San Marcos Drum Intake & AirBurst System

<table>
<thead>
<tr>
<th>Industry</th>
<th>Municipal Water</th>
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<tbody>
<tr>
<td>Problem</td>
<td>The system was a suite of drum</td>
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<td></td>
<td>screens which were directly</td>
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<td></td>
<td>connected to a series of pumps.</td>
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<td>This created a control system</td>
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<td>integration challenge to</td>
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<td>coordinate the pump and the</td>
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<td></td>
<td>airburst screen cleaning system.</td>
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<td>Additionally, the screens had</td>
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<td>to be retrofit to an existing</td>
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<td></td>
<td>site where there was limited</td>
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<td>physical space for the screens.</td>
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<td>Solution</td>
<td>Elgin Separation Solutions</td>
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<tr>
<td></td>
<td>developed a custom AirBurst</td>
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<td>system with adjustable operating</td>
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<td>cycles to coordinate with the</td>
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<td>operating strategy of the plant.</td>
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<td>The site conditions required the</td>
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<td>use of a custom screen geometry.</td>
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<td>This was accomplished by use of</td>
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<td>a purpose built flow modifier to</td>
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<td>maintain velocity balance across</td>
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<td>the screen.</td>
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<td>Result</td>
<td>The screens have been in</td>
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<td>successful operation for five</td>
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<td>years. Because of the flow</td>
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<td>balanced screens the operators</td>
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<td>have been able to lower the</td>
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<td>operating cycle of the airburst</td>
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<td>as the screens are not clogging.</td>
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Elgin Separation Solutions builds water solutions through innovation