

CITY OF SARASOTA, FLORIDA

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LIST

PLEASE TYPE OR PRINT CLEARLY IN BLACK INK

Project Name: _____

Contract / Bid Number: _____ Work Assignment Number: _____

Contractor's Name: _____

Contractor's Address: _____

Contractor's Signature: _____

For City Use Only

(Refer to Section 01300 – Submittals)

Engineer: _____ Date: _____

Reviewed, No Comments: _____

Reviewed, Comments as Noted: _____

Reviewed, Comments Attached – Resubmit: _____

Rejected, Revise and Re-submit, Comments Attached: _____

Not Reviewed: _____

City Project Manager: _____ Date: _____

Comments:

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LIST

With the submission of this document, the CONTRACTOR understands that the use of the following selected items, as individually indicated using an "X", is mandatory. The materials included in this list are approved for reclaimed or reuse water service only.

Recommendations for Approved Alternates, using other items that are not contained within this Checklist, shall be initiated, and submitted by the CONTRACTOR, in accordance with Section 00800-General Provisions, to the CITY and the ENGINEER for review and approval at least ten (10) calendar days in advance of need.

It is also understood by the CONTRACTOR that the CITY and the ENGINEER shall reject materials and products not in accordance with this Specifications and this Checklist.

Shop drawings shall be required for all structures and similar items not contained on this checklist, such as manholes, wet wells, and other castings.

Four (4) sets of the CONTRACTOR's and the ENGINEER's executed APPROVED MATERIALS CHECKLIST and any necessary shop drawings shall be submitted to the CITY and the ENGINEER for its use and approval, plus the number of sets needed for the CONTRACTOR's use.

Ordering material and products without specific written approval from the CITY of the submitted list and shop drawings is NOT recommended and is done at the CONTRACTOR's sole expense and responsibility.

NOTE: The latest changes approved by the CITY are indicated by "underlining" and deleted items by "~~strikethroughs~~".

American Iron and Steel, Buy American Act, or any procurement requirements identified in the contract documents shall take precedence over the materials listed in this checklist.

CONTENTS**Section 1: Valves and Accessories****Section 2: Service Materials****Section 3: Pipe Materials and Accessories****Section 4: Pipe Fittings****Section 5: Metalwork****Section 6: Finishes****Section 7: Equipment**

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LIST

SECTION 1: VALVES AND ACCESSORIES

Automatic Combination Air / Vacuum Release Valve:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
H-Tec	Model 986, 989, 990	Short Body for 989
Val-Matic	100 Series	
ARI	D-040	

Air / Vacuum Release Valve Enclosure (Horizontal Venting and Purple):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Water Plus	107-B	

Air Vacuum / Release Valve Vault Frame and Cover:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
US Foundry	USF-679-BK-M	
Certain Teed	Pamrex 36"	<u>Alternative – Not to be Used in Paved Driveway</u>

Blow Off Valve:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Mueller	Hydro Guard HG-2	2-Inch Inlet, no lead brass Low profile green enclosure

Gate Valves 16-Inch through 48-Inch (C-515, Resilient Seated, with Side Actuators, if required):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
American	Series 2500	with Romac Alpha Ends or MJ
Mueller	A-2361 Series	
McWane/Clow	F-6100 Series	

Check Valves:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Kennedy		
Mueller		
Val-Matic	Swing Check Valve	

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LISTTapping Valves (C-515, Resilient Seated Only):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
American Flow Control Mueller	Series 2500 T-2361	

Insertion Valves:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
TEAM Hydra-Stop	Insert Valve 4" – 12" IV-250 / IVP-250	

Test Station Box for Locate Wiring:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Bingham / Taylor	PB200NFG	

Valve Box with Lids (5 ¼ - Inch, ASTM A48 30B Heavy Duty Cast or Ductile Iron, with "REUSE OR RECLAIMED" Cast into the Lid Top, Lids Must be Locking for Sidewalk Use) Domestic Only:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tyler / Union Bingham & Taylor	461-S, 462-6850, 6860 15B20, 15B18	Must be Cast in USA

Valve Box Stabilizer (Purple):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Bingham & Taylor	ADP9007	

Valve Box Debris Cap:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Bingham & Taylor	ODSDEBRISP512B	

SECTION 2: SERVICE MATERIALS

Service Saddles (Bronze Body or Stainless Steel, FIP Thread Only):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Mueller	BR2B Series	

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LISTService Saddles (Bronze Body or Stainless Steel, FIP Thread Only) (Continued):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Ford	202 BSD, 202B	
JCM	406	
Total Piping Solutions	Series T	

Curb Stops / Service Line (Curb Stop to be Ball Type, FIP x CTS, FIP x Quick Joint, Must have Locking Wing, 1-Inch or 2-Inch Only):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Ford	B41-444W-Q-NL B41-777W-Q-NL	
Mueller	B257171N	
A.Y. McDonald	76102WQ1, 76102WQ2	

