



Memo

TO: Public Works Committee
FROM: Ed Andrews, Public Works Director
DATE: December 28, 2017
SUBJECT: WTP#1 Pressure Vessel / Filter Rehab

Staff has been working developing a rehabilitation scope for quotation from both All Service of Decatur, IL and River City Construction of East Peoria for budgeted repairs to the pressure vessels at WTP#1. This involve both media replacement and tank rehabilitation.

CMT's earlier plant evaluation identified this as needed repair and consequently, we budgeted \$300,000 for undertaking some (or all) of these repairs. CMT felt that this work would be considered maintenance and not require a full bid / contract package.

All Service has prepared a filter rehab quotation, assuming no concentration in the removed filter media of materials requiring special landfill requirements. River City has been pulling together a similar quotation and have included Northern Filter Media.

The City is also still obtaining pricing from PDC to run these tests directly for the City.

Both Contractors have proposed that any tank welding / rehabilitation would be under a time materials basis.


While some of this budget has been allocated to help fully fund the, staff feels that the remaining portion of this budget (approximately \$150k) should be started yet this year to at least establish a baseline cost of rehab per vessel.

This matter has been placed on the agenda for the Public Works Committee of January 2, 2018 for review and discussion.

cc: File

**CAPITAL IMPROVEMENT PLAN
PROJECT REQUEST FORM
FY17-18 THROUGH FY21-22**

Project Title: Water Treatment Plant #1 - Filter Rehab	Project Type: Water
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Project Description/Location:	
Rehabilitation of the filter media at Water Treatment Plant #1 is required. Work involves replacement of all the media and welding repairs.	

Justification: Change out of the filter media should occur every 5 to 10 years, estimated that this has been > 10 years. Backwash of filter media is taking longer than normal, reducing efficiency of plant. Vessels are original to plant, backwash creates scour within vessel and reduces metal thickness.	Project Prioritization: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Criteria</u></th> <th style="text-align: right;"><u>Score</u></th> </tr> </thead> <tbody> <tr> <td>Stewardship of Tax Dollars</td> <td style="text-align: right;">11</td> </tr> <tr> <td>Service Delivery</td> <td style="text-align: right;">13</td> </tr> <tr> <td>Quality of Life</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Legal/Contractual Oblig.</td> <td style="text-align: right;">0</td> </tr> <tr> <td>Health/Safety</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Project Score:</td> <td style="text-align: right;">30</td> </tr> </tbody> </table>	<u>Criteria</u>	<u>Score</u>	Stewardship of Tax Dollars	11	Service Delivery	13	Quality of Life	3	Legal/Contractual Oblig.	0	Health/Safety	3	Project Score:	30
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Cost Summary: Prior Yrs Cost 17-18 \$300,000 18-19 _____ 19-20 _____ 20-21 _____ 21-22 _____ Future _____ TOTAL COST: \$300,000	Schedule: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Phase</th> <th rowspan="2">Prior Yr.</th> <th colspan="6">Fiscal Year</th> <th rowspan="2">Future</th> </tr> <tr> <th>17-18</th> <th>18-19</th> <th>19-20</th> <th>20-21</th> <th>21-22</th> </tr> </thead> <tbody> <tr> <td>Arc. & Eng.</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Acquisition</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td>Construction</td> <td align="center"><input type="checkbox"/></td> <td align="center"><input checked="" type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> <td align="center"><input type="checkbox"/></td> </tr> <tr> <td colspan="8"><i>Comments:</i></td> </tr> </tbody> </table>	Phase	Prior Yr.	Fiscal Year						Future	17-18	18-19	19-20	20-21	21-22	Arc. & Eng.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acquisition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Comments:</i>							
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Item	Cost	Notes/Assumptions
A. Feasibility Study (if applicable)		
B. Conceptual Design (if applicable)		
C. Engineering & Design		
D. Land Acquisition (sum D1, D2, D3)		
D1. Land Cost	\$ -	
D2. Engineering	\$ -	
D3. Legal	\$ -	
E. Utility Relocation		
F. Construction (sum F1 & F2)		
F1. Construction Cost	\$ 285,000	
F2. Contingency	\$ 15,000	
G. Construction Management/Inspection		
H. Equipment (tools, furnishings, etc.)		
I. Inflation (F+H X .03)/year		
J. Other - explain:		
Total Project Cost:	\$300,000	

Project Financing:	
Source(s): Water Fund - Reserves Amount: \$300,000	Details:

Responsible Staff/Department: EA / Public Works - Water

← All Service
Media Only →



To: Tim Randall

Re: Complete filter rehab

At: Washington IL.

All Service Contracting Corp. (A.S.C.C.) is pleased to offer the following.

