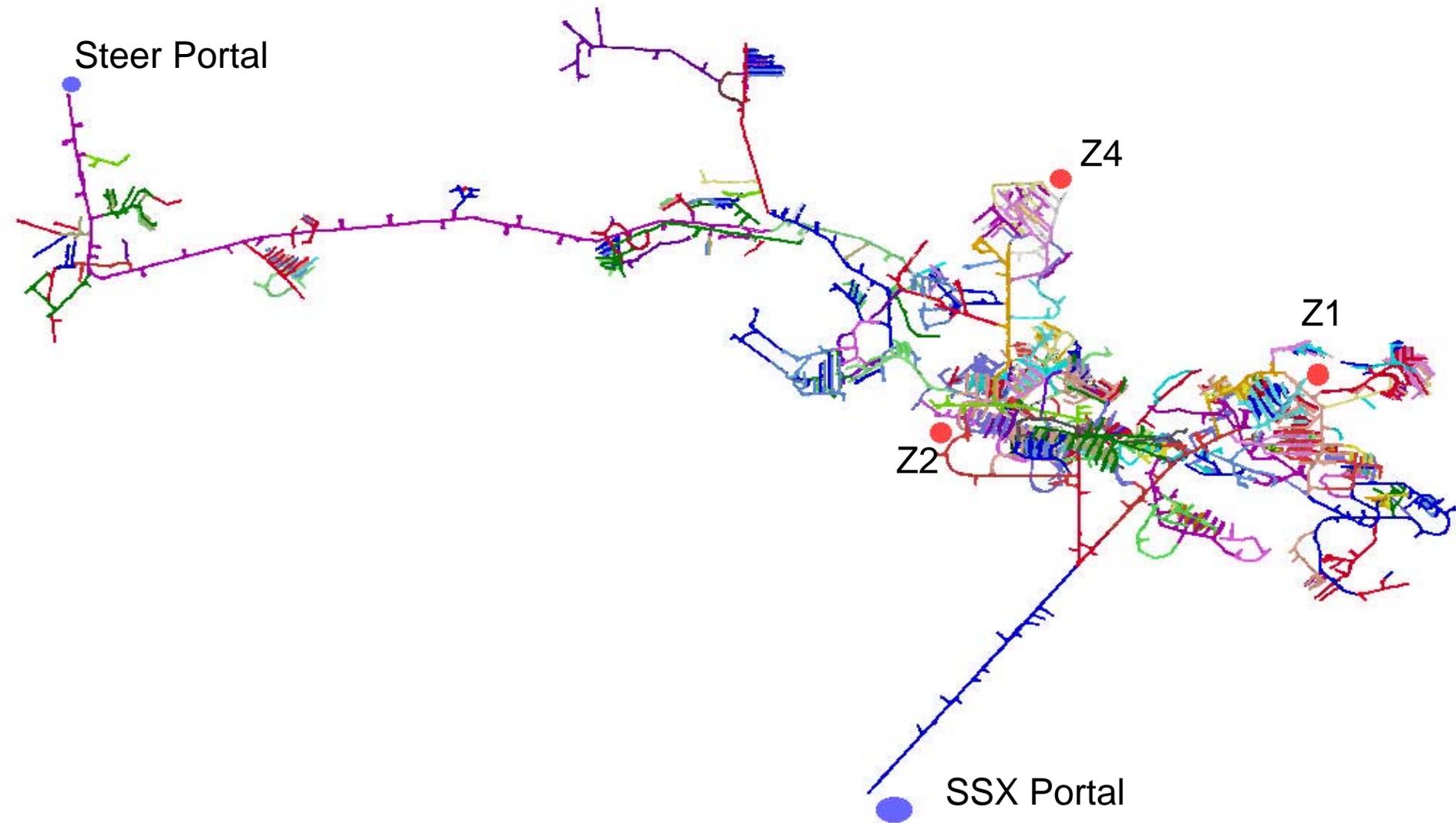
Monthly Duties

- BACHARACH Smoke Dot Tests
- ECOM-AC Gas Tester
 - Exhaust gases
 - O₂, CO, CO₂, NO, and NO₂
- Sample Miners, Intakes, and Exhausts
 - Gilian and SKC pumps
 - SKC DPM filters
 - Send to Data Chem Lab for analysis

