



Luetje Geological Services, LLC
Ed Luetje, CG
46 Whittier Street
Portland, Maine 04103

February 26, 2010

Attn: Town Manager
Town of Fryeburg
16 Lovewell's Pond Road
Fryeburg, Maine 04037

RE: January 2010 Voluntary Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Poland Spring to collect and compile data from the Wards Brook Aquifer. Poland Spring is not required to submit these data but is doing so voluntarily to the Town of Fryeburg.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-01; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on January 19th, 2010.

**TABLE 1: GROUNDWATER ELEVATION DATA
JANUARY 19th, 2010**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	399.42
MW-103	421.58	412.28
MW-105	404.98	380.94
MW-107	431.95	425.87
MW-108	419.89	411.57
MW-109	420.11	400.00
MW-110	461.86	419.65
MW-113	441.13	422.11
MW-114	405.20	385.73
TW-2 ⁴	404.18	405.28
TW-9	409.24	411.59

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. The surface water measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gauge (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gauge (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on January 19th, 2010.

**TABLE 2: SURFACE WATER ELEVATION DATA
JANUARY 19th, 2010**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.83	363.06
WPMP-1	401.27	397.23
SRMP-1	418.79	Frozen
WPSG-2A	405.27	Frozen

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gauge for surface water stations) elevation in feet NAVD.
2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for January, 2010.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
JANUARY, 2010**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	1.88
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	1.84

WITHDRAWALS

Spring water volume withdrawn from Borehole-1 totaled 4,619,805 gallons for the month of January, 2010 as measured by flow meters located at the load station facility.

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

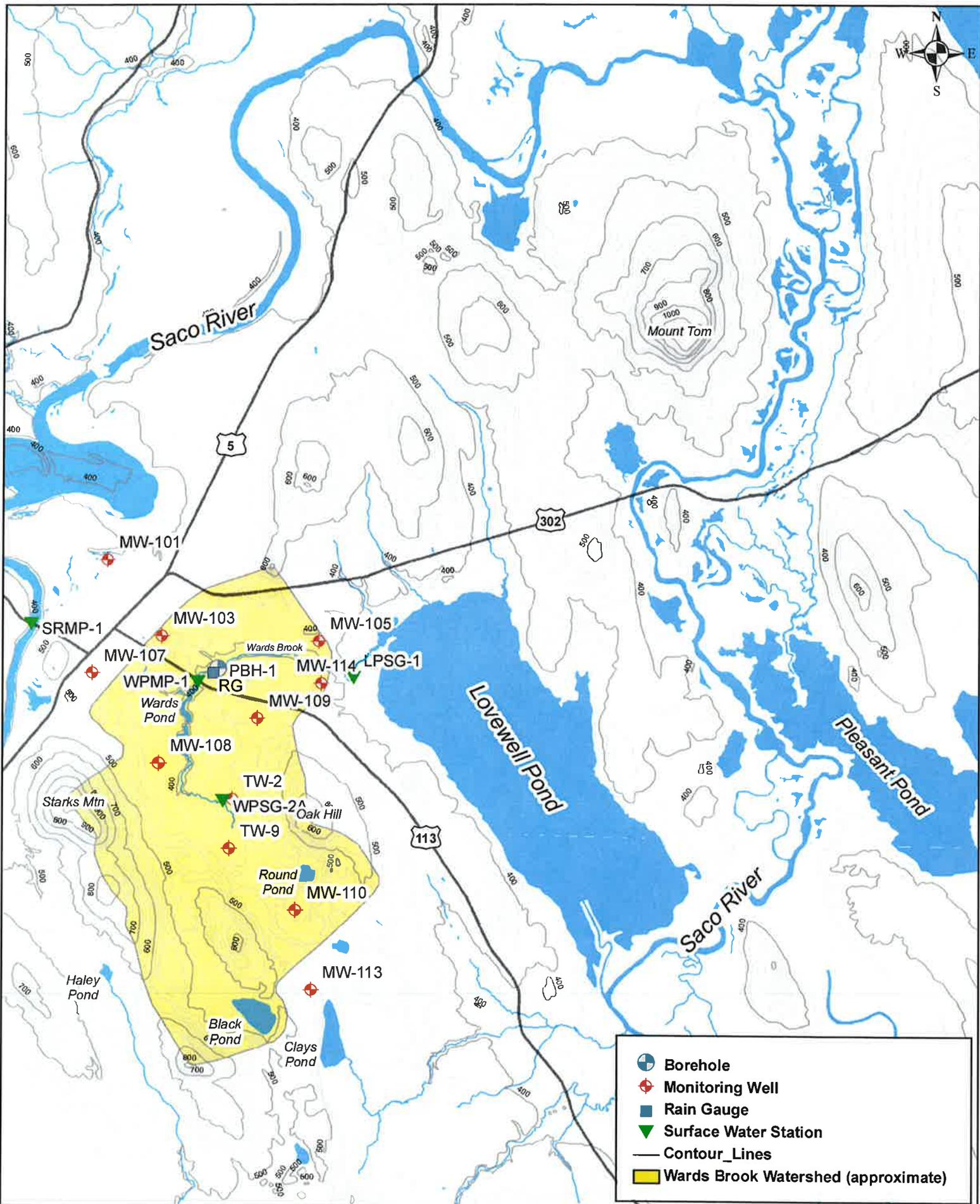
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



Notes:
 All general data layers acquired from the Maine Office of GIS.
 Contours are 20' intervals.



FIGURE 1
 VOLUNTARY AQUIFER MONITORING REPORT
 LGS REF# 08-011
 DATE: 12/16/2009

4-2-10- Copies for
Cliff
Tom
Ed



Luetje Geological Services, LLC
Ed Luetje, CG
46 Whittier Street
Portland, Maine 04103

March 30, 2010

Attn: Town Manager
Town of Fryeburg
16 Lovewell's Pond Road
Fryeburg, Maine 04037

RE: February 2010 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc., parent company of Poland Spring Bottling Co. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on February 18th, 2010.

**TABLE 1: GROUNDWATER ELEVATION DATA
FEBRUARY 18th, 2010**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	399.57
MW-103	421.58	411.99
MW-105	404.98	380.75
MW-107	431.95	425.49
MW-108	419.89	411.31
MW-109	420.11	399.80
MW-110	461.86	419.33
MW-113	441.13	421.97
MW-114	405.20	385.56
TW-2 ⁴	404.18	405.96
TW-9	409.24	411.18

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. The surface water measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gauge (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gauge (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on February 18th, 2010.

**TABLE 2: SURFACE WATER ELEVATION DATA
FEBRUARY 18th, 2010**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.83	362.98
WPMP-1	401.27	397.16
SRMP-1	418.79	397.54
WPSG-2A	405.27	Frozen

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gauge for surface water stations) elevation in feet NAVD.
2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for February, 2010.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
FEBRUARY, 2010**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	4.14
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	4.58

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 4,235,897 gallons for the month of February, 2010.