Curb Stop for ARV or Main (Curb Stop to be Ball Type, FIP x FIP, 1-Inch or 2-Inch):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Ford	B11-444W-NL B11-777W-NL	
Mueller	B-20283N	
A.Y. McDonald	76101W	

Corporation Stops for Service Line (Ball Type, MIP x CTS, MIP x Quick Joint, Iron Pipe Thread Only):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Ford	FB1100-4-Q-NL FB1100-7-Q-NL	
Mueller	B25028N	
A.Y. McDonald	74704BQ1 74704BQ2	

Corporation Stops for Brass Nipple Installation (Ball Type, MIP x FIP, Iron Pipe Threads Only):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Ford	FB1700-7-NL	
Mueller	B-20046N	
A.Y. McDonald	73149B	

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LISTPolyethylene Tubing (Purple in Color with UV Protection, SDR-9, 1-Inch and 2-Inch Only):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Endot	PE-4710 EndoPure	
Endot	PE-4710EndoTrace	Alternative Pipe and Tracer Wire Combo
Charter Plastics	PE-4710	
ARNCO	PE-4710 Perma-Guard	
ARNCO	PE-4710 Perma Find	Alternative Pipe and Tracer Wire Combo
ADS	PolyFlex	

Meter Box (Small Plastic with Cast Iron Reader Door):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Highline	170113	

Meter Box (Jumbo Plastic with a 4" x 4" CI Reader Door):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
DFW Plastics	DFW160.12	

Meter Box (Cast Iron, Oval, Purple Lid):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Star Pipe Products	MBD 1910	Made in the USA

Meter Box (Composite, Straight Wall, Cast Iron Reader Lid, Bolt Down Lid, 2 Mouse Holes, Tier 22):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
CDR	17x30 – PG1730HOO 11x18 – A6001429HDA	

SECTION 3: PIPE MATERIAL AND ACCESSORIES

FRPM (Fiberglass Reinforced Polymer Mortar) Pipe:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
HOBAS Pipe USA, Inc.	Filament Wound Pipe	

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LIST

PVC Pipe (AWWA C-900, Purple in Color, DR-18):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Bristolpipe		
Certaiteed		Certa Lok to be used as approved by COSUD
Diamond Plastic		
IPEX		

PVC Pipe (AWWA C-900, Purple in Color, DR-18) (Continued):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
J-M Manufacturing		
National Pipe		
NAPCO (North American Pipe Company)		
ADS	Polyflex	

Ductile Iron Pipe Cement Lined (4-Inch to 12-Inch = PC 350, 16-Inch to 20-Inch = PC 250, 24-Inch to 64-Inch = PC 200) (DI Flanges as Applicable, AWWA C115):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
American		
Clow		
Griffin		
McWane		
US Pipe		

HDPE Pipe (DR-11, Purple Striped):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Driscopipe	Series 1000	
Chevron	Plexco	

Casing Spacers (All Sizes) Stainless Steel with Vinyl Runners:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Cascade	Series CCS / CCPS / AZ	
RACI	Series S/T, F/G, P/Q, M/N, E/H	
BWM	SS	

Reclaimed Water Main Identification Tape (Purple, 6-Inches Wide, 2-Inch-High Black Lettering, Adhesive Backed):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
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APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LIST

Pro-Line

Buried Reclaimed Water Main Warning Tape (Purple, 3-Inches Wide, 1-Inch-High Black Lettering, Non-Adhesive Backed):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Copperhead	1230 HS	Open Cut Installation
Copperhead CCS (reinforced tracer wire)	1245 EHS	HDD Installation

Locating Marker Systems (Reclaimed Water, Purple in Color):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
3M	Scotch Mark EMSII Electronic Marker Purple Locator #1265	As required by COSUD
3M	Scotch Marker Electronic Ball Marker # 1404	As required by COSUD

Curb and Pavement Markers (Purple in Color, Imprinted with the Words "CITY OF SARASOTA UTILITIES" and "CALL 811 BEFORE YOU DIG" with "RECLAIMED WATER SERVICE" or "RECLAIMED WATER VALVE" as Applicable):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Rhino	ATAGNCT-C (Custom Imprinting)	New Construction
Rhino	ATAGRFT-C (Custom Imprinting)	Retrofit to Existing Improvements
DAS Manufacturing	Reflective Duracast Style (Custom Imprinting)	New Construction or Retrofit

SECTION 4: PIPE FITTINGS

Expansion Joint:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
EBAA Iron		
Metraflex		
Star	Star Flex Series 5000, 5100, and 5200	

