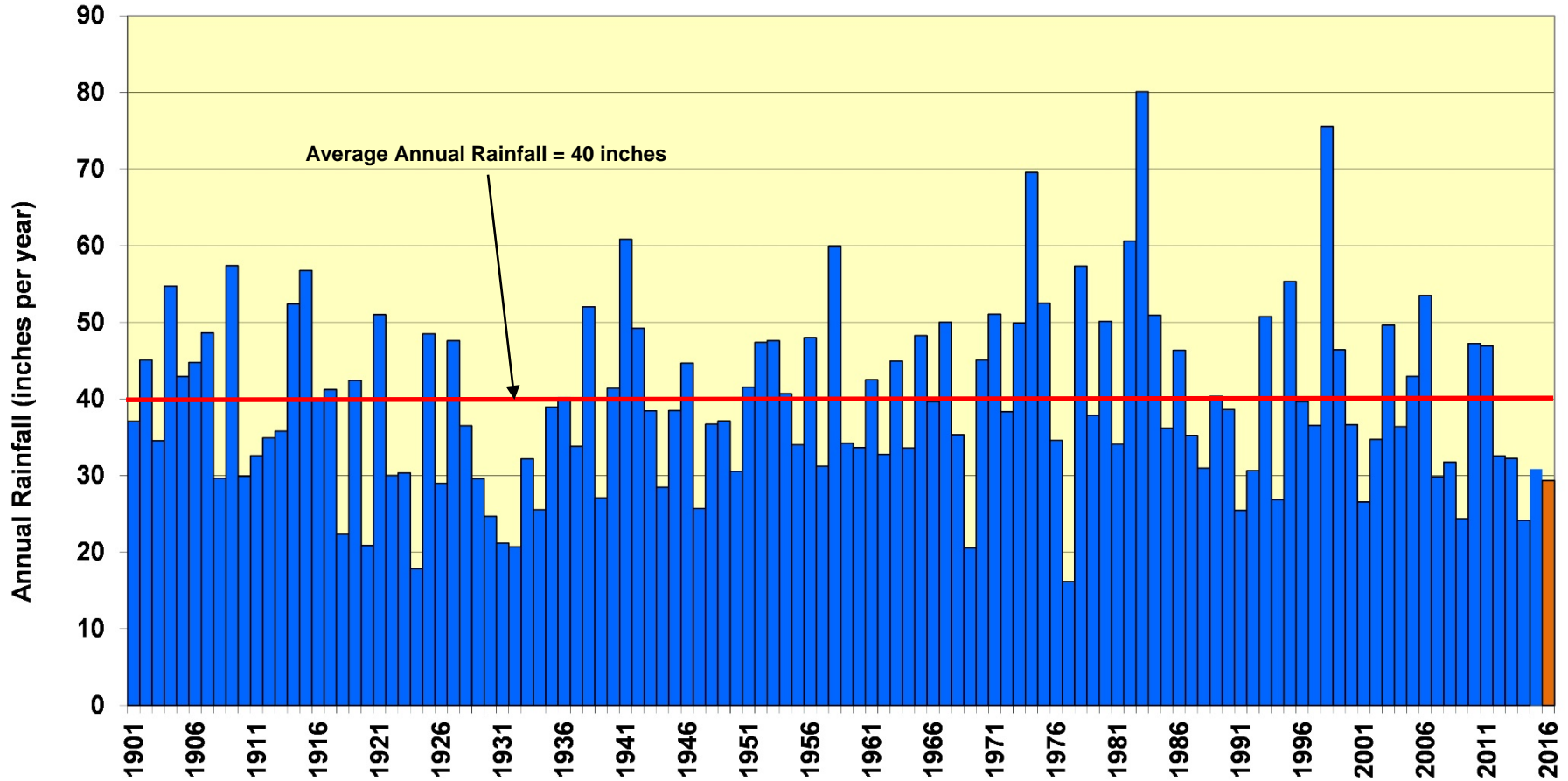


February 2016


**TODD**   
GROUNDWATER

**Figure 1**  
**Location Map of Mendocino**  
**City Community Services**  
**District**

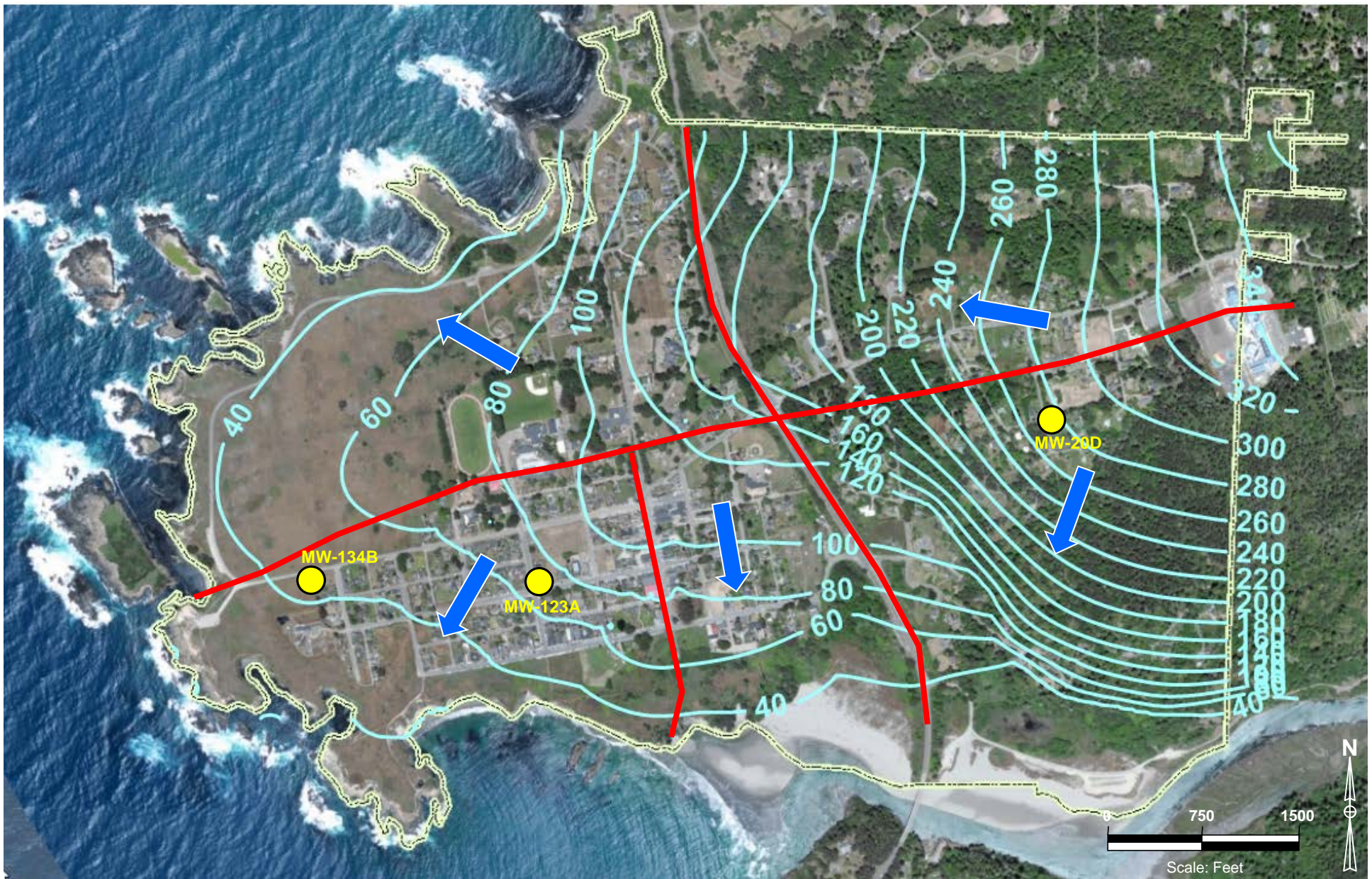
## Mendocino Annual Rainfall from 1901 to 2016



**Note:** Rainfall period is water year from October to following September  
 WY2016 Rainfall is for partial water year from October through January

|   |   |
|---|---|
| <b>February 2016</b><br> | <b>Figure 2</b><br><b>Historical Annual Rainfall</b><br><b>Measured in Mendocino since</b><br><b>1901</b> |
|---|---|