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

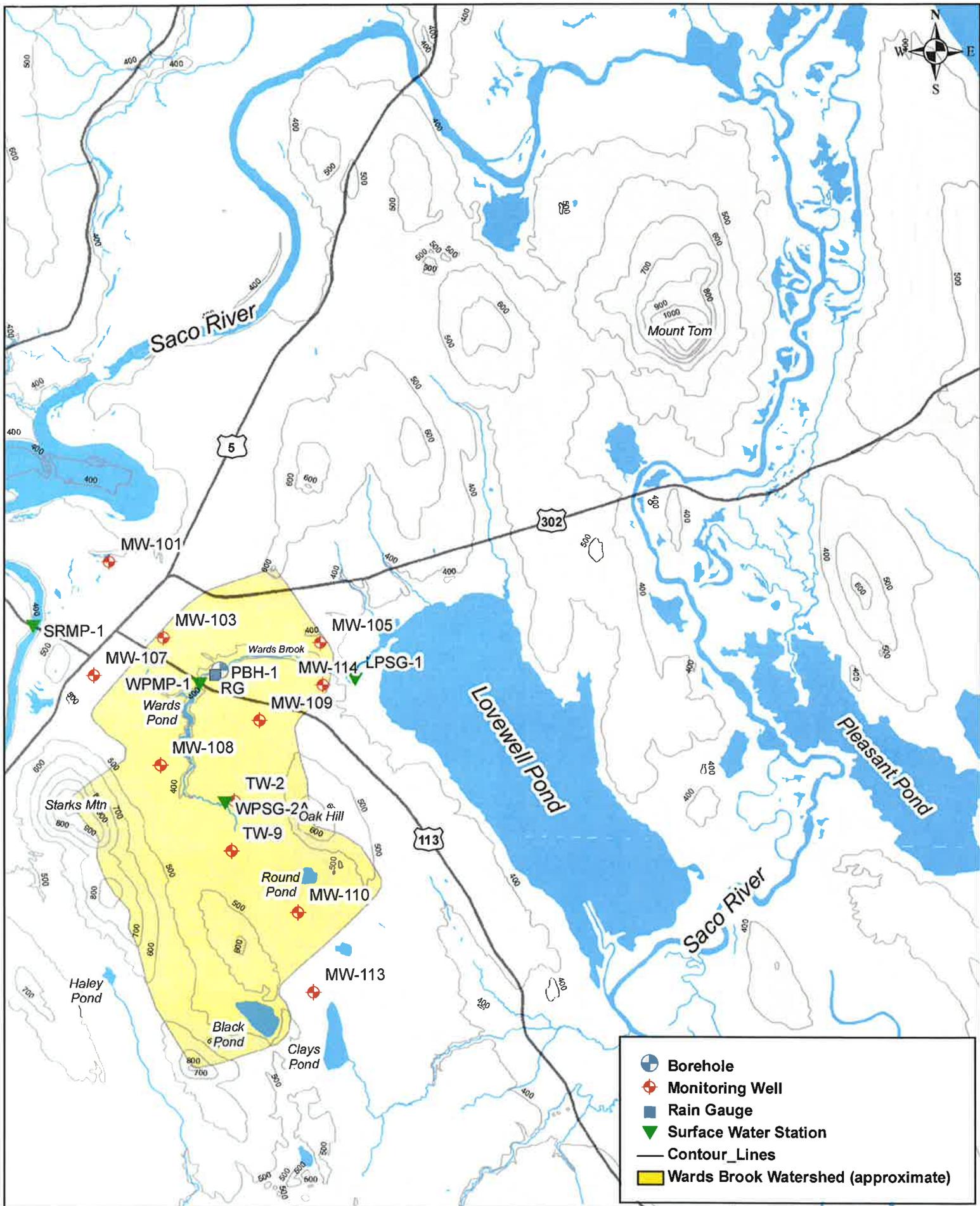
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



Notes:
 All general data layers acquired from the Maine Office of GIS.
 Contours are 20' intervals.



FIGURE 1
 VOLUNTARY AQUIFER MONITORING REPORT
 LGS REF# 08-011
 DATE: 12/16/2009



April 26, 2010

Attn: Town Manager
Town of Fryeburg
16 Lovewell's Pond Road
Fryeburg, Maine 04037

RE: March 2010 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc., parent company of Poland Spring Bottling Co. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on March 18th, 2010.

**TABLE 1: GROUNDWATER ELEVATION DATA
MARCH 18th, 2010**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	400.51
MW-103	421.58	413.34
MW-105	404.98	381.75
MW-107	431.95	427.46
MW-108	419.89	412.26
MW-109	420.11	400.50
MW-110	461.86	419.77
MW-113	441.13	422.33
MW-114	405.20	387.40
TW-2 ⁴	404.18	406.52
TW-9	409.24	411.68

- Notes:
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 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
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SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. The surface water measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
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- Wards Pond Staff Gauge (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on March 18th, 2010.

**TABLE 2: SURFACE WATER ELEVATION DATA
MARCH 18th, 2010**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.83	363.60
WPMP-1	401.27	397.46
SRMP-1	418.79	397.99
WPSG-2A	405.27	401.87

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PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for March, 2010.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
MARCH, 2010**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	7.65
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	7.89

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 3,707,585 gallons for the month of March, 2010.

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

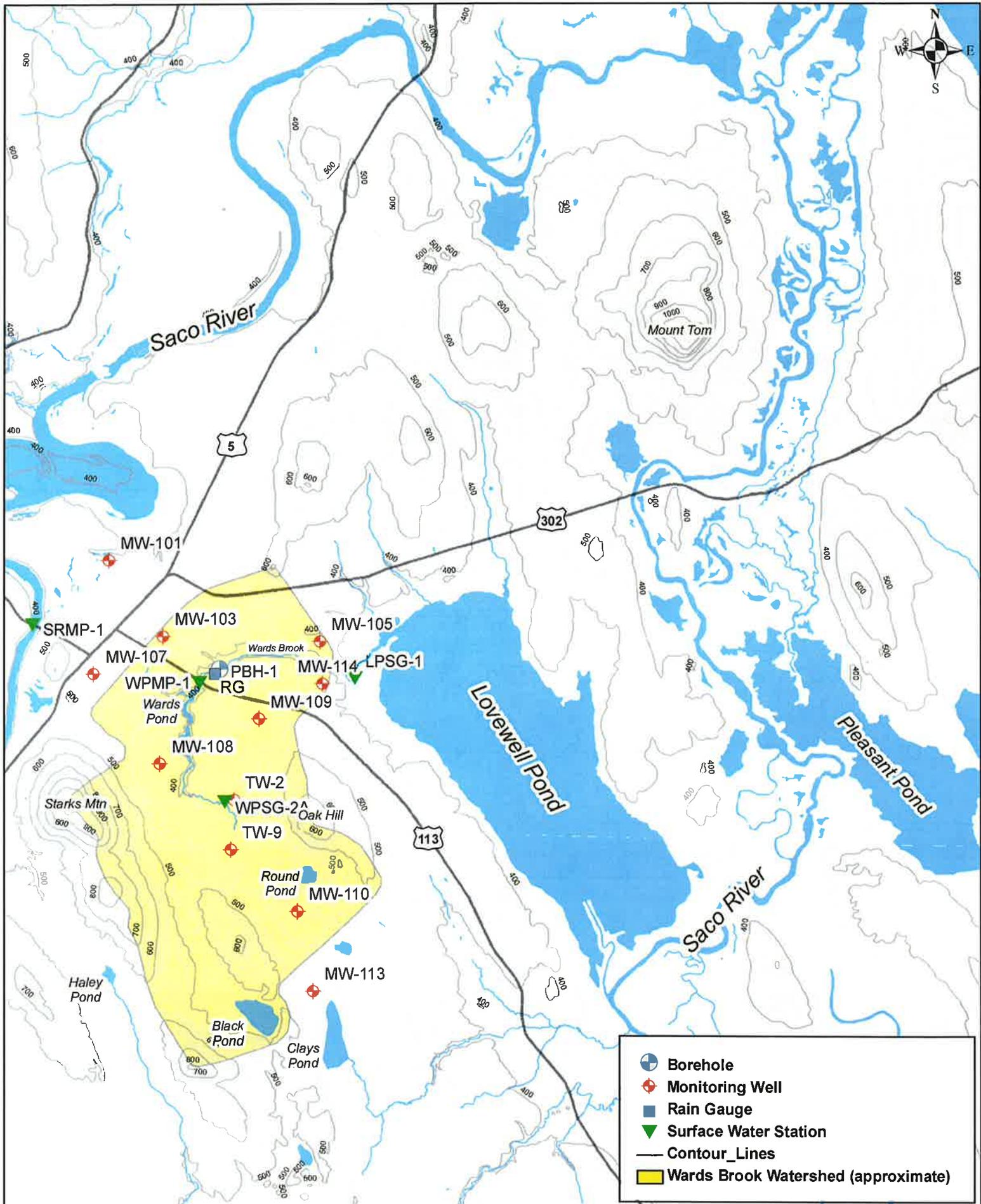
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



Notes:
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 Contours are 20' intervals.



FIGURE 1
 VOLUNTARY AQUIFER MONITORING REPORT
 LGS REF# 08-011
 DATE: 12/16/2009



May 26, 2010

Attn: Town Manager
Town of Fryeburg
16 Lovewell's Pond Road
Fryeburg, Maine 04037

RE: April 2010 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc., parent company of Poland Spring Bottling Co. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

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GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on April 20th, 2010.

