



**AGENDA ITEM FORM**

**SUBJECT: 2018 Water Treatment Chemicals – Analysis of Bids and Authorize Execution of Contracts**

**SUMMARY:**

Below is listed the bid analysis and purchase recommendations for the 2018 water treatment chemical supplies, presented by Julia Johnston, Purchasing/Central Stores Supervisor.

**FISCAL IMPACT:**

The 2018 budget for Water Treatment Chemicals will provide the cost of \$4,678,456.76. Chemicals in this recommendation include requirements for the Fleur Drive, McMullen and Saylorville Water Treatment Plants.

**RECOMMENDED ACTION:**

Award the 2018 chemical contracts to bidders as follows:

- Antiscalant** – to Avista, the low responsible bidder at \$1.35 per pound (2017 cost \$1.35)
- Aluminum Sulfate – Ground** – to Chemtrade, the low responsible bidder at \$.2848 per pound (2017 cost \$.2815)
- Activated Carbon** – to CarbPure, the low responsible bidder at \$.64 per pound to Fleur, \$.72 per pound to McMullen (2017 cost \$.71 to Fleur, \$.79 to McMullen)
- Carbon Dioxide – Liquid** – to Air Products, the low responsible bidder at \$.0425 per pound (2017 cost \$.0425)
- Citric Acid** – to Hawkins Water Treatment, the low responsible bidder at \$.379 per pound (2017 cost \$.45)
- Ferric Chloride** – to Kemira, the low responsible bidder at \$.124 per pound solution. (2017 cost \$.1196)
- Hydrochloric Acid** – to Hawkins Water Treatment, the low responsible bidder at \$.2017 per pound (2017 cost \$.161)
- Hydrofluosilicic Acid** – to Univar, the low responsible bidder at \$.153 per pound (2017 cost \$.197)
- Aluminum Chloride Hydroxide Sulfate IC1179P** – to Suez formerly GE Water Process Technologies, the low responsible bidder at \$.64 per pound (2017 cost \$.61)
- Polyphosphate** – to Carus Chemical, the low responsible bidder at \$.343 per pound. (2017 cost \$.365)
- Soda Ash** – to Univar, the low responsible bidder at \$.14850 per pound (2017 cost \$.155)
- Solar Salt** – to Step Saver, the responsible bidder at \$181.00 per ton (2017 cost \$178.00 Step Saver)
- Sodium Hypochlorite** – to Olin, the low responsible bidder at \$.703 per gallon (2017 cost \$.62)
- Sodium Hydroxide 30%** – to DX Group, the low responsible bidder at \$1.374 per gallon (2017 cost \$1.07)
- Sodium Bisulfite** – to Univar, the low responsible bidder at \$.1099 per pound (2017 cost \$.1179)
- Sodium Permanganate** – to Shannon Chemical, the low responsible bidder at \$.627 per pound (2017 cost \$.654)
- Lime** – Quick Pebble for Fleur plant – to Mississippi Lime the low responsible bidder at \$149.00 per ton (2017 cost \$149.00) Lime covered under separate Board action.
- Lime** – Quick Pebble for McMullen plant – to Mississippi Lime, the low responsible bidder at \$149.00 per ton (2017 cost at McMullen \$149.00) Lime covered under separate Board action.

**BOARD REQUIRED ACTION:**

Motion to award the 2018 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 2017 to 2018

