New primary clarifier installation utilizing JMS Mega-SETTLER (Plate Settler System) to increase solids removal for enhanced primary treatment.

**JMS Highlights:**

- Plant Design capacity at 310 ml/day.
- JMS participates at one of the most innovative wastewater treatment operations in North America. Gold Bar Wastewater Treatment Plant features membrane-based solids removal and supplies local industry with reclaimed water.
- Largest wastewater plate settler installation in North America.
- Customer sees up to 85% solids removal at .69 gpm/square foot application rate.

**Contacts:**

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Facility: Goldbar Waste Treatment Plant  
Position: Senior Specialist, Wastewater  
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Edmonton, Alberta, Canada T5H 0E8
JMS participates in plant expansion with equipment that reduces both the plant footprint and costs.

**JMS Highlights:**
- JMS is proud to supply both Mega-SETTLER (Plate Settler System) and Mega-FLOC (Horizontal Paddle Wheel Flocculator).
- JMS Mega-SETTLER system dramatically reduced the footprint and size of the building needed for this plant expansion.
- When complete, the expansion came in $6 million under estimates.

**Incoming Turbidity** - Typical 10 (spikes to 300)
**Source** - Lake Michigan
**Plant Capacity** - 15 mgd
**Flocculant** - Polyaluminum hydroxychloride
**Downstream Treatment** - Multi-media filters

**Contacts:**

**Name:** Patrick Francis  
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**Position:** Plant Manager  
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**Address:** 170 West Drexel Avenue  
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**Name:** Tony Myers  
**Engineering Firm:** CH2M Hill  
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JMS Project Spotlight / Reference
Rocky Ford Water Treatment Plant
Existing Plant Improvements, Rocky Ford, CO

JMS replaces aged equipment with new JMS Mega-SETTLER (Plate Settler System), Mega-VAC (Sludge Removal System) and Mega-WALL (Baffle System).

JMS Highlights:

- JMS proud to supply Mega-SETTLER System, Mega-WALL Baffles and Mega-VAC Sludge Removal System for improvements at this plant.
- All JMS equipment constructed from stainless steel to reduce maintenance costs, and increase equipment life-span.
- JMS uses special pivoting baffle design.

Incoming Turbidity - 5 to 500 NTU (spikes)
Source - Catlin Canal
Plant Capacity - 1.5 mgd, Max is 5 mgd
Flocculant - Alum and polymer
Downstream Treatment - Filters

Contacts:
Name: Frank Valencia
Facility: Rocky Ford Water Treatment Plant
Position: Water and Wastewater Superintendent
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Address: 1000 South Main St.
Rocky Ford, CO 81067
JMS supplies settlement basin equipment for plant expansion dedicated to dramatically increase capacity of vintage 1920’s plant.

**JMS Highlights:**
- JMS equipment helps upgrade this plant from 14 to 18 mgd.
- JMS has been the supplier of choice for several pieces of equipment over the years.
- Plant personnel have fully optimized mechanical and chemical systems for low turbidity water going to downstream membranes.

**Incoming Turbidity** - 10-125 NTU (spikes)
**Source** - Tyger River
**Plant Capacity** - 18 mgd
**Flocculant** - Alum and cationic polymer
**Downstream Treatment** - Membrane

**Contacts:**
- **Name:** Tommy Staton
- **Facility:** SJWD Lyman WTP
- **Position:** Director of Water Production
- **Phone:** 864-439-4423 x2831
- **Mobile:** 864-553-1161
- **Email:** tstaton@sjwd.com
- **Address:** 161 Groce Rd
  Lyman, SC 29365

- **Name:** Paul Hargette
- **Engineering Firm:** Black & Veatch
- **Position:** Process Engineer
- **Phone:** 864-234-6678
- **Email:** hargetteph@bv.com
- **Address:** 201 Brookfield Parkway, Ste 150
  Greenville, SC 29607
A new water softening treatment plant was built to supplement the city’s sixty year old plant using new membrane filtration technology. JMS supplied both Mega-FLOC (Horizontal Paddlewheel Flocculators) and Mega-SETTLER (Plate Settler Systems) for this project.