**TABLE 1: GROUNDWATER ELEVATION DATA
APRIL 20th, 2010**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	400.38
MW-103	421.58	414.34
MW-105	404.98	382.42
MW-107	431.95	428.37
MW-108	419.89	413.22
MW-109	420.11	402.24
MW-110	461.86	422.68
MW-113	441.13	423.96
MW-114	405.20	387.41
TW-2 ⁴	404.18	408.90
TW-9	409.24	413.87

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
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Table 2 presents the surface water elevation data measured on April 20th, 2010.

**TABLE 2: SURFACE WATER ELEVATION DATA
APRIL 20th, 2010**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.85	363.46
WPMP-1	401.27	397.40
SRMP-1	418.79	397.54
WPSG-2A	404.95	401.47

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PRECIPITATION

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Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for April, 2010.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
APRIL, 2010**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	3.25
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	3.37

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 10,084,608 gallons for the month of April, 2010.

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

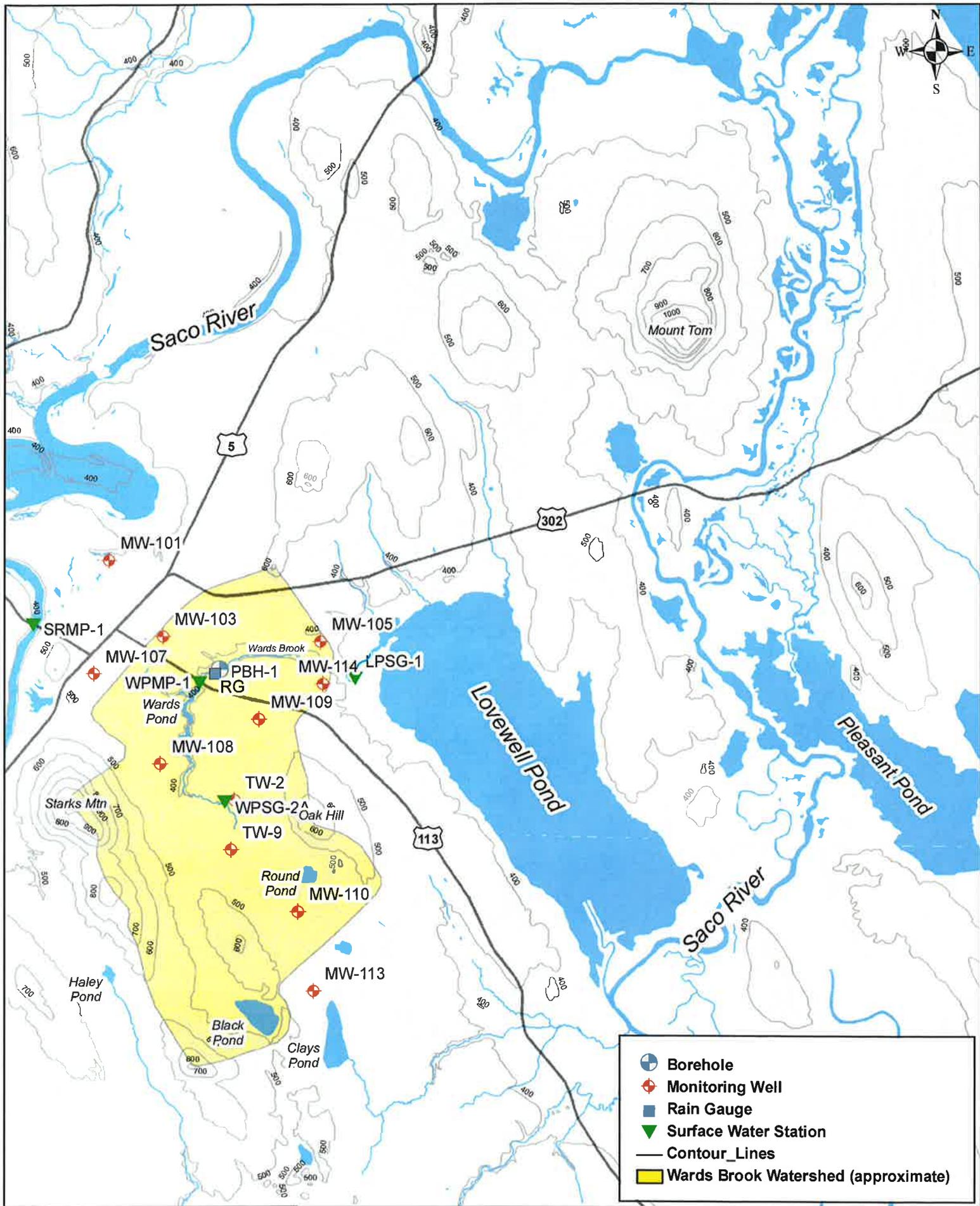
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FIGURE 1
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 LGS REF# 08-011
 DATE: 12/16/2009



June 26, 2010

Attn: Town Manager
Town of Fryeburg
16 Lovewell's Pond Road
Fryeburg, Maine 04037

RE: May 2010 Aquifer Monitoring Report

INTRODUCTION

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**TABLE 1: GROUNDWATER ELEVATION DATA
MAY 19th, 2010**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
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MW-103	421.58	413.54
MW-105	404.98	381.53
MW-107	431.95	427.23
MW-108	419.89	412.22
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MW-110	461.86	422.28
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TW-2 ⁴	404.18	407.91
TW-9	409.24	412.91

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Table 2 presents the surface water elevation data measured on May 19th, 2010.

**TABLE 2: SURFACE WATER ELEVATION DATA
MAY 19th, 2010**

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**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
MAY, 2010**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	1.46
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	1.58

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 11,984,016 gallons for the month of May, 2010.

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

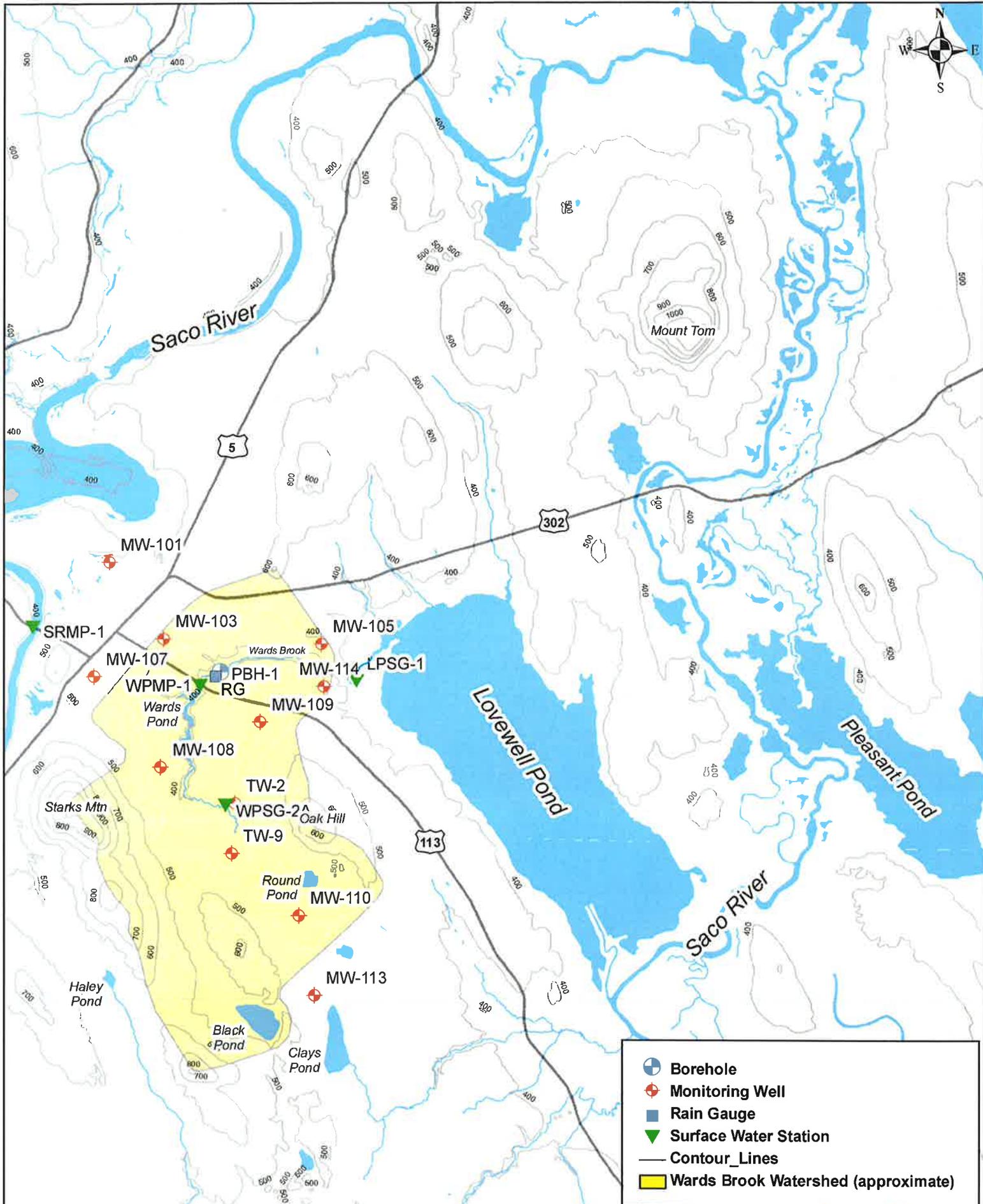
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Luetje Geological Services, LLC
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Portland, Maine 04101

July 27, 2010

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RE: June 2010 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc., parent company of Poland Spring Bottling Co. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on June 21st, 2010.

