

**Date:** December 14, 2009  
**To:** City Council  
**Through:** Bryan Raines, Deputy City Manager  
**From:** Edward Quedens, Business Services Director  
**Subject:** Purchase of a Refurbished Westfalia® Centrifuge Bowl, Tile Replacement and Scroll Repair for the Water Resources Department (Sole Source) (Contract #2009189)  
"Citywide" contract

## Purpose and Recommendation

Council is requested to approve the Purchase of a Refurbished Westfalia® Centrifuge Bowl, Tile Replacement and Scroll Repair as recommended. Bid pricing was obtained and evaluated by the Water Resources Department and the Purchasing Division.

The Purchasing Division recommends authorizing purchase and repair from the sole source bidder, GEA Westfalia® Separator, Inc. at \$170,966.65, including applicable use tax.

## Background/Discussion

This contract will provide replacement of the centrifuge bowl, replacement of worn tile and scroll repair at the Northwest Water Reclamation Plant. The bowl and scroll are two parts of the centrifuge that spin at high speeds to separate the liquid and solids of the digested sludge.

One of the dewatering centrifuges recently automatically shut down due to vibration. Westfalia® (original manufacturer, sole distributor and authorized repair/service provider) inspected the eight-year old machine and determined that many of the hardened carbide tiles from the scroll had come loose and cut a deep groove in the bowl. Repairing the bowl is not an option since this would compromise the metal properties and create a safety hazard. The purchase of a new bowl from Westfalia® is also not a viable option since there are none in stock and delivery would take 8 to 10 months. The best alternative is to purchase a used bowl from the Westfalia® (which would have the same life as a new bowl) that would be shipped as soon as the City places the order.

Scroll repair and tile replacement on each of the centrifuges is a regular maintenance cost and occurs about every four (4) years. Because of the large quantity of tiles that are broken and worn down to the backing plate, these tiles need to be removed and new tiles welded into place. The tile work can only be done at the New Jersey service facility. The bowl and scroll will be replaced by Westfalia® at the Northwest Plant after completion of the tile work.

In addition, sole-sourcing the scroll repair and bowl replacement to Westfalia® is the best alternative, based on their knowledge and experience of working with this specialized, proprietary equipment. Westfalia® regularly services the centrifuges and using any other repair service would jeopardize the warranty on any future work done by Westfalia® on this unit.

**Alternatives**

Council may choose not to award this contract and new bids would be obtained.

**Fiscal Impact**

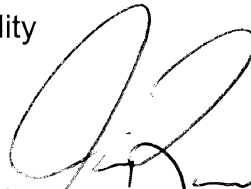
The total amount of \$170,966.65 is available in the Water Resources Department's budget.

**Coordinated With**

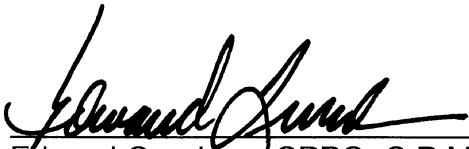
Water Resources Department – Wastewater Utility



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Pamela Chavez,  
Management Assistant II



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Jim Ruiz, CPPB  
Purchasing Administrator



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Edward Quedens, CPPO, C.P.M.  
Business Services Director



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Bryan Raines,  
Deputy City Manager

**CITY OF MESA  
 AWARD RECOMMENDATION  
REPLACEMENT OF WESTFALIA® CENTRIFUGE BOWL AND TILE,  
 AND SCROLL REPAIR  
 (REQUEST FOR BID #2009189)**

**GEA Westfalia® Separator, Inc.  
 Northvale, NJ**

Description	Extended Bid Pricing
<p><u>Scroll Repair to include:</u> Repair the washouts in the flights and in the distributor area; weld, grind and smooth. Replace all 450 tiles with improved corrosion resistant design tiles. Replace worn bearing seats with improved design with curved extension; seats are to be rebuilt by installing linings. Replace worn ring and driver. Also to include, Cleaning, inspection, dye test, machining, welding and grit blast and balance scroll to factory specifications</p>	\$12,306.50
<p><u>Parts:</u> 450 soldered plates, set of wear liners, ring, driver and miscellaneous hardware</p>	<u>\$30,039.19</u>
	<b>Sub-Total    \$42,345.69</b>
<p><u>Westfalia® Reconditioned CA 505 Centrifuge Bowl Shell</u></p>	\$110,727.40
	5.6% Use Tax <u>\$6,200.74</u>
	<b>Sub-Total    \$116,928.14</b>
<p><u>10% Contingency:</u> For additional deficiencies (if any, found during the course of repair) that may not have been visible during the initial evaluation, Westfalia® would repair without requesting additional authorization up to the amount equal 10% of the total order.</p>	<b>Sub-Total    \$11,692.82</b>
	<b>TOTAL    \$170,966.65</b>