

# McDonald Morrissey ASSOCIATES, LLC

GROUND WATER HYDROLOGISTS

280 Pleasant Street, Concord, NH 03301  
Phone: (603) 228-2280 Fax: (603) 228-2112  
www.mcdonaldmorrissey.com

May 16, 2024

By email:

Arlington Land Trust, Inc.  
Attn: Chris Leich  
P.O. Box 492  
Arlington, MA 02476  
[cmleich@comcast.net](mailto:cmleich@comcast.net)

**RE: Proposed Residential Development, Dorothy Road, Arlington, Massachusetts  
Frimpter Adjustments to Selected April and May Groundwater Elevations**

Dear Mr. Leich,

This letter presents the results of applying the Frimpter adjustments to certain groundwater elevations reported by BSC Group. Specifically, Frimpter adjustments were applied to groundwater elevations measured by BSC Group between April 17, 2024 and May 9, 2024 at four locations: TP-1, TP-6, TP-7, and TP-9.

The unadjusted elevations reported by BSC are represented in the following table:

Mon. Well / Test Pit	Unadjusted/Reported Groundwater Elevations			
	April 17, 2024	April 24, 2024	May 2, 2024	May 9, 2024
TP-1	3.01	2.87	2.69	2.74
TP-6	2.95	2.68	2.28	2.79
TP-7	3.47	3.30	3.05	3.26
TP-9	3.97	3.78	3.59	3.30

The following table reflects groundwater elevations adjusted using the Frimpter technique:

Mon. Well / Test Pit	Frimpter-Adjusted Groundwater Elevations			
	April 17, 2024	April 24, 2024	May 2, 2024	May 9, 2024
TP-1	5.90	6.35	6.88	5.89
TP-6	5.84	6.16	6.47	5.94
TP-7	6.36	6.78	7.24	6.41
TP-9	6.86	7.26	7.78	6.45

The following notes pertain to the Frimpter adjustment process:

- Reported values reflect probable maximum water levels estimated via the Frimpter method (feet, elevation);
- Calculations based on use of the following index well: MA-LTW 104 LEXINGTON, MA (OWmax = -0.05 ft, OWr = 3.81 ft);
- Calculations use 5% exceedance site range value of 7.1 ft (stratified drift, valley setting via USGS SIR 2020-5036, Figure 7); and
- Unadjusted groundwater elevations from a 5/2/24 BSC presentation delivered to the Arlington Conservation Commission and a 5/13/24 email from D. Rinaldi of BSC Group to D. Morgan of the Town of Arlington.

The results presented above are preliminary and based on information made available to MMA as of the indicated transmittal date. MMA therefore reserves the right to amend and/or extend the results based on expanded review and/or review of new information.

Sincerely,

A handwritten signature in black ink, appearing to be 'MAM', with a long horizontal flourish extending to the right.

Michael Mobile, Ph.D., CGWP  
President, McDonald Morrissey Associates, LLC

MAM/

Z:\1\_Projects\Arlington\Thorndike\_Place\7\_Reports\_and\_Memos\FINAL\_Frimpter\_APR\_MAY\_Levels\_5-16-24.docx