**TABLE 1: GROUNDWATER ELEVATION DATA
JUNE 21st, 2010**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	398.19
MW-103	421.58	412.72
MW-105	404.98	380.68
MW-107	431.95	425.68
MW-108	419.89	411.18
MW-109	420.11	400.03
MW-110	461.86	421.14
MW-113	441.13	422.91
MW-114	405.20	384.87
TW-2 ⁴	404.18	406.59
TW-9	409.24	411.87

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. The surface water measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gauge (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gauge (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 13,608,790 gallons for the month of June, 2010.

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

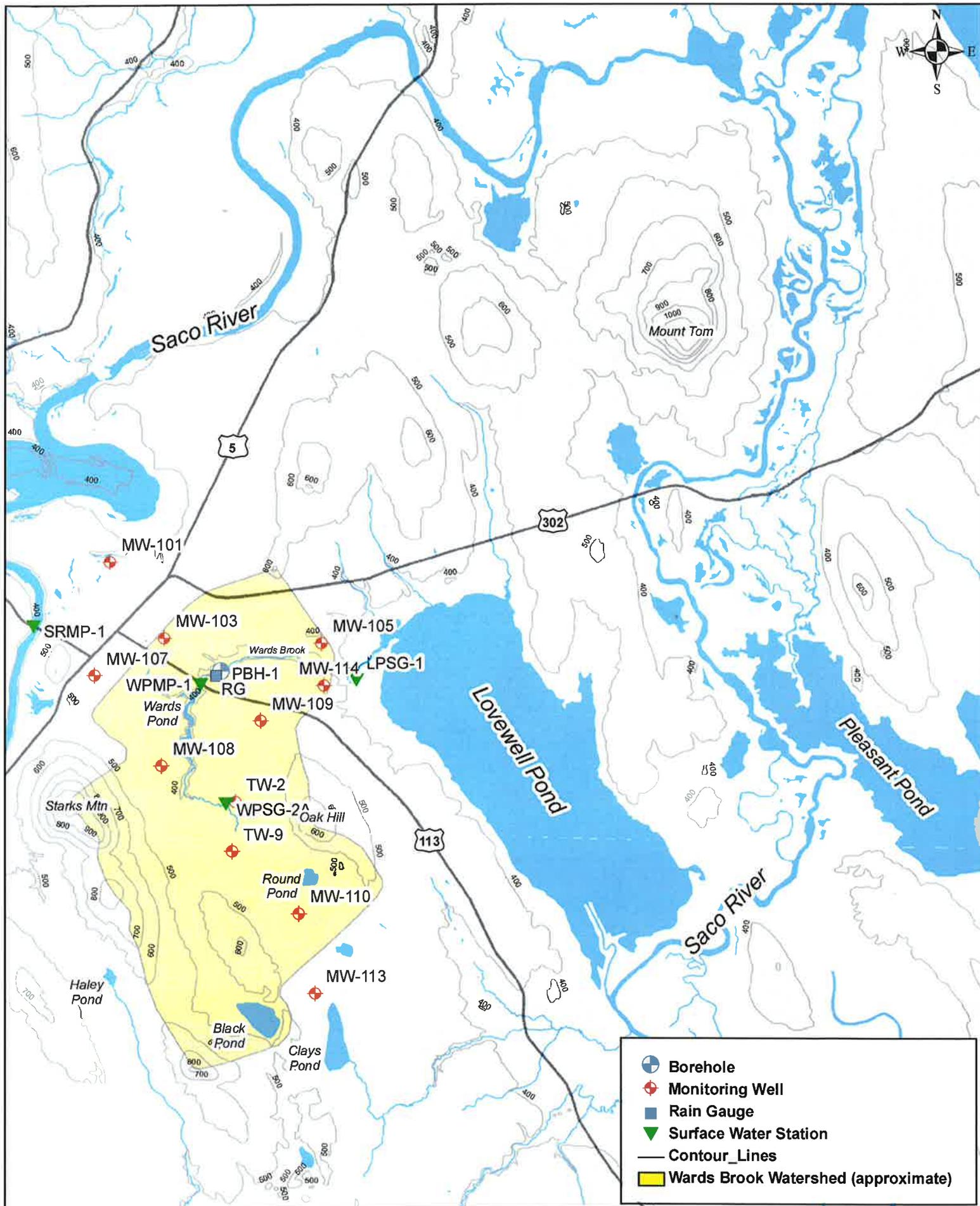
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



Notes:
All general data layers acquired from the Maine Office of GIS.
Contours are 20' intervals.

0 0.5 1 2 Miles

FIGURE 1
VOLUNTARY AQUIFER MONITORING REPORT
LGS REF# 08-011
DATE: 12/16/2009



Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

*Copies: Selectmen
10/14/10 5/1men meeting*

August 26, 2010

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell's Pond Road
Fryeburg, Maine 04037

RE: July 2010 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc., parent company of Poland Spring Bottling Co. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on July 19th, 2010.

**TABLE 1: GROUNDWATER ELEVATION DATA
JULY 19th, 2010**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	397.38
MW-103	421.58	411.92
MW-105	404.98	380.08
MW-107	431.95	424.11
MW-108	419.89	409.99
MW-109	420.11	398.92
MW-110	461.86	420.05
MW-113	441.13	422.24
MW-114	405.20	383.88
TW-2 ⁴	404.18	405.26
TW-9	409.24	411.01

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
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SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. The surface water measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
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- Lovewell Pond Staff Gauge (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gauge (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on July 19th, 2010.

**TABLE 2: SURFACE WATER ELEVATION DATA
JULY 19th, 2010**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.85	362.70
WPMP-1	401.27	396.97
SRMP-1	418.79	395.21
WPSG-2A	404.95	400.99

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gauge for surface water stations) elevation in feet NAVD.
2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for July, 2010.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
JULY, 2010**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	2.18
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	2.47

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 17,620,087 gallons for the month of July, 2010.

