

CONTRACT SUMMARY

CITY OF FORT LAUDERDALE
PROCUREMENT SERVICES DEPARTMENT

Period Covered: 9/8/10 – 9/7/11	Contract No.: 403-10605	Master Blanket: N/A
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Awarded Vendor:

Polydyne, Inc.
One Chemical Plant Road
Riceboro, GA 31323

Delivery: 10 Days ARO
Payment Terms: Net 30

Attn: Lawrence Grizzle
912-880-2035
Fax 912-880-2078
Email: polybidpdt@snfhc.com

Insurance Coverage Required: Yes No
Authorized for Purchases: Under \$25,000 Over
City Commission Approval: 9/7/10 Pur- 07 CAR 10-1177
Extension Options: Yes No Years: 3, 1 year extensions

SLUDGE DEWATERING POLYMER FOR GTL

Sludge Dewater Polymer, Clarifloc EA-025

\$ 0.85 / pound

Department Contract Co-Ordinator: Pat Long, Public Works, (954) 523-1002

Procurement Specialist: Robert McKenney, CPPB

THIS AGREEMENT, made and entered into this 7th day of September, 2010, is by and between the City of Fort Lauderdale, a Florida municipality, ("City"), whose address is 100 North Andrews Avenue, Fort Lauderdale, FL 33301-1016, and Polydyne, Inc., a Delaware corporation, authorized to transact business in the state of Florida ("Contractor"), whose address and phone are One Chemical Plant Road, Riceboro, GA 31323, Phone 912-880-2035, Fax: 912-880-2078.

WHEREAS, the City issued Invitation to Bid Number 403-10605 ("ITB"), and the Contractor submitted a bid in response to the ITB; and

WHEREAS, on September 7, 2010, the City Commission of the City of Fort Lauderdale approved an agreement with Contractor for the goods or services described in the ITB (Pur-07, CAR No. 10-1177),

NOW, THEREFORE, for and in consideration of the mutual promises and covenants set forth herein and other good and valuable consideration, the City and the Contractor covenant and agree as follows:

1. The Contractor agrees to provide to the City sludge dewatering polymer for GTL Waste Water Treatment Plant in accordance with and in strict compliance with the specifications, terms, conditions, and requirements set forth in the ITB and any and all addenda thereto beginning September 8, 2010 and ending September 7, 2011.

2. This contract form G-110 Rev. 01/10, the ITB, any and all addenda to the ITB, and the Contractor's proposal in response to the ITB are integral parts of this Contract, and are incorporated herein.

3. In the event of conflict between or among the contract documents, the order of priority shall be as follows:

First, this contract form, G-110 Rev. 01/10;

Second, any and all addenda to the City's ITB in reverse chronological order;

Third, the ITB;

Fourth, the Contractor's response to any addendum requiring a response;

Fifth, the Contractor's response to the ITB.

4. The Company warrants that the goods and services supplied to the City pursuant to this Contract shall at all times fully conform to the specifications set forth in the ITB and be of the highest quality. In the event the City, in the City's sole discretion, determines that any product or service supplied pursuant to this Contract is defective or does not conform to the specifications set forth in the ITB the City reserves the right unilaterally to cancel an order or cancel this Contract upon written notice to the Contractor, and reduce commensurately any amount of money due the Contractor.

5. The City may cancel this Contract upon written notice to the Contractor in the event the Contractor fails to furnish the goods or perform the services as described in the ITB within 30 days following written notice to the Contractor.

6. The Contractor shall not present any invoice to the City that includes sales tax (85-8012514506C-7) or federal excise tax (59-6000319).

7. Contractor shall direct all invoices in duplicate for payment to Finance Department, City of Fort Lauderdale, 100 N. Andrews Avenue, 6th Floor, Fort Lauderdale, FL 33301. Any applicable discount MUST appear on the invoice.

