

Luetje Geological Services, LLC
Ed Luetje, CG
153 Flying Point Road
Freeport, Maine 04032

May 28, 2020

Ms. Katie Haley
Town Manager
Town of Fryeburg
16 Lovewell Pond Road
Fryeburg, Maine 04037

RE: Q1 2020 Reporting – Rainmaker Spring Site (on behalf of Poland Spring)

INTRODUCTION

Nestle Waters North America Inc. (Poland Spring) acquired the Rainmaker Spring site in early August, 2017. This quarterly report (Q1 – January - March 2020) presents monitoring results for the site and satisfies the requirements under local Town Ordinance 17G: *Groundwater and/or Spring Water Extraction*, the Approved Land Use Authorization.

Luetje Geological Services (LGS), an independent hydrogeologic consulting firm, has been contracted by Poland Spring to collect and compile the monitoring data from the Rainmaker Spring site. Monitoring activities include the following:

- Weekly depth to water measurements in five monitoring wells and four piezometers;
- Weekly monitoring of surface water elevation on Wards Pond at Route 113 and west of the site proximate to Spring 2, when possible;
- Weekly flow measurements from Spring 1 and 2, when possible;
- Record of groundwater withdrawal (gallons pumped); and
- Precipitation tracking (Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center)).

Figure 1 (Site Map) is provided at the end of this letter report and shows all monitoring locations.

MONITORING RESULTS

As mentioned above, Poland Spring acquired the Rainmaker Spring site in August 2017. LGS initiated monitoring of the site on August 23, 2017. Previous monitoring and reporting was conducted by the preceding owners and their consultants (CES, Inc.), whose files are available for review at the Fryeburg Town Office.

GROUNDWATER

Groundwater levels are measured in five monitoring wells at locations shown in Figure 1. All monitoring data is tabulated and located in Table 1. A graphical representation of groundwater elevations, and weekly precipitation, is provided in Figure 2.

During Q1 2020, groundwater levels were stable from the beginning of Q1 to the February 21st monitoring event, and then dropped slightly (~0.25 foot) from the February 21st monitoring round to the March 17th monitoring round. This likely represents the seasonal winter decline. The remainder of Q1 saw groundwater levels rise in response to groundwater infiltration related to

snow pack melt, and represents the start of the seasonal groundwater level rise generally seen during the spring.

SURFACE WATER

Surface water monitoring, as described in earlier reports, is conducted at two locations. SG-1, installed on October 12, 2017, is located in Wards Pond west of Spring-2. WPMP-1 is located on the upstream side of Route 113 in Wards Pond (see Figure 1). A graphical representation of surface water elevations is shown in Figure 3.

During Q1 2020, SG-1 saw ice conditions prevail through February followed by submerged conditions through the remainder of the quarter. Surface water levels at WPMP-1 were relatively stable, ranging from 397.02 feet to 397.54 feet NAVD88; however, water levels at WPMP-1 began to rise towards the end of Q1 resulting in the highest elevation at WPMP-1 for Q1 being recorded on March 31st. This upward trend at the end of Q1 is likely in response to seasonal spring melt.

PIEZOMETER WATER LEVELS

Water levels are measured at two piezometers located adjacent to each spring. PZ-21D and PZ-21S are located near Spring 1 and P-1 and P-2 are located near Spring 2 (see Figure 1). A graphical representation of piezometer water elevations is shown in Figure 3.

During Q1 2020, and as shown in Figure 3, water levels in all piezometers, trended down slightly from the beginning of Q1 to the beginning of March (winter seasonal decline), and then started to rise beginning in March. This rise represents the start of the seasonal spring melt and subsequent rise in water levels.

SPRING FLOW

During Q1 2020, the ability to measure flow from Spring-1 occurred between the monitoring events from January 8th through February 26th. Flow from Spring-1 ranged from 10.91 – 15.00 liters per minute during that time. The spring outflow was submerged for the remainder of site monitoring events during Q1.

Flow measurements from Spring-2 could not be made during Q1 2020 due to submerged conditions. Beaver activity has clogged flow under the railroad bed/trail just downstream from Spring-1 causing water levels in the spring catchment area to remain higher than normal. Flow measurement data is presented in Table 1.

PRECIPITATION

Precipitation data has been obtained from the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), located approximately two miles to the south of the site. Missing data from the airport station are supplemented with data collected from an on-site

rain gauge located at the Evergreen Spring load station. During Q1 2020 (between the dates 12/24/2019 – 3/31/2020), KIZG recorded 10.60 inches of precipitation (Figure 2 and Figure 3).