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

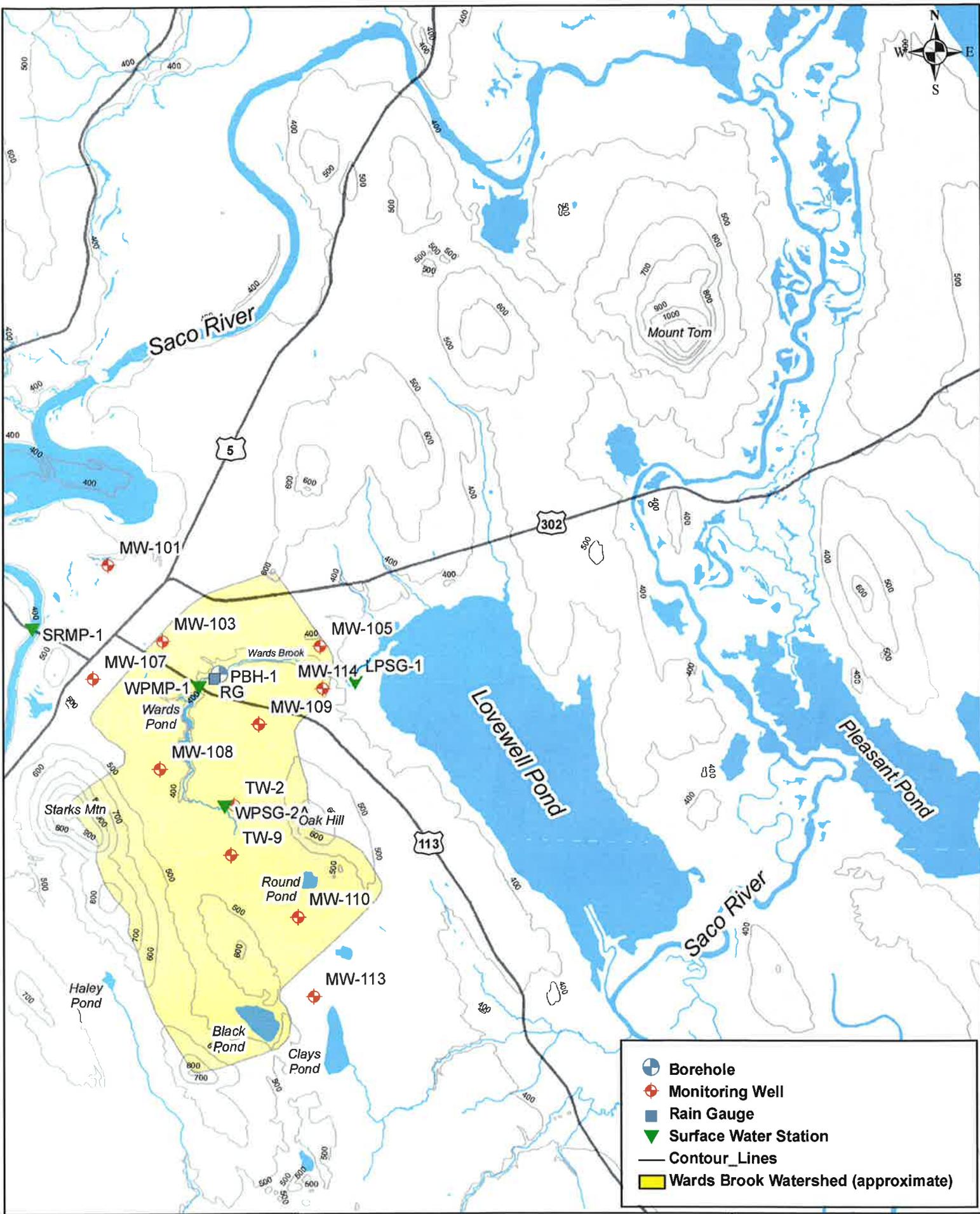
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



Notes:
 All general data layers acquired from the Maine Office of GIS.
 Contours are 20' intervals.



FIGURE 1
 VOLUNTARY AQUIFER MONITORING REPORT
 LGS REF# 08-011
 DATE: 12/16/2009



Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

*9-29-10 copies
to s/men
10-14-10
s/men meeting*

September 26, 2010

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell's Pond Road
Fryeburg, Maine 04037

RE: August 2010 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc., parent company of Poland Spring Bottling Co. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on August 19th, 2010.

**TABLE 1: GROUNDWATER ELEVATION DATA
AUGUST 19th, 2010**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	396.47
MW-103	421.58	411.04
MW-105	404.98	379.52
MW-107	431.95	422.44
MW-108	419.89	408.76
MW-109	420.11	397.93
MW-110	461.86	418.83
MW-113	441.13	421.38
MW-114	405.20	382.80
TW-2 ⁴	404.18	402.81
TW-9	409.24	409.82

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. The surface water measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gauge (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gauge (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on August 19th, 2010.

**TABLE 2: SURFACE WATER ELEVATION DATA
AUGUST 19th, 2010**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.85	362.70
WPMP-1	401.27	396.96
SRMP-1	418.79	395.00
WPSG-2A	404.95	400.84

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gauge for surface water stations) elevation in feet NAVD.
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PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for August, 2010.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
AUGUST, 2010**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	3.08
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	3.89

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 15,159,394 gallons for the month of August, 2010.

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

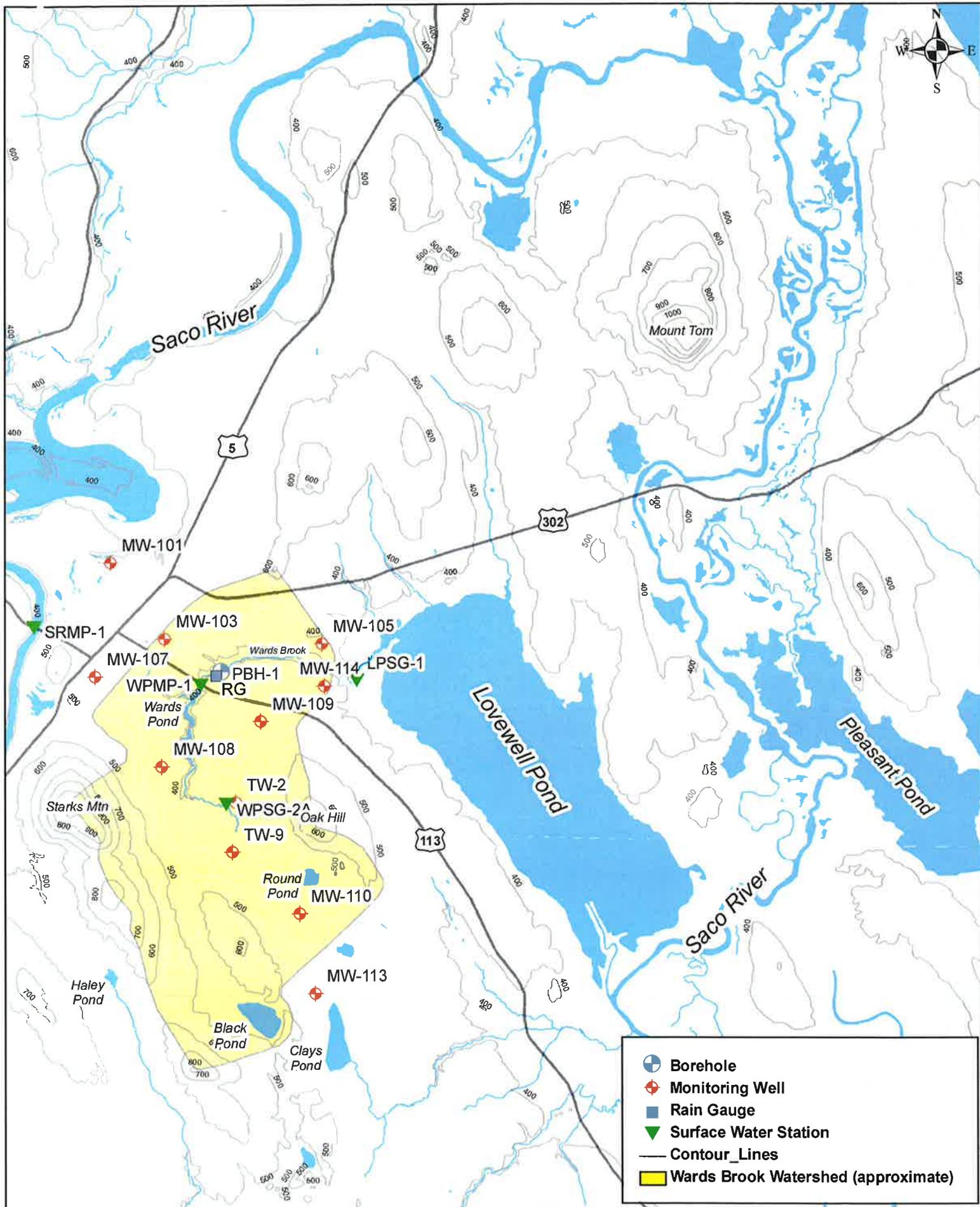
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



Notes:
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 Contours are 20' intervals.



FIGURE 1
 VOLUNTARY AQUIFER MONITORING REPORT
 LGS REF# 08-011
 DATE: 12/16/2009



Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

October 26, 2010

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell's Pond Road
Fryeburg, Maine 04037

RE: September 2010 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc., parent company of Poland Spring Bottling Co. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on September 20th, 2010.

