

**E Environment Committee**  
**For the Metropolitan Council meeting of January 27, 2010**

**ADVISORY INFORMATION**

Date Prepared: January 15, 2010

Subject: Authorization to Purchase Polymer for the Metropolitan Wastewater Treatment Plant

**Proposed Action:**

That the Metropolitan Council authorize the Regional Administrator issue a Purchase Order to Polydyne Inc. to provide Clarifloc CE-817, CE-818 & CE-819 Polymers to the Metro Wastewater Treatment Plant at a unit price of \$0.145, \$0.145 & \$1.21 per pound respectively.

**Summary of Committee Discussion / Questions:**

In response to questions from the committee, staff explained the difference in prices for the polymers used. The metro plant has primary and secondary sludge, and in order to maintain the optimum blend ratio for ideal dewatering, the correct polymer must be used. The lower priced polymers are water-based and are used 90% of the time. The higher priced polymer is oil-based.

Proposed action was moved, seconded, and passed unanimously.

# **E** Environment Committee **Meeting date: January 12, 2010**

**For the Metropolitan Council Meeting of January 27, 2010**

## **ADVISORY INFORMATION**

Date:	January 5, 2010
Subject:	Authorization to Purchase Polymer for the Metro Wastewater Treatment Plant
District(s), Member(s):	All
Policy/Legal Reference:	Council Policy 3-3 Expenditures – Procurement of Goods and Services Over \$250,000
Staff Prepared/Presented:	Larry Rogacki, 651-602-8225; Micky Gutzmann, 651-602-1741
Division/Department:	MCES C/O William G. Moore, 651-602-1162

### **Proposed Action:**

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### **Background**

Polymer is a conditioning chemical, which aids in the removal of water while processing sludge solids on mechanical equipment such as Centrifuges and Belt Presses. Two types of polymer are required as the Metro Plant produces two different blends of primary and secondary sludge solids depending on operating conditions.

Procurement of polymer involves receipt of sealed bids, followed by a full-scale evaluation of polymer performance, followed by an evaluation of bids to identify the most effective polymer at the lowest cost to the Council.

Polymer manufacturers were invited by a formal Invitation for Bids in August of 2005 to test up to 3 different polymers each. Polymers from Polydyne and Stockhausen met the minimum solids recovery standards set forth in the Technical Specifications of the Evaluation. One manufacturer, Nalco, withdrew from the evaluation during preliminary testing.

### **Rationale**

The results of the original evaluation are used to determine the lowest responsive, responsible bidder for a series of one-year purchase orders over a five-year period. This is the final year of the five-year period. Full scale testing will be held at the Metro Plant in the summer of 2010 for a new contract.

Polydyne was the lowest responsive and responsible bidder for the year 2010 purchase order for both types of polymer. Unit costs are the same as those bid last year and ranged from \$16.50 - \$46.77 per dry ton of sludge processed. Estimated expenditures for this chemical are approximately \$3,000,000 annually.

### **Funding**

Funds are available in the Metro Wastewater Treatment Plant annual operating budget.

### **Known Support / Opposition**

None