Floating Baffle Curtain
Conoco Phillips
Bartlesville, Oklahoma

Conoco Phillips located in Bartlesville, Oklahoma created a new pond system for their wastewater treatment plant and needed a floating baffle curtain to eliminate the potential problem of short circuiting. They needed a means to 1.) Optimize the pond's retention time; and 2.) Develop the pond's flow pattern.

Engineered Textile Products was selected to supply over 455 feet of floating baffle curtain which would provide a solution to all of their concerns. The floating baffle curtain was positioned so that it would allow the liquid to flow around one end of the curtain.

The floating baffle curtains were manufactured in our fabrication facility in Mobile, Alabama in multiple units and then shipped to the job-site. Bottom anchors were supplied as additional ballast to assist with keeping the floating baffle curtain in position after the installation has been completed.

Upon arriving at the job-site, the floating baffle curtain was unloaded by Conoco Phillips and stored in a safe place until it was time to install the floating baffle curtain.

Several months after the floating baffle curtain had been delivered the weather was good enough to allow for the installation of the floating baffle curtain. The contractor installed the shore anchor post on the pond's edge as indicated in the project plans and specifications. The shore anchor post is 3" diameter by 8 feet long stainless steel schedule 80 post. Each post had a ½" stainless steel eyebolt installed approximately twelve inches from the top of the post. The contractor embedded six feet of the shore anchor post in concrete. The shore anchor post were installed about three weeks prior to the installation of the floating baffle curtain so that the concrete could cure and the surrounding soil could compact around the concrete. The shore anchor post was also filled with concrete for added strength.

For more information, contact:

Engineered Textile Products, Inc.
P.O. Box 7474 ·Mobile, Alabama 36670-0474
800-222-8277 · FAX: 888-222-8277

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Upon arrival and after extensive safety training the ETP personnel, along with the contractor located the floating baffle curtains, bottom anchors, and installation hardware that had been stored by Conoco Phillips. The contractor delivered the packaged floating baffle curtain, etc. to the project site.

The ETP personnel directed the contractor where to place the packaged floating baffle curtain. The floating baffle curtain sections were unpackaged and spread out along the pond's berm and the bottom anchors were placed at the waters edge for easy access.

Once the floating baffle curtain sections were spread out they were then connected together and the entire length of the curtain was checked for twist in the curtain and all of the connections were inspected for tightness. The attachment hardware was then attached to each end of the floating baffle curtain.

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A rope was tied to the leading edge of the floating baffle curtain and then placed into the water. As the floating baffle curtain was placed into the water the floating baffle curtain was pulled across the pond using the rope attached to the leading edge.

As the floating baffle curtain was pulled it floated across the pond. Once in the correct position, as shown on the project's plans the floating baffle curtain was secured to the shore anchor post.

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Once the floating baffle curtain was checked again for twist, the additional ballast was attached to the bottom of the curtain's skirt. The lines holding the ballast chain to the floatation collar was removed as the additional ballast was deployed which allowed the skirt to fall into position.

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In just 1 day the floating baffle curtain was installed, secured, and working.

The result: increased retention time; proper flow pattern; and another satisfied customer.

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