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November 3, 2021

Ms. Cynthia C. Thompson, Esq.
202 E. Riverside Drive
Augusta, Kentucky 41002

Mr. M. Todd Osterloh
Sturgill, Turner, Barker & Moloney, PLLC
333 West Vine Street
Suite 1400
Lexington, Kentucky 40507-1801

VIA ELECTRONIC MAIL AND CERTIFIED MAIL

Re: *Request for Payment of Testing Services*

Dear Ms. Thompson and Mr. Osterloh:

Bracken County Water District ("Bracken District") respectfully requests payment of \$9,900 from the City of Augusta ("Augusta") in the form of a billing credit on Bracken District's next monthly bill for water service as required by Paragraph 6 of the Parties' Agreement of May 10, 2021.

On May 10, 2021, Augusta and Bracken District entered into an agreement to resolve issues present in Public Service Commission Case No. 2020-00277. This agreement was subsequently filed with and approved by the Public Service Commission.

Paragraph 6 of the Agreement provides:

Testing of Pumps. Bracken District may at its own expense conduct tests on the efficiency of the well pumps and the high service pumps at the Augusta Water Treatment Plant. Testing shall be performed at a reasonable time and in a reasonable manner so as not to interfere with the water treatment plant's operation. Augusta shall cooperate in the scheduling of such tests and shall not take any actions that would unreasonably interfere with the tests. Bracken District shall provide Augusta with a copy of the test results. **If the test results show a variance in any pump's efficiency**

Cynthia C. Thompson, Esq.
M. Todd Osterloh, Esq.
November 3, 2021
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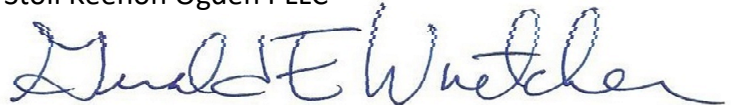
that is greater than 20 percent from the 2021 gallon-per-minute results listed in Appendix A, Augusta shall be responsible for 50 percent of the cost to perform the tests. In that event, Bracken District shall furnish a copy of the invoice for testing services and a request for payment and Augusta will issue a credit to Bracken District's next monthly bill for wholesale water service for the requested amount. [Emphasis added.]

Since the execution and approval of the Agreement, Bluegrass Engineering PLLC ("Bluegrass Engineering") at Bracken District's request and expense has conducted tests on the efficiency of the well pumps and the high service pumps at the Augusta Water Treatment Plant. The results of these tests are enclosed as Enclosure 1. The results of these tests show the efficiency of four of the Augusta Water Treatment Plant's pumps varies more than twenty percent from the test results set forth in Appendix A of the Agreement of May 10, 2021. For your reference, the earlier test results set forth in Appendix A to the Agreement are enclosed as Enclosure 2.

The total cost of the tests performed on the Augusta Water Treatment Plant's pumps was \$19,800. The invoice for those testing services is enclosed as Enclosure 3.

