PIMA COUNTY
REGIONAL WASTEWATER RECLAMATION DEPARTMENT
DEPARTMENT SUBSTANTIVE POLICY

Substantive Policy Number: SPN2013-01

Responsible Division: Planning and Engineering

Effective Date: May 17, 2013

Date of next review: July 1, 2014

Approved: _____
Jackson Jenkins, Director

SUBSTANTIVE POLICY STATEMENT: RWRD List of Approved Products for Public Sanitary Sewer Conveyance Facilities

I. PURPOSE

This Substantive Policy Statement establishes a List of Approved Products for public sanitary sewer Conveyance Facilities. All name-brand products and trademark names were removed from the new 2012 Standards for the Design and Construction of Public Sanitary Sewers and are now referenced to the Pima County Regional Wastewater Reclamation Department List of Approved Products.

II. GENERAL PROVISIONS

Due to the dynamic nature of products and technologies, the use of a *List of Approved Products* allows the list to be updated as products are approved for use.

The attached List of Approved Products is to be posted on the RWRD website to accompany the 2012 Standards for the Design and Construction of Public Sanitary Sewers.

The Director of RWRD shall approve the List of Approved Products (LAP) for Public Sanitary Sewer Conveyance Facilities.

III. REVISIONS

The List of Approved Products may be revised periodically either as part of the annual review of the Engineering Design Standards and Standard Specifications and Details for Construction or as necessary to ensure best product performance and support for the efficient operations and maintenance of the Conveyance system.

Pima County
Regional Wastewater Reclamation Department

LIST OF APPROVED PRODUCTS

FOR SANITARY SEWER CONVEYANCE FACILITIES

Updated: May 3, 2013

Approved:

Jackson Jenkins	Director	5/17/13 Date
Eric Wieduwilt, P.E.	Deputy Director	May 7, 2013 Date
John Warner	Deputy Director	05-06-2013 Date

Preface

- This list is not to be construed as an endorsement of a particular product or vendor nor is it to be used by vendors or manufacturers for promotional purposes.
- The Pima County Regional Wastewater Reclamation Department (PCRWRD) does not have the obligation to use any products listed in the List of Approved Products (LAP).
- Contractors are not obligated to use the products listed herein but if an alternate product is substituted, it is the Contractor's responsibility to demonstrate that the substituted product meets or exceeds PCRWRD standards for construction of public sanitary sewer systems. If a listed product does not have a PCRWRD standard, it is the Contractor's responsibility to demonstrate to PCRWRD that any substituted product is functionally equivalent to the listed product.
- The LAP simply documents that the listed products have been tested, evaluated, or examined under PCRWRD standards for construction of public sanitary sewer systems, and have been found to meet those standards.
- This list is believed to be accurate as of the date of printing. Product specifications change, however, often without notice. It is the Contractor's responsibility to verify that each product is suitable for the given application and complies with the requirements of the *PCRWRD Standard Specifications and Details for Construction 2012* at the time of its intended use.
- PCRWRD makes no guarantee as to the availability of any of the products on the list. It is the Contractor's responsibility to check for product stock with sufficient lead-time to ensure that there are no project delays due to unavailability of materials.
- Please refer to the *PCRWRD Engineering Design Standards 2012, and the PCRWRD Standard Specifications and Details for Construction 2012*, for applications that reference the LAP.
- PCRWRD reserves the right to update the LAP without prior notice.
- PCRWRD is not liable for any incidental or consequential damages caused by using the data listed on the LAP or any revision of the LAP.
- PCRWRD does not warrant or guarantee any product listed herein.
- A current LAP can be downloaded from the PCRWRD web page or obtained from the PCRWRD Field Engineering office at 1313 South Mission Road, Tucson, Arizona 85713.
- The LAP is maintained by the PCRWRD Engineering Services Section and the Field Engineering group.
- Trade or manufacturer names which appear herein are cited only because they are considered essential to the objectives of the list.
- Any questions concerning this publication or its use should be directed to:

Attn: David Logue P.E.
PCRWRD Field Engineering
1313 South Mission Road
Tucson, Arizona 85713
(520) 740-2651 or David.Logue@pima.gov

TABLE OF CONTENTS

CATEGORY **PAGE**

A Trenching and Earthwork 1
A-1 Geotextiles 1
A-2 Pipe Marking and Locator Systems 1
A-3 Stabilized Surface Treatments 1

