



AGENDA MEMORANDUM

Action Item for the City Council Meeting September 17, 2024

DATE: September 17, 2024

TO: Peter Zaroni, City Manager

FROM: Wesley Nebgen, Director of Water System Infrastructure
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Supply Agreement for Sludge Dewatering Polymer

CAPTION

Motion authorizing execution of a one-year supply agreement, with two one-year options, with Polydyne Inc. of Riceboro, Georgia, in an amount not to exceed \$1,007,845.00, with a potential amount up to \$3,023,535.00 if the options are exercised, for purchase of sludge dewatering polymer, utilized by Corpus Christi Water (CCW), with FY2024 funding of \$83,987.08 from the Wastewater Fund.

SUMMARY:

This motion authorizes a one-year supply agreement with Polydyne, Inc. for sludge dewatering polymer. This chemical is necessary in the dewatering of digested sludge using belt filter presses and centrifuges at CCW's wastewater treatment plants as required by Texas Commission on Environmental Quality (TCEQ) compliance regulations. This contract is needed to supply sludge dewatering polymer, one of three major chemicals (sodium hypochlorite, sodium bisulfite, and polymer) for the wastewater treatment process.

BACKGROUND AND FINDINGS:

CCW operates six wastewater treatment plants with a combined permitted effluent flow of 43 million gallons per day, resulting in over 5,000 dry tons (40,000 cubic yards) of biosolids per year that must be disposed of at the Cefe Venezuela Landfill.

Polymers are commonly used in wastewater treatment to initiate the flocculation of solid

material, so it more easily separates from water. To make the dewatering process more efficient, CCW's wastewater treatment utilizes polymer at the belt presses and centrifuges to improve the dewatering characteristics of the sludge, improve efficiency and reduce its leach potential upon landfill disposal.

PROCUREMENT DETAILS:

Finance & Procurement conducted a competitive Request for Bids process to obtain bids for a new contract for sludge dewatering polymer for CCW. A total of 165 notices were sent to potential suppliers, and the City received one responsive, responsible bid. Staff is recommending the award to the incumbent, Polydyne Inc. This supplier has fulfilled contracts with the City since 2013 and is the manufacturer and distributor of this chemical.

The table reflects the cost comparison from 2022 to 2024.

Sludge Dewatering Polymer				
2022 Pricing Polydyne Inc.	2023 Pricing Polydyne, Inc.	2024 Pricing Polydyne Inc.	Price Variance 2023 to 2024	% Price Increase
\$1.61 per pound	\$1.61 per pound	\$1.67 per pound	\$.06 cents	4%

ALTERNATIVES:

An alternative to securing a long-term supply agreement is to purchase the sludge dewatering polymer through short-term supply agreements. This method may cause delays in the shipment of this chemical. In addition, the cost will depend on the market price at the time of purchase, which may be higher than a locked-in price obtained through a long-term agreement.

FISCAL IMPACT:

The fiscal impact for CCW for FY 24 is \$83,978.08 from the Wastewater Fund.

Funding Detail:

Fund:	4200	Wastewater
Organization/Activity:	33100	Broadway Wastewater Plant
Department:	46	Wastewater

Project # (CIP Only):	N/A	
Account:	520010	Purification Chemicals
Cost:	\$13,997.86	
Fund:	4200	Wastewater
Organization/Activity:	33110	Oso Wastewater Plant
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520010	Purification Chemicals
Cost:	\$13,997.86	
Fund:	4200	Wastewater
Organization/Activity:	33120	Greenwood Wastewater Plant
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520010	Purification Chemicals
Cost:	\$13,997.86	
Fund:	4200	Wastewater
Organization/Activity:	33130	Allison Wastewater Plant
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520010	Purification Chemicals
Cost:	\$13,997.86	
Fund:	4200	Wastewater
Organization/Activity:	33140	Laguna Madre Wastewater Plant
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520010	Purification Chemicals
Cost:	\$13,997.82	
Fund:	4200	Wastewater
Organization/Activity:	33150	Whitecap Wastewater Plant
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520010	Purification Chemicals
Cost:	\$13,997.82	

RECOMMENDATION:

Staff recommends approval of the motion authorizing this supply agreement with Polydyne Inc. as presented.

LIST OF SUPPORTING DOCUMENTS:

Bid Tabulation
Supply Agreement