IN WITNESS WHEREOF, the City and the Contractor execute this Contract as follows:

CITY OF FORT LAUDERDALE
By: [Signature]
Director of Procurement Services

ATTEST
By: [Signature]
Print Name: Mark Schlag
Assistant Secretary

CONTRACTOR
By: [Signature]
Print Name: James R. Carlson
Title: Vice-President
(If not president of corporation please attach proof of authorization)

STATE OF GEORGIA
COUNTY OF LIBERTY

The foregoing instrument was acknowledged before me this 21 day of SEPTEMBER, 2010, by JAMES R. CARLSON as (title): VICE-PRESIDENT for Polydyne, Inc., a Delaware corporation, authorized to transact business in the state of Florida.

(SEAL)

[Signature]
Notary Public, State of Georgia
(Signature of Notary Public)

Pamela J. McDermitt
Notary Public
(Print, Type, or Stamp Commissioned Name of Notary Public)

Pamela J. McDermitt
Notary Public
My Commission Expires July 28, 2012

Personally Known OR Produced Identification
Type of Identification Produced _____

CONTRACT COPY

Polydyne Inc.

Bid Contact **Randal W Vickery**
polybiddpt@snfhc.com
Ph 912-880-2035

Address **One Chemical Plant Rd.**
Riceboro, GA 31323

Supplier Code 00002737

Item #	Line Item Notes	Unit Price	Qty/Unit	Total Price	Attch.	Docs
403-10605-1-01	Sludge Dewatering Polymer Supplier Product Code: Clarifloc EA-025 Which Polymer is your firm offering.: Clarifloc EA- 025	First Offer - \$0.85	350000 / pound	\$297,500.00	Y	Y
Supplier Total				\$297,500.00		

Polydyne Inc.

Item: **Sludge Dewatering Polymer**

Attachments

PDS and MSDS for Clarifloc EA-025.pdf

SNF POLYDYNE

CLARIFLOC[®] EA-025 POLYMER

PRINCIPAL USES

CLARIFLOC EA-025 is a medium charge cationic polyacrylamide in emulsion form that is used as a flocculant in a wide variety of municipal and industrial wastewater treatment applications. It has been successfully applied in all liquid/solids separation systems including clarification, thickening, and dewatering.

TYPICAL PROPERTIES

Physical Form	Clear to Milky White Liquid
Cationicity	50 %
Active Polyacrylamide Min.	41
Freezing Point	7 F. (-14 C.)
Flash Point	>200 F. (>93 C.)
Density	8.5 - 8.7 lbs/gal
Viscosity (0.5% Sol'n)	500 - 700 cPs

PREPARATION AND FEEDING

CLARIFLOC EA-025 is a single component emulsion polymer that must be pre-diluted in water before use. In most cases, this product should not be applied neat. One method for dilution is adding the neat polymer into the vortex of a mixed tank at a concentration between 0.25-1.0% polymer (0.5% is optimum) by weight. The polymer can also be injected through a number of commercially available systems that provide in-line mechanical mixing. The best feed systems use initial high energy mixing (>1000 rpm) for a short time (<30 sec) to achieve good dispersion followed by low energy mixing (<400 rpm) for a longer time (10-30 min). Polymer solutions should be aged for 15-60 minutes for best results. Solution shelf life is 8-16 hours.

MATERIALS OF CONSTRUCTION

Cross-linked polyethylene, fiberglass, stainless steel or lined steel are the preferred materials of construction for bulk tanks. Avoid natural rubber and Buna-N gaskets as these materials swell when placed in contact with neat polymer. Unlined mild steel, black iron, galvanized steel, copper or brass are not recommended in any part of the feed system. Stainless steel, Viton or Teflon are the best choices for pump heads. For feed lines, use PVC or reinforced Tygon tubing.

