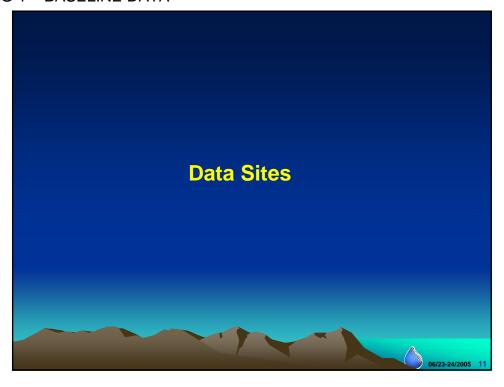
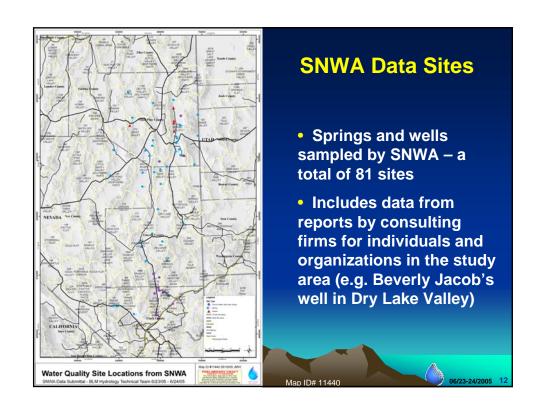
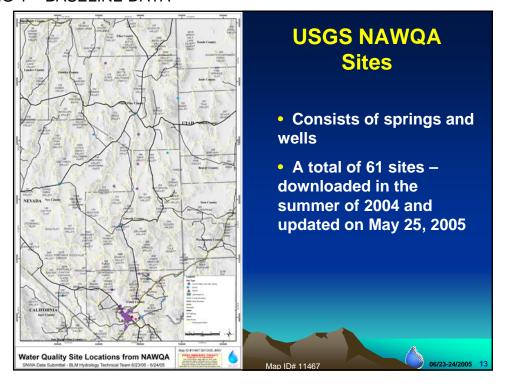


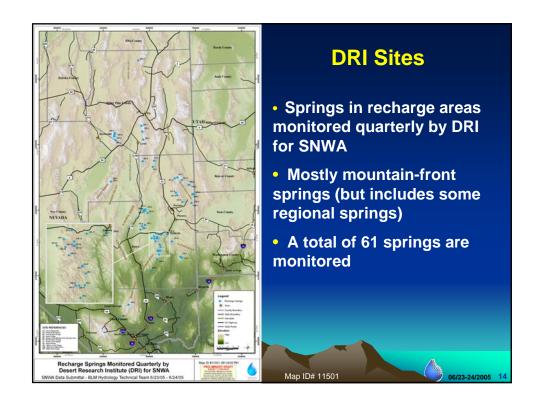
Data Sources (cont'd) USGS National Water Information System (NWIS) at http://waterdata.usgs.gov/nwis Ertec and Fugro Consulting Reports on MX Siting Investigation Project Geothermal Laboratory at the Southern Methodist University (David Blackwell; at their website www.smu.edu/geothermal

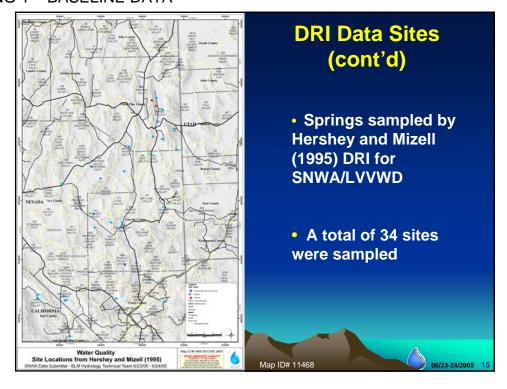
Data Sources (cont'd) • Nevada Bureau of Mines and Geology http://www.nbmg.unr.edu/geothermal/geochemdata /readme-geochem.htm • State of Nevada Public Water System (PWS) • State of Nevada Water Resources Bulletins • Miscellaneous drilling and consulting reports

