

**COAL CITY
VILLAGE BOARD SPECIAL
MEETING**

**MONDAY
JULY 30, 2018
5:30 p.m.**

**COAL CITY VILLAGE HALL
515 S. BROADWAY, COAL CITY, ILLINOIS**

AGENDA

1. Call meeting to order
2. Repair of Out-of-Service Wells
3. Adjourn

MEMO

TO: Mayor Halliday and the Board of Trustees

FROM: Matthew T. Fritz
Village Administrator

MEETING

DATE: July 30, 2018

RE: APPROVAL OF WELL #5 EXPENDITURES

The Village lost service to Well #5 and has verified the pump must be pulled in order to check the cause of its failure. This process requires hiring a well and pump company in order to pull out the pump and motor, investigate it, and then send the motor off to be refurbished and rewound at the manufacturer.

This process occurs in two steps – the first is pulling the pump and motor out, investigating, and waiting upon the motor’s refurbishment. After its return, the motor is re-installed along with the casing, pump, and cable. It is expected the motor will need to be rewound – this will take 4-6 weeks.

The Village has utilized three different local well and pump companies in order to get these wells in service. Due to having been unsatisfied with the capabilities of one of the companies, Darrell Olson, the Public Works Director, secured two bids from others. They are provided below. Due to these quotes having some hourly pricing entailed and separate portions, please consider a 10% contingency in order to provide the authority to order the work and get the well back up and running as soon as possible. This is the well that produces a majority of the raw source water treated by the Village.

Municipal Well & Pump	\$82,733.30
Layne	106,386.00

Selection of a company will allow the pump to be pulled ASAP. Both companies have scheduling available 2-3 weeks away. The Village’s liability insurer will be involved when the motor comes above ground to document and assist with determinations. A 10% contingency on the lowest bid would provide an additional \$8,272.70.

Recommendation:

Approve the Purchase of well and pump servicing form Municipal Well & Pump for an amount not to exceed \$91,006.



MUNICIPAL
WELL & PUMP
A Division of Municipal Well Service, Inc.

Project Proposal

Re: Coal City Well #5

Item #	Item Description	Quantity	Units	Unit Price	Extended Price
1	Mobilization	1	Lsum	2,700.00	\$ 2,700.00
2	Pump Removal	10	Hours	405.00	4,050.00
3	Inspect equipment	2	Hours	405.00	810.00
4	Tear Down & Return to Shop	1	Lsum	2,730.00	2,730.00
5	Cable Spooler Rental (only on pull)	10	Hours	30.00	300.00
6	Motor Freight to SME, estimate	1	Est.	1,370.00	1,370.00
7	Repair & Rewind 150HP Motor	1	Est.	31,700.00	31,700.00
8	Motor Freight Return, estimate	1	Est.	1,830.00	1,830.00
9	Submersible Cable, if required, per foot	583	feet	17.50	10,202.50
10	Splice Kit	1	Each	550.00	550.00
11	SS Banding, tape and new airline	583	feet	2.60	1,515.80
12	Mobilization	1	Lsum	3,830.00	3,830.00
13	Installation of Pump & Equipment	35	Hours	425.00	14,875.00
14	Testing and sampling	8	Hours	425.00	3,400.00
15	Demobilization	1	Lsum	2,870.00	2,870.00
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Total Project Proposal					82,733.30

Dated: July 18, 2018

By:

Dick Milaeger

Dick Milaeger
Vice President Sales
Municipal Well & Pump



Joseph Eisha
P.O. Box 489
229 W. Indiana Avenue
Beecher, IL 60401
708.946.2244
graniteconstruction.com

July 18, 2018

Village of Coal City
515 S Broadway
Coal City, IL 60416

Attn: Darrell Olson

SUBJECT: WELL #5 PUMPING EQUIPMENT

Gentlemen:

Layne Christensen Company is pleased to provide our proposal for the removal, inspections and installation of the pumping equipment in the Village of Coal City Well No. 5. You had reported a check confirmed a motor or insulation issue requires the removal. Layne will confirm this prior to pump removal.

We have had multiple conversations with the Flowserve factory on options for a replacement motor. We will need to know if the motor in well 5 is a type M or Type H. Once we remove the pumping equipment from the well, we will know if the motor needs to be shipped to the factory for rebuild. With a mercury seal motor, the unit will be shipped to a decontamination facility and disassembled for removal of all mercury. You will be issued a certificate of proper disposal of the mercury for your records. If it is a Type H mercury sealed motor, you will need to convert it to a mechanical seal if the mercury seal is damaged. The parts required are available for the conversion and the lead time to complete the service is estimated at 10 to 12 weeks.

As the Illinois distributor for the Flowserve Byron Jackson products, we stock the premium Byron Jackson bowls and some size motors in our Aurora Layne service center to provide our customers a quicker turnaround time. Unfortunately; Layne does not have a 150 HP new or exchange motor available at this time.

Layne does have an exchange rebuilt 150 HP type H motor on hand in Aurora. However Layne cannot sell you this motor as Illinois has banned the use of mercury seals in 2012. Our customers who currently own motors with mercury can use them as long as the seal is not damaged and these can be reinstalled. Layne would like to discuss a couple of options to either pull your motor out and ship it back to the Flowserve/Byron Jackson factory or Layne can give you the motor we have and you pay for the conversion to mechanical seals. You would then have a choice to use your motor as an exchange credit, or ship yours out to repair for a spare.

