

CAMBRIDGE WATER BOARD

MEETING MINUTES
October 16, 2018

This meeting was called to order at 5:04 p.m. at 250 Fresh Pond Parkway, in Cambridge, Massachusetts. Those in attendance were:

Cambridge Water Board (CWB): Ann Roosevelt, Jason Marshall, Richard Johnson (by phone), Kathleen Kelly (by phone)

Cambridge Water Department (CWD): Sam Corda, Tim MacDonald, Fred Centanni, Mark Gallagher, Dave Kaplan, Ed Dowling, Linda Vierboom

Visitor: Sue Reinert, Cambridge Day

Mr. Johnson announced that he will be recording the meeting.

Future Water Board Meeting Dates: The January and February 2019 water board meeting dates were approved.

CDM/CIPP Meeting: Mr. Corda suggested that the next meeting, to present/discuss the draft first phase of the Cured in Place Pipe/Plastic Study, be December 2018 when Mr. Sam Lipson is available. Mr. Corda will obtain the status at the CDM meeting next week. A draft report will be given out at least 5 days in advance. The water board has agreed to this schedule.

A celebration to remember Dr. Joseph J. Harrington and his many years of volunteerism to the City, in particular to the water department, was suggested by Mr. Corda and the Board enthusiastically agreed. Mr. Harrington's family is available on November 28th from 6 to 8 pm at CWD. A plaque could be revealed at the event. A resolution will be made at the next meeting about honoring Dr. Harrington.

A. MINUTES OF SEPTEMBER 12, 2018 MEETING

Mr. Marshall moved, and Ms. Roosevelt seconded the motion to approve the September 12, 2018 minutes as written. The vote was unanimous in favor of the motion.

B. MANAGING DIRECTOR'S REPORT

40" Transmission Main Evaluation Preliminary Report: Power Point Presentation by Mark Gallagher, Director of Engineering and Distribution Operations. This presentation will be posted online. Board members who were not at this meeting may come to Mr. Gallagher's office before the November meeting to see the report. Mr. Gallagher said the preliminary report is a brief synopsis provided by CDM and is not final. The final report should be available in about a month. The final report when available will be posted.

Core Tech, the original cathodic protection system installer, evaluated the cathodic protection system, analyzed the transmission main for structural changes and tested the soil corrosivity. The evaluation/condition of the circa 1900 rolled riveted steel 40" transmission mains going up to Payson and back to the City showed that there has been very little to no degradation since the cathodic protection system was installed in 1999. It was found to be functioning satisfactorily and there is no need to replace or structurally line these mains at this time. The Pipe was exposed in the same locations as was done 19 years previously at Glacken Field and Grove Street Park in Belmont. Ultrasonic instruments which measured pitting on the pipe, thickness of pipe and corrosive soils were used. There was minimal pitting and nothing concerning.

Wall thickness hasn't changed and is in good condition. Soil corrosivity at the Glacken Field excavation determined to be moderately corrosive. This is good news as this is still low.

The cathodic protection system operation (which protects the pipe from corrosion) was checked and deemed operational and working but could be optimized further. Core Tech made recommendations to improve the cathodic protection system and will come back after their recommendations are implemented.

The leak detection team, Pure Technologies, performed internal leak detection in October. The intent was to determine if there are any leaks in the 40" transmission mains. CWD prepped the pipe to allow for probe access by first installing corporation valves for tapping mains. Pure Tech checked the flow inside the pipe for optimal water movement for ease of the Sahara Parachute Probe and there were no flow issues. Timed at high demand time to get the maximum distance out of the probe, the disinfected probe was inserted into the main; using the flow of the water, began visual and acoustic inspection. Because of the large diameter of the transmission main it was not always possible to get the best look at the walls. No leaks whatsoever were found. Pieces of cement were found loose at flow reversal (reversal tends to stir things up). We are waiting to hear more about this in the Pure Technologies draft report and video which is pending. The board offered their congratulations.

DCR Greenway Update: Presented by Dave Kaplan, Watershed Manager - Bi weekly meetings have been held with contractor and DCR. The majority of rails and ties have been removed. Greenery has been cleared. The next steps will be installing erosion controls and rough grading to shape the site. This will continue until the weather degrades. Asphalt will be installed with drainage swales on either side. Sam suggested a site visit at the upcoming November water board meeting to view the demonstration/pilot lighting located at Danehy Park.

C. OPERATIONS

Transmission and Distribution:

Mr. Gallagher said crews have been keeping up with Department of Public Works street replacement to perform work on mains.

Watershed: When asked about the Tier II disposal site located at 40 Green Street, Waltham, Mr. Kaplan replied there is nothing of concern to the water supply. There are nominal amounts (oil, and/or hazardous materials) in isolated pockets. The developer has the responsibility of clean up and the process is overseen by DEP.

When asked to clarify needing estimates from Eversource to relocate utility pole at the Stony Brook Footbridge, Mr. Kaplan explained that the contractor has to relocate a utility pole and this will be an addition to the contract.

Business:

The new FY18 \$10.6 M water fund balance was noted.

Water Operations:

When asked about the turbidity meter replacement Mr. Dowling said ours were obsolete and we received 8 replacements. A turbidity meter measures the cloudiness of the water. The aeration system gets clogged up over time and this was cleaned by treatment plant staff.

Key Topics: 40" Transmission Main Evaluation Preliminary Report
DCR Greenway Update

Engineering:

No comments

D. ACTION ITEMS

None

E. MISCELLANEOUS CORRESPONDENCE AND ITEMS OF INTEREST

No comments

F. NEW BUSINESS

None

G. NEXT MEETING DATES/TOPICS

- November 13, 2018: Approved/DCR Greenway light pilot/Customer Service
- December 11, 2018: Approved/Election of the President/Draft Study Report
- January 8, 2019: Approved/TBD
- February 12, 2019 Approved/TBD

Ms. Kelly moved, and Ms. Roosevelt seconded the motion to adjourn the meeting at 6:16 p.m.
The vote was unanimous in favor of the motion.