**TABLE 1: GROUNDWATER ELEVATION DATA
SEPTEMBER 20th, 2010**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	396.82
MW-103	421.58	410.47
MW-105	404.98	379.27
MW-107	431.95	421.35
MW-108	419.89	408.35
MW-109	420.11	397.32
MW-110	461.86	417.69
MW-113	441.13	420.70
MW-114	405.20	382.13
TW-2 ⁴	404.18	403.35
TW-9	409.24	409.22

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. The surface water measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
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- Wards Pond Staff Gauge (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on September 20th, 2010.

**TABLE 2: SURFACE WATER ELEVATION DATA
SEPTEMBER 20th, 2010**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.85	362.72
WPMP-1	401.27	397.04
SRMP-1	418.79	395.99
WPSG-2A	404.95	400.95

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gauge for surface water stations) elevation in feet NAVD.
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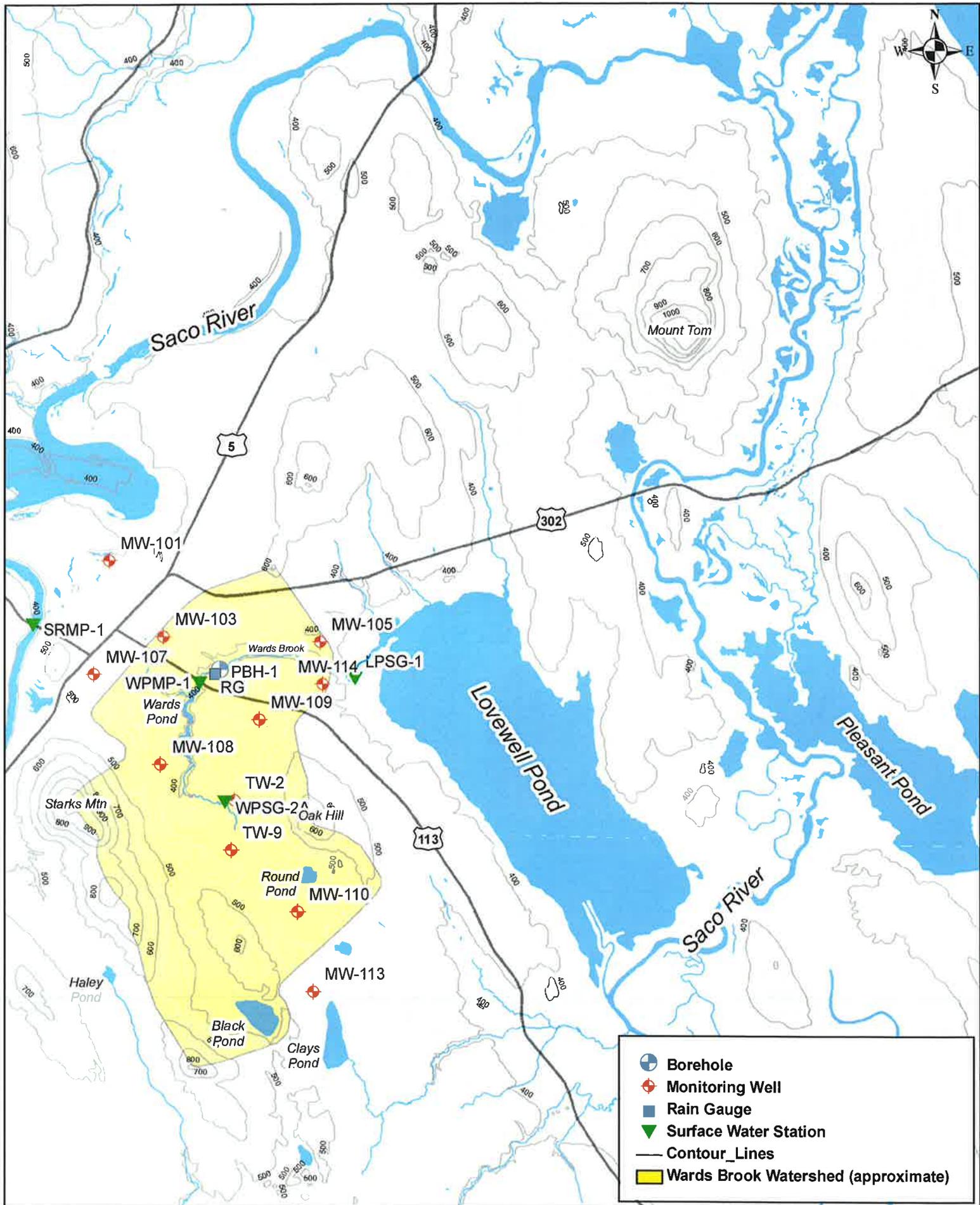
PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for September, 2010.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
SEPTEMBER, 2010**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	3.16
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	3.51



Notes:
 All general data layers acquired from the Maine Office of GIS.
 Contours are 20' intervals.



FIGURE 1
 VOLUNTARY AQUIFER MONITORING REPORT
 LGS REF# 08-011
 DATE: 12/16/2009



*copies to s/men
12-2-10*

Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

November 29, 2010

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell's Pond Road
Fryeburg, Maine 04037

RE: October 2010 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc., parent company of Poland Spring Bottling Co. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

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GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on October 20th, 2010.

**TABLE 1: GROUNDWATER ELEVATION DATA
OCTOBER 20th, 2010**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	398.44
MW-103	421.58	410.50
MW-105	404.98	379.53
MW-107	431.95	421.15
MW-108	419.89	409.03
MW-109	420.11	397.34
MW-110	461.86	416.84
MW-113	441.13	420.33
MW-114	405.20	382.60
TW-2 ⁴	404.18	403.37
TW-9	409.24	408.96

- Notes:
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SURFACE WATER

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- Wards Pond Staff Gauge (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on October 20th, 2010.

**TABLE 2: SURFACE WATER ELEVATION DATA
OCTOBER 20th, 2010**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.85	362.98
WPMP-1	401.27	397.13
SRMP-1	418.79	397.11
WPSG-2A	404.95	400.98

Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gauge for surface water stations) elevation in feet NAVD.
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Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for October, 2010.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
OCTOBER, 2010**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	5.29
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	6.01

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 5,208,356 gallons for the month of October, 2010.

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

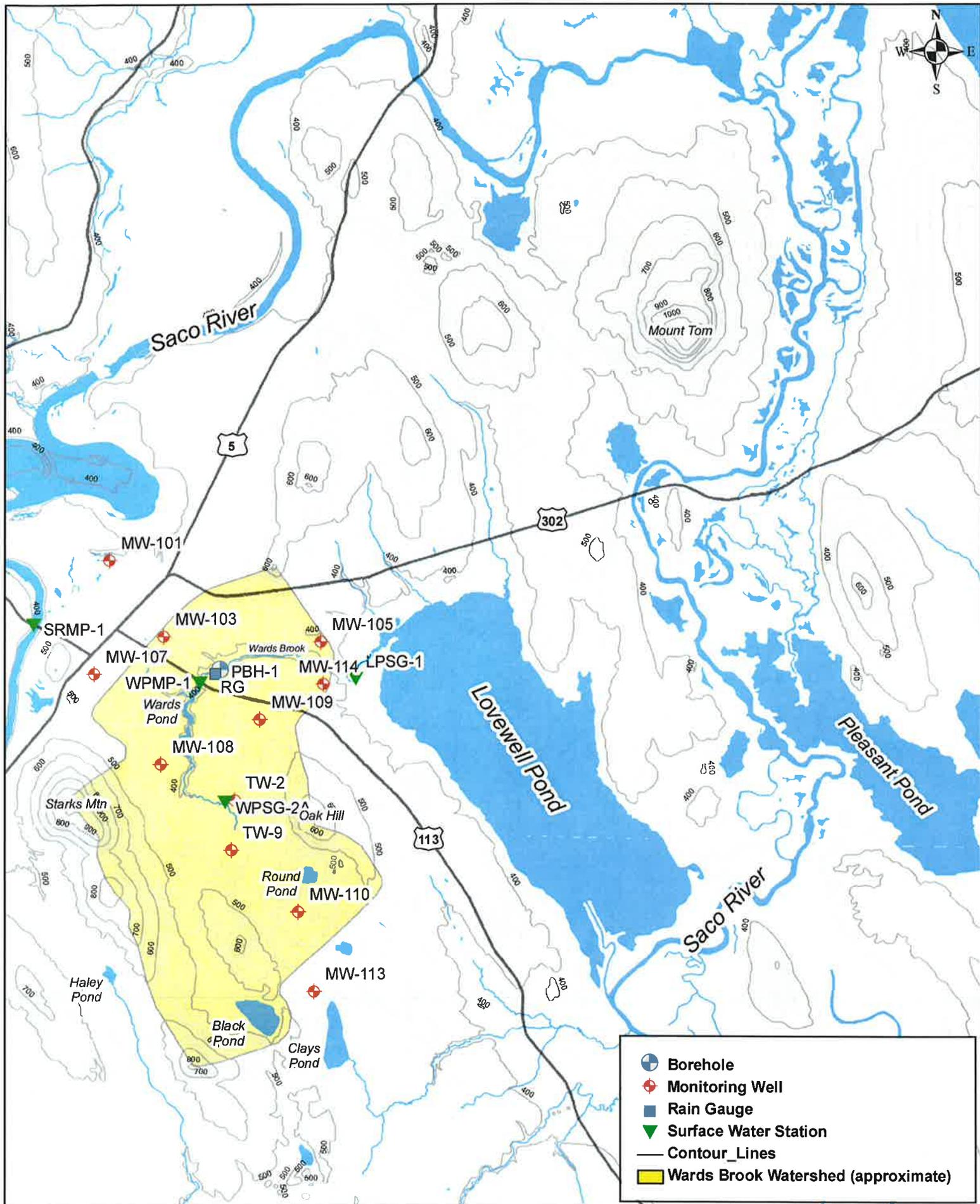
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



