



# Industrial Waste Water Services, LLC

## Industrial Physical/Chemical Wastewater Treatment Systems



- Meet or Exceed Discharge Limits
- Guaranteed Lowest Operating Cost
- Small Footprint/Low Installation Costs
- Pre-Wired, Pre-Plumbed and Fully Tested
- Eliminate EQ/Holding Tanks
- Reuse Water



**I**ndustrial Waste Water Services, LLC has over 33 years experience successfully treating wastewater. We guarantee to meet or exceed your discharge limits and we further guarantee to use less chemistry than any competing system.

IWWS uses a proprietary method of precisely adjusting the influent pH without large EQ tanks. This method requires minimal chemistry and creates a robust system that can handle wide fluctuations in pH, contaminant loadings and flow rates.



*Complete skid-mounted 200 GPM Phys/Chem System with LS Reuse Option at an industrial laundry includes 1,068 Gal. effluent holding compartment, flotation chamber, sludge holding compartment, polymer holding tanks, all pumps, all valves, all piping and is pre-wired and tested at the factory.*

### Small Footprint

IWWS does not use large EQ or holding tanks. Our entire 200 GPM phys/chem system requires a mere 207 ft<sup>2</sup>, excluding the filter press. We use existing space whenever possible and we can reconfigure the system to fit the smallest of spaces.

### Pre-Assembled and Tested

The entire IWWS system is pre-wired, pre-plumbed and skid mounted. Prior to shipment, every system is fully assembled and test-run in our factory.

All components including holding tanks, polymer tanks, pumps, valves, flocculator, catwalk, stairs and critical spares are included on the skid.



*200 GPM Beef Further Processing Phys/Chem System*

### Fast, Easy Installation

We install the complete system in a matter of hours using our own personnel. All the customer needs to provide is power to the control panel, influent piping to the skid, effluent piping to the sewer and a small factory air supply.

### Water Reuse

All IWWS systems provide water reuse without further filtration or treatment. The customer's product mix and testing determine the actual water reuse potential.

Our LS Reuse Option provides a complete water reuse system including a larger effluent/reuse water holding tank, pumps, valves, transfer pump and separate pH control system.



*600 GPM Poultry Further Processing Phys/Chem System*

### Chemical Program

IWWS guarantees to use less chemistry than any competitive system. We do this by designing the physical equipment and the chemical program to work together as a complete system. Efficient mixing and rising characteristics of the physical system allow optimum chemical performance.

We can use chemicals from any of the major suppliers and we will not ask you to sign a chemical contract with us in order to guarantee the system. If you need a source of chemicals or prefer to have us supply the chemistry we will be happy to provide you a quote.

### CMR™ Continuous Metals Removal

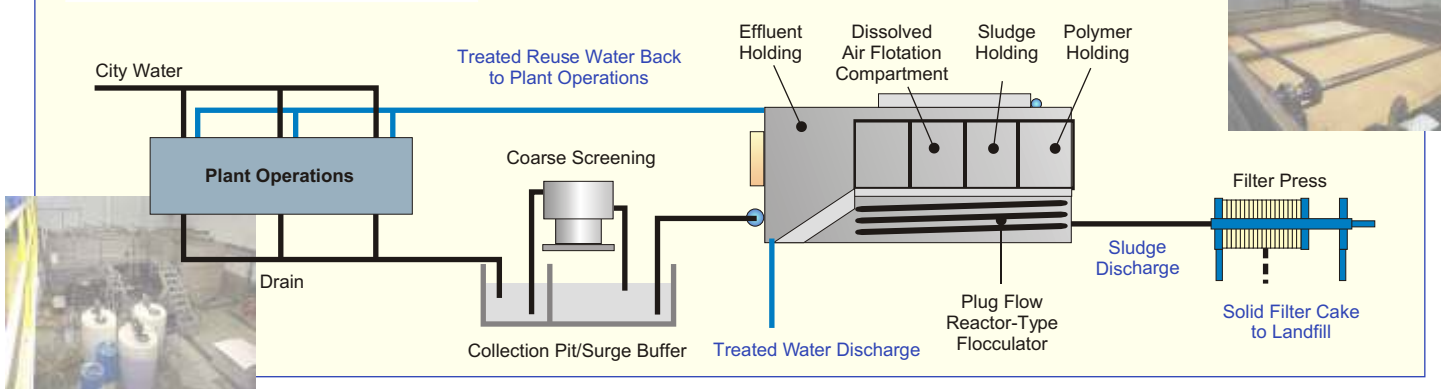
The patented CMR Process from IWWS removes all common metals to the parts per billion level in a continuous-flow process at flow rates up to and over 1,000 GPM. Oils, greases and other contaminants are removed in the same step.



*200 GPM Continuous Metals Removal System*

The IWWS system operates in a continuous-flow process so you can run the rest of your plant without overloading the waste treatment system. Our operating costs are lower than any other system because of the highly efficient mixing and constant flow design.

## Typical System Design



### The IWWS System

The IWWS system is a physical/chemical waste treatment system consisting of:

**Surge Buffer** - We use a small surge buffer (20 minutes at max. flow rate) to equalize flow prior to treatment. Most often we use the collection pit for this purpose.

**Dissolved Air Generator** - IWWS uses a proprietary method of producing dissolved air that creates a highly concentrated stream of true micro bubbles.

**Plug Flow Reactor-Type Flocculator**  
All chemical mixing, injection of dissolved air and treatment occurs in this highly efficient, proprietary device. The incoming waste stream is mixed with the chemistry and micro bubbles to form a highly buoyant floc.

**Dissolved Air Flotation Compartment**  
The treated waste stream enters this compartment where the floc quickly rises to the surface of the vessel and is skimmed off.

**Sludge Holding Compartment**  
Integral to the main vessel, the skimmed sludge is held here prior to dewatering.



Skimmer removes sludge to holding compartment



Clean effluent ready for reuse or discharge

**Effluent Holding Compartment** - The clean effluent is available for either reuse or discharge without further treatment.

**Polymer Holding Tanks** - Polymer is mixed and stored in these integral compartments.



IWWS Filter Press dewateres sludge

**Filter Press** - A small filter press is used to dewater the sludge. IWWS conditions the sludge as it is produced to facilitate efficient dewatering.

**Self-Cleaning** - During periods of low flow, the system automatically enters a self-cleaning mode that scrubs out

residual contaminants from the vessel and piping. A separate jetting system can be activated to remove any solids that may have settled.

### Sizing and Materials

**System Sizes** are available for any flow rate from less than 10 GPM to well over 1,000 GPM. Each system is engineered to match the customer's specific flow rate and waste stream.

**Dimensions** - Actual dimensions vary based on options and specific requirements of each application. A typical 200 GPM system measures 20' x 8'6" and 9'5" in height. The filter press requires little additional space.

**Materials of Construction** - The vessel, skid, railings, scraper and metal piping are all 304L stainless steel. The catwalk grating is galvanized steel and the flocculator is HDPE.

### Contact IWWS

For more information, please visit our website at: [www.iwwsllc.com](http://www.iwwsllc.com). Give us a call at (800) 457-5641 or send an e-mail to [info@iwwsllc.com](mailto:info@iwwsllc.com) to set up a site visit. Operational Contracts and Leasing available.



600 GPM Phys/Chem System - Meat Packing and Rendering

locally represented by:

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