WITHDRAWALS

Poland Spring did not withdraw any water from the Rainmaker Spring site production well during Q1 2020.

CONCLUSIONS

Groundwater levels (including piezometer water levels) and surface water levels showed typical seasonal trends during Q1 2020. A winter decline was observed followed by a rise in groundwater and surface water levels starting in March. The seasonal spring melt generally leads to increased infiltration to groundwater and rising groundwater and surface water levels.

During Q1 2020 (between the dates 12/24/2019 – 3/31/2020), KIZG recorded 10.60 inches of precipitation.

Only a limited number of flow measurements were able to be taken from Spring-1 during Q1 2020 (between 1/8/2020 – 2/26/2020). Flow measurements ranged from 10.91 – 15.00 liters per minute from Spring-1 during that time. No measurements were made from Spring-2 due to submerged conditions. No withdrawal from the production well occurred during Q1 2020.

If you have any questions regarding the data included in this report, please do not hesitate to contact me at (207) 415-9898.

Sincerely,
Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Poland Spring (Mr. Mark Dubois, Mr. Joshua Bowe)
Town of Fryeburg, CEO (Mr. John Wiesemann)

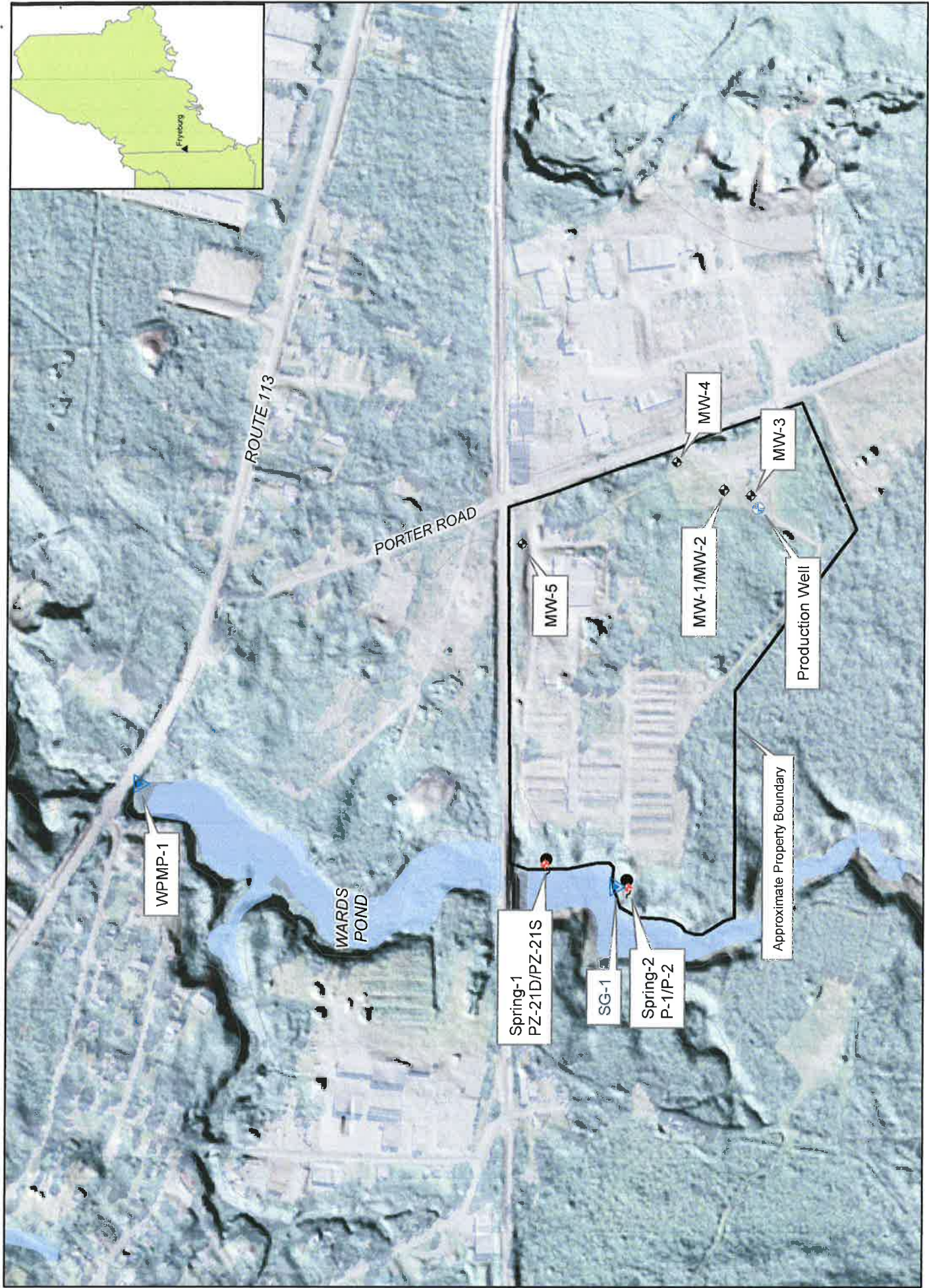


FIGURE 1
 RAINMAKER SPRING SITE MAP
 FRYEBURG, MAINE

FIGURE 2
GROUNDWATER ELEVATION DATA - WEEKLY PRECIPITATION

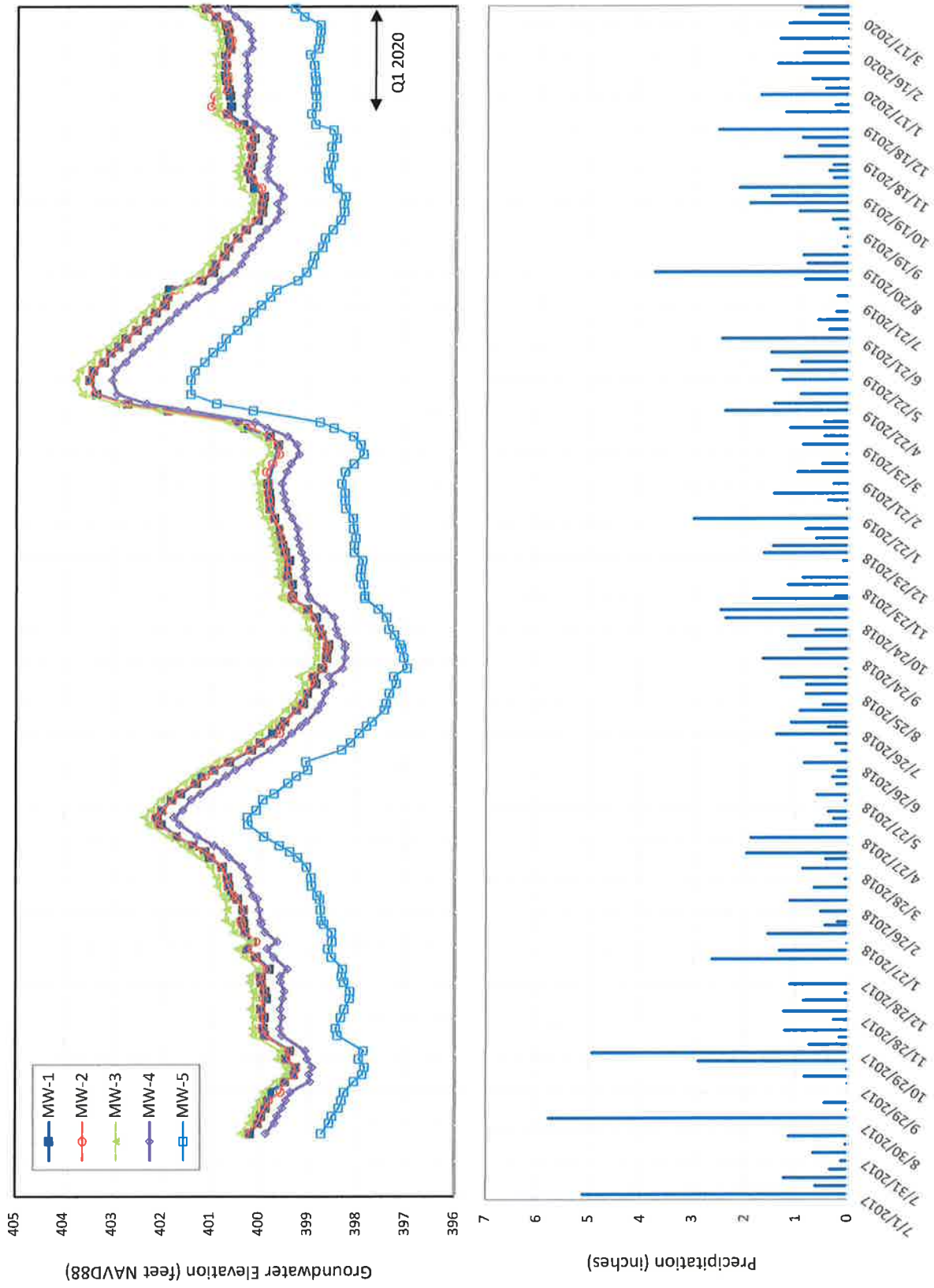


FIGURE 3
SURFACE WATER and PIEZOMETER ELEVATION DATA - WEEKLY PRECIPITATION

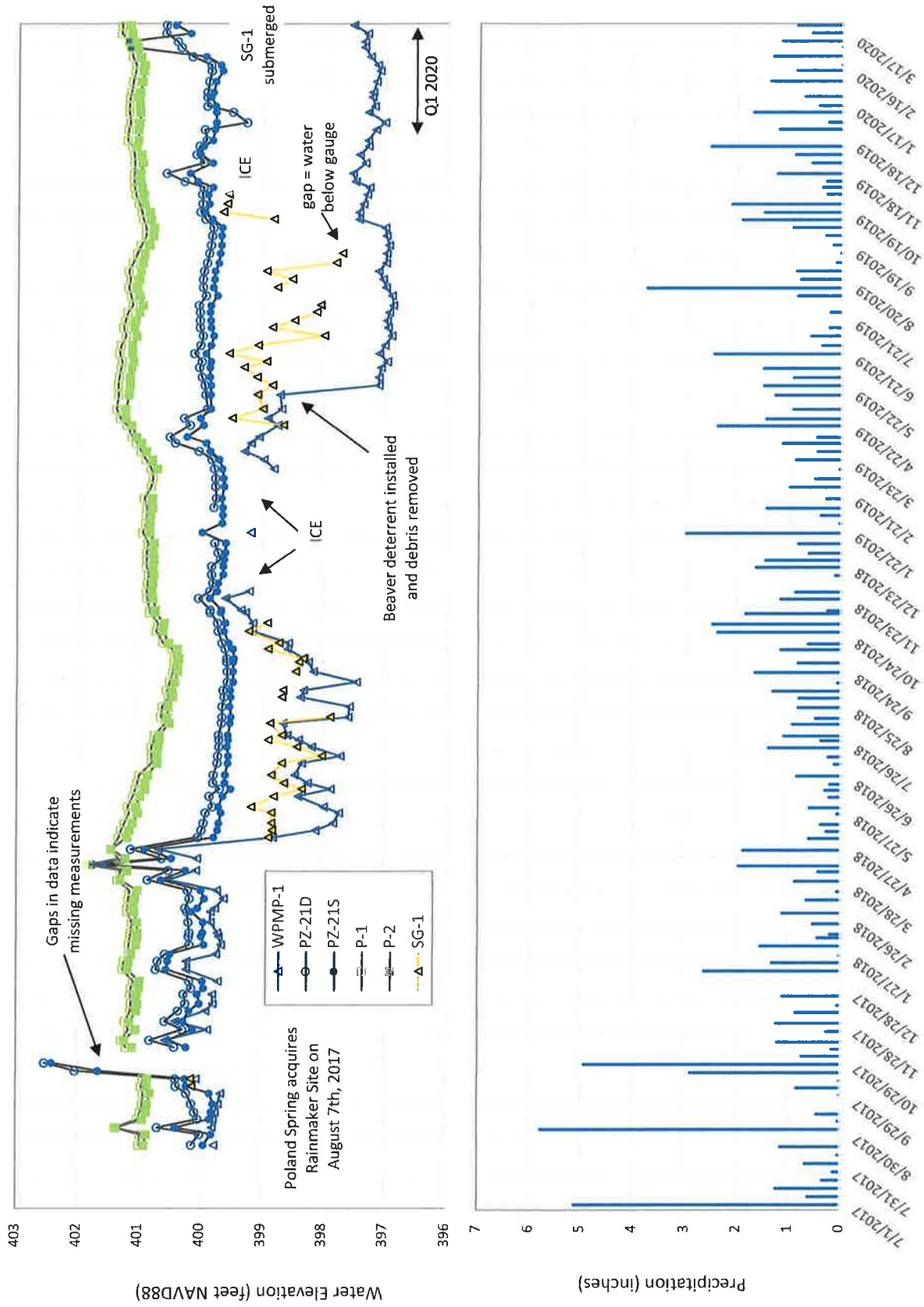


TABLE 1
MONITORING DATA
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FRYEBURG, MAINE

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