



**DES MOINES WATER WORKS**  
**Board of Water Works Trustees**

Agenda Item No. \_\_\_\_\_  
 Meeting Date: November 25, 2014  
 Chairperson's Signature  Yes  No

**AGENDA ITEM FORM**

**SUBJECT: 2015 Water Treatment Chemicals – Analysis of Bids and Authorize Execution of Contracts**

**SUMMARY:**

Below is listed the bid analysis and purchase recommendations for the 2015 water treatment chemical supplies, presented by Julia Johnston, Purchasing/Central Stores Supervisor.

**FISCAL IMPACT:**

The 2015 budget for Water Treatment Chemicals will provide the cost of \$4,441,168.69. Chemicals in this recommendation include requirements for the Fleur Drive, McMullen and Saylorville Water Treatment Plants.

**RECOMMENDED ACTION:**

Award the 2015 chemical contracts to bidders as follows:

Aluminum Sulfate – Ground – to Chemtrade, the low responsible bidder at \$.2725 per pound (2014 cost \$.2575).  
 Activated Carbon – to Thatcher Chemical, the low responsible bidder at \$.75 per pound to Fleur \$.80 per pound to McMullen (2014 cost \$.483). \*DMWW will be using a higher grade carbon H20M to reduce TOC and odor.  
 Carbon Dioxide – Liquid – to Air Products, the low responsible bidder at \$.0249 per pound (2014 cost \$.024875).  
 Ferric Chloride – to Kemira, the low responsible bidder at \$.095 per pound solution. (2014 cost \$.107).  
 Hydrofluosilicic Acid – to Mosaic, the low responsible bidder at \$. 25 per pound (2014 cost \$.2545).  
 Lime – Quick Pebble for Fleur plant – to Linwood, the low responsible bidder at \$126.00 per ton (2014 cost \$118.00 )  
 Lime – Quick Pebble for McMullen plant – to Mississippi Lime, the low responsible bidder at \$161.68 per ton (2014 cost at McMullen \$153.28).  
 Polyphosphate – to Carus Chemical, the low responsible bidder at \$. 395 per pound. (2014 cost \$.399).  
 Soda Ash – to BHS Marketing, the low responsible bidder at \$.1545 per pound (2014 cost \$.1494).  
 Solar Salt – to Compass Minerals, the low responsible bidder at \$141.47 per ton (2014 cost \$128.45).  
 Sodium Hypochlorite – to Vertex, the low responsible bidder at \$.599 per gallon (2014 cost \$.689).  
 Antiscalant – to GE Water Process Technologies, the low responsible bidder at \$2.64 per pound (2014 cost \$2.59).  
 Sodium Hydroxide 30% – to Brenntag, the low responsible bidder at \$ 1.09 per gallon (2014 cost \$1.23).  
 Citric Acid – to Brenntag, the low responsible bidder at \$.49 per pound (2014 cost \$.56).  
 Sodium Bisulfite – to Thatcher Chemical, the low responsible bidder at \$.123 per pound (2014 cost \$.129).  
 Sodium Permanganate – to Carus, the low responsible bidder at \$.729 per pound (2014 cost \$.735).

**BOARD REQUIRED ACTION:**

Motion to award the 2015 contracts for water treatment chemical supplies to the low responsible bidders.

_____ / _____ Julia Johnston (date) Purchasing/Central Stores Supervisor	_____ / _____ Michael J. McCurnin, P.E. (date) Director of Water Production	_____ / _____ William G. Stowe (date) CEO and General Manager
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Chemical Price Change Summary Report  
2014 to 2015

