



**BLUEGRASS WATER**  
Utility Operating Company  
A CSWR Managed Utility

July 28, 2021

Kentucky Energy & Environment Cabinet  
Attn: Mr. Daniel Kulik  
300 Sower Blvd  
Frankfort, KY 40601

RE: Connection of the Brocklyn WWTP to Richmond Utilities

Dear Mr. Kulik,

This letter is in response to information received from Richmond Utilities regarding the required infrastructure necessary for Richmond Utilities to accept and treat waste collected at the Brocklyn WWTP and pumped to Richmond Utilities collection system at the preferred location identified.

The Opinion of Probably Project Cost (OPPC) dated April 2021 provided by Bell Engineering to Richmond Utilities states that the estimated cost to construct a lift station at the Brocklyn WWTP and run a sewer force main to a manhole capable of handling the additional flow is \$750,250. The estimated cost to complete the upgrade project proposed by BWUOC and provided by 21 Design Group that is currently under review is \$650,000.

In addition to the \$100,000 of extra construction expense, Richmond Utilities stated in their letter dated May 3, 2021 that the estimated monthly charge to BWUOC based on actual average flows provided (approx. 50,000 gpd) would be \$12,809.57. For the 156 customers serviced by the Brocklyn WWTP, that comes out to \$82.11 of pass-through treatment charges per customer. Adding this pass-through treatment charge and the additional construction expense would result in a monthly increase of approx. \$87 per customer as compared to the upgrade project proposed by BWUOC.

Due to the above analysis, connection to Richmond Utilities is not a cost-effective alternative to the proposed improvements at the Brocklyn WWTP and we are requesting that the construction permit be approved so that upgrades can be made at the facility prior to failure of the existing treatment structure.

Please let me know if you have any questions or comments.

Thank you,

Jacob O. Freeman, PE  
Director, Engineering

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# Richmond Utilities

300 Hallie Irvine St.  
PO BOX 700 – Richmond, KY 40476-0700  
(859) 623-2323 – Office  
(859) 624-0805 – Fax

May 3, 2021

RE: Brocklyn Subdivision Pump Station

The Richmond Utilities Board received a request for the potential to allow the Brocklyn Subdivision to discharge the sanitary sewer waste into the City of Richmond collection system. Our findings are below.

In order to evaluate the costs for this potential connection, Richmond Utilities worked with Bell Engineering, our selected outside consulting engineering firm for this project. Bell Engineering evaluated the flow monitoring data received for the Brocklyn effluent and have determined the best solution to receiving the sanitary sewer flow would be to construct a pump station at the Brocklyn wastewater facility and pump the sewage to manhole TC11-MB-10, which is just east side of Willis Branch Road. See attached map showing the existing pump station in yellow and labelled PS along with the proposed forcemain shown in red. A cost estimate is included with this letter had an estimated total of \$750,250, which was also prepared by Bell Engineering,

