

Emulating Nature To Save The Salton Sea

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Conceptually, the solution to save the Salton Sea is fairly simple: we must prevent the dissolved salts within this closed ecosystem from reaching supersaturation and precipitating out-of-solution by finding a way to keep them diluted, by adding a higher quality of water into it, or by removing the salts from the system itself.

Perhaps this is why our basic strategy so far continues to be fixated on the diversion of water, either from the Lower Colorado River (LCR), and/or new desalination facilities to be built and located throughout Southern California. Given the existing overdraft of stress, our treaty with Mexico, the legal battles that would ensue, etc., diverting water from the LCR is highly unlikely. With regards to designing and building new desalination facilities, not only would this approach be costly, it still doesn't reduce the volume or way salts currently enter into the system.

So, to help us make the correct choice, and to avoid committing our limited resources to an approach that is unrealistic and/or doomed to fail, let's re-examine another closed ecosystem – our planet Earth – and how she provides the water needed to maintain dilution, reduces salts, and keeps the oceans from precipitating out-of-solution. When we do, we will discover the: longest; on-going; never-ending; most efficient, viable, cost-effective, sustainable; already proven; and permanent way there is to restore ecosystems like the Salton Sea.

The poster will explain how: 1. The chemistry of volcanism creates water, reduces salts, and controls the pH of the entire planet. 2. The chemistry of volcanism can be applied to save the Salton Sea.