#1. Remove existing media from (5) filters that measure 10' in diameter for a total complete filtering surface area of 392.5 SQ.FT. total.

#2. Lay protective barrier around and on the tanks.

#3. Remove media via. a vacuum truck and hose.

#4. All media will be dumped into roll-off containers provide with liners and disposed of by A.S.C.C.

#5. Power -wash inside of each tank with a 3,600 PSI. power- washer.

#6. Inspect inside of each tank.

#7. Report findings to owner.

SCOPE: Anthracite supplied and Installed.

#1. Install (9'') of #4 Anthracite, (9'') # 2 Anthracite, (18 ½'') # 1 Anthracite.

#2. Each layer shall be placed and leveled prior to placement of the next layer. For sizes (1/2'') and smaller workers shall perform all duties on walk boards made of NSF. Certified material.

#3. Upon completion of the Anthracite the owner shall perform a backwash until clean.

#4. Owner shall drain water below the anthracite surface.

#5. A.S.C.C. will then skim a (1/2'') To remove any fines that may be present. Final depth shall be 18''.

#6. A.S.C.C. will then chlorinate filters.

#7. Bacterial testing done by the city.

SCOPE: By Others. (City of Washington IL.)

#1. (2) Filters back washed and drained upon arrival 9 AM.

#2. Operation of all valves.

#3. Back washes in a timely manner.

#4. Electricity for work lights or any hand tools that may be required.

#5. Bacterial testing of (5) filters.

#6. Unlimited hours of work. (Usually 10-12 per day)

#7. Bathroom facilities. (TO BE KEPT CLEAN BY A.S.C.C.)

NOTE: Our price below is for LOW level radium 226&228 removal and disposal. If for some reason test results come back at 200 PICO or higher our price is INVALID.

NOTE: Our price below is for normal media removal if for some reason air chippers or rotary hammers must be used to facilitate the media removal process time and material would apply.

LUMP SUM COST: \$ 64,509.00

Should you have any questions concerning this quote please call our office at 888-233-3018.

ALL SERVICE CONTRACTING CORP.

**By: _____
Aaron M. Burcham, Vice President
Associate Member A.W.W.A**

Date:10-18-17

**VICE PRESIDENT
ALL SERVICE CONTRACTING CORP.
2024 E. DAMON AVENUE
DECATUR, IL 62526
aaron@allservice.com
217-233-3018 OFFICE
217-519-3021 CELL
217-233-3019 FAX**

Authorized By: _____

Title: _____

Date: _____

Witness: _____

Date : _____



NORTHERN FILTER MEDIA, INC.
 2509 PETTIBONE AVE
 MUSCATINE IA 52761

< Partial ROC >

Estimate

Date	Estimate #
12/1/2017	13668

Name / Address
River City Construction 1509 North Main Street Benton, IL 62812

Job		Rep	FOB	Project	
		KB	PA IA	WASHINGTON, IL	
Item	Description	Qty	U/M	Cost	Total
ANBP#1	#1 (.60-.80MM)Anthracite in c.f. bags on pallets	590	cuft	8.70	5,133.00T
ANBP#2	#2 Anthracite in c.f. bags on pallets	295	cuft	10.45	3,082.75T
ANBP#4	#4 Anthracite in c.f. bags on pallets	295	cuft	10.45	3,082.75T
ANBP#6	#6 Anthracite in c.f. bags on pallets	235	cuft	10.45	2,455.75T
FREIGHTCHRG	Estimated Flatbed Freight Charge to Washington, IL Current availability of the above anthracite is running approximately three weeks after release for shipment.			3,900.00	3,900.00
FSBP80-120UC...	.80 - 1.20mm, U.C. 1.6 Filter Sand in c.f. bags on pallets	38	cuft	5.64	214.32T
FGBP14X18	1/4 x 1/8 Filter Gravel in c.f. bags on pallets	35	cuft	5.50	192.50T
FGBP12X14	1/2 x 1/4 Filter Gravel in c.f. bags on pallets	70	cuft	5.50	385.00T
FREIGHTCHRG	Estimated Flatbed Freight Charge for the above media to Washington, IL Current availability of the above media is running approximately one to two weeks after release for shipment.			800.00	800.00

Thank you for the opportunity to quote on this project.
 Karen Brown Ph.# 800-992-0096

Subtotal \$19,246.07

Estimates are good for 60 days unless otherwise stated. *Estimated freight rates are listed only as a courtesy. Freight will be billed direct from freight carrier. Current freight rate at time of shipment will apply.

Sales Tax (0.0%) \$0.00

Total \$19,246.07

Signature _____

Phone #	Fax #	E-mail
(IA) 563-263-2711 (IL) 217-224-3362	563-263-2857	info@northernfiltermedia.com