



OSWEGO CITY ENGINEER
WILLIAM J. BARLOW, JR. MAYOR

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January 30, 2020

Mr. Kevin Caraccioli, City Attorney
City of Oswego
13 West Oneida Street
Oswego, NY 13126

Re: **Concrete Cap**
NYSDEC Site Number 7-38-033
375 Mitchell Street
City of Oswego

Dear Mr. Caraccioli:

Please accept this letter as a summary of my analysis of the concrete cap located at 375 Mitchell Street in Oswego. This site is identified as NYSDEC Site Number 7-38-033. As required in the Schedule of Compliance Item 6 (which was attached to a Notice of Violation dated October 2, 2019), I performed an engineering evaluation of the tank loading on the cap.

During my inspection of the concrete cap, I observed a crack in the cap located between the western posts of the tank stand (a picture of the crack can be seen on Photo A in the attachment). In reviewing the 2017 Period Review Report prepared by Arcadis CE, Inc, it was noted that the cap had minor cracking that did not compromise the integrity of the cap. Due to the lack of as-built construction drawings and insufficient documentation, I cannot determine if the crack in question is due to the tank loading or was present prior to installation. Therefore, to be conservative and prevent further propagation of this crack, my analysis determined that the volume of emulsifier in the tank should be limited to 5,000 gallons. Any amount in excess of this volume could cause the existing crack to widen.

It is my recommendation that the crack and any penetrations be sealed with a suitable caulking material to prevent damage to the cap through water infiltration and ice formation. It is also my professional opinion at this time and based upon the information available to me, that the structural integrity of the concrete cap has not been compromised by the installation of the tank in question. Through the limitation placed on the working capacity of the material and the sealing of any penetrations, the integrity of the concrete cap will be maintained.

If there are any questions related to this work, please do not hesitate to contact me.

Sincerely,

Jeffrey Hinderliter, PE
License # 093850

/dma

Attachments

c/Mayor, William J. Barlow, Jr. (by email)
Tom Kells, Commissioner of Public Works (by email)
File