MANUFACTURING SPECIFICATIONS

Total Solids	46.5 - 53.5 %
Residual AcAm	< 1000 ppm
Neat Viscosity	500 - 2000 cPs
UL Viscosity	3.3 - 4.3 cPs

HANDLING AND STORAGE

Suggested in-plant storage life is 12 months in unopened drums. For best results, store at 50-80 F. Bulk tanks should be mixed by periodically recirculating the contents bottom to top. Bulk tanks can also be fitted with an agitator type mixer that reaches the bottom 2 feet of the tank. Drums and bins should be mixed very well before first use and weekly after that. Do not allow emulsion polymers to freeze. Should freezing occur, allow the product to thaw thoroughly in a heated area and mix well before attempting to use it. For spills of CLARIFLOC EA-025, sprinkle vermiculite or equivalent absorbant over the spill area and sweep the material into approved chemical disposal containers. Do not spray water onto a spill because the resulting gel is very difficult to clean up.

SAFETY INFORMATION

CLARIFLOC EA-025 is a mildly acidic product that can irritate the skin and eyes and should be handled accordingly. Gloves, goggles and apron are highly recommended. Anyone responsible for the procurement, use or disposal of this product should familiarize themselves with the appropriate safety and handling precautions involved. Such information is outlined in the POLYDYNE Material Safety Data Sheet. In the event of an emergency with this product, contact Chemtrec anytime day or night at (800) 424-9300.

SHIPPING

CLARIFLOC EA-025 Polymer is shipped in 55 gallon, lined steel drums containing approximately 450 pounds net or in 275 gallon nonreturnable tote tanks. Bulk quantities are also available.

ADDITIONAL INFORMATION

To place an order or obtain technical information from anywhere in the continental United States, call toll free:

(800) 848-7659

ALL STATEMENTS, INFORMATION AND DATA GIVEN HEREIN ARE BELIEVED TO BE ACCURATE AND RELIABLE, BUT ARE PRESENTED WITHOUT GUARANTEE, WARRANTY OR RESPONSIBILITY OF ANY KIND, EXPRESSED OR IMPLIED STATEMENTS OR SUGGESTIONS CONCERNING POSSIBLE USE OF OUR PRODUCTS ARE MADE WITHOUT REPRESENTATION OR WARRANTY THAT ANY SUCH USE IS FREE OF PATENT INFRINGEMENT, AND ARE NOT RECOMMENDATIONS TO INFRINGE ON ANY PATENT. THE USER SHOULD NOT ASSUME THAT ALL SAFETY MEASURES ARE INDICATED OR THAT OTHER MEASURES MAY NOT BE REQUIRED.

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Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name : CLARIFLOC (R) EA-025 POLYMER

Company : POLYDYNE INC.
Riceboro, GA 31323
PO Box 279
United States

Telephone : 1-800-848-7659
Telefax : (912)-884-8770
E-mail :

Emergency telephone number : 1-800-424-9300

Product Use : Processing aid for industrial applications.

2. HAZARDS IDENTIFICATION

Appearance and Odor

Form : Viscous liquid
Color : Milky
Odor : Aliphatic

Emergency Overview :

Spills produce extremely slippery surfaces.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Identification : Cationic water-soluble polymer in emulsion.

Regulated Components:

None.

4. FIRST AID MEASURES

Inhalation : No hazards which require special first aid measures.

Material Safety Data Sheet CLARIFLOC (R) EA-025 POLYMER

Skin contact : Wash off immediately with soap and plenty of water. In case of persistent skin irritation, consult a physician.

Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.

Ingestion : The product is not considered toxic based on studies on laboratory animals.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water. Water spray. Foam. Carbon dioxide (CO₂). Dry powder.

Precautions : Spills produce extremely slippery surfaces.

Special protective equipment for firefighters : No special protective equipment required.

Flash point : Does not flash.

Autoignition temperature : Does not ignite

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : No special precautions required.

Environmental precautions : As with all chemical products, do not flush into surface water. Do not contaminate water.

Methods for cleaning up : Do not flush with water. Dam up. Soak up with inert absorbent material. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling

Safe handling advice : Avoid contact with skin and eyes. When preparing the working solution ensure there is adequate ventilation. When using do not smoke.

