



**AGENDA ITEM FORM**

**SUBJECT: 2012 Water Treatment Chemicals – Analysis of Bids and Authorize Execution of Contract**

**SUMMARY:**

Below is listed the bid analysis and purchase recommendations for the 2012 water treatment chemical supplies, presented by Julia Johnston, Purchasing/Central Stores Supervisor.

**FISCAL IMPACT:**

The 2012 budget for the Water Treatment Chemicals project will provide the cost of \$3,854,643.56. Chemicals in this recommendation include requirements for the Water Treatment Plant at Fleur, McMullen and Saylorville. Total costs presented in this memo are approximately \$183,000 less than what has been presented in the 2012 budget. The 2012 budget totals were based upon estimations. Final chemical costs presented here are a function of bids received and efforts by staff to test material from an alternate lime supplier for use at the McMullen Water Treatment Plant.

**RECOMMENDED ACTION:**

Award the 2012 chemical contracts to bidders as follows:

- Aluminum Sulfate – Ground – to General Chemical, the low responsible bidder at \$.2225 per pound (2011 cost \$.2425).
- Activated Carbon – to F2 Industries, the low responsible bidder at \$.493 per pound (2011 cost \$.499).
- Carbon Dioxide – Liquid – to EPCO, the low responsible bidder at \$.02575 per pound (2011 cost \$.02575).
- Ferric Chloride – to Kemira Water, the low responsible bidder at \$.12 per pound solution. (2011 cost \$.11).
- Hydrofluosilicic Acid – to Mosaic formerly LCI, the low responsible bidder at \$.2655 per pound (2011 cost \$.3295).
- Lime – Quick Pebble – to Linwood Mining & Minerals Corporation, the low responsible bidder at \$127.57 per ton delivered by bottom drop truck to the Fleur Drive Water Treatment Plant. (2011 cost at Fleur \$124.50).
- Lime – Quick Pebble – to Western Lime, the low responsible bidder at \$158.00 per ton delivered by bottom drop truck to the McMullen Water Treatment Plant. (NOTE: Linwood Mining & Minerals Corporation's product causes additional grit and cannot be used at the McMullen Water Treatment Plant.) (2011 cost at McMullen \$152.28).
- Polyphosphate – to Carus Chemical, the low responsible bidder at \$.47 per pound. (2011 cost \$.424).
- Soda Ash – to Solvay, the low responsible bidder at \$.1675 per pound (2011 cost \$.16450).
- Solar Salt – to North American Salt, the low responsible bidder at \$120.00 per ton (2011 cost \$115.00).
- Sodium Hypochlorite – to DPC, the low responsible bidder at \$.87 per gallon (2011 cost \$.90).
- Antiscalant – to GE Water Process Technologies, the low responsible bidder at \$2.44 per pound (2011 cost \$2.60).
- Sodium Hydroxide 30% – to DPC, the low responsible bidder at \$.1159 per pound (2011 cost \$.11).
- Citric Acid – to Hawkins Water Treatment, the low responsible bidder at \$.60 per pound (2011 cost \$.62).
- Sodium Bisulfite – to Thatcher Chemical, the low responsible bidder at \$.127 per pound (2011 cost \$.18).
- Sodium Permanganate – to Carus, the low responsible bidder at \$.735 per pound (2011 cost \$.779).

**BOARD REQUIRED ACTION:**

Motion to award the 2012 contract for water treatment chemical supplies to the low responsible bidders.

_____ / _____ Julia Johnston, Purchasing/ (date) Central Stores Supervisor	_____ / _____ Michael J. McCurnin, P.E. (date) Director of Water Production	_____ / _____ Randall R. Beavers, P.E. (date) CEO and General Manager
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**Chemical Price Change Summary Report  
2011 to 2012**