Sincerely,

Stoll Keenon Ogden PLLC



Gerald E. Wuetcher

GEW
3 Encls
1-Test Results
2- Appendix A
3- Invoice for Testing Services

Cc: Mr. Anthony Habermehl (e-mail)
PSC Case File No. 2020-00277

ENCLOSURE 1

PRELIMINARY
DRAFT

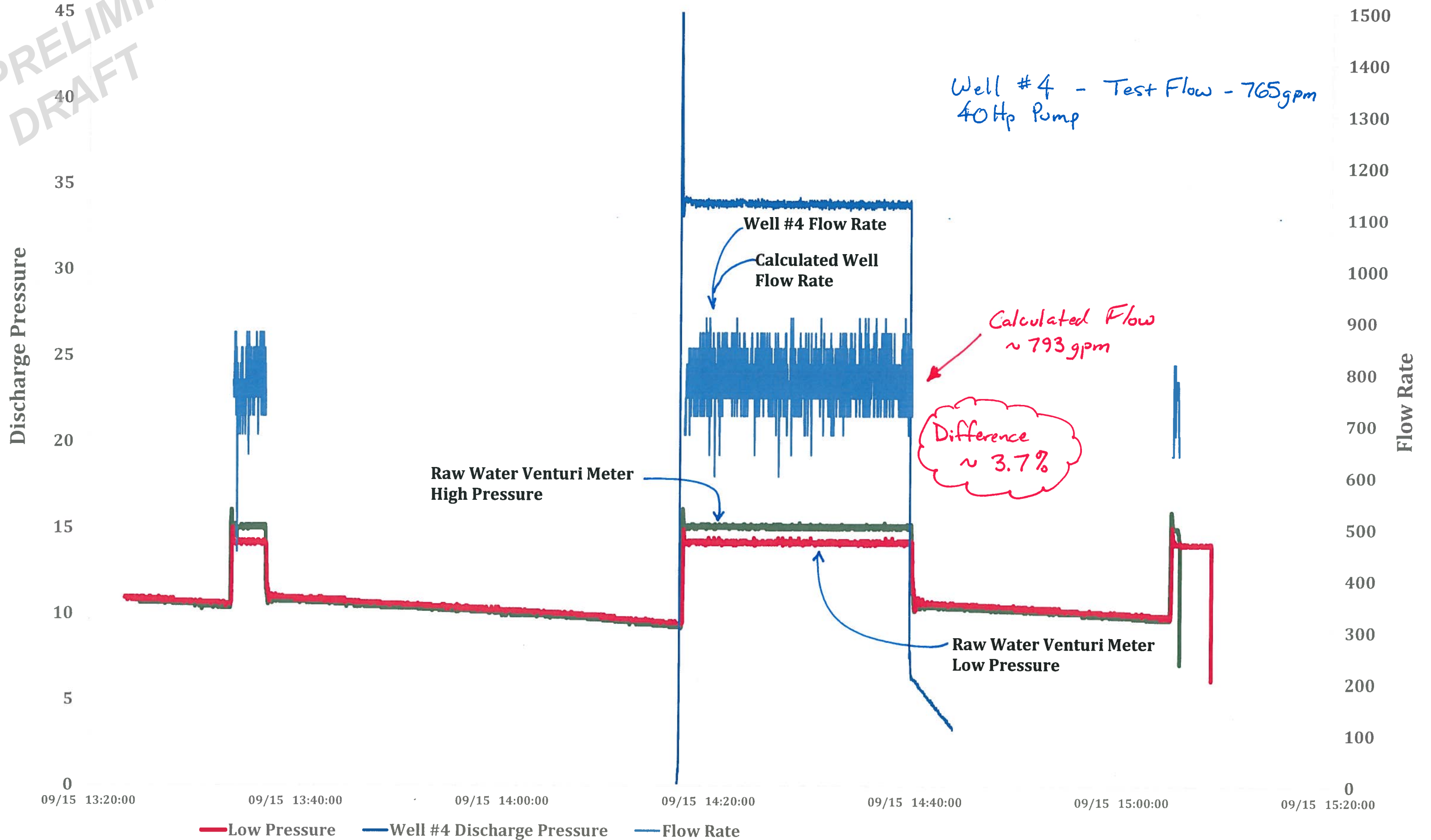
Bracken County Water District - High Service Pump Test

		Time	Level	Time	Level	Drop in Level	Pumping Rate per 5 min.	Bracken Co. WD Clearwell Level			
								Time	Level	Rise in Level	
Pump #2 Start - 2:48	2:48:00 PM	44426.6167	19.6580	2:48:00 PM	19.658			2:48:00 PM	44426.62	7.5600	
Pump #2 Stop - 3:38	3:38:00 PM	44426.6514	17.1709	2:53:00 PM	19.422	0.236	587.20	3:38:00 PM	44426.65	9.1800	1.62
		0.0347	Drop in Clearwell Level	2:58:00 PM	19.165	0.256	636.63	Bracken Clearwell Dimension			
Pump Run Time =	50	minutes	2.4871	3:03:00 PM	18.914	0.252	625.20	Pump Room =	1,196.96	gallons per foot	
Volume in Clearwell =	265,985			3:08:00 PM	18.668	0.246	611.04	Clearwell Area =	17,630.22	gallons per foot	
Clearwell Depth (excluding sumps) =	21.41666667			3:13:00 PM	18.412	0.256	635.88	Total Volume =	18,827.18	gallons per foot	
Volume per foot of depth =	12,419.53			3:18:00 PM	18.167	0.245	607.81	Increase in Volume Rate = 610.0 GPM			
Volume per inch of depth =	1,034.96			3:23:00 PM	17.918	0.249	617.50				
Volume per 0.01 foot of depth =	124.20			3:28:00 PM	17.672	0.247	612.53				
				3:33:00 PM	17.427	0.245	608.81				
Pump #2 Pumping Rate =	617.8	GPM		3:38:00 PM	17.171	0.256	635.38				
Pump #2 DESIGN Rate =	700	GPM		12:50:00 AM	#N/A						
Pump #2 - 2021 TEST Rate =	650	GPM		Average Pumping Rate =	617.80	GPM	Bracken Co. WD Clearwell Level				
% Difference =	-5.0%	2021 Test		% Difference =	-11.7%	Design Rate	9.180000305				
							9.31499958 2,541.66 gallons - change in level in the minute prior to 3:52				