B Sanitary Sewer Pipe 1
B-1 Gravity Sewer Lines 1
B-2 Force Mains 2
B-3 Repair Couplings and Adapters 2
B-4 Other Pipe-Related Components 3

C Sanitary Sewer Manholes 3
C-1 Precast Manhole Components 3
C-2 Cured-in-Place Manhole Components 3
C-3 Interior Corrosion Protection 3
C-4 Other Manhole-Related Components 4

D Pumping Stations 5
D-1 Site Components 5
D-2 Pumps 5
D-3 Wet Well Components 5
D-4 Manifold Piping Components 5
D-5 Valves 6
D-6 Instruments and Controls 6

E Flow Management 7
E-1 Pipe Plugs 7
E-2 Stop Gates 7

A - Trenching and Earthwork

Category	Product Description	Model	Manufacturer
A-1	Geotextile for subsurface drainage	Geotex® nonwoven geotextile	Propex Operating Company, LLC. 1110 Market Street, Suite 300 Chattanooga, TN 37402 USA 800-621-1273 www.propexglobal.com
A-1	Geotextile for subsurface drainage	Mirafi® 140N	TenCate Geosynthetics 365 South Holland Drive Pendergrass, Georgia 30567 706-693-2226 www.tencate.com
A-2	Electronic marker disk	EMS Disk Markers 80630000273, 80611303548	3M Infrastructure Protection Division 6801 River Place Blvd. Austin, TX 78726-9000 800-426-8688 www.3M.com/dynatel
A-2	HCS cap housing for electronic marker disk	SMARTPlug™ PVC fitting for EMS Disc Marker	GPK Products, Inc. 1601 43rd St. NW Fargo, ND 58102 800-437-4670 www.gpk-fargo.com
A-2	Underground marking tape	HYTECH detectable tape	Northtown Company PO Box 2064 Huntington Beach, CA 92647 800-972-7274 www.northtowncompany.com
A-2	Underground marking tape	Detectable tape (5.0 mil)	Pro-Line Safety Products Company 1099 Atlantic Drive, Unit 1 • West Chicago, IL 60185 800-554-3424 www.prolinesafety.com
A-2	Underground marking tape	Terra Tape® detectable warning tape	Reef Industries, Inc. 9209 Almeda Genoa Houston, TX 77075 800-231-6074 www.reefindustries.com
A-2	Box and Cover for Force Main Test Station	Brooks 1-RT Flush	Farwest Corrosion Control Company 1480 West Artesia Blvd. Gardena, CaA 90248 www.farwestcorrosion.com
A-2	Box and Cover for Force Main Test Station	G5 Valve Box	Jenson Precast 4801 E. Wyoming Street Tucson, AZ 85706 520-748-1607 www.jensenprecast.com

B - Sanitary Sewer Pipe

Category	Product Description	Model	Manufacturer
B-1	Ductile Iron Pipe (DIP)	CL-350	Clow Water Systems Company 2266 South Sixth St Coshocton, OH 43812 800-800-6013 www.clowwatersystems.com
B-1	Ductile Iron Pipe (DIP)	CL-350	Griffin Pipe 1400 Opus Place, Suite 700 Downers Grove, IL 60515 630-719-6500 www.griffinpipe.com
B-1	Ductile Iron Pipe (DIP)	CL-350	Pacific States 1401 East 2000 South Provo, UT 84603 801-373-6910 www.pscipco.com

