

Section 6.0

Groundwater

6.0 GROUNDWATER

6.1 Impacts During Construction and Operation

Construction of the below-grade space of the children's Main Building Addition is anticipated to require excavation to approximately El. 10 Boston City Base (BCB), and a few feet below anticipated site groundwater levels (El. 12 BCB +/-). Temporary construction dewatering will be required to allow for construction of the below-grade space in-the-dry. Due to the fine-grained nature of the subsurface soils anticipated below groundwater levels, groundwater seepage into the excavation is anticipated to be minimal and dewatering of the excavation limited. Dewatering effluent will be recharged on-site when possible. It is anticipated that dewatering effluent that can not be managed on-site can be managed under a National Pollutant Discharge Elimination System (NPDES) permit.

During operation of the building, groundwater will be controlled by an underdrain system. This pressure relief system will be constructed below the lowest floor slab of the Main Building Expansion at an elevation consistent with the existing underdrain system of the Children's Main Building (estimated at approximately El. 12 BCB). As a result, the proposed underdrain system is not anticipated to adversely affect groundwater levels at the site.

6.2 Coordination with BGWT

The Project site is located approximately one block south of Longwood Avenue and the limit of the Groundwater Conservation Overlay District (GCOD). Accordingly, the Project is not required to comply with Article 32. However, the Proponent will coordinate with the Boston Groundwater Trust as necessary. General good groundwater management practices will be employed during construction and operation.