Storage

Keep in a dry cool place (0 - 30 °C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Material Safety Data Sheet
CLARIFLOC (R) EA-025 POLYMER****Engineering measures**

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

Personal protective equipment

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection : Rubber gloves.

Eye protection : Safety glasses with side-shields. Do not wear contact lenses where this product is used.

Skin and body protection : Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

Hygiene measures

Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Viscous liquid

Color : Milky

Odor : Aliphatic

pH : 3-7 @ 5 g/l

Melting point/range : Not applicable

Flash point : Does not flash

Autoignition temperature : Does not ignite

Vapor pressure : 0.13 @ 20°C

Approx. bulk density : 1.04

Water solubility : See Technical Bulletin

10. STABILITY AND REACTIVITY

Stability : Stable. Hazardous polymerisation does not occur.

Materials to avoid : Oxidizing agents may cause exothermic reactions.

Hazardous decomposition products : Thermal decomposition may produce. Hydrogen chloride gas. Nitrogen oxides (NO_x). Carbon oxides (CO_x).

**Material Safety Data Sheet
CLARIFLOC (R) EA-025 POLYMER**

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Skin : The results of testing on rabbits showed this material to be non-toxic even at high dose levels.

Oral : LD50/oral/rat > 5000 mg/kg.

Inhalation : The product is not expected to be toxic by inhalation.

Irritation

Skin : May cause skin irritation with susceptible persons.

Eyes : May cause eye irritation with susceptible persons.

Sensitization : The results of testing on guinea pigs showed this material to be non-sensitizing.

Chronic toxicity : A two-year feeding study on rats did not reveal adverse health effects. A one-year feeding study on dogs did not reveal adverse health effects. Prolonged skin contact may defat the skin and produce dermatitis.

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Toxicity to fish : LC50/96 hours > 10-100 mg/l (OECD 203), (Based on the toxicity of the components using the Conventional Method).

Toxicity to daphnia : EC(I)50/Daphnia m./48 hours > 50 mg/L, (Based on the toxicity of the components using the Conventional Method).

Toxicity to algae : Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

Environmental fate

Hydrolysis : At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.

Other ecological information :

The effects of this product on aquatic organisms are rapidly and significantly mitigated by the presence of dissolved organic carbon in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Disposal : In accordance with local, state and federal regulations.

Container : Rinse empty containers with water and use the rinse water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local, state and federal regulations.

**Material Safety Data Sheet
CLARIFLOC (R) EA-025 POLYMER**

14. TRANSPORT INFORMATION

DOT

Not classified as dangerous in the meaning of DOT regulations.

IMDG/IMO

Not classified as dangerous in the meaning of IMO/IMDG regulations..

ICAO/IATA

Not classified as dangerous in the meaning of ICAO/IATA regulations..

15. REGULATORY INFORMATION

International Inventories

European Union (EINECS/ELINCS) : All components of this product are either listed on the inventory or are exempt from listing.

USA (TSCA) : All components of this product are either listed on the inventory or are exempt from listing.

Canada (DSL) : All components of this product are either listed on the inventory or are exempt from listing.

Canada (NDSL): All components listed on inventory.

Australia (AICS) : All components of this product are either listed on the inventory or are exempt from listing.

China (IECSC) : All components of this product are either listed on the inventory or are exempt from listing.

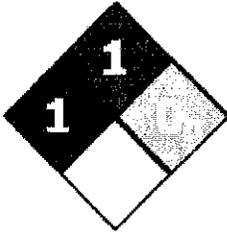
Japan (ENCS) : All components of this product are either listed on the inventory or are exempt from listing.

Korea (ECL) : All components of this product are either listed on the inventory or are exempt from listing.

Philippines (PICCS) : All components of this product are either listed on the inventory or are exempt from listing.

