

Slide 1: Hello and good morning. My name is Rosemary Schulze. **I work for the NY Geological Survey and came on board this project as well as started working with the NYS DEC in July of 2004.**

Slide 2: I learned then that there are 6 underground mines still operating in NY and the rest have ceased operations and/or have been abandoned. These abandoned underground mines pose a threat to cave-ins causing tremendous damage to land, homes, and people. If the locations of these underground mines were more apparent, then actions could be taken to prevent **excessive damage** from occurring. **We had some data collected, but there was never a plan to put it all together. This is where the 3 Phase Project came into play. The first phase was to create a database that includes all of the underground mines with specific information on their locations and descriptions. The second phase would be to locate and scan existing mine maps, digitize these images, and create an up-to-date map of the locations of these mines. And finally phase 3, make this information available to the public through our government agencies and the internet.**

Slide 3: **So we started with basically nothing**, I did the research and created a database in Microsoft Access. In it 11 commodities are covered by 24 fields of information, 255 mines are listed. ...(go into names, location given by, descriptions, etc.)...

Slide 4: Any resources that had information I recorded on this table of references for future use.

Slide 5: This is a form view of 1 record, Retsof mine, aka AKZO Nobel Inc mine, a salt mine in Livingston co. ...(mine info, scans, pictures, map)...

Slide 6: The museum has a mapping program called Petra. When I finished collecting the data for all 11 commodities, I decided to have a little fun! I imported the lats and longs into the program and created this.

Slide 7: Here is a closer view of the mines of Western NY, here you can see all of the gypsum and salt mines. **There are subsidence issues with some of these mines.**

Slide 8: Here is a close-up of the mines of our Adirondack Region, **again there subsidence issues with mines here, particularly the iron mines.**

Slide 9: And here are the Southern NY mines.

Slide 10: In February of this year, OSM gave us access to their Mine Map Repository NY Maps Index Database as well as about 1200 images of mine maps. I hyper-linked those images to this database. **Here you can see a map of the inner workings of Retsof mine while it was still operating.** This is another useful source of information for the mine mapping project, thanks to OSM.

**Slide 11: Because we only received a third of the funding that was requested, Phase 1 is all that could be completed at this time. With additional funding, this project can move forward into Phase 2- we would like to merge the 2 databases together, our database and OSM's database. Create an up-to-date map of the locations of these mines in NYS using the databases. We would like to geo-reference abandoned underground mines. And by visiting historical societies and museums and contacting successor companies, we could acquire most recent mine maps. In anticipation of future funding to continue the project, we recently purchased a large flat bed scanner with NYS DEC funds. With it we could scan the existing mine maps we would acquire. These scanned images could then be digitized and used in making the up-to-date map of mine locations.**

**Slide 12: And finally, Phase 3- Make all of this information available to the public! This is the NYS DEC Division of Mineral Resources website, on it we could post all of information pertaining to abandoned underground mines so that the public is aware of the possible dangers in their surroundings.**

All of these actions need to be taken in order to ensure the safety of the land, homes, and people all over New York State, **however unless funds become available, this project will not be able to continue beyond Phase 1.**

Thank you for your time and having us here.