

# Business Item 2020-289: Metro Plant Polymer, Contract 19P249

Joe Ward, Principal Engineer

Environment Committee: October 27, 2020



# What is sludge?

- Particles that settle naturally (primary sludge in gravity thickeners)
- Excess microorganisms (secondary sludge in aeration tanks)



# What is polymer?

- Made of mineral oil (light naphtha), polyacrylamide, and water
  - Raw materials are oil and natural gas
- Causes sludge particles to agglomerate (flocculation)
- Allows dewatering equipment to separate solids from water





# How is Polymer Used at Metro?

- Polymer is fed with sludge into centrifuges
- Centrifuges increase solids from 5% solids to 27%





# Background

- Invitation for Bids – November 26, 2019
- Two responsive bids for two-part solicitation
  - Part 1 – Product Information – Opened January 30, 2020
    - Evaluation process – full-scale performance evaluation
  - Part 2 – Cost Information – Opened September 18, 2020
- Polydyne, Inc. met evaluation process requirements at lowest cost
- \$2,800,000 annual expenditure, 5-year contract not to exceed \$15,100,000 accounting for inflation
- Office of Equal Opportunity did not set a Metropolitan Council Underutilized Business (MCUB) goal

# Proposed Action

- That the Metropolitan Council authorize its Regional Administrator to award and execute a contract to Polydyne, Inc. of Riceboro, GA to provide Clarifloc polymers CE-817 and CE-2179 at unit prices of \$0.12 per pound and \$1.00 per pound respectively delivered to the Metropolitan Wastewater Treatment Plant. This contract will be for a period of five years with the total procurement not to exceed \$15,100,000.

# Questions

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