Continuous Duties

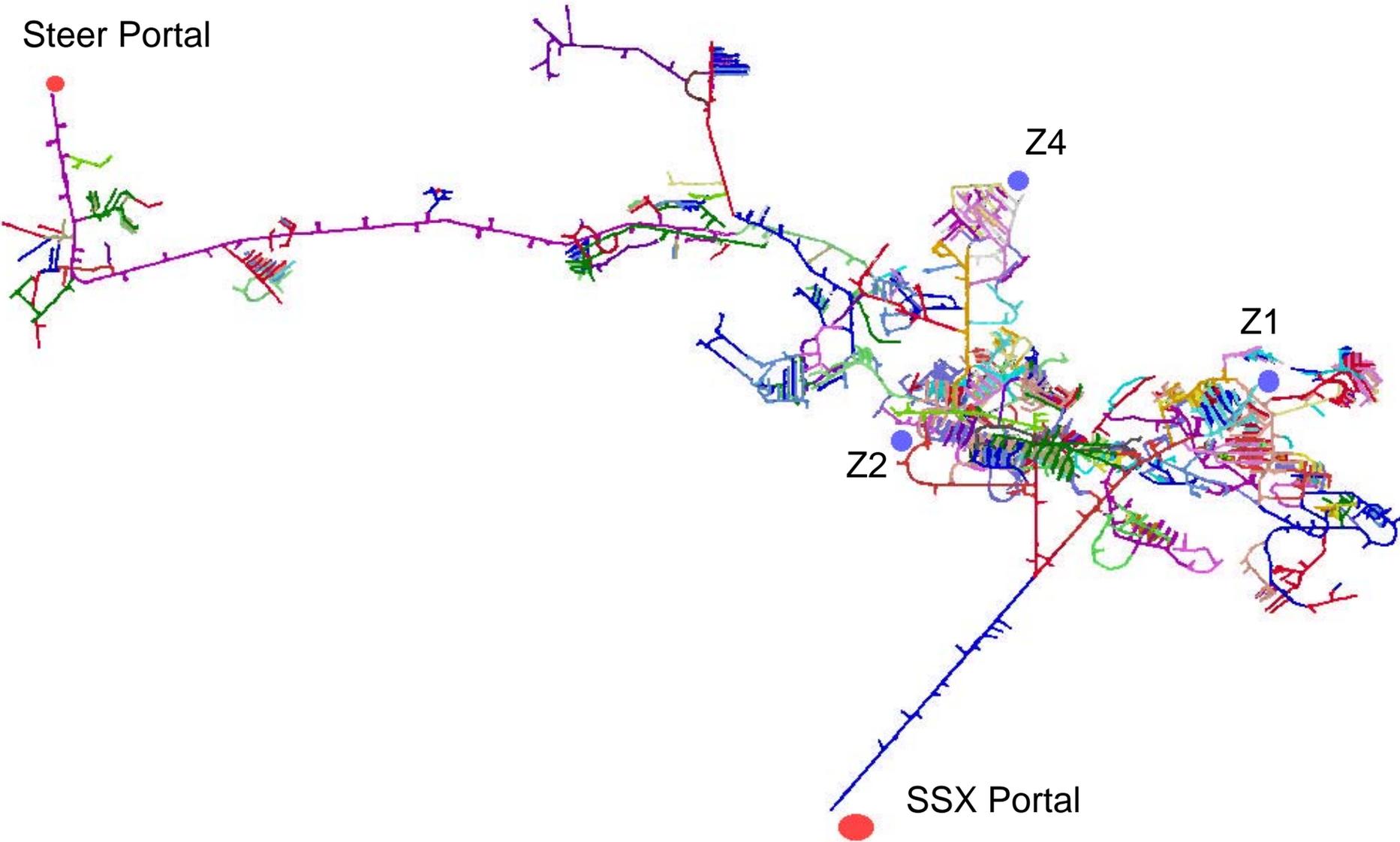
- Heading gas monitoring
 - ITX gas monitors
- Ventilation
 - Air flow readings for working areas
 - Ventilation studies with VnetPC