Plant	Chemical	New Price	Old Price	Percentage Change	Estimated Usage	Unit of Measure	2015 Total	2015 Vendor
Fleur	Activated Carbon	\$ 0.75000	\$ 0.48300	55.28%	860,375	Pounds	\$645,281.25	Thatcher-H2OM
Fleur	Aluminum Sulfate	\$ 0.27250	\$ 0.25750	5.83%	1,565,064	Pounds	\$426,479.94	Chemtrade
Fleur	Carbon Dioxide	\$ 0.02490	\$ 0.02488	0.10%	2,212,394	Pounds	\$55,088.61	Air Products
Fleur	Ferric Chloride	\$ 0.09500	\$ 0.10700	-11.21%	2,867,918	Pounds	\$272,452.21	Kemira
Fleur	Hydrofluosilicic Acid	\$ 0.25000	\$ 0.25450	-1.77%	223,698	Pounds	\$55,924.50	Mosaic
Fleur	Lime	\$ 126.00	\$ 118.00	6.78%	9,423.158	Tons	\$1,187,317.91	Linwood
Fleur	Soda Ash	\$ 0.15450	\$ 0.14940	3.41%	215,504	Pounds	\$33,295.37	BHS Marketing
Fleur	Solar Salt	\$ 141.47	\$ 128.45	10.14%	164	Tons	\$23,201.08	Compass Minerals
Fleur	Sodium Hypochlorite	\$ 0.59900	\$ 0.68900	-13.06%	220,961	Gallons	\$132,355.64	Vertex
Fleur	Polyphosphate	\$ 0.39500	\$ 0.39900	-1.00%	122,911	Pounds	\$48,549.85	Carus
<b>Fleur Drive Sub-Total</b>							<b>\$2,879,946.35</b>	
McMullen	Activated Carbon	\$ 0.80000	\$ 0.48300	65.63%	148,177	Pounds	\$118,541.60	Thatcher-H2OM
McMullen	Carbon Dioxide	\$ 0.02490	\$ 0.02488	0.08%	872,698	Pounds	\$21,730.18	Air Products
McMullen	Sodium Hypochlorite	\$ 0.59900	\$ 0.68900	-13.06%	107,146	Gallons	\$64,180.45	Vertex
McMullen	Ferric Chloride	\$ 0.09500	\$ 0.10700	-11.21%	1,068,600	Pounds	\$101,517.00	Kemira
McMullen	Hydrofluosilicic Acid	\$ 0.25000	\$ 0.25450	-1.77%	126,814	Pounds	\$31,703.50	Mosaic
McMullen	Lime	\$ 161.68	\$ 153.28	5.48%	4,318.035	Tons	\$698,139.90	Mississippi Lime
McMullen	Polyphosphate	\$ 0.39500	\$ 0.39900	-1.00%	37,271	Pounds	\$14,722.05	Carus
McMullen	Soda Ash	\$ 0.15450	\$ 0.14940	3.41%	33,181	Pounds	\$5,126.46	BHS Marketing
<b>McMullen Sub-Total</b>							<b>\$1,055,661.14</b>	
SWTP	Antiscalant	\$ 2.64000	\$ 2.59000	1.93%	61,034	Pounds	\$161,129.76	GE Water & Process Technologies
SWTP	Citric Acid	\$ 0.49000	\$ 0.56000	-12.50%	127,396	Pounds	\$62,424.04	Brenntag
SWTP	Hydrofluosilicic Acid	\$ 0.25000	\$ 0.25450	-1.77%	58,599	Pounds	\$14,649.75	Mosaic
SWTP	Polyphosphate	\$ 0.39500	\$ 0.39900	-1.00%	12,481	Pounds	\$4,930.00	Carus
SWTP	Sodium Bisulfite	\$ 0.12300	\$ 0.12900	-4.65%	282,949	Pounds	\$34,802.73	Thatcher Chemical
SWTP	Sodium Hydroxide 30%	\$ 1.09000	\$ 1.23000	-11.38%	76,472	Gallons	\$83,354.48	Brenntag
SWTP	Sodium Hypochlorite	\$ 0.59900	\$ 0.68900	-13.06%	104,332	Gallons	\$62,494.87	Vertex
SWTP	Sodium Permanganate	\$ 0.72900	\$ 0.73500	-0.82%	112,175	Pounds	\$81,775.58	Carus
<b>SWTP Sub-Total</b>							<b>\$505,561.20</b>	
<b>Des Moines Water Works 2014 Total</b>							<b>\$4,441,168.69</b>	