		Time	Level	Time	Level	Drop in Level	Pumping Rate per 5 min.	Bracken Co. WD Clearwell Level			
								Time	Level	Rise in Level	Change level due to variation in telemetry readings
Pump #1 Start - 3:52	3:52:00 PM	44426.6611	17.0655	3:52:00 PM	17.066			3:52:00 PM	44426.66	9.3150 *	
Pump #1 Stop - 4:42	4:42:00 PM	44426.6958	15.0009	3:57:00 PM	16.849	0.217	539.01	4:42:00 PM	44426.70	10.6650	1.35
		0.0347	Drop in Clearwell Level	4:02:00 PM	16.639	0.210	520.63	Bracken Clearwell Dimension			
Pump Run Time =	50	minutes	2.0646	4:07:00 PM	16.433	0.206	511.93	Pump Room =	1,196.96	gallons per foot	
Volume in Clearwell =	265,985			4:12:00 PM	16.226	0.207	513.67	Clearwell Area =	17,630.22	gallons per foot	
Clearwell Depth (excluding sumps) =	21.41666667			4:17:00 PM	16.022	0.204	507.21	Total Volume =	18,827.18	gallons per foot	
Volume per foot of depth =	12,419.53			4:22:00 PM	15.816	0.205	510.19	Increase in Volume Rate = 508.3 GPM			
Volume per inch of depth =	1,034.96			4:27:00 PM	15.609	0.208	516.40				
Volume per 0.01 foot of depth =	124.20			4:32:00 PM	15.410	0.199	493.55				
Pump #1 Pumping Rate =	512.8	GPM		4:37:00 PM	15.207	0.203	504.98				
Pump #1 DESIGN Rate =	700	GPM		4:42:00 PM	15.001	0.206	511.68				
Pump #1 - 2021 TEST Rate =	534	GPM		Average Pumping Rate =	512.93	GPM					
% Difference =	-4.0%	2021 Test		% Difference =	-26.7%	Design Rate					

