

## **Clean Drinking Water Technology**

## Antonio Lara, Ph.D.

## **Clean Drinking Water Technology**

Clean Drinking Water team from NMSU

Joshua Adams Moticha Yellowman Nhat Nguyen Jeremy Jones Antonio Lara







## Clay – Best Candidate or What's in your back yard!



STATE







Gallup Clay Powder - Top Gallup Clay Pellet -Bottom Gallup Platelet Size (0.5 – 2.5) μm



NM STATE

Platelet Size (nm) Zeta potential (mV) Conductivity (mS) clay salt clay DD clay salt 24 clay DD 5-day 5-day 6 min 12 min 18 min hour dialysis water water dialysis water water Clay 4269 3014 -23 3217 1045 -20 0.0058 49.2 Arizona 50.2 2577 1391 Texas 1413 641 -37 -21 0.0221 1109 1036 998 756 -19 -22 0.0302 50.1 Berino 2597 Gallup 1379 884 546 -19 -22 0.0305 50.2 -10 0.24 823 833 753 -25 0.0384 49.9 Wyoming 421 -49



Arizona Clay Powder - Top Arizona Clay Pellet - Bottom Arizona platelet size  $(1-5) \mu m$ 