Plant	Chemical	New Price	Old Price	Percentage Change	Estimated Usage	Unit of Measure	2018 Total	2018 Vendor
Fleur	Activated Carbon	\$ 0.64000	\$ 0.71000	-9.86%	577,670	Pounds	\$369,708.80	Carbpure
Fleur	Aluminum Sulfate	\$ 0.28480	\$ 0.28150	1.17%	1,237,865	Pounds	\$352,543.95	Chemtrade
Fleur	Carbon Dioxide	\$ 0.04250	\$ 0.04250	0.00%	2,640,778	Pounds	\$112,233.07	Air Products
Fleur	Ferric Chloride	\$ 0.12400	\$ 0.11960	3.68%	1,980,583	Pounds	\$245,592.29	Kemira
Fleur	Hydrofluosilicic Acid	\$ 0.15300	\$ 0.19700	-22.34%	247,573	Pounds	\$37,878.67	Univar
Fleur	Lime	\$ 149.00	\$ 149.00	0.00%	10,109	Tons	\$1,506,241.00	Mississippi Lime*
Fleur	Soda Ash	\$ 0.14850	\$ 0.15500	-4.19%	396,117	Pounds	\$58,823.37	Univar
Fleur	Solar Salt	\$ 181.00	\$ 178.00	1.69%	1,032	Tons	\$186,792.00	Step Saver
Fleur	Sodium Hypochlorite	\$ 0.70300	\$ 0.62000	13.39%	204,273	Gallons	\$143,603.92	Olin (formerly KA Steel)
Fleur	Polyphosphate	\$ 0.34300	\$ 0.36500	-6.03%	165,049	Pounds	\$56,611.81	Carus Chemical
<b>Fleur Drive Sub-Total</b>							<b>\$3,070,028.88</b>	
McMullen	Activated Carbon	\$ 0.72000	\$ 0.79000	-8.86%	160,128	Pounds	\$115,292.16	Carbpure
McMullen	Carbon Dioxide	\$ 0.04250	\$ 0.04250	0.00%	920,736	Pounds	\$39,131.28	Air Products
McMullen	Sodium Hypochlorite	\$ 0.70300	\$ 0.62000	13.39%	91,164	Gallons	\$64,088.29	Olin (formerly KA Steel)
McMullen	Ferric Chloride	\$ 0.12400	\$ 0.11960	3.68%	1,200,960	Pounds	\$148,919.04	Kemira
McMullen	Hydrofluosilicic Acid	\$ 0.15300	\$ 0.19700	-22.34%	112,090	Pounds	\$17,149.77	Univar
McMullen	Lime	\$ 149.00	\$ 149.00	0.00%	4,203	Tons	\$626,247.00	Mississippi Lime*
McMullen	Polyphosphate	\$ 0.34300	\$ 0.36500	-6.03%	40,032	Pounds	\$13,730.98	Carus Chemical
McMullen	Soda Ash	\$ 0.14850	\$ 0.15500	-4.19%	0	Pounds	\$0.00	Univar
<b>McMullen Sub-Total</b>							<b>\$1,024,558.52</b>	
SWTP	Antiscalant	\$ 1.35000	\$ 1.35000	0.00%	85,235	Pounds	\$115,067.25	Avista
SWTP	Citric Acid	\$ 0.37900	\$ 0.45000	-15.78%	191,778	Pounds	\$72,683.86	Hawkins Water Treatment
SWTP	Hydrofluosilicic Acid	\$ 0.15300	\$ 0.19700	-22.34%	53,272	Pounds	\$8,150.62	Univar
SWTP	Polyphosphate	\$ 0.34300	\$ 0.36500	-6.03%	0	Pounds	\$0.00	Carus Chemical
SWTP	Sodium Bisulfite	\$ 0.10990	\$ 0.11790	-6.79%	319,631	Pounds	\$35,127.45	Univar
SWTP	Sodium Hydroxide 30%	\$ 1.37400	\$ 1.07000	28.41%	114,746	Gallons	\$157,661.00	DX Group
SWTP	Sodium Hypochlorite	\$ 0.70300	\$ 0.62000	13.39%	84,393	Gallons	\$59,328.28	Olin (formerly KA Steel)
SWTP	Sodium Permanganate	\$ 0.62700	\$ 0.65400	-4.13%	106,544	Pounds	\$66,803.09	Shannon Chemical
SWTP	Poly Aluminum Chloride	\$ 0.64000	\$ 0.61000	4.92%	106,544	Pounds	\$68,188.16	Suez (formerly GE Betz Water)
SWTP	Hydrochloric Acid	\$ 0.20170	\$ 0.16100	25.28%	4,262	Pounds	\$859.65	Hawkins Water Treatment
<b>SWTP Sub-Total</b>							<b>\$583,869.36</b>	
<b>Des Moines Water Works 2018 Total</b>							<b>\$4,678,456.76</b>	

\* Lime covered under separate Board action.