B-1	Ductile Iron Pipe (DIP)	CL-350	US Pipe P.O. Box 10406 Birmingham, AL 35202 866-347-7473 www.uspipe.com
B-1	Ductile Iron Pipe (DIP)	CL-350	Fast Fabricators, Inc. 6 Northwood Drive Bloomfield, CT 06002 860-769-6826 www.fastfab.com
B-1	Interior corrosion protection for Ductile Iron Pipe (DIP)	Novocoat SP-2000R	Ergon Armor Po Box 1639 Jackson, MS 39215-1639 877-982-7667 www.ergonarmor.com
B-1	Centrifugally Cast Fiberglass Reinforced Polymer Mortar (CCFRPM) Pipe	CCFRPM	HOBAS Pipe USA 1413 Richey Road Houston, TX 77073 www.hobaspipe.com
B-1	Polyvinyl Chloride Pipe (PVC)	Sani-21, SDR-35	Diamond Plastics Corporation 1086 N Thornton Casa Grande, AZ 85222 520-426-9486 www.dpcpipe.com
B-1	Polyvinyl Chloride Pipe (PVC)	SDR-35	CertainTeed Corporation 750 East Swedesford Road Valley Forge, PA 19482 610-341-7000 www.certainteed.com
B-1	Polyvinyl Chloride Pipe (PVC)	SDR-35, SDR-26	JM Eagle (PW Eagle) 5200 West Century Boulevard Los Angeles, California 800-621-4404 www.jmeagle.com
B-1	Polyvinyl Chloride Pipe (PVC)	SDR-35, SDR-26	Vinyltech Corporation 201 South 61st Avenue Phoenix, AZ 85043 602-233-0071 www.vtpipe.com
B-1	Polyvinyl Chloride Pipe (PVC)	SDR-35, SDR-26	North American Pipe Corporation 2801 Post Oak Blvd., Suite 600 Houston, TX 77056 713-840-7473 www.northamericanpipe.com
B-2	High Density Polyethylene Pipe (HDPE), DR-11	PP152-4710 DriscoPlex® 4100 IPS (PE4710)	Performance Pipe 5085 W. Park Blvd., Suite 500 Plano, TX 75093 800-527-0662 www.performancepipe.com
B-3	Compression Couplings	CC-441-442, FBE Coating	Smith-Blair 30 Globe Avenue Texarkana, AR 71854 www.smith-blair.com
B-3	Compression Couplings	Style 581 or RC 501 FBE Coating	Romac Industries, Inc. 21919 20th Avenue SE Bothell, WA 98021 800-426-9341 www.romac.com
B-3	Flexible Couplings	Type 1, Type D, Adjustable Reducing	Mission Rubber Co., LLC 1660 Leeson Lane Corona, CA 92879 800 854-9991 www.missionrubber.com

B-3	PVC joint adapter	581348-SWR	Specified Fittings, Inc. 1602 West Capistrano Ave Phoenix, AZ 85041 602-476-1057 www.specfit.com
B-4	Casing spacers/insulators for carrier pipe	Calpico Model PX Galvanized: M-6, M-8, M-12 Stainless Steel: M-6-SS, M-8-SS, M-12-SS	Calpico Inc. 1387 San Mateo Ave So. San Francisco, CA 94080 800-998-9115 www.calpicoinc.com
B-4	Casing spacers/insulators for carrier pipe and end seals		Advance Products & Systems, Inc. PO Box 60399 Lafayette, LA 70596 800-315-6009 www.apsonline.com
B-4	Casing spacers/insulators for carrier pipe and end seals		CCI Pipeline Systems 1058 O Neal Drive Breaux Bridge, LA 70517 www.ccipipe.com
B-4	Joint restraining systems		EBAA Iron Inc. Po Box 877 Eastland, TX 76448 www.ebaa.com

C - Sanitary Sewer Manholes

Category	Product Description	Model	Manufacturer
C-1	Precast Manhole Sections		Jenson Precast 4801 E. Wyoming Street Tucson, AZ 85706 520-748-1607 www.jensenprecast.com
C-1	Precast Manhole Sections		Hayden Concrete Products 7801 W. Tangerine Road Marana, AZ 85658 520-682-2528 www.haydenconcrete.com
C-1	Precast Manhole Sections		Olsen Precast 3044 South 35th Ave. Phoenix, AZ 85009 www.olsonprecastcompany.com
C-1	Joint sealants for precast manhole sections	Flexible Joint Gaskets ConSeal CS-102 or CS-202	Concrete Sealants, Inc. 9325 Ohio 201 Tipp City, OH 45371 www.conseal.com
C-1	Joint sealants for precast manhole sections	Polylok™ Butyl Sealant	Polylok™ Inc. 3 Fairfield Blvd. Wallingford, CT 06492 888-765-9565 www.polylok.com
C-1	Joint sealants for precast manhole sections	RAM-NEK® BUTYL-NEK®	Henry Company 999 North Sepulveda Blvd., Suite 800 El Segundo, CA 90245 310-955-9200 henry.com
C-1	Frames and covers	24-inch and 30-inch diameter	East Jordan Iron Works, Inc. 301 Spring Street PO Box 439 East Jordan, MI 49727 800-874-4100
C-1	Frames and covers	24-inch and 30-inch diameter Model 1264, 1296	Neenah Foundry 2121 Brook Avenue Neenah, WI 54956 www.nfco.com
C-1	Frames and covers	24-inch and 30-inch diameter Model 1264, 1296	Deeter Foundry P.O. Box 29708 Lincoln, NE 68529 www.deeter.com