**Material Safety Data Sheet
CLARIFLOC (R) EA-025 POLYMER**

16. OTHER INFORMATION

NFPA and HMIS Ratings :**NFPA :**

Health :	1
Flammability :	1
Instability :	0

HMIS :

Health :	1
Flammability :	1
Physical Hazard :	0

This MSDS was prepared in accordance with the following :

ISO 11014-1: Material Safety Data Sheet for Chemical Products
ANSI Z400.1-2004; Material Safety Data Sheets - Preparation

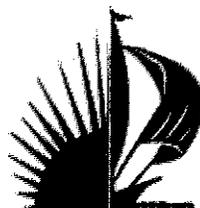
Contact : Regulatory Affairs Manager: (912)-880-8014

The data in this Material Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

***CITY OF FORT LAUDERDALE
SPECIFICATIONS PACKAGE***

403-10605

Sludge Dewatering Polymer for GTL



CITY OF FORT LAUDERDALE

Bob McKenney

954-828-5139

NON-COLLUSION STATEMENT:

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).

3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

NAME**RELATIONSHIPS**

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

BID/PROPOSAL SIGNATURE PAGE

How to submit bids/proposals: It is preferred that bids/proposals be submitted electronically at www.bidsync.com, unless otherwise stated in the bid packet. If mailing a hard copy, it will be the sole responsibility of the Bidder to ensure that the bid reaches the City of Fort Lauderdale, City Hall, Procurement Department, Suite 619, 100 N. Andrews Avenue, Fort Lauderdale, FL 33301, prior to the bid opening date and time listed. Bids/proposals submitted by fax or email will NOT be accepted.

The below signed hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal I will accept a contract if approved by the CITY and such acceptance covers all terms, conditions, and specifications of this bid/proposal.

Please Note: If responding to this solicitation through BidSync, the electronic version of the bid response will prevail, unless a paper version is clearly marked **by the bidder** in some manner to indicate that it will supplant the electronic version. All fields below **must** be completed. If the field does not apply to you, please note N/A in that field.

Submitted by: **Lawrence D. Grizzle 08/12/10**
(signature) (date)

Name (printed): **Lawrence D. Grizzle** Title: **Business Manager**

Company: (Legal Registration) **Polydyne Inc.**

CONTRACTOR, IF FOREIGN CORPORATION, MAY BE REQUIRED TO OBTAIN A CERTIFICATE OF AUTHORITY FROM THE DEPARTMENT OF STATE, IN ACCORDANCE WITH FLORIDA STATUTE §607.1501 (visit <http://www.dos.state.fl.us/>).

Address: **One Chemical Plant Rd.**

City: **Riceboro** State: **GA** Zip: **31323**

Telephone No. **(912) 880-2035** FAX No. **(912) 880-2078**

Email: **polybiddpt@snfhc.com**

Delivery: Calendar days after receipt of Purchase Order (section 1.02 of General Conditions): **within 10 days A.R.O.**

Payment Terms (section 1.03): **Net 30 Days, No Discounts**

Total Bid Discount (section 1.04): **N/A**

Does your firm qualify for MBE or WBE status (section 1.08): MBE WBE

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

<u>Addendum No.</u>	<u>Date Issued</u>
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VARIANCES: State any variations to specifications, terms and conditions in the space provided below or reference in the space provided below all variances contained on other pages of bid, attachments or bid pages. No variations or exceptions by the Proposer will be deemed to be part of the bid submitted unless such variation or exception is listed and contained within the bid documents and referenced in the space provided below. If no

statement is contained in the below space, it is hereby implied that your bid/proposal complies with the full scope of this solicitation. HAVE YOU STATED ANY VARIANCES OR EXCEPTIONS BELOW? BIDDER MUST CLICK THE EXCEPTION LINK IF ANY VARIATION OR EXCEPTION IS TAKEN TO THE SPECIFICATIONS, TERMS AND CONDITIONS. If this section does not apply to your bid, simply mark N/A in the section below.

Variances: **N/A**

revised 3-23-10