<b>Plant</b>	<b>Chemical</b>	<b>New Price</b>	<b>Old Price</b>	<b>Percentage Change</b>	<b>Estimated Usage</b>	<b>Unit of Measure</b>	<b>2012 Total</b>	<b>2012 Vendor</b>
Fleur	Activated Carbon	\$ 0.49300	\$ 0.49900	-1.20%	423,722	Pounds	\$208,894.80	F2 Industries
Fleur	Aluminum Sulfate	\$ 0.22250	\$ 0.24250	-8.25%	1,422,616	Pounds	\$316,532.03	General Chemical
Fleur	Carbon Dioxide	\$ 0.02575	\$ 0.02575	0.00%	1,621,714	Pounds	\$41,759.14	EPCO
Fleur	Ferric Chloride	\$ 0.12000	\$ 0.11000	9.09%	1,418,361	Pounds	\$170,203.32	Kemira
Fleur	Hydrofluosilicic Acid	\$ 0.26550	\$ 0.32950	-19.42%	212,711	Pounds	\$56,474.77	Mosaic formerly LCI
Fleur	Lime	\$ 127.57	\$ 124.50	2.47%	11,316.260	Tons	\$1,443,615.29	Linwood Lime
Fleur	Soda Ash	\$ 0.16750	\$ 0.16450	1.82%	253,552	Pounds	\$42,470.02	Solvay
Fleur	Solar Salt	\$ 120.00	\$ 115.00	4.35%	449	Tons	\$53,880.00	North American Salt
Fleur	Sodium Hypochlorite	\$ 0.87000	\$ 0.90000	-3.33%	169744	Gallons	\$147,677.28	DPC
Fleur	Polyphosphate	\$ 0.47000	\$ 0.42400	10.85%	97,847	Pounds	\$45,988.27	Carus
<b>Fleur Drive Sub-Total</b>							<b>\$2,527,494.91</b>	
McMullen	Activated Carbon	\$ 0.49300	\$ 0.49900	-1.20%	35,028	Pounds	\$17,268.80	F2 Industries
McMullen	Carbon Dioxide	\$ 0.02575	\$ 0.02575	0.00%	831,665	Pounds	\$21,415.37	EPCO
McMullen	Sodium Hypochlorite	\$ 0.87000	\$ 0.90000	-3.33%	80,564	Gallons	\$70,090.68	DPC
McMullen	Ferric Chloride	\$ 0.12000	\$ 0.11000	9.09%	1,210,468	Pounds	\$145,256.16	Kemira
McMullen	Hydrofluosilicic Acid	\$ 0.26550	\$ 0.32950	-19.42%	126,601	Pounds	\$33,612.57	Mosaic formerly LCI
McMullen	Lime	\$ 158.00	\$ 152.28	3.76%	5,129.000	Tons	\$810,382.00	Western Lime
McMullen	Polyphosphate	\$ 0.47000	\$ 0.42400	10.85%	36,529	Pounds	\$17,168.63	Carus
McMullen	Soda Ash	\$ 0.16750	\$ 0.16450	1.82%	0	Pounds	\$0.00	Solvay
<b>McMullen Sub-Total</b>							<b>\$1,115,194.21</b>	
SWTP	Antiscalant	\$ 2.44000	\$ 2.60000	-6.15%	26,179	Pounds	\$63,876.76	GE Water & Process Technologies
SWTP	Citric Acid	\$ 0.60000	\$ 0.62000	-3.23%	23,592	Pounds	\$14,155.20	Hawkins Water Treatment
SWTP	Hydrofluosilicic Acid	\$ 0.26550	\$ 0.32950	-19.42%	19,254	Pounds	\$5,111.94	Mosaic formerly LCI
SWTP	Polyphosphate	\$ 0.47000	\$ 0.42400	10.85%	5,555	Pounds	\$2,610.85	Carus
SWTP	Sodium Bisulfite	\$ 0.12700	\$ 0.18000	-29.44%	139,648	Pounds	\$17,735.30	Thatcher Chemical
SWTP	Sodium Hydroxide 30%	\$ 0.11590	\$ 0.11000	5.36%	450,527	Pounds	\$52,216.08	DPC
SWTP	Sodium Hypochlorite	\$ 0.87000	\$ 0.90000	-3.33%	46,651	Gallons	\$40,586.20	DPC
SWTP	Sodium Permanganate	\$ 0.73500	\$ 0.77900	-5.65%	21,309	Pounds	\$15,662.12	Carus
<b>SWTP Sub-Total</b>							<b>\$211,954.43</b>	
<b>Des Moines Water Works 2012 Total</b>							<b>\$3,854,643.56</b>	