C-1	Manhole Steps	Item #: 004-501, Prod: PS1; Item #: 004-501 Prod: PS1-PF; Item #: 004-505, Prod: PSI-DIS-DF; Item #: 004-506-DF, Prod: PSI-DIS-DF; Item #: 004-516, Prod: PS3-PFC	M.A. Industries, Inc. 303 Dividend Drive Peachtree City, GA 30269 www.maind.com
C-1	Manhole Steps		Lane International Po Box 925 10758 S.W. Manhasset Drive Tuatatin, OR 97062 www.laneinternational.com
C-2	Waterstop for flexible pipe materials		Green Streak 3400 Tree Court Industrial Blvd. St. Louis, MO 63122 www.greenstreak.com
C-2	Waterstop for flexible pipe materials		A-Lok Products Inc. 697 Main St. Tullytown, PA 19007 800-822-2565 www.a-lok.com
C-2	Waterstop for flexible pipe materials	Link-Seal® Modular Seals (EPDM), Model S-316	PSI/EnPro Industries 5605 Carnegie Blvd. Charlotte, NC 28209 7404-731-1500 www.linkseal.com
C-3	Interior Corrosion Protection Systems	Novacoat SC1100, SL100	Ergon Armor Po Box 1639 Jackson, MS 39215-1639 877-982-7667 www.ergonarmor.com
C-3	Interior Corrosion Protection Systems	Raven Lining	Cohesant Inc. 23400 Commerce Park Beachwood, OH 44122 216-910-1700 www.cohesant.com
C-3	Interior Corrosion Protection Systems	Polymer Coating	Sauereisen 160 Gamma Drive Pittsburgh, PA 15238-2089 412-963-0303 www.sauereisen.com
C-3	Interior Corrosion Protection Systems	HJ3 Carbon Fiber	HJ3 Composite Technologies LLC 4100 South Fremont Avenue Tucson, AZ 85714 520-322-0010 www.hj3.com
C-3	Interior Corrosion Protection Systems	Con Shield	ConShield 541 Tenth Street NW #233 Atlanta, GA 30318 877-543-2094 www.conshield.com
C-3	Interior Corrosion Protection repair	Coal tar epoxy	Carboline 1480 West Artesia Blvd. Gardena, California 90248 www.farwestcorrosion.com
C-4	Internal Drop Manhole System	Inside drop bowls and SS pipe brackets	Reliner® /Duran Inc. 53 Mt. Archer Rd. Lyme, CT 06371 860-434-0277 www.reliner.com
C-4	Non-shrink grout		L&M Construction Chemicals 14851 Calhoun Road Omaha, NE 68152 www.lmcc.com

C-4	Non-shrink grout		Metalcrete 4133 Payne Avenue Cleveland, OH 44103 440-526-5600 www.metalcreteindustries.com