Augusta Well #4 Drawdown Test - 9-15-21
Raw Water Venturi Pressure & Flow Rate

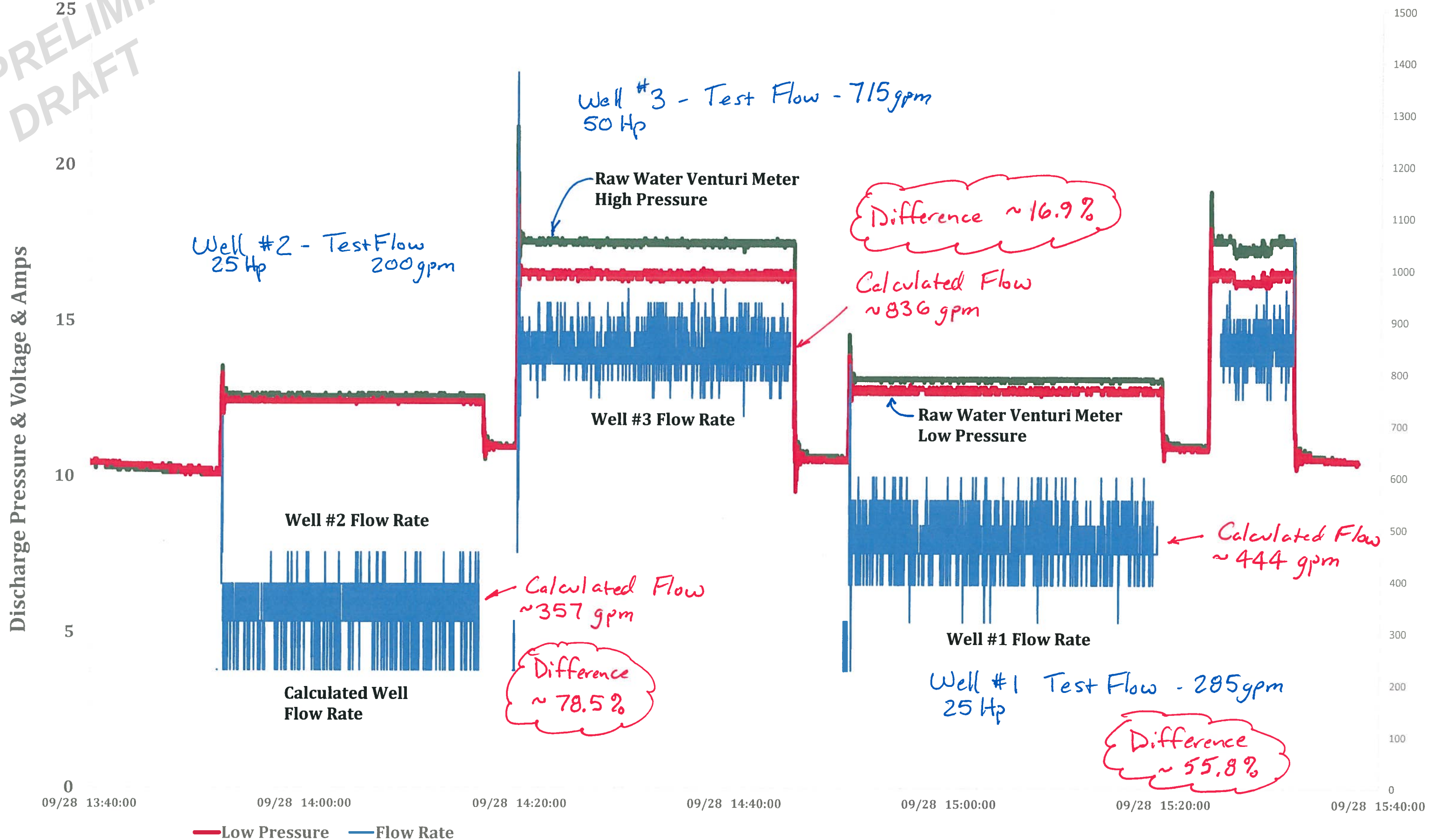
PRELIMINARY
DRAFT



— Low Pressure — Well #4 Discharge Pressure — Flow Rate

Augusta Well Drawdown Test - 9-28-21
Raw Water Venturi Pressure & Flow Rate

PRELIMINARY
DRAFT



ENCLOSURE 2

APPENDIX A

Augusta Wells

	#1 GPM	#2 GPM	#3 GPM	#4 GPM
Design Capacity	350	250	500	800
Horse Power	25	25	50	40
Well Size	10"	10"	20"	20"
1998 Test	-	343	-	-
1999 Test	351	-	-	-
2005 New Well	-	-	-	800
2011 Repair	-	-	500	-
2015 Test	182	136	440	735
2018 Repair	350	-	-	-
2021 Test	285	200	715	765
Pump Performance	81.4%	80.0%	143.0%	95.6%

	BCWD HS #1	BCWD HS #1	Augusta HS #1	Augusta HS #2
Design GPM	700	700	500	500
2021 Test	534	650	476	476
Pump Performance	76.3%	92.9%	95.2%	95.2%

ENCLOSURE 3



INVOICE

CLIENT:
 Bracken County Water District
 1324 Brooksville Germantown Road
 Brooksville, Kentucky 41004

Invoice Date: 10/20/21
Invoice No. 2021-074
Proj. No. 21034

Job Description: Miscellaneous Engineering Services - Augusta WTP Testing Services
Billing Period: August 3, 2021 thru October 15, 2021

	Total Fee	% Complete	Total Earned to Date	Amount Paid to Date	Amount Due to Date
Preliminary Services					
Planning & Study		100.00%	\$ -		\$ -
Total Preliminary Services	\$ -	#DIV/0!	\$ -	\$ -	\$ -
Design & Construction Services					
Engineering Design					
Design		100.00%	\$ -		\$ -
Bidding Services		100.00%	\$ -		\$ -
Construction Administration		100.00%	\$ -		\$ -
Inspection Services		100.00%	\$ -		\$ -
Total Design & Construction Services	\$ -	#DIV/0!	\$ -	\$ -	\$ -
Additional Services					
High Service Pump, Well Pump and Clearwell Testing	\$ 19,800	100.00%	\$ 19,800.00		\$ 19,800.00
			\$ -		\$ -
			\$ -		\$ -
Total Additional Services	\$ 19,800	100.00%	\$ 19,800.00	\$ -	\$ 19,800.00
Total	\$ 19,800.00		\$ 19,800.00	\$ -	\$ 19,800.00

PLEASE MAKE CHECK PAYABLE TO: Bluegrass Engineering, PLLC
 Remit to: Bluegrass Engineering, PLLC
 PO Box 1657
 Georgetown, Kentucky 40324

ORIGINAL

DATE PAID 10/21/21
 AMOUNT PAID 9900.00
 CHECK NO. 19921

636.6

City of Augusta
 owes 1/2