



# Memo

TO: Mayor Manier and City Council  
FROM: Ed Andrews, Public Works Director  
DATE: October 12, 2018  
SUBJECT: Water Treatment Plant #1 – Flood Protection Study  
adoption of target Flood Compliance Q(100) or Q(500)

The City of Washington engaged CMT under Work Order 16-2 to assist in a detailed review of flood protection options (design requirements & funding) at Water Treatment Plant #1 (WTP#1). WTP#1 was built in 1959 and in 1986, FEMA first released Flood Insurance Rate Maps (FIRMs) for Washington which mapped WTP#1 in the 100-year flood plain. CMT's study is attached herewith, but a key discussion component for Council is decide on the degree of flood protection which we would target for this facility in forthcoming.

While there is a Federal Program (CAP-205) for a 50/50 cost share, this program would require a more aggressive 500-year flood protection. CMT has also reviewed the IEPA's minimum 100-year flood protection, which unfortunately does not have a cost share component, but is at a much lesser cost. The options costs are summarized below:

Flood Protection	Estimated Cost	Funds	
		Federal	Local
Q(500)	\$ 900,000	\$ 450,000	\$ 450,000
Q(100)	\$ 158,000	\$ -	\$ 158,000

From a cost standpoint, "going it alone" for Q(100) protection is 1/3 of the City's 50% match for Q(500) protection under CAP-205. While we have had discussions about this project with staff at the Rock Island Corps, CAP-205 is a competitive program such that there is no guarantee of funding. Additionally, WTP#1 is the older of the City's two water plants. Expansion at this location is limited, such that the likely future scenario is a new WTP#3 at a different location.

Discussion with the Public Works Committee was to target Q(100) protection, but would also be presented Council. It is recommended that the City formally adopt at target compliance to help establish.

This matter has been placed on the City Council meeting agenda of Monday, October 15<sup>th</sup>, 2018 for review and adoption.

cc: File