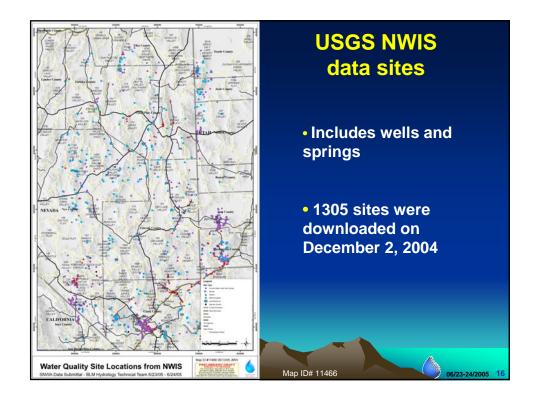


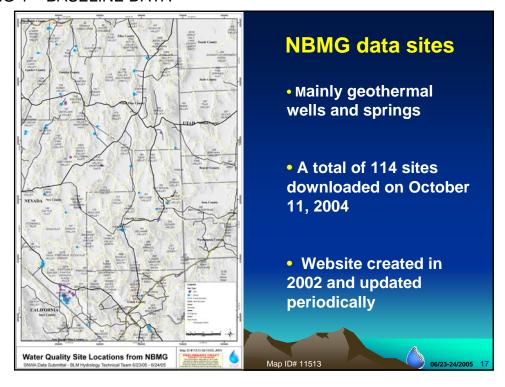


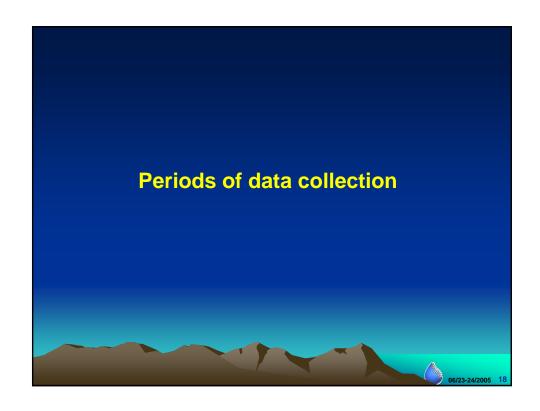


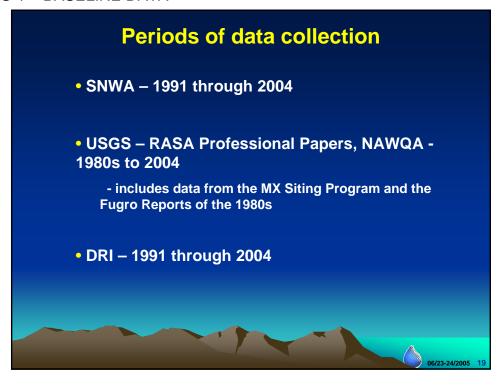


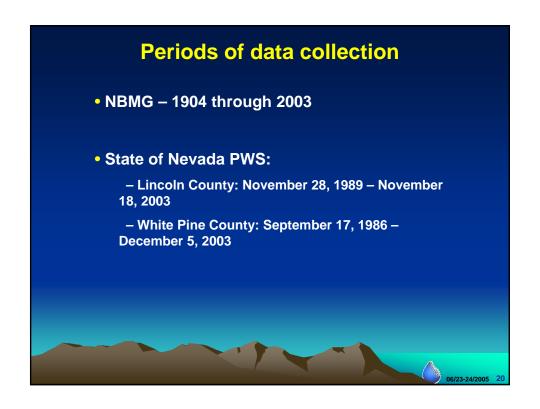


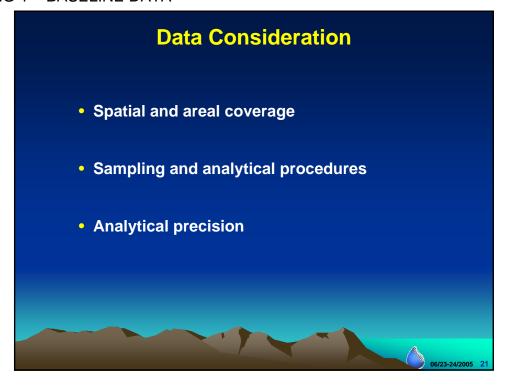


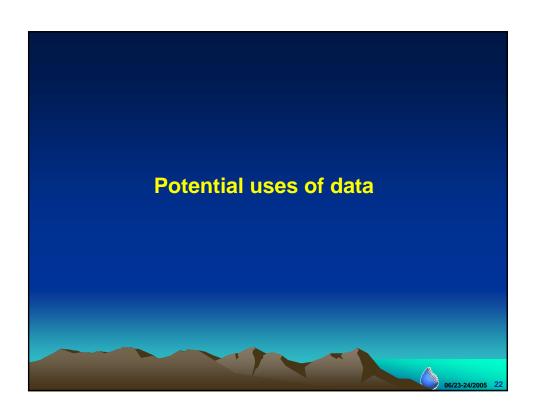












Potential Use of Data

- Gross chemistry (major ions), trace elements, and field chemistry data will be used to determine baseline quality of groundwater in the area
- Major ions data used to determine chemical water types and processes controlling groundwater chemistry
- Gross chemistry and temperature data used to estimate depths of groundwater circulation

Potential use of data

- Isotopes provide insight into the age, origin, and pathways of water movement
- Deuterium and oxygen-18 used to determine recharge sources and pathways of groundwater
 - They (D and ¹⁸O) are part of the water molecule and are ideal tracers for determining the sources and mixing relations of different waters
- Deuterium and chloride used to estimate evaporation

Potential Use of Data • Carbon-14 and tritium – used to estimate the age and travel times of groundwater • Uranium, strontium, and boron isotopes – used to determine the sources and mixing of groundwater • they (U, Sr, and B) undergo geochemical reactions that must be accounted for • Sulfur isotopes – used to trace the source of sulfur