D - Pumping Stations

Category	Product Description	Model	Manufacturer
D-1	Exterior paint-coating systems for stucco, masonry, wood and metal applications	Varies	Sherwin Williams 2125 Oak Grove Road Suite 324 Walnut Creek, CA 94598 www.sherwin-williams.com
D-1	Metal framing system for master control center	P3000, 1-5/8" channel	Unistrut 2613 W. Birchwood Circle Mesa, AZ 85009 480-966-0049 swsales-az-nv.com
D-1	Safety Shower and Eyewash Systems	HAWS MODEL 8330FP	Haws Corporation 267 Winfield Circle Corona CA, 92880 951-371-8685 www.hawsco.com
D-2	Duplex submersible wastewater pumps	Varies	Flygt 1133 Westchester Avenue White Plains, NY 10604 914-323-5700 www.flygt.com
D-2	Duplex submersible wastewater pumps	Varies	Fairbanks Nijhuis 3501 Fairbanks Ave. Kansas City, KS 66106 913-371-5000 www.fairbanksnijhuis.com
D-3	Fixed ladder systems	Safrail™ Fiberglass ladder and cage systems	Strongwell 1610 Highway 52 South Chatfield, MN 55923-9799 507-867-3479 www.strongwell.com
D-3	Level Transducer	XPS-10/15 F Series	Siemens Milltronics Process Instruments Inc. 1954 Technology Drive, PO Box 4225 Peterborough, ON.Canada K9J7B1 705-745-2431 www.milltronics.com
D-3	Access hatches	Aluminum and stainless steel, single and double leafs	The Bilco Company P.O. Box 1203 New Haven, CT 06505 203-934-6363 www.bilco.com
D-3	Concrete fasteners inside wet wells	KB-TZ SS316 stainless steel expansion anchor	Hilti, Inc. 5400 South 122nd East Avenue Tulsa, OK 74146 800-879-8000 www.us.hilti.com
D-4	Exterior Epoxy Coating for exposed metal piping (vents and manifolds)	Bar-Rust 233H, Devthane 379	International Paint Pittsburg Airport Bus. Park Bldg 1 Suite 140, 181 Spring Run Rd Coraopolis, Pittsburgh, PA 15108 724-457-7657 www.international-pc.com
D-4	Exterior Alkyd Enamel Paint for exposed metal piping (vents and manifolds)	Tnemec Series N69 and 1075	Tnemec 6800 Corporate Drive Kansas City, MO 64120 www.tnemec.com

D-4	Bypass port connection – cam and groove quick disconnect	Kamlok coupling, type 316 SS	OPW Engineered Systems 2726 Henkle Drive Lebanon, Ohio 45036 www.opw-es.com
D-4	Grooved Couplings for Pig launching cap (and other non-live operating pressure applications)	AGS flexible coupling	Victaulic 4901 Kesslersville Road Easton, PA 18040 610-559-3300 www.victaulic.com
D-5	Air valves	Wastewater air/vacuum valves (SS T-316)	A.R.I Flow Control Accessories Kibbutz Kfar Charuv, 12932 Israel 630-941-7600 www.arivalves.com
D-5	Check valves	APCO Rubber Flapper Swing Check Valves (CRF), APCO Swing Check Valves (CVS)	DeZURIK 250 Riverside Avenue North Sartell, MN 56377 320-259-2000 www.dezurik.com
D-5	Check valves	7800 Swing Check Valve	Val-Matic Valve & Manufacturing Corporation 905 Riverside Drive Elmhurst, IL 60126 630-941-7600 www.valmatic.com
D-5	Isolation valves	DeZURIK 100% Port Eccentric Plug Valves (PEF)	DeZURIK 250 Riverside Avenue North Sartell, MN 56377 320-259-2000 www.dezurik.com
D-5	Isolation valves	DeZURIK GKU Unidirectional Knife Gate Valves	DeZURIK 250 Riverside Avenue North Sartell, MN 56377 320-259-2000 www.dezurik.com
D-5	Isolation valves	Resilient Wedge Gate Valve, AFC	American P.O. Box 2727 Birmingham, AL 35202 www.american-usa.com
D-6	Magnetic flow meters	Sitrans F M MAG 5100 W	Siemens 80333 Munich Germany 49-89-636-00 www.siemens.com
D-6	Magnetic flow meters	Promag D, Promag L	Endress+Hauser, Inc. 2350 Endress Place Greenwood, IN 46143 888-363-7377 www.us.endress.com
D-6	Pressure gauges	Duragage – 4.5"	Ashcroft Inc. 250 East Main Street Stratford, CT 06614-5145 800-328-8258 www.ashcroft.com
D-6	Pressure gauge/Annular Seal	Red Valve Series 40, 0-100 psi, Buna-N sleeve	Red Valve Company 600 N. Bell Ave., Bldg. 2 Carnegie, PA 15106 (412) 279-0044 www.redvalve.com
D-6	Pump station control panel box	NEMA Type 4X	Hoffman 2700 Broadbent Parkway NE Albuquerque, NM 87107 505-343-9580 www.hoffmanonline.com

E - Flow Management

Category	Product Description	Model	Manufacturer
E-1	Bypass pipe plugs	Pneumatic pipe plugs	Spill Source LLC. 1598 Highway 16 North Denver, NC 28037 866-610-3596 www.spillsource.net
E-2	Stop Gates		Rodney Hunt Co. 46 Mill Street Orange, ME 01364 800-448-8860 www.rodneyhunt.com