**JMS Highlights:**

- The timeframe for building the new plant was condensed, and JMS came through with equipment on schedule.
- JMS assisted with the flocculation layout for optimum process results.
- Both JMS Flocculator and Plate Settler experience were demonstrated in working through equipment design.

**Incoming Turbidity** - Average 0.5 NTU (spikes to 40)
**Source** - Big Spring
**Plant Capacity** - 5.1 mgd
**Flocculant** - Polyaluminum chloride
**Downstream Treatment** - Membrane

**Contacts:**

**Name:** Kyle Kruger  
**Engineering Firm:** Garver LLC  
**Position:** Project Manager  
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Norman, OK 73069

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**Name:** Brian Myrick  
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Tuscumbia, AL 35674
JMS Project Spotlight / Reference
Monroe Water Treatment Plant
Plant Upgrade, Bloomington, IN

Plant upgrade to correct deficiencies and increase output from 24 mgd to 30 mgd, including installation of JMS Mega-SETTLER (Plate Settler Systems).

JMS Highlights:
- Excellent opportunity to compare new basin with Mega-SETTLER equipment with existing basins using tube settlers.
- Mega-SETTLERS produce better effluent quality in 1/3 the space than tube settler basins.
- Excellent turbidity off the plate settlers allows for extended filter runs.

Incoming Turbidity - 3 to 20 NTU
Source - Lake Monroe
Plant Capacity - 30 mgd
Flocculant - Alum and polymer
Downstream Treatment - Sand filter

JMS Project:
11-1093
Mega-SETTLER (Plate Settler System)
$304 thousand JMS value

Plant Owner:
City of Bloomington, Indiana Utilities

Total Project Value:
$13 million, Phase 3

Completion Date:
Late 2012

Contractor:
F.A. Wilhelm Construction

Engineering:
Black & Veatch

Contacts:
Name: Rober K. Willet
Engineering Firm: Black & Veatch
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Name: Tim Gholson
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Bloomington, IN 47401
JMS Project Spotlight / Reference
Green River Filtration Facility
New Plant Installation, Ravensdale, WA

A new water filtration facility to serve the needs of the Tacoma, WA area utilizing both JMS Mega-SETTLER (Plate Settler System) and Mega-SCRAPER (Sludge Removal System).

JMS Highlights:
- JMS proud to supply both Mega-SCRAPER Sludge Removal and Mega-SETTLER System for a new state of the art facility with initial capacity of 150 mgd, and ultimate capacity of 168 mgd.
- All JMS equipment constructed from stainless steel to reduce maintenance costs, and increase equipment life-span.
- Largest JMS Mega-SCRAPER installation.

Incoming Turbidity - 1 to 500 NTU (spikes)
Source - Green River
Plant Capacity - 150 mgd
Flocculant - Alum and cationic polymer
Downstream Treatment - Filters

Contacts:
Name: Hilary Lorenz
Facility: Tacoma Water, Green River Filtration Facility
Position: Facility Manager
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Address: 36932 SE. Green River Headworks Rd. Ravensdale, WA 98051
JMS Project Spotlight / Reference
Williston Water Treatment Plant
Plant Expansion/Improvements, Williston, ND

Plant Expansion/upgrade significantly increases the capacity of this plant to 21 mgd to serve population growth needs. First installation of JMS Mega-SETTLER (Plate Settler System) within an Infilco Accelator Softening Clarifier.

JMS Highlights:

- Pioneer application of Mega-SETTLER within an Infilco Accelator Softening Clarifier allows greater solids removal.
- Compact footprint of Mega-SETTLER maximizes efficiency compared with tube settlers that had formerly been used.
- Stainless steel Mega-SETTLER plates will provide greater life expectancy versus tube settlers.

Incoming Turbidity: Typical 10-15 NTU (spikes to 6000)
Source: Missouri River
Plant Capacity: 21 mgd
Flocculant: Alum and polymer
Downstream Treatment: Filters

Contacts:

Name: Perry Johnson
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Position: Project Manager
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Name: John Gisvold
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          Fargo, ND 58104

Name: Jeffrey Bryson
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Position: Plant Superintendent
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          Williston, ND 58801
This project upgraded an existing plant to meet area needs, comply with all EPA regulations and increase treatment capacity to 12 mgd.

