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## BREAKTHROUGH: RET Technology Can Convert Wastewater Into Hydrogen

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The company is pleased to report an unprecedented historical breakthrough in energy technology. RET technology was applied to the conversion of wastewater effluent from a treatment plant (Taos Waste Treatment Plant) directly to pure hydrogen. As shown by the mass spectrograms below which compare hydrogen generated from tap water and wastewater, the purity level of hydrogen are virtually identical. The same process conditions were run using both types of water with equal results.

The composite picture below shows on the left the wastewater sample used. You can see that the sample has suspended solids. The raw sample was poured into the RET system as shown in the middle picture. The picture to the right shows the finished product (a pure hydrogen balloon) next to the raw sample of wastewater.

Water effluent from any waste treatment plant can be used to produce both hydrogen and oxygen with a high degree of purity. Unlike electrolysis, which needs very pure water to generate hydrogen, the RET technology can use water from any source (e.g. tap, sea or wastewater) in order to produce pure hydrogen. Since most water effluent is dumped into a neighboring body of water (e.g. bay, river or ocean), this precious resource can now be used to produce hydrogen in order to run our cars or generate electricity for homes and businesses. It is not necessary to use drinking water. This technology will also have a major impact on preserving our environment.