Flowserve and Layne have a program called the factory exchange rebuild program. This program allows us to utilize a motor removed to be exchanged for a factory rebuilt unit

with a credit for the old motor. This allows us to install our stock, exchange rebuilt motor. You could purchase this motor (Pay for only the conversion to mechanical seal) as a standalone motor purchase and proceed to send yours to Flowserve for the conversion. Then when your motor removed is ready, you can have a spare motor available for future use at well No. 5.

The following budgetary costs are provided for your review.

- If you would like us to ship your removed motor for a seal conversion or a basic factory rebuild, the following costs apply. Shop labor, including placing the seal and motor in shipping mode, sealing motor in containment bag, providing a large motor crate, crating and securing motor for shipment, shipping to Flowserve.
Labor and material Lump Sum \$3,244.00
- Estimated freight-ship motor \$1,250.00
- A complete proposal outlining the factory findings, and costs to convert the mercury seal to a mechanical seal will be provided to you. \$49,675.00
- The warranty on a rebuilt motor is the same as a new motor and comes with one year warranty. Additional warranty is available through the Flowserve factory. If you want to use your motor for a trade in credit, please deduct \$3,925.00
- Should you decide not to repair your motor or purchase a motor, the factory cost to the Village would be approximately \$12,300.00 for disposal of the mercury and the full decontamination of this motor. The Village will receive a certificate of decontamination/decommissioning of the mercury sealed motor for your records. This only applies if you have a type H motor in the well.
- Three man crew and large pump service rig, remove pumping equipment from well Estimated 24 hrs @ \$563 \$13,512.00
- Driver with truck mounted hydro crane, mobilize to site, load and haul motor and bowl to Layne Aurora yard, unload Estimated 8 hrs @ \$253 \$ 2024.00
- Shop labor, service motor (if found to be ok) Estimated 12 hrs @ \$218 \$ 2616.00
- Material for motor service (gaskets, o-rings, paint) \$ 595.00
- Shop labor, blast and disassemble bowl assembly, micrometer report, prepare estimate for rebuilding bowl assembly Estimated 20 hrs @ \$182 \$ 3640.00
- Television Survey Lump Sum \$ 1650.00

- Optional New Byron Jackson as removed Cast Iron bowl assembly \$39,975.00
- Byron Jackson new or factory exchange rebuilt 150 HP M motor \$49,675.00
- Miscellaneous material, including two airlines and fittings, pipe dope chlorine, tape, splicers, etc. \$ 1,250.00
- Remobilization of complete pump back to site \$4,400.00
- Reinstallation of repaired or replacement pumping equipment and test, Estimated 48 hrs @ \$563/hr \$27,024.00

Although we cannot provide a firm proposal on the bowl assembly rebuild until it is disassembled and inspected, for budgetary purposes, we would estimate 40 machine shop hours at \$182/hr, or approximately \$7200 to completely rebuild A 10" 13 stage bowl assembly. Material costs for bronze stock for wear rings and bushings, stainless steel hardware and suction screen, would be approximately \$2750.00. Costs could be higher based on bowl condition.

Should the existing coated pipe require re-coating, we have that capability in our machine shop, and would perform that work for \$28.00/ft. for 577 feet of pipe, or \$16,156.00. Add truck time to load and haul the pipe from the jobsite to our Layne Aurora facility and unload, estimated at 12 hours each way for two men and a truck mounted hydro crane at \$408/hr, or \$9792.00 for pickup and delivery.

Should the pipe not be re-usable, we would offer new 6" T&C epoxy coated inside and out, API Line Pipe, with API couplings 577 feet @ \$74/ft. (Current \$ may need to adjust) \$42,696.00

Two 6" Lakewood style surge control valves @\$1100 \$ 2,200.00

This work is typically performed on a time and material basis. Actual hours would be reflected on our invoice. Due to the length of time this project could take, we would be issuing monthly progress billings. Payment terms are NET 30 DAYS from invoice date, no exceptions. Our proposal assumes the pump can be removed in a normal fashion and has not parted or becomes parted or separated. If the pump and motor are separated, or at the bottom of the well, or falls during removal, we would stop work and discuss this with you and plan on retrieval or next steps before continuing. We require reasonable ingress and egress to the jobsite.

Layne's number one core value is safety. We feel that extreme attention to this standard sets us apart from others. As a publically owned company, Layne is also dedicated to the highest ethical standards, and the promotion of environmental, social and financial sustainability. You may visit <http://www.Layne.com/en/about/safety-and-sustainability.aspx> for more information on Layne's dedication to safety and sustainability.

All Layne field crews are members of Local 150 International Union of Operating Engineers and will be paid the appropriate Grundy or Will County Prevailing Wages, per IDOL regulations. All assigned field crew members to this project are trained in the proper handling of the Premium Byron Jackson Submersible pumping equipment.

We thank you for the opportunity to present this proposal, and look forward to assisting you with this project. It is always our goal to provide quality services in a safe, efficient, and professional manner, to your complete satisfaction. Should you have any questions, please do not hesitate to call me in our office 708-946-2244, my cell 779-701-7667, or by email jeff.stollhans@layne.com. A signature would be required below to authorize this work.

Sincerely,

LAYNE CHRISTENSEN COMPANY

Jeff Stollhans P.G.
Senior Account Manager

Joseph J. Eisha
Senior Project Manager

Authorization _____

Printed Name _____

Date _____