Industrial Water Clarification Solutions

LET US CLEAR THINGS UP
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ABOUT CLEARWATER INDUSTRIES, INC

Who We Are
Clearwater Industries Inc. is a highly specialized company that manufactures equipment and provides polymers to separate suspended solids from water streams.

Who We Help
Our equipment is designed to be used in Aggregate, Mining, Coal, Paper, Sewage, Refining and Dredging Operations.

How We Help
Through the use of Flocculants, Make-Down Systems, Clarifiers and Fines Recovery Units, we can recover sellable material and settle ultra fine solids out of water streams rapidly and effectively.

The Purchase Advantage
Clearwater Industries offers customized turn-key systems that are designed to minimize set-up time and operator attention. All units are tested before they leave the factory, to provide trouble free installation. Clearwater Industries packages the total system from chemical to hardware ensuring your satisfaction.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
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<tbody>
<tr>
<td>I need to rapidly separate suspended solids from water</td>
<td>A Clearwater Polymer Preparation System will rapidly &amp; efficiently settle the suspended solids from the water</td>
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<tr>
<td>I want to reduce the cost &amp; headache of cleaning multiple settling stages or ponds</td>
<td>A Clearwater Polymer Preparation System will concentrate all the solids into one small settling area</td>
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<td>I suffer from a lack of clean water</td>
<td>A Clearwater Clarifier can return up to 90% of the dirty water to you as clean water</td>
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<tr>
<td>I suffer from a lack of real estate for any settling areas</td>
<td>A Clearwater Clarifier will remove the solids from the water and provide a concentrated solid sludge</td>
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<td>I want to reclaim land</td>
<td>A Clearwater Clarifier will concentrate the solids so they can be pumped to the reclaimed area, greatly reducing the costs of other reclamation methods</td>
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<tr>
<td>I am washing valuable products out into my settling stages (ponds) and want to reclaim it and sell it</td>
<td>A Clearwater Fines Recovery System will spin out the desired fines, dry them and immediately stack them for sale</td>
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<td>I require portability for my Clarification or Fines Recovery process.</td>
<td>Clearwater Industries is the only company to offer both Portable Clarifiers and Portable Fines Recovery Systems.</td>
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POLYMER SYSTEMS

Equipment Functions:
• Clearwater Polymer Systems are designed to immediately drop all suspended solids out of liquid suspension
• The solids will be condensed to a handleable state leaving behind clear water
• The solids once moved to a drying bed will more readily give up remaining water than untreated solids

Optimal For:
• Rapid separation of solids from water
• Keeping dirty water from going back to your wash plant or process point
• Freeing up land, by eliminating all but one settling bed (pond)
• Greatly reducing the time and difficulty of cleaning out settling beds

Why A Clearwater System:
• Fully automatic, requires very little operator attention
• Made of highly resistant materials, to thrive in harsh environments
• Can be custom built to meet your specific needs.
• Can run dry or liquid chemical
• Makes down a uniform solution, free of “fish eyes”
• Can be up and running 1 hour after unloading
• Chemical gets fully mixed and aged to guarantee maximum efficiency
• Clearwater customer support & service
CONTAINERIZED POLYMER SYSTEMS

Equipment Functions:
• Provides a heated and air conditioned environment
• Accommodates a pallet of polymer for dry storage
• Single point electrical hookup

Optimal For:
• Unpredictable climates
• 24-hour use
• High humidity environments
• Use in remote locations
CLARIFIERS

Equipment Functions:

- Clearwater Industries Clarifiers can recover up to 90% of your water
- Can concentrate solids up to 52% solids by weight
- Can move solids up to 2000 horizontal feet to a storage or dewatering location

Optimal For:

- Contained, controlled separation of solids from liquid
- Dependable clean water supply of minimal waste sludge
- Eliminating settling beds or ponds
- Gaining control over the separation process
- Reducing the amount of material going to Geo-textile tubes or other dewatering devices

Why A Clearwater System:

- The High Compaction Clarifier produces a thicker sludge
- The elevated design with clean out doors gives you a machine easier to maintain
- Clearwater offers both Stationary and Portable Clarifiers
- Auto Floc dosing minimizes polymer consumption
- Clearwater Industries customer support & service
FINES RECOVERY

Equipment Functions:
• Clearwater Industries Ultra Fines Recovery Unit recovers the +325 mesh material in suspension
• De-waters the material to a stackable state
• Can separate different size particles to different categories if desired

Optimal For:
• Aggregate producers who wish to recover and sell material that is otherwise washed out to ponds (such as silt)
• Reducing the amount of fines going to a clarifier, or to a pond
• Reducing the amount of material that goes to Geo-textile tubes or other dewatering devices
• Dredging operations looking to de-water solids coming from the dredge

Why A Clearwater System:
• Clearwater Industries has 20 years experience manufacturing both Stationary and Portable Ultra Fines Recovery Systems
• Clearwater Industries Ultra Fines Recovery Systems are custom built to meet your specific needs
• Our units are fully automatic, requiring little to no operator attention
• Our units can be up and running hours after arrival
• Clearwater Industries provides extensive customer support & service
POLYMERS

Description

• Polymers or Flocculants are safe man-made materials that are injected at very low levels into dirty water streams
• Due to their surface charge, the suspended solids are drawn to the polymer, and their cumulative weight allows the ultra fine particles to rapidly settle out of suspension
• The polymer stays with the fine particles and breaks down over time

What Clearwater Provides

• At our in-house lab, Clearwater Industries isolates the top performing polymer for your specific site
• Since we represent the majority of polymer manufacturers worldwide we can ensure optimal selection
• This free service is provided to help you decide if polymer use is a cost effective option for your application
• From polymer selection to hardware options, Clearwater is with you every step of the way. No one else shares responsibility for your satisfaction