SSX Ventilation Before



SSX Ventilation After

Steer Portal



Z4

Z1

Z2

SSX Portal

SSX Results

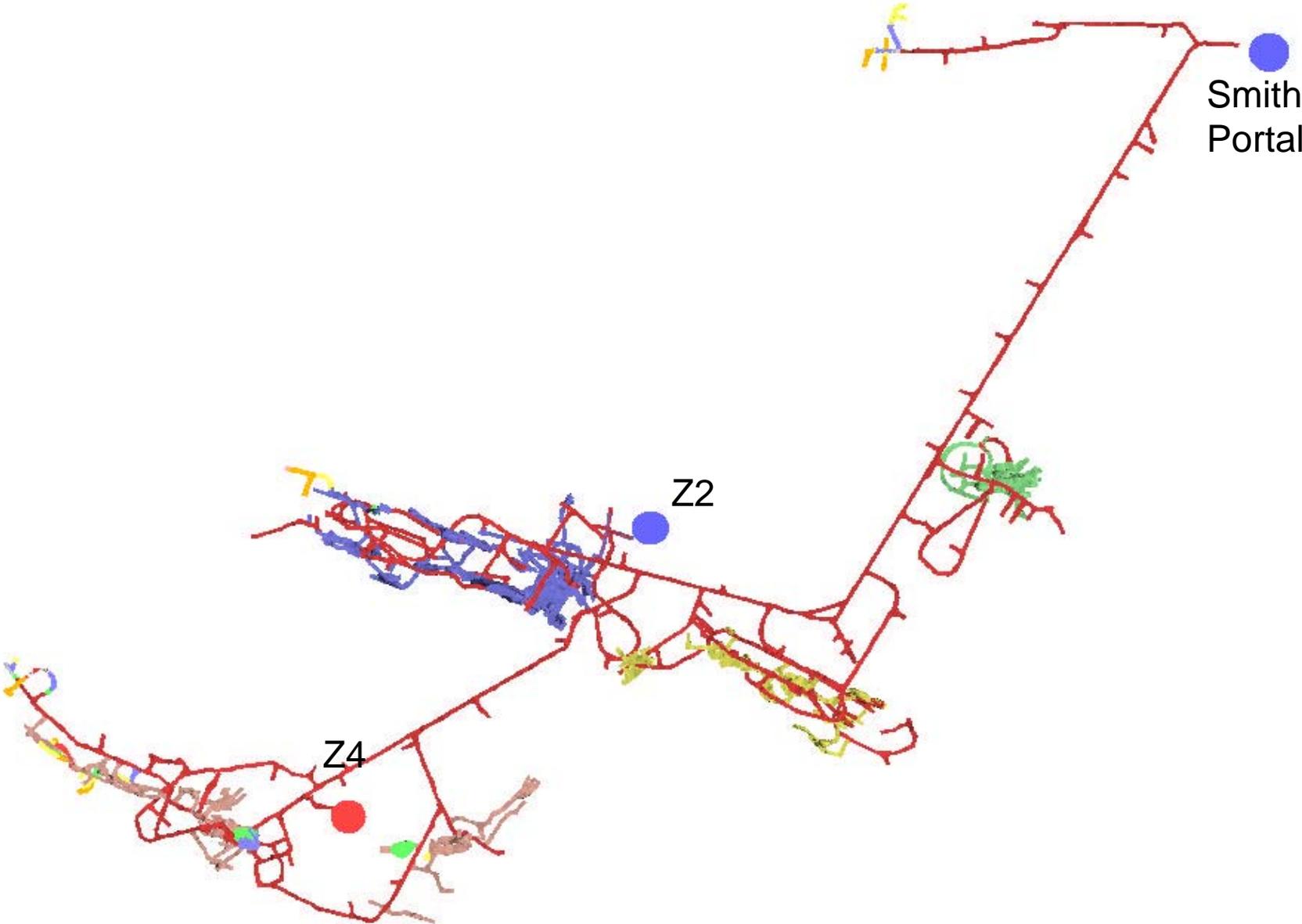
■ Short Term

- Move auxiliary fans to increase flow across the face
- Place auxiliary fans to reduce recirculation
 - Intake from clean air flows

■ Long Term

- Reversing the Ventilation
 - Reduced heating costs
 - Increased overall air flow
 - Reduced overall DPM exposure by 50%

Smith Ventilation



Smith Results

- Short Term
 - Created new vent raises in Z4
 - Opened a stope area in Z2
- Long Term
 - Increasing airflow
 - Intake in Z2
 - To install larger fan
 - Exhaust out Z4
 - To install larger fan
 - Overall reduction in exposure

Up Coming Testing Options

- RYPOS passive regenerating filter
 - Replaces muffler
 - burns off soot/ash material
- Alternative fuels
 - Currently using Ultra Low Sulfur Fuel
 - Bio-fuels are still being discussed due to:
 - Operating elevation at 7000+ feet
 - Outside temperatures -30 deg F

Findings

- Just Using Ventilation
 - Reduced DPM levels
 - SSX
 - Smith
- Other Options or Comments
 - Shut off equipment when not in use or while in queue
 - Alternatives to tractors



Questions?