

Janet T. Mills
Governor

Jeanne M. Lambrew, Ph.D.
Commissioner



Maine Department of Health and Human Services
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September 5, 2023

Mike Broadbent, Superintendent
Auburn Water District (PWSID# ME0090070)
268 Court Street
Auburn, ME 04210

Kevin Gagne, Deputy Director of Public Works
City of Lewiston
Lewiston Water & Sewer Division (PWSID# ME0090830)
103 Adams Avenue
Lewiston, ME 04240

**Subject: Approved - Lake Auburn Source Water Protection Area Boundary Re-Delineation,
Gracelawn Parcel area, Auburn, ME**

Dear Mr. Broadbent and Mr. Gagne:

On August 7, 2023, you jointly submitted to the Maine CDC Drinking Water Program (DWP) a proposed Lake Auburn source water protection area boundary re-delineation for the Gracelawn Parcel area. The proposed delineation and supporting information are located in the July 31, 2023, CDM Smith technical memorandum Watershed Delineation Rezoning Review – Gracelawn Pit “Area of Uncertainty” (CDM Smith Report). Figure 1 from the CDM Smith report is included below for reference.

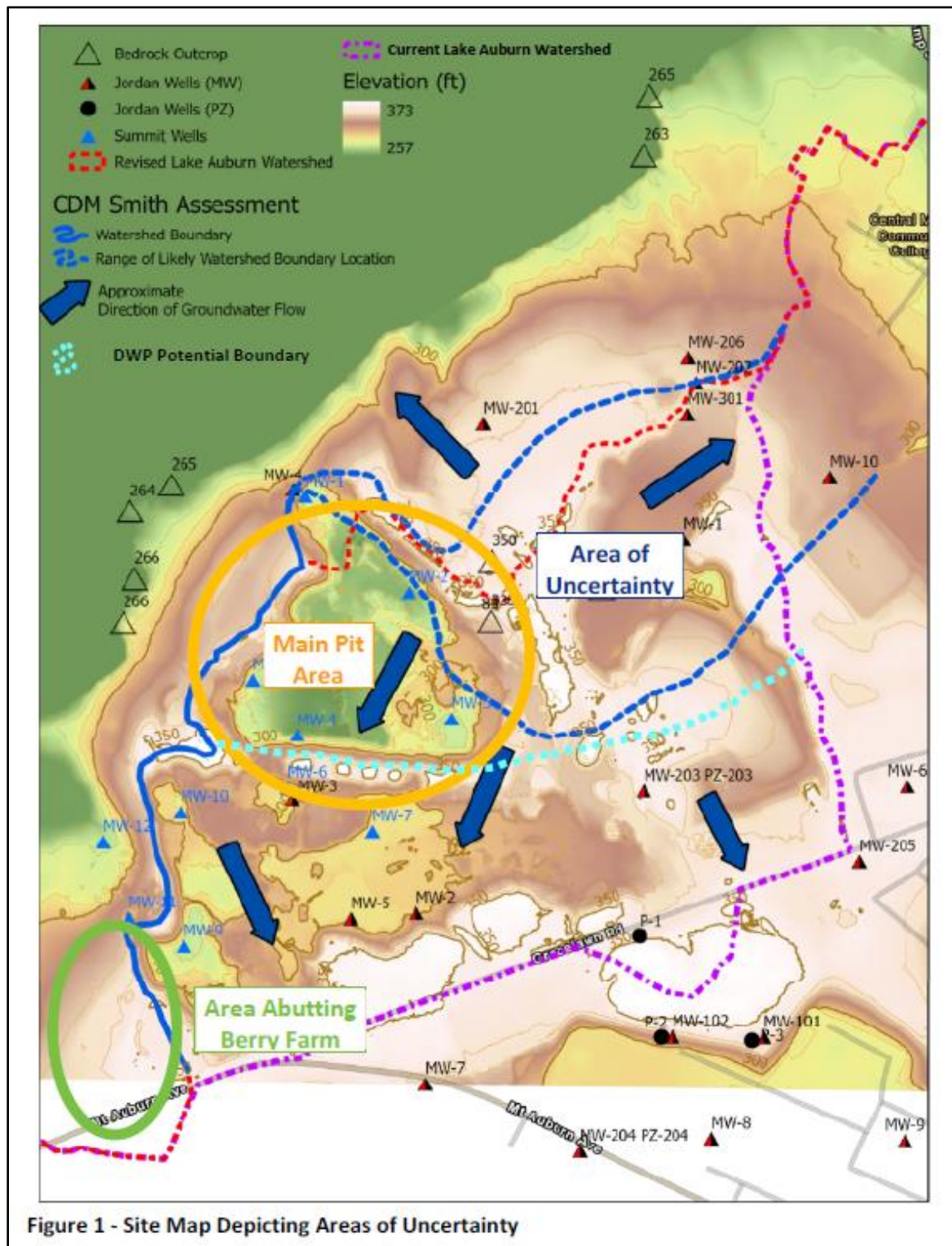
The DWP agrees with the CDM Smith finding that the “DWP Potential Boundary” on Figure 1 below is a conservative boundary that can be established with available data. The DWP will not challenge this boundary, based on our current understanding of local hydrogeology.

The DWP also agrees that further investigation would be needed to establish a boundary closer to Lake Auburn. In addition to the CDM Smith Report’s recommendations that additional data be added to further refine the boundary location, the DWP recommends the following additional action items:

- Investigate further and integrate any impacts of the apparent clay-silt layer in the “Main Pit Area” into the understanding of bedrock flow in the study area. This layer is identified in the Summit Environmental Consultants Inc., Ground Water Assessment, Gracelawn Road Gravel Pit, Auburn, ME, September 2007 (Summit Report) in the Well Completion Logs for MW-11 and MW-12. Stratigraphy is not included in the Well Completion Logs for the other borings in the Summit Report. Additionally, a clay-silt layer identified as the Presumpscot Formation is also shown in this area on the Maine Geological Survey Surficial Geology Map of the Lake Auburn East Quadrangle, Maine (Open-File No. 08-72 2008).
- Investigate further and provide an explanation of the apparent “upward head gradients, i.e., groundwater flow into the lake” in 10 of 12 lake bottom sediment probes discussed on Page 7 (Paragraph A, second bullet) and shown in Figure 7 of the October 5, 2022, CDM Smith Watershed Delineation Rezoning Review – Gravel Pit Parcel, Lake Auburn Watershed Protection Commission memorandum.

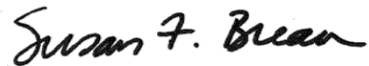
It is possible that additional information may be required to establish a boundary closer to Lake Auburn, as determined by the DWP at the time of that investigation.

CDM Smith Report, Figure 1:



Feel free to contact me regarding our feedback within this letter, and thank you for your good work providing safe drinking water.

Sincerely,

A handwritten signature in black ink that reads "Susan F. Breau". The signature is written in a cursive, flowing style.

Susan Breau, LG
Hydrogeologist, Water Resources Team Leader
Maine CDC Drinking Water Program
207.592.6981, susan.breau@maine.gov

cc Kevin Reilly, EPA Region 1
Denise Douin, DWP Public Water System Inspector; DWP file