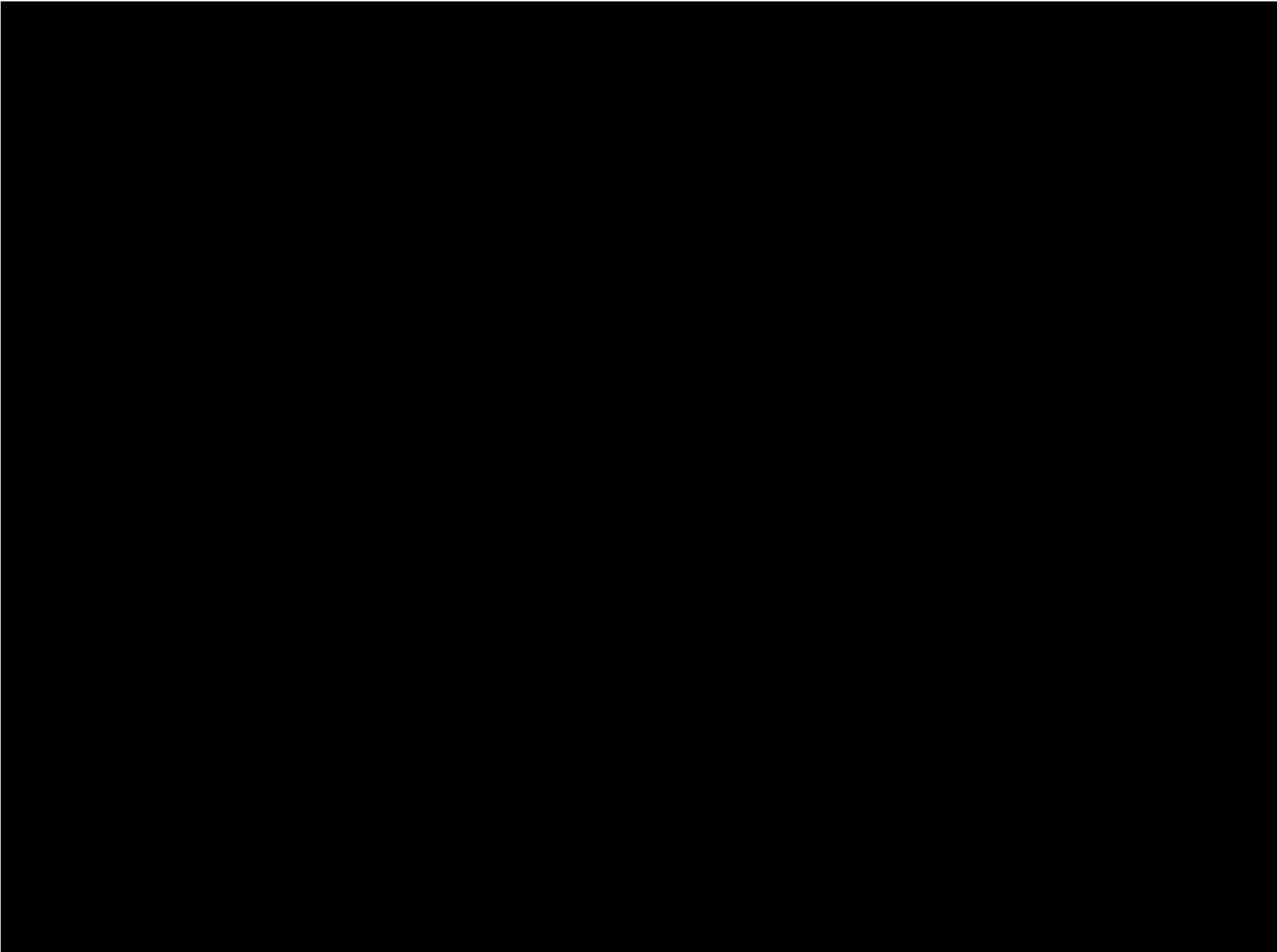
In order to allow this connection, the Richmond Utilities Board will require the Brocklyn treatment facility owner to pay for all costs to accomplish this project. The owner shall keep in mind that this is an estimate for construction costs and any costs above this amount will also be the responsibility of the Brocklyn treatment facility owner.

In addition to the costs of the pump station, the treatment facility owner will receive a monthly sewage bill. Due to drastic inflow and infiltration (I&I) at this facility, we are estimating that the average annual flow rate might be around 50,000 gpd. If a sewage bill is based on this average daily flow rate, we estimate a 30 day monthly sewer bill being approximately \$12,809.57 per month if using the current City rates. Again, the City does not guarantee this monthly charge and will be billed for actual flow discharged from the lift station.

Note: Any agreement reach in regards to mentioned project is based on the Brocklyn Pump Station property to be approved for annexation into the City of Richmond.



Scott Althaus  
General Manager



		OPINION OF PROBABLE PROJECT COST				
		Project: Brooklyn PS		Client: City of Richmond		<input type="checkbox"/> No Design Completed
		Date: April 2021		Contract No.:		<input checked="" type="checkbox"/> Preliminary
		Est. By: JSR		Checked By: DFS		<input type="checkbox"/> Final Design
		SHEET:		OF:		Drawing No.:
ITEM NO.	ITEM DESCRIPTION	QUANTITY		PRICE		TOTAL COST
		NO.	UNIT	PER UNIT	TOTAL	
<b>CONSTR</b>						
1	210 GPM PUMP STATION, ELECTRICAL, SITE WORK, COMPLETE	1	LS	\$275,000.00	\$275,000.00	\$275,000
2	FORCE MAIN	4000	LF	\$50.00	\$200,000.00	\$200,000
3	AIR/VACUUM RELEASE VALVE	3	EA	\$6,750.00	\$20,250.00	\$20,250
4	TRENCH WIDTH ASPHALT REPLACEMENT	500	LF	\$50.00	\$25,000.00	\$25,000
<b>TOTAL OPINION OF PROBABLE CONSTRUCTION COST</b>						<b>\$520,250</b>
<b>PROJECT COST</b>						
	ADMINISTRATIVE EXPENSES					\$30,000
	LEGAL EXPENSES					\$6,000
	LAND, APPRAISALS, EASEMENTS					\$10,000
	RELOCATION EXPENSE & PAYMENTS					\$0
	PLANNING					\$10,000
	ENGINEERING FEES - DESIGN					\$38,000
	ENGINEERING FEES - BIDDING					\$6,000
	ENGINEERING FEES - CONSTRUCTION ADMINISTRATION					\$10,000
	ENGINEERING FEES - INSPECTION					\$38,000
	GEOTECHNICAL					\$10,000
	ENVIRONMENTAL					\$20,000
	CONSTRUCTION					\$520,250
	EQUIPMENT					\$0
	INTEREST DURING CONSTRUCTION					\$0
	CONTINGENCIES					\$52,000
<b>TOTAL OPINION OF PROBABLE PROJECT COST</b>						<b>\$750,250</b>