Fittings C153 SSB / C110 Flange (Cement Mortar Lined and Asphaltic Coated In Accordance With C104) (Outside Surfaces Shall Be Prime Coated Only if Located Aboveground And Painted):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
American Tyler / Union		Romac Alpha or MJ Ends

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LIST

US Pipe
Sigma
Star
SIP Industries

Restrained Joints – Ductile Iron Pipe:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
American Fast Grip US Pipe	Flex, Field Flex, and Lok Ring TYTON®, HDSS	

Mechanical Restrained Joints – Ductile Iron Pipe:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
EBAA Iron Inc.	Mega-lug Series 1100 Series 1700 Bell Restrainer Series RS-3800 Restrainer	Sleeve Included
Sigma Star	One LOK SLD and PV LOK Stargrip Series 3000, 3000S And 3000OS Series 3100S and 3100P Flange Adapter Series 200 & 400 Retainer Gland Series 600 1200 PVC Adapter Flange Series 3200 PVC	
Tyler / Union	Tuf Grip TLD Series	For DI pipe use

Restrained Joints – PVC Pipe:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
EBAA Iron Inc.	Mega-Lug Series 2000PV Series 1500 and 1600 Bell Restrainer (4-Inch to 12-Inch) Series RS-3800 Restrainer	Sleeve Included
JCM	620 Sur-Grip Bell Joint 621 Sur-Grip Bell Joint	

APPENDIX A-3

**RECLAIMED WATER
APPROVED MATERIAL LIST**

Ford	Uni-Flange 1350, 1360, 1390 Bell Restrainer 900 Adapter Flange 1300 Fitting Restrainer 1500 Series
Sigma	One LOK SLC PV LOK Series PVP and PVPF

Restrained Joints – PVC Pipe (Continued):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Star	PVC Stargrip Series 4000 And 4000P PVC Harness Series 1000, 1100, and 120 Adapter Flange Series DI 4200 Adapter Flange Series 200 And 400	
Tyler / Union SIP	Tuf Grip TLP Series EZ Grip	For PVC pipe use

Tapping Sleeves (For All Taps on IPS OD PVC pipe, Including Size on Size (18-8 Type 304 Stainless Steel Body, Flange and Bolts) Flange to Accept Standard Tapping Valves):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Ford	Series FTSS	
JCM	Model 432	
Mueller	Series H-304 S/S	
Cascade	CTS-EX	

Tapping Sleeves (Mechanical Joint for All Taps on Cast Iron, PVC-900 & All Taps Including Size on Size):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
American Flow Control	Series 2800	
Mueller	Series H-615, H-616, H-619	

Tapping Sleeves (Fabricated Steel, Mechanical Joint, Fusion Bonded Epoxy Coated):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
JCM	Series 414	

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LISTFlange Adapters:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Rockwell International	Type 913	
Baker	Type 602	
Dresser International	Type 128	
Smith Blair	Series 900	

Anti-Seize Lubricant:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Never Seize		
Bostik		

Pipe Repair / Transition Couplings:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Romax	Alpha	4" – 12" PVC/DI/HDPE to PVC/DI/HDPE

Line Stop Fittings (Check with line stopping contractor for insertion plug type):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Hydra Stop	HSF 250	
Total Piping Solutions	Triple Tap	
JCM	440	4"-8" Stainless Steel Body

Line Stop Fittings (check with line stopping contractor for insertion plug type):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
JCM	440	4"-8" stainless steel Body and hardware, DIP Completion pugs, carbon Steel bind flange (epoxy Coated) 10"-20" fabricated steel (epoxy coated) body, carbon Steel flange, stainless hardware DIP completion plugs, epoxy coated bind flange

Pipe Repair Clamps:

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LIST

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
JCM Smith Blair Total Piping Solutions	Quick Cam	

SECTION 5: METALWORK

Hatches – Gutter Type:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Bilco Halliday Products, Inc. Babcock-Davis		

Hatch Nets:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Safe Approach	Hatch Net 121	

Anti-Seize Lubricant:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Anti-Seize Technology Dixon Ticonderoga	Pure White AS-470	

Glass Capsule Polyester Resin Adhesive Anchor:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Hilti HVA Cobra Anchors		

Expanding-Type Anchors:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Trubolt Anchors McCulloch Industries	ITW Ramset/Redhead Kwick-Bolt	

Impact Anchor:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Hilti, Inc.	Metal Hit Anchors	

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LIST

Rawplug Company

Rawl Zamac Nailin

Coating:Manufacturer

Sherwin-Williams

Part Number

Zinc-Clad XL

CommentsCoatings (Continued):Manufacturer

Alvin Products

Part Number

Galvax

Comments

ZRC Worldwide

Galvite

SECTION 6: FINISHES

Paint:Manufacturer

Tnemec

Part NumberComments

Carboline

Ameron

International Coating, Inc.