**JMS Highlights:**

- JMS was proud to supply Mega-SETTLER (Plate Settler System), Mega-FLOC (Vertical Paddlewheel Flocculator), and Mega-VAC Sludge Removal.
- JMS worked with HDR consultant engineers to design equipment to work with both existing and new basins.
- Plant personnel are very pleased with equipment performance.

**Incoming Turbidity:** Typical 5-20 NTU  
**Source:** Herrington Lake  
**Plant Capacity:** 12 mgd  
**Flocculant:** Polyaluminum chloride  
**Downstream Treatment:** Filters  

**Contacts:**

Name: Charlie Lawson  
Facility: Danville Water Treatment Plant  
Position: Assistant Superintendent  
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Danville, KY 40422

Name: Brent Tippey  
Engineering Firm: HDR  
Position: Vice President  
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Lexington, KY 40509
JMS Project Spotlight / Reference
Two Rivers Utilities
Pilot Unit Installation, Gastonia, NC

Gastonia Plant embarks on the city’s largest single project, $100 million in upgrades. Their first step is the installation of the JMS Mega-System (Packaged Plate Settler System) for a one year pilot evaluation.

JMS Highlights:
- JMS Mega-SYSTEM includes pilot flocculation basin with flocculators, plate settlers and sludge removal.
- Mega-SYSTEM consistently delivers high-quality water to the downstream membrane units.

Incoming Turbidity - Typical 2 to 6 NTU (spikes to 200+)
Source - Mountain Island Lake
Plant Capacity - 24 mgd
Flocculant - Alum
Downstream Treatment - Membrane

Contacts:

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Position: Vice President
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Chris High
Facility: Two Rivers Utilities
Position: Assistant Division Manager
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Address: PO Box 1748
Gastonia, NC 28053
Citywide expansion of facilities includes replacement of existing FRP plate settlers with JMS Mega-SETTLER (Plate Settler System) at Atlanta Fulton County WTP.

**JMS Highlights:**
- JMS replacement of aged FRP plate settlers with stainless steel plate settlers will increase longevity and reduce maintenance costs.
- Results were excellent with average effluent turbidity of 0.22 NTU.
- Construction and plant personnel enthusiastic about their experience with JMS.

**Incoming Turbidity:** 1-5 NTU  
**Source:** Chattahoochee River  
**Plant Capacity:** 135 mgd  
**Flocculant:** Alum  
**Downstream Treatment:** Filtration

**Contacts:**
- **Name:** Michael Hipps  
  **Contractor:** Heavy Constructors, Inc.  
  **Position:** Project Manager  
  **Phone:** 404-427-4687  
  **Email:** heavymh@bellsouth.net  
  **Address:** 1596 Lower Roswell Road  
  Marietta, Georgia 30068

- **Name:** Ken Leavell  
  **Facility:** Atlanta Fulton County WTP  
  **Position:** Head Operator  
  **Phone:** 770-751-0544  
  **Address:** 9750 Spruill Road  
  John's Creek, GA 30022
Plant improvements upgrade capacity and improve the city’s water quality with a reduction in phosphorous and nitrogen discharge. Application of JMS Mega-SETTLER (Plate Settler System) is in the first stage biological treatment at this wastewater facility. This design/build/operate project is currently being operated by CH2M Hill personnel.

**JMS Highlights:**

- JMS phased delivery of Mega-SETTLER plate packs to work with the construction schedule which included the demolition of certain parts of the plant.
- A special Mega-SETTLER design was utilized to accommodate the higher solids associated with wastewater treatment.
- Solids removal in this stage has been outstanding.

**Contacts:**

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Position: Facilities Manager  
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Plant owner sought to increase plants sedimentation capacity by replacing old tube settlers with JMS Mega-SETTLER (Plate Settler System) at this 3 mgd plant.

**JMS Highlights:**
- Fast paced project required conversion of two basins within a two week window.
- JMS worked closely with the contractor to deliver shop drawings in a compressed time-frame.
- Equipment was delivered a full two weeks ahead of schedule.
- Project owner was very happy with equipment performance and consistently meets clarity standards.

**Incoming Turbidity** - Typical 10 NTU  
**Source** - Fern Lake  
**Plant Capacity** - 6 mgd total  
**Flocculant** - Alum  
**Downstream Treatment** - Filters

**Contacts:**

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