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FIGURE 1
 VOLUNTARY AQUIFER MONITORING REPORT
 LGS REF# 08-011
 DATE: 12/16/2009



Luetje Geological Services, LLC
Ed Luetje, CG
58 Fore Street
Portland, Maine 04101

*copies to sharon
1-20-11*

December 27, 2010

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell's Pond Road
Fryeburg, Maine 04037

RE: November 2010 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc., parent company of Poland Spring Bottling Co. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

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GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on November 22nd, 2010.

**TABLE 1: GROUNDWATER ELEVATION DATA
NOVEMBER 22nd, 2010**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	399.62
MW-103	421.58	411.29
MW-105	404.98	380.01
MW-107	431.95	423.17
MW-108	419.89	410.24
MW-109	420.11	397.96
MW-110	461.86	416.36
MW-113	441.13	420.23
MW-114	405.20	384.47
TW-2 ⁴	404.18	403.89
TW-9	409.24	409.14

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
 2. The Groundwater Elevation is the elevation of the water table (feet NAVD) at the monitoring well.
 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
- Wards Pond Monitoring Point (WPMP-1): surface water elevation is measured at the Route 113 crossing over Wards Brook;
- Lovewell Pond Staff Gauge (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gauge (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on November 22nd, 2010.

**TABLE 2: SURFACE WATER ELEVATION DATA
NOVEMBER 22nd, 2010**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.85	363.09
WPMP-1	401.27	397.29
SRMP-1	418.79	397.28
WPSG-2A	404.95	401.46

- Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gauge for surface water stations) elevation in feet NAVD.
2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for November, 2010.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
NOVEMBER, 2010**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	4.32
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	4.86

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 1,771,928 gallons for the month of November, 2010.

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

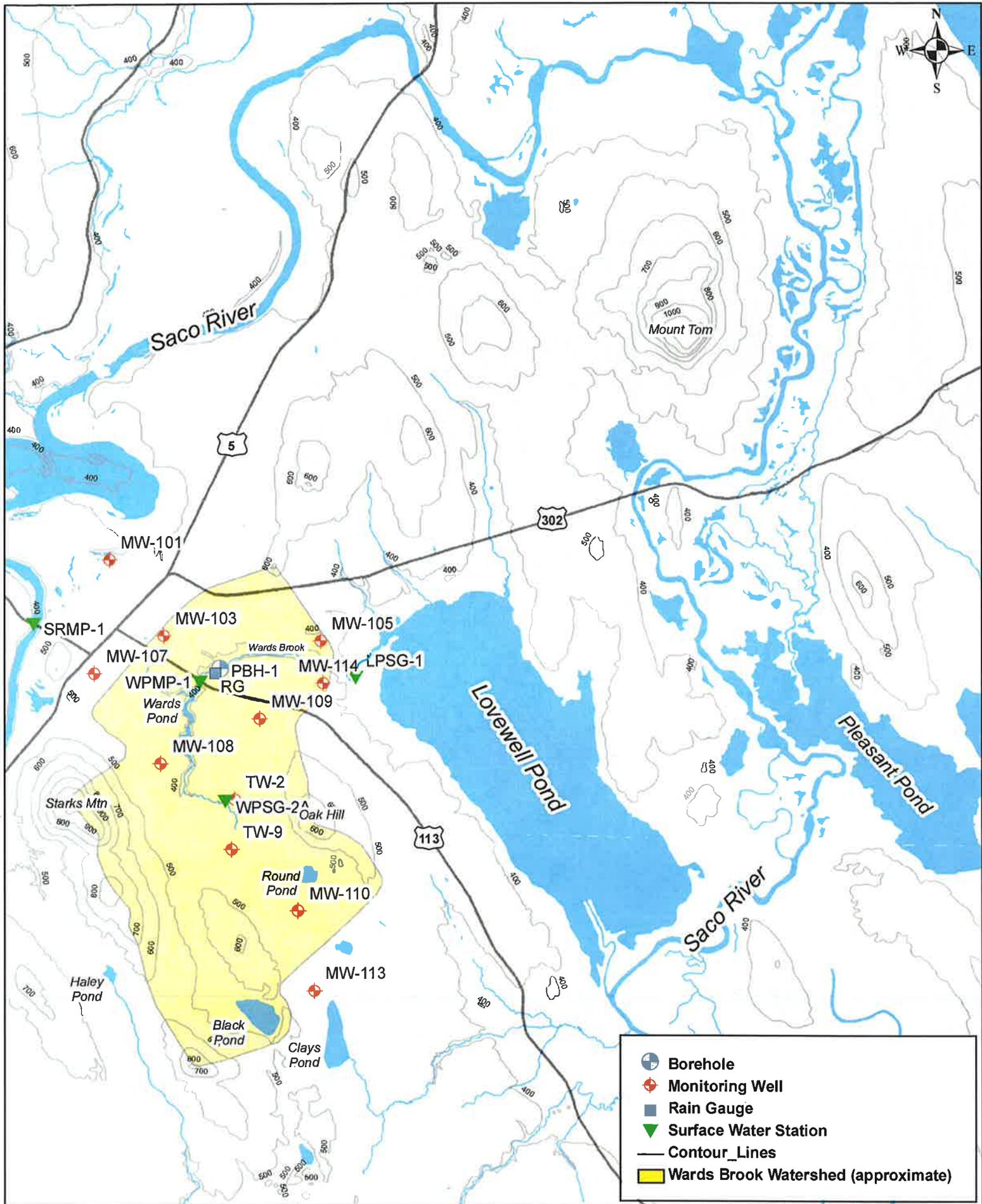
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



Notes:
 All general data layers acquired from the Maine Office of GIS.
 Contours are 20' intervals.



FIGURE 1
 VOLUNTARY AQUIFER MONITORING REPORT
 LGS REF# 08-011
 DATE: 12/16/2009



January 24, 2011

Ms. Sharon Jackson
Town Manager
Town of Fryeburg
16 Lovewell's Pond Road
Fryeburg, Maine 04037

RE: December 2010 Aquifer Monitoring Report

INTRODUCTION

Luetje Geological Services (LGS) of Portland, Maine, an independent hydrogeologic consulting firm, has been contracted by Nestle Waters North America Inc., parent company of Poland Spring Bottling Co. (Poland Spring) to collect and compile hydraulic data from the Wards Brook Aquifer in Fryeburg, Maine. These data are collected as part of regular routine monitoring by Poland Spring and while the monitoring program is not part of a regulatory compliance program, the data are voluntarily provided to the Town of Fryeburg on a monthly basis. The data in the monthly reports, in turn, are used by Poland Spring to compile an annual report of the hydraulic data for the Wards Brook Aquifer.