Epoxy Polyamide Filler:Manufacturer

Tnemec

Part Number

54-660

Comments

Topcoat

Ameron Nu-Klad

Epoxy Block Filler

105

Keeler & Long

Kolor No. 3400

Epoxy Polyamide:Manufacturer

Tnemec

Part Number

66-Color H.B. Epoxoline

Comments

Carboline

890

Ameron

Amercoat

Keeler & Long

Kolor-Poxy Primer No. 3200

Bond Coat:Manufacturer

Kop-Coat

Part Number

Bitumastic No. 300-M

Comments

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LIST

Keeler & Long CT 400

Coal Tar Epoxy:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Kop-Coat	Bitumastic No. 300-M	

Coal Tar Epoxy (Continued):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Keeler & Long	CT 400	

Conditioner:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Kop-Coat	Bitumastic 2CB	
Keeler & Long	CT 300	

Acrylic Coating:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	Series 130-6602 Envirofill	
Carboline	Flexxide	
Keeler & Long	6440	

Acrylic Emulsion:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	Series 180 WB Tneme-Crete	
Carboline	D3359	
	Aqua-Kolor Enamel W-2 Series	

Ferrous Metal Epoxy Polyamide Primer:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	66-1211 Epoxy Primer	
Carboline	893 Primer	
Ameron	Amercoat 71	
Keeler & Long	Kolor-Poxy Primer No. 3200	

Aliphatic Polyurethane:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	72-Color Endura	

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LIST

Carboline	134
Ameron	Amercoat
Keeler & Long	Acrythane Enamel

Aliphatic Polyurethane (when using roller):

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	70	
Carboline	134 (for roller)	
Ameron	Amershield	
Keeler & Long	Acrythane Enamel Y-1 Series	

Epoxy Polyamide:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Theme	140-1211 Porta-Pox Plus	
Kop-Coat	340 Gold Primer	
Carboline	187 Primer	
Ameron	Amercoat 71	
Keeler & Long	Kolor-Poxy Primer No. 3200	

Epoxy Amine-Cure:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	104	
Carboline	187 Finish	Use 187 primer when not using shop primer

Galvanized Steel Coating Wash Primer and/or Epoxy Polyamide:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	66-Color H.B. Epoxoline	
Carboline	Rustbond Primer/Sealer	
Ameron	Amchem Galvaprep	On Galvanized Steel
	Amchem Aiodine 1200 plus	On Aluminum
Keeler & Long	Vinyl Butyral Wash Primer	
	No. 7840 plus Kolor-Poxy	
	Primer No. 3200	

Aliphatic Polyurethane:

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LIST

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	72 Color Endura Shield 11	
Kop-Coat		
Carboline	Carbothane 134 H.S.	
Ameron	Amercoat 450 GL	
Keeler & Long	Acrythane Enamel Y-1 Series	
<u>Aliphatic Polyurethane Gloss (when using roller):</u>		

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	70 Color Endura Shield	
Kop-Coat		
Carboline		
Ameron	Amershield	
Keeler & Long	Acrythane Enamel Y-1 Series	

Alternate Coating Systems:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Carboline	Galvanox Type 1	
Keeler & Long	No. 6820	

Zinc Chromate Primer:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Carboline	1037WP	
Keeler & Long	Vinyl-Butyral Wash Primer No. 7840	

Aluminum Pigmented Epoxy Paint:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Carboline	Cabomastic 90	
Keeler & Long	Kolormastic No. 1000	

Coal Tar Epoxy, High Build:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tnemec	45H-413	
Kop-Coat	Bitumastic No. 300-M	
Ameron	Amercoat 78HB	
Keeler & Long	CT 400	

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LISTQuality Control:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Tinker & Rasor K-D Bird Dog Holiday Detector		

SECTION 7: EQUIPMENT

Mechanical Seals:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
John Crane Pak Seal Chesterton	Type 128	

Gaskets and Packings:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Garlock John Crane	No. 432 Everseal	

Plate Thrust Bearings:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Kingsbury		

Centrifugal Pumps:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Flowserve Goulds Aurora Floway		

Vertical Turbine Pumps:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Flowserve Ruhrpumpen Floway Peabody		

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LIST

Weir

Peristaltic Metering Pump:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Flowrox	FXMS	

Diaphragm Metering Pumps:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Grundfos		

Tools:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Snap On		
Crescent		
Stanley		

Annulus Fluid Expansion Tank System:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Hydro-Air Systems, Inc.		

Primer:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Koopers	Plug Primer 40 Passivator	

Coating:

<u>Manufacturer</u>	<u>Part Number</u>	<u>Comments</u>
Wisconsin Protective Coating Corporation	9051 Hi-Resistant Heavy Build Protective Coating	

APPENDIX A-3

RECLAIMED WATER
APPROVED MATERIAL LIST