



# City of Peabody

## Department of Community Development and Planning

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### Crystal Lake Dredge Project Update January 9, 2017

#### Project Description:

The project will consist of dredging approximately 51,500 cubic yards of sediment from Crystal Lake to a maximum depth of 8 feet, and a small portion of Elginwood Pond. The dredging footprint will generally be at least 25 feet from shallower vegetated areas along the shorelines and shorelines along infrastructure, with the exceptions of areas needed for access and limited locations for fishing access, and cut slopes will be six units horizontal run to one unit vertical rise of flatter to maintain sediment stability. The work will be performed via dry mechanical dredging, with ponds drawn down through a combination of pumping and infrastructure modification to allow access through the pond bottoms for heavy machinery and trucks to promote drying of the sediment. The sediment will be excavated, loaded, and hauled off site for reuse or disposal.

The project will consist of dredging an area of up to approximately 7.8 acres of Crystal Lake and, if necessary to remediate dewatering discharges, a small area at the eastern edge of Elginwood Pond, as well as constructing a public park area adjacent to the intersection of Lowell Street and Crystal Drive in an upland area of approximately 15,800 square feet and a new footpath and overlook on the south side of Crystal Lake in an upland area of approximately 3,300 square feet.

#### Project Contact:

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|---------------------|--------------------------------------|--------------|
| • Robert Langley-   | Director of Engineering, DPS         | 978-536-7123 |
| • Brendan Callahan- | Assistant Director of Planning, CD&P | 978-538-5780 |
| • Ed Colbert-       | Neighborhood Representative          | 978-854-3558 |

#### Project Schedule:

- Dredge Work: December 2015 through June 2017
- Park Construction: June 2017 through September 2017

#### Completed Work since Project Start:

- Bathymetric Survey
- Installation of erosion controls
- Staging/access area cleared
- Discharge well established and piping was run through the culvert in Crystal Drive
- Stoplogs in outlet structure removed, reducing pond water surface
- Removal of remaining debris, inlet well establishment, placement of gravel for on-site hauling roads
- Pumping has commenced
- A small stockpile of sediment has been placed in planned loadout area to test dewaterability

**Planned Work:**

- Pumping will continue
- Excavation and stockpiling to initiate dewatering to commence
- Hauling Material off site for disposal
- Ground-breaking Ceremony scheduled for Wednesday January 11<sup>th</sup>, 2017 at 1:30 PM