Data are presented for eleven monitoring wells, four surface water stations, from rain gauges at the Borehole-1 load-out facility and the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center), and withdrawal data from Borehole-1 (PBH-1; dedicated spring water borehole). Locations of all data collection stations are shown in Figure 1 located at the end of this report.

GROUNDWATER

Groundwater levels are measured in eleven monitoring wells at locations shown in Figure 1. These wells provide groundwater level data across and adjacent to the Wards Brook watershed (Figure 1). Table 1 provides a summary of groundwater elevations at these locations as measured on December 20th, 2010.

**TABLE 1: GROUNDWATER ELEVATION DATA
DECEMBER 20th, 2010**

Monitoring Well	Reference Elevation (feet NAVD) ¹	Groundwater Elevation (feet NAVD) ²
MW-101 ³	408.35	400.04
MW-103	421.58	412.08
MW-105	404.98	380.86
MW-107	431.95	425.72
MW-108	419.89	411.08
MW-109	420.11	398.85
MW-110	461.86	416.85
MW-113	441.13	420.62
MW-114	405.20	384.99
TW-2 ⁴	404.18	404.56
TW-9	409.24	409.67

- Notes:
1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of casing for monitoring wells) elevation in feet NAVD.
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 3. MW refers to 'monitoring well'
 4. TW refers to 'test well'

SURFACE WATER

Surface water elevation is measured at four locations in and around the Wards Brook Aquifer watershed as seen in Figure 1. Spring water was flowing to the ground surface this month near PBH-1 as observed at the main spring pool weir and several nearby springs. The surface water elevation measuring locations are as follows:

- Saco River Monitoring Point (SRMP-1): surface water elevation is measured at the Route 113 bridge over the Saco River;
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- Lovewell Pond Staff Gauge (LPSG-1): surface water elevation is measured at the inlet from Wards Pond Brook; and,
- Wards Pond Staff Gauge (WPSG-2A): surface water elevation is measured near the center of the watershed in a bog located to the south of Wards Pond.

Table 2 presents the surface water elevation data measured on December 20th, 2010.

**TABLE 2: SURFACE WATER ELEVATION DATA
DECEMBER 20th, 2010**

Surface Water Station	Reference Elevation (feet NAVD) ¹	Surface Water Elevation (feet NAVD) ²
LPSG-1	364.85	364.44
WPMP-1	401.27	397.21
SRMP-1	418.79	397.48
WPSG-2A	404.95	Frozen

- Notes: 1. NAVD is the North American Vertical Datum (1988). The Reference Elevation is the measuring point (usually the top of the staff gauge for surface water stations) elevation in feet NAVD.
2. The Surface Water Elevation is the elevation of the water surface (feet NAVD) at the monitoring station.

PRECIPITATION

Precipitation is recorded on-site adjacent to PBH-1 using an Onset Data Logging Rain Gauge (RG) as shown on Figure 1. The on-site rain gauge has a self-tipping bucket that is activated with every 0.01 inches of precipitation. The gauge is also wrapped with heat tape that melts snowfall and allows measurement of precipitation through the winter months.

Precipitation data are also recorded at the Fryeburg Eastern Slopes Airport (ICAO Station KIZG, Northeast Regional Climate Center). The Fryeburg Eastern Slopes Airport is approximately two miles to the south of the on-site rain gauge. Table 3 presents monthly precipitation data for December, 2010.

**TABLE 3: FRYEBURG AREA PRECIPITATION DATA
DECEMBER, 2010**

Station ID	Monthly Precipitation Total (Inches)
On-Site Rain Gauge (RG)	5.08
Fryeburg Eastern Slopes Airport (ICAO Station KIZG)	3.25

WITHDRAWALS

In accordance with the contract with the Fryeburg Water Company, PBH-1 withdrawal totals are presented as total gallons recorded as offloaded at plant facilities. Spring water withdrawals from PBH-1 totaled 2,082,780 gallons for the month of December, 2010.

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

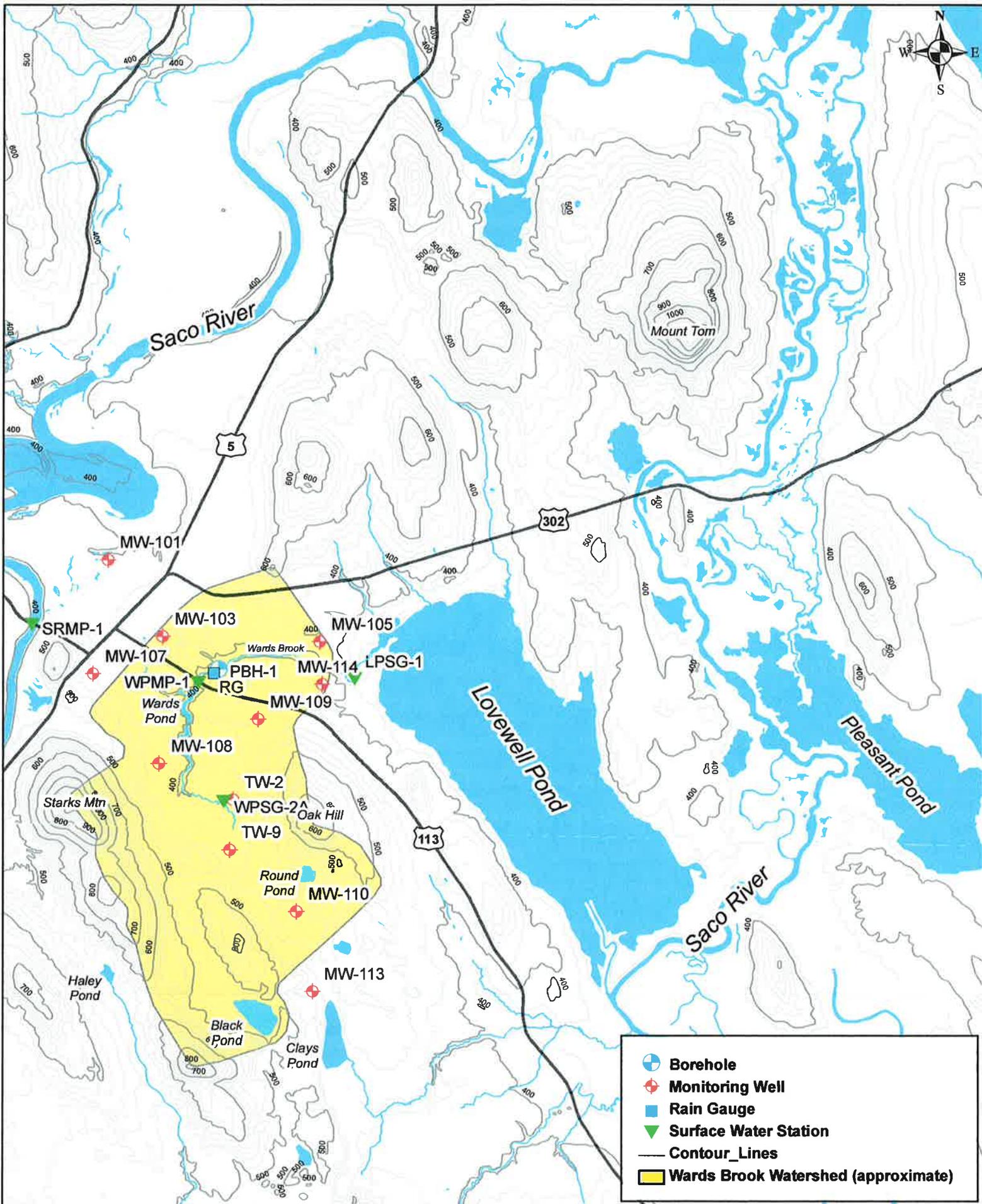
Sincerely,

Luetje Geological Services, LLC



Ed Luetje C.G.

cc: Fryeburg Water Company (Mr. Hugh Hastings)
Fryeburg Water District (Mr. Richard Krasker)
Emery & Garrett Groundwater, Inc. (Mr. Peter Garrett)
Poland Spring (Mr. Mark Dubois)



- Borehole
- ◆ Monitoring Well
- Rain Gauge
- ▲ Surface Water Station
- Contour Lines
- Wards Brook Watershed (approximate)

Notes:
 All general data layers acquired from the Maine Office of GIS.
 Contours are 20' intervals.



FIGURE 1
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 LGS REF# 08-011
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