



## ION-MIN® Products Creation and Workflow



- The mineral-rich Colorado Rocky Mountains in our prehistoric past provided a complete source of macro, micro and trace elements to ION-MIN®.



- Along the Colorado River, the minerals were carried from the many canyon streams that flowed into the river and the hydraulic forces made the extremely fine mixed particles of the natural ionic form of ION-MIN nutrition clays



- Seasonal snow melt overflows caused quiet water overbank downstream deposits in the flat hot, dry arid regions of the lower Colorado River delta. The water transported the ionized state mixed clay silicates which were deposited on the flat desert floor. Image of the lower Colorado River Delta courtesy of NASA.



- The lower layers of the mineral deposit are extremely fine in particulate size and compacted into rock form. This deeper strata is protected from modern manmade harmful pollutants, rainwater leaching and other surface windblown contaminates.



- The upper loose layer, (overburden) is carefully removed and the clay in its "rock" form is extracted from deeper levels using standard excavation equipment. The overburden is replaced to the mined area and the land is returned to original contours to its pre-operational condition.
- The calcium montmorillonite mineral clay is then transported to our mill processing facility for crushing, grinding, milling and bagging.



## ION-MIN® Products Creation and Workflow

### Vertical, Oscillating, Air-separator Raymond Mill:



- Raw material is crushed by jaw crusher to the size required, and then the crushed materials are elevated into a hopper from which the material is transported through the electro-magnetic vibrating feeder. It then is evenly and continuously fed into the grinding chamber for powder-processing. The rollers oscillate outward to press against the ring by centrifugal force and the shovel scoop returns the material to the middle between ring and roller to complete a fine grind.
- Afterwards, the material is carried by the air from the blower into the separator for screening. The fine powder is blown into the cyclone collector and is carried out through the output-powder valve as the final product. Coarser grained materials that do not make the grade are recycled back into the chamber for re-milling. The airflow system is sealed and circulated under alternating conditions of negative and positive pressure.



- The extremely fine particulate material is separated into various grades and placed in vapor-sealed containers for packaging.



- Terramin Tablets: Terramin powder is compressed into 1000 milligram tablets and a natural palm oil and cellulose are used as a binder with an aqueous cellulose solution used as a coating. The tablets are bottled in 250 and 500-count containers then labeled and sealed. There are no additives other than the binder and the coating. ION-MIN® products used for dietary supplements are sub-branded with the name, Terramin®. ION-MIN® and Terramin® is the same product.
- Terramin Powder: the Powder form of the product is packaged into jars weighing 1,2,4 and 8 pounds with pressure seal caps and we are converting to sealed foil containers with reseal and gusset. Both containers are currently offered, but the foil will become the sole container option. They are then packaged in case quantities, larger individual sizes (20 lbs and 50 lbs) are placed in poly seal bags and boxed for shipment.



- ION-MIN® is an antitoxin, antibacterial, healing clay in natural dry powder and tablet form. The powder mineral contains no additives of any kind. It has a naturally high pH of 8.3, and is safe for any kind of handling. Our products should always be stored in a dry area. There is no shelf life. As with any powdered substance, avoid inhalation.



- For more information about California Earth Minerals Corporation or our ION-MIN products, please contact us phone at 323-294-8500 or visit our website: [www.CaliforniaEarthMinerals.com](http://www.CaliforniaEarthMinerals.com).