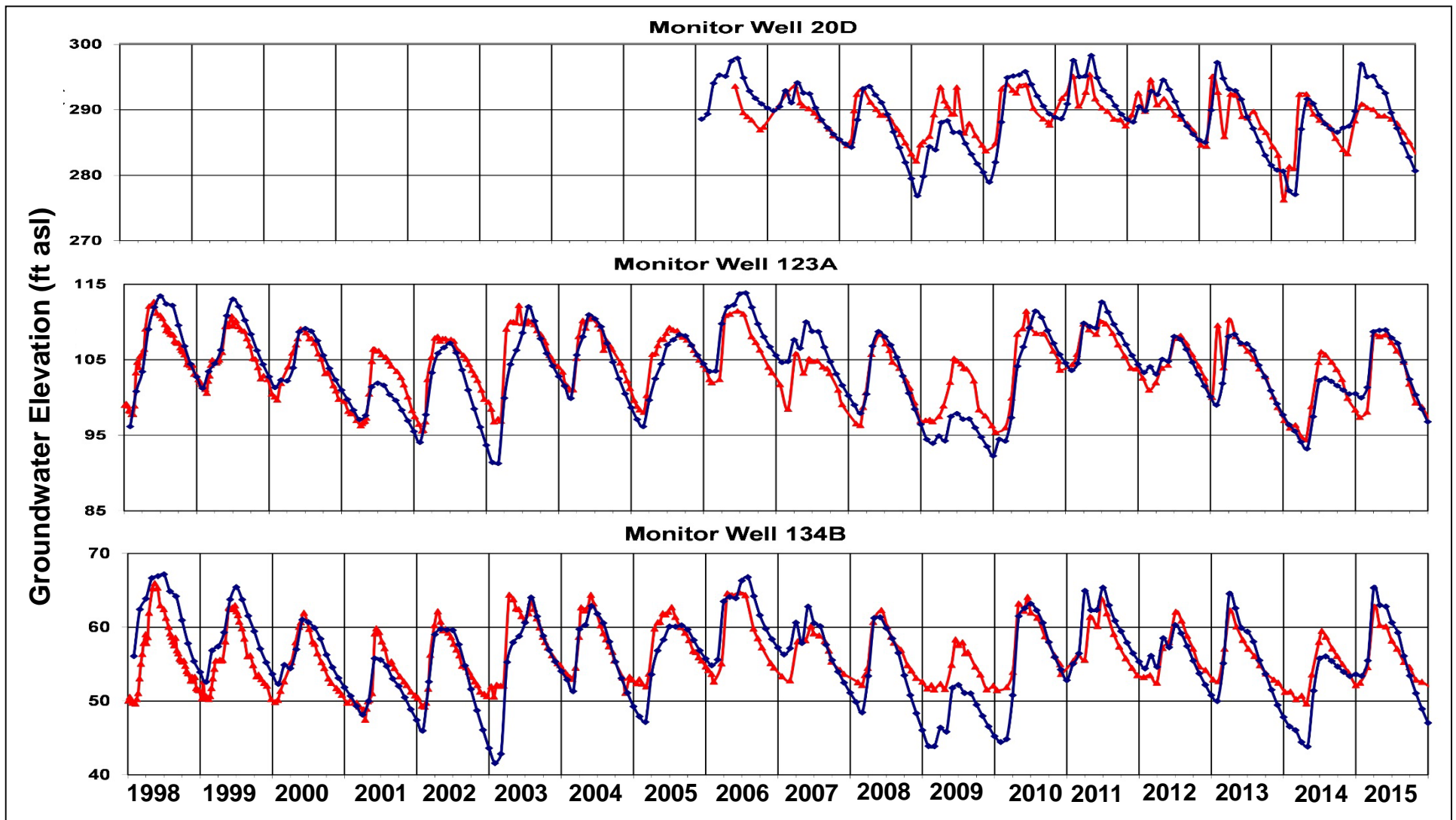
Note: Simulated groundwater elevations for September 2015 for Reduced Pumping Scenario using Mendocino Groundwater Model simulation

**Legend**

- Informal Groundwater Zone Boundaries
- 40— Simulated Groundwater Elevation Contour (in feet)
- ← Groundwater Flow Direction
- MW-134B Location of Selected Monitor Wells with Hydrographs shown on Figure 4



|                          |   |
|--------------------------|---|
| <b>February 2016</b><br> | <b>Figure 3</b><br><b>Simulated Groundwater Elevation Contours for September 2015</b> |
|--------------------------|---|




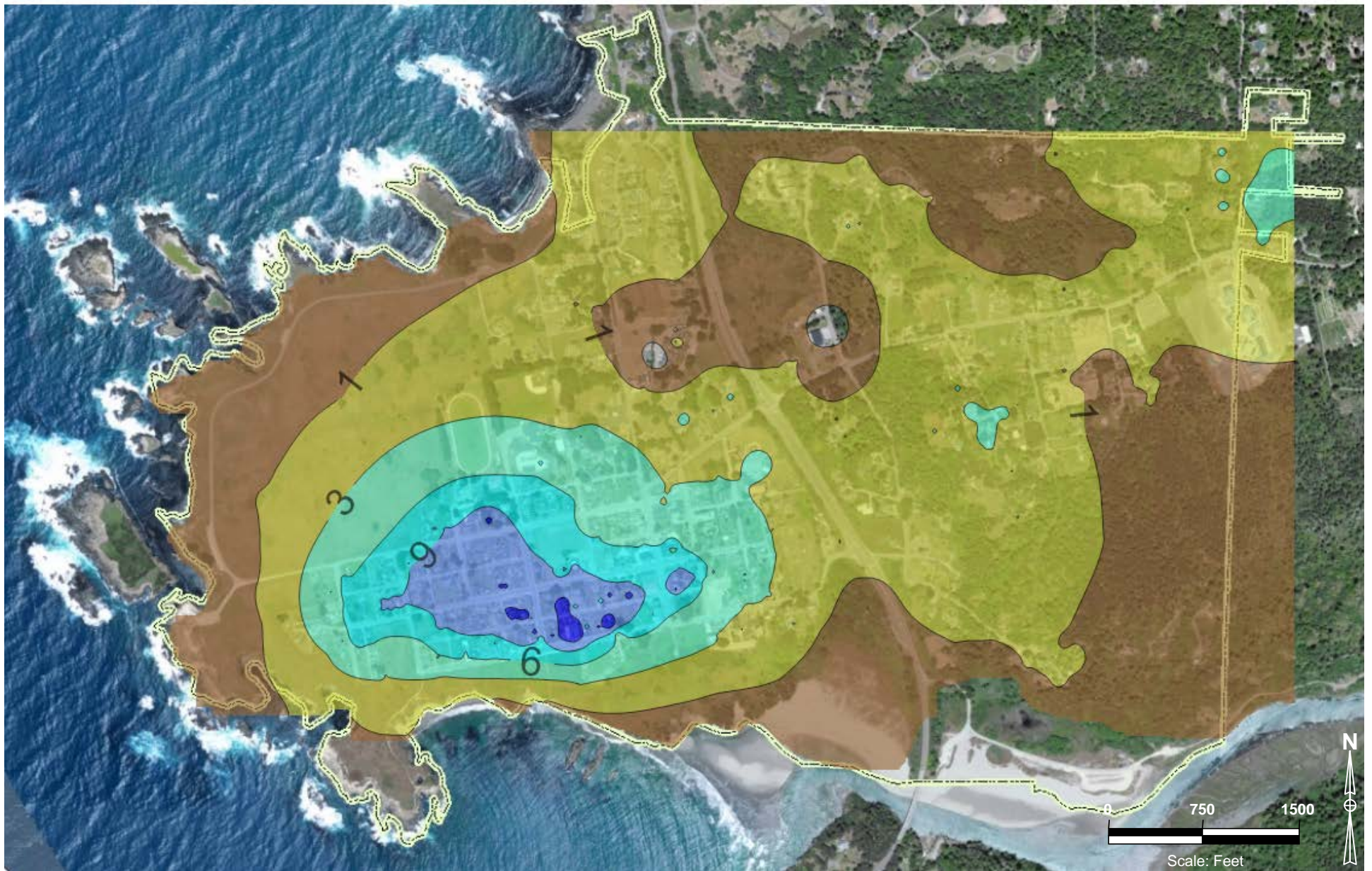


Note: Monitor Well 123A is completed in the Terrace Sand Deposits, which have higher groundwater levels than the underlying Fractured Bedrock

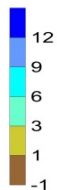
**Legend**

- 
 Measured Groundwater Elevation  
 (in feet above mean sea level)
  
- 
 Calibrated Reduced Pumping Condition  
 Model Simulated Groundwater Elevation  
 (in feet above mean sea level)

|  |  |
|--|--|
| February 2016<br> | <b>Figure 4</b><br><b>Simulated and Measured</b><br><b>Hydrographs for Selected</b><br><b>Wells through WY2015</b> |
|--|--|



Relative Difference in  
Groundwater Levels (in feet)



**Legend**

—3— Contour of Relative Difference of  
Reduced – Full Groundwater  
Levels (in feet)

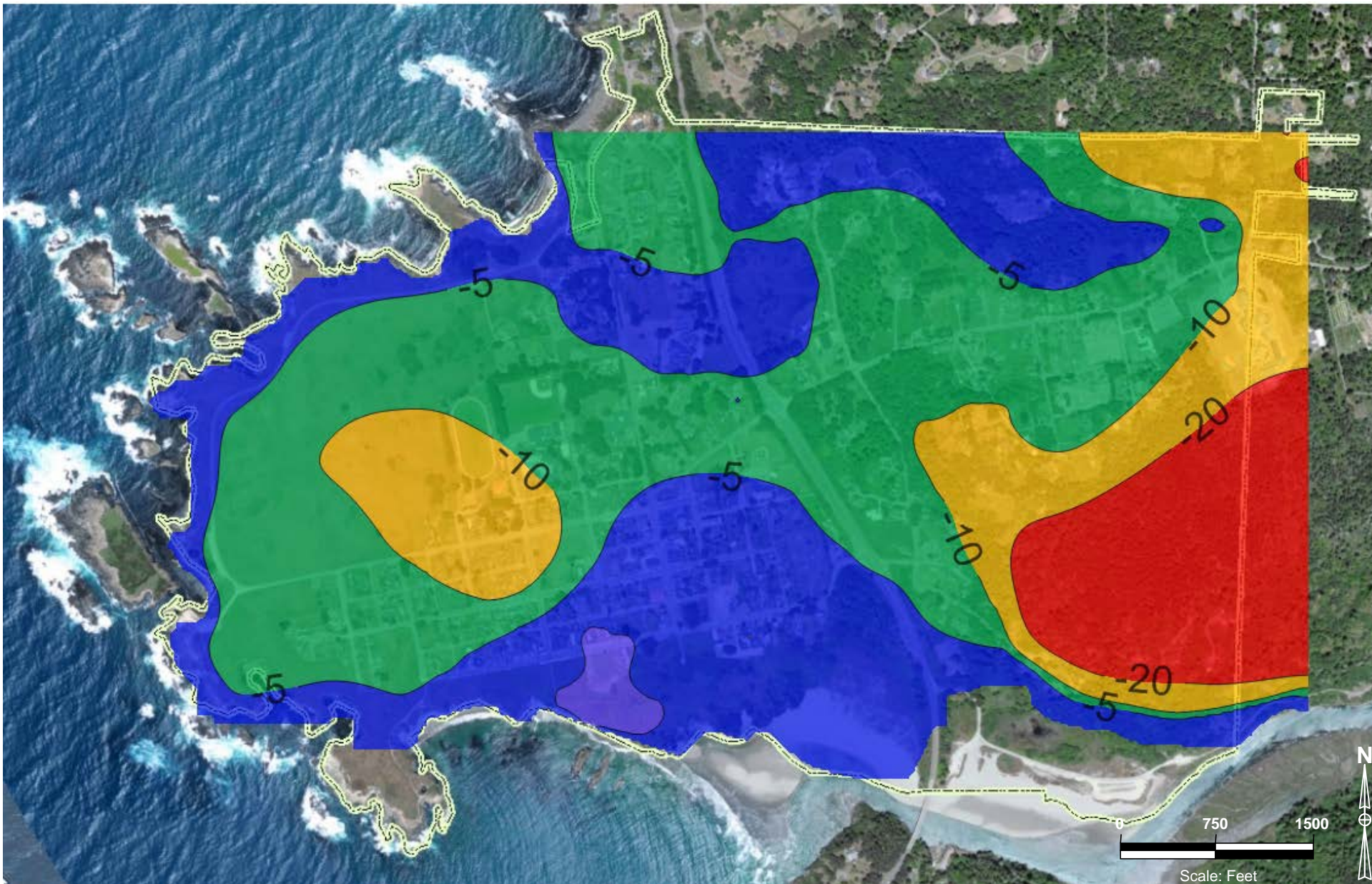
Note: Contours represent relative difference in groundwater levels between Simulated Reduced and Full Pumping Scenarios for WY2015

February 2016

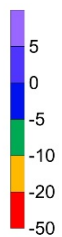


**Figure 5**  
Relative Difference in WY2015  
Groundwater Levels – Reduced  
vs. Full Pumping Scenario





Relative Difference in Groundwater Levels (in feet)



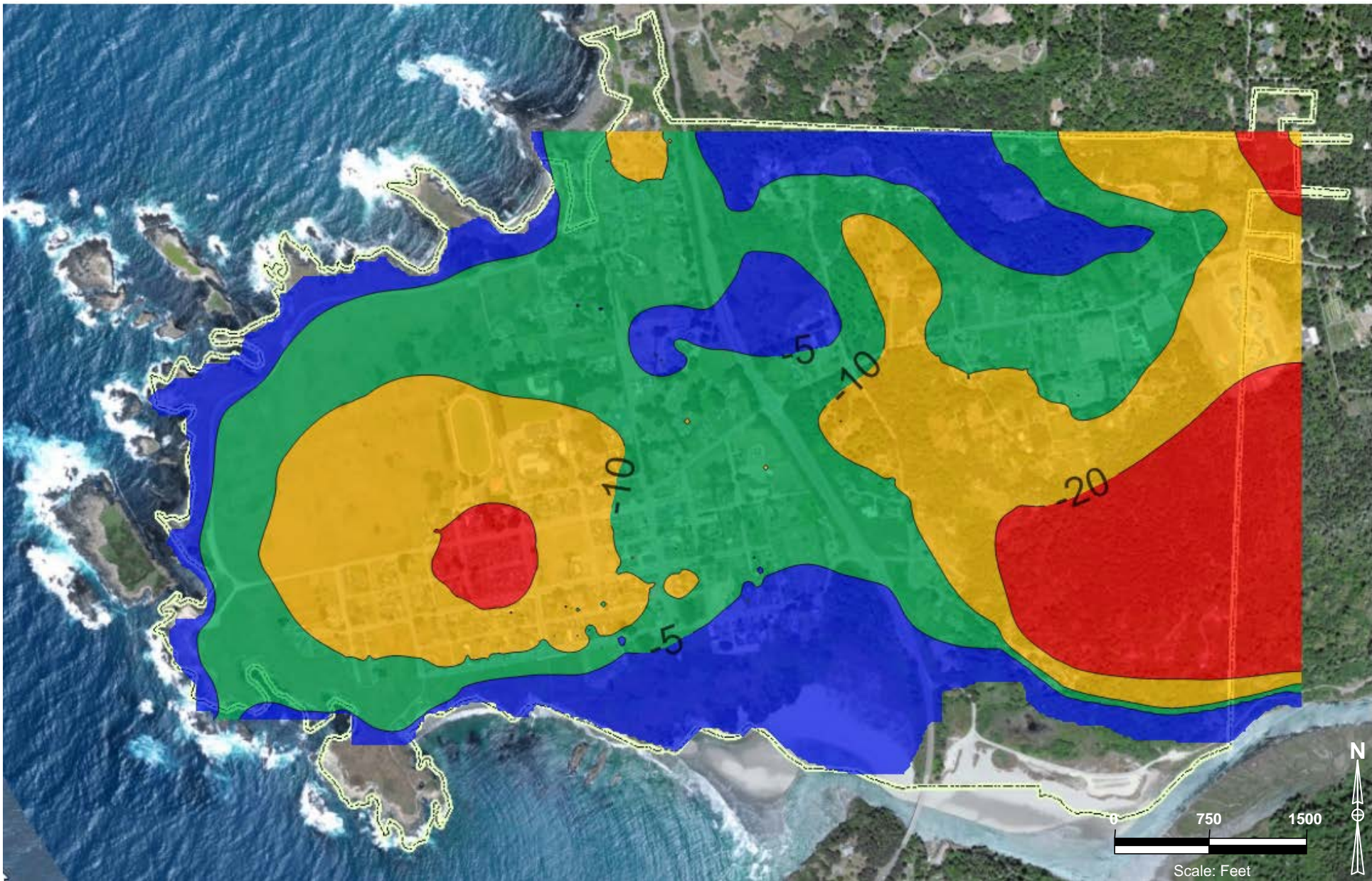
**Legend**

— -5 — Contour of Relative Difference between September 2011 and September 2015 Simulated Groundwater Levels (in feet)

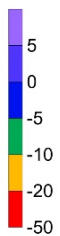
Note: Contours represent relative difference in September groundwater levels from 2011 to 2015 due to loss of recharge assuming REDUCED pumping

|                      |   |
|----------------------|---|
| <p>February 2016</p> | <p><b>Figure 6</b><br/>Relative Groundwater Level Difference from 2011 to 2015 Assuming Reduced Pumping</p> |
|----------------------|---|






Relative Difference in Groundwater Levels (in feet)



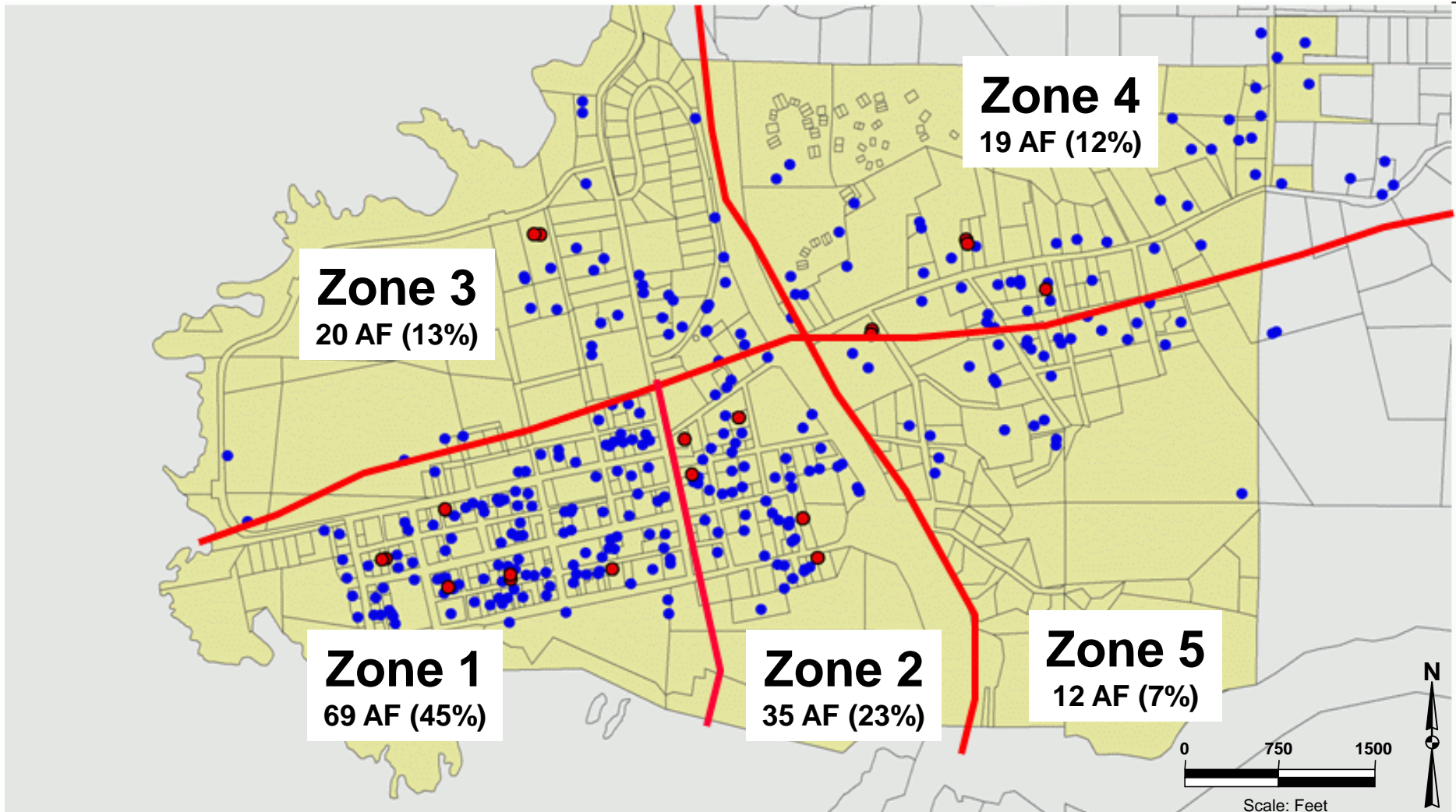
**Legend**

— -5 — Contour of Relative Difference between September 2011 and September 2015 Simulated Groundwater Levels (in feet)

Note: Contours represent relative difference in September groundwater levels from 2011 to 2015 due to loss of recharge assuming FULL Pumping




|  |  |
|--|--|
| <p>February 2016</p>  | <p><b>Figure 7</b><br/>Relative Groundwater Level Difference from 2011 to 2015 Assuming Full Pumping</p> |
|--|--|






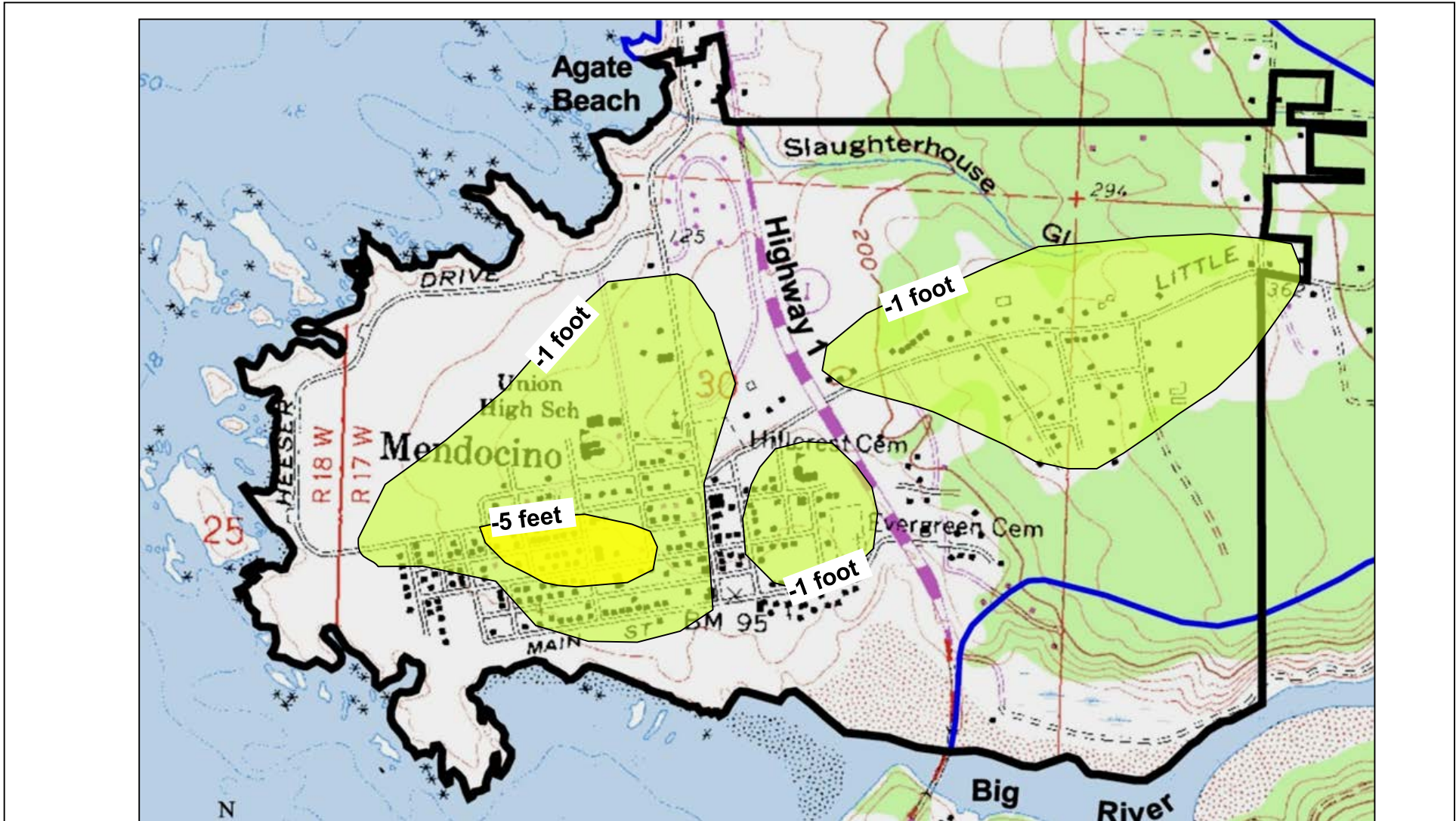
Regional Distribution of Known Wells and Groundwater Pumping

**Legend**


|                    |                                   |   |   |
|--------------------|-----------------------------------|---|---|
| <b>Zone 2</b>      | Name of Informal Groundwater Zone |  | Parcels within MCCSD                          |
|                    |                                   |  | Informal Groundwater Zone Boundaries          |
| <b>35 AF (23%)</b> | WY