**ZeoFINE**
5 Micron Media Filtration

**SCM**
Scale Control Media

**IRM**
Iron Removal Media

**TRAPPIST**
Sewage Water Treatment

**SUPER CARBON**
Advance Activated Rechargeable Carbon

**CARBOCHARGE**
Carbon Re-generating Agent


## Water Management Company

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## Water Management Company

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## ZeoFINE • 5 Micron Media Filtration

***ZEOFINE*** is a crystalline, hydrated Aluminosilicate that has an infinite three dimensional structure. Which is one of the most effective Heulandite types ofits highly porous structure (with a porosity reaching 50%) provides an extremely large surface area on which chemical reactions and Cation exchanges can take place at a very high degree. It can absorb incredible amounts of water/liquid into its pores.

***ZEOFINE*** applies physical filtration of 3-5 microns solid particles in water. While sand filters are able to filter particles that are 30-40 microns and bigger in size, ***ZEOFINE*** can do filtration for particles that are as small as 3-5 microns and bigger in size. Moreover, ***ZEOFINE*** decreases the number of necessary back washings. ***ZEOFINE*** filters are replacing sand filters in the most of the world wide every day.

## TRAPPIST • Sewage Water Treatment

Water Management Company now provides special ***TRAPPIST*** Combine treatment of Surface water and Ground water remediation. In combined remediation technologies such as mixing, diluting and GRAVITY DOSING and to treat and induction of Oxidative or Reductive conditions are very cost effective and time consuming. However, these applications are dependent on circumstances, and therefore ***TRAPPIST*** has proved to be cost prohibitive and very effective at contaminated sites without injection/ and mixing.

Surface, Groundwater and waste water contamination poses a long-term risk to the environment and the value of your land. Water Management Company can help you clean up test, safe and effective-without even buying any equipment or system. Our **TRAPPIST** the most environmental friendly product resolves the environmental issues of polluted lakes, Rivers and all industrial sites where hydrocarbons, metals, heavy metals or Organics have leeched into the water.

1. High Oxidation Potential of Non-toxic products.
2. Fast and effective Adsorption of Contaminants.

## SCM • Scale Control Media

When the hard water under goes nucleation in the pressure vessel, the calcium bicarbonate **Ca $(HCO_3)_2$** is transformed in form of calcium carbonate **$CaCO_3$** crystals. These crystals are formed through decomposition and crystallization process, forming very stable harmless crystals.

The following equation describes the reaction that occurs inside the pressure vessel when flow over grains of nucleation.

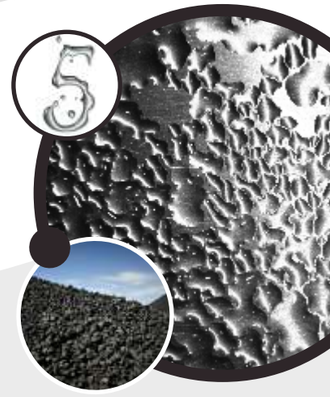
$Ca(HCO_3)_2 + SCM \rightarrow CaCO_3 + CO2 \uparrow + H_2O$
(Dissolved) (Nano Crystal) (Gas) (Liquid)

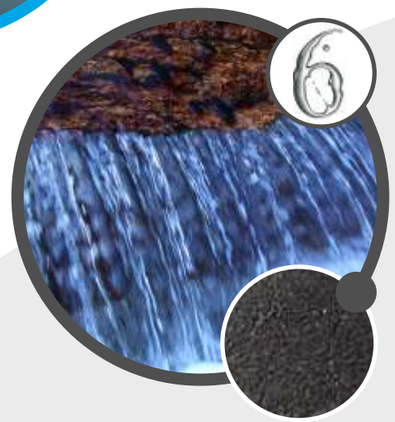
In the pressure vessel, the equilibrium of carbonate species in water is shifted, assisted by the driving force of stable crystal formation and therefore the reaction are pushed to the right. With this technology, as long as $CO_2$ is being removed the soluble $Ca(HCO_3)_2$ converts into insoluble calcium carbonate ($CaCO_3$) crystals.

The calcium carbonate crystals grow steadily. They are very stable and cannot dissolve (incapable of forming scale) in the water. Glass grains crystallization sites provide increased nucleation sites for the formation of submicron sized $CaCO_3$ crystals. Hence this amazing process is called **Nucleation Assisted Crystallization** or **(NAC)** in short.

## SUPER CARBON • Advance Activated Rechargeable Carbon

There are many types of high-tech Carbon filters available for industrial filtration systems. Super carbon can exhibit varying performance characteristics depending upon the strata from which it is derived (e.g., bituminous or anthracite coal, bone char, coconut shell) and the way it is manufactured. The methods used to create the various Super Carbon materials are highly proprietary and lead to distinct differences across the range of media available to the industry.

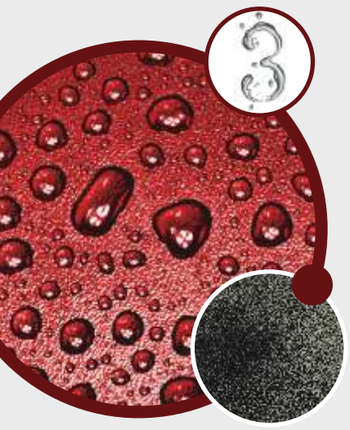




## CARBOCHARGE • Carbon Re-generating Agent

WMC's innovative technology eliminates the arduous, messy and expensive process of replacing the spent/saturated carbon, by reactivating it on site and in its housing column / container itself.

When Carbocharge comes in contact with spent/saturated carbon, it imparts enough energy to counter the carbon's natural Vander Waals forces ability to hold material it adsorbs, thereby desorbing the material adsorbed on the carbon's surface and pores. The desorbed material is then oxidized during the incubation period thus restoring/reconditioning the carbon's surface and pores. The column/canister/chamber containing the carbon is then rinsed with fresh water or hydrophobic carrier flushing residual oxidized material and Carbocharge, thereby restoring the carbon and reinstating its activated properties.



## IRM • Iron Removal Media

Iron Removal Media is the leading manganese dioxide filter media preferred by water treatment professionals worldwide. We are now proud to introduce the next stage in manganese dioxide filter media. Iron Removal Media is an exclusive engineered filter media that provides effective removal of iron, manganese, hydrogen sulfide and arsenic. The robust manganese dioxide coating acts as a catalyst to oxidize, precipitate and remove contaminants. Iron Removal Media can be used in private, industrial and municipal water treatment systems.

The aim of the study was to investigate the ability of Iron Removal Media and a commercial alternative to remove iron and manganese from drinking water by adsorption. For both Fe and Mn contaminants, Iron Removal Media showed a greater capacity for removal.

## FloroGone • Fluoride Removal Technology

***FLOROGONE*** is an adsorbent material based on natural zeolites that are modified with nanotechnology by a process that confers to the material a high capacity of elimination of fluoride ions present in the water.

The use of ***FLOROGONE*** ensures that the water for human consumption is defluorated obtaining a concentration below the maximum limits recommended by the sanitary authorities (WHO).

For its use it only requires the installation of ***FLOROGONE*** as a bed in a vessel sized for the initial fluorine concentration and the water to be treated. The contact of the fluoridated water with the bed causes ***FLOROGONE*** to catch the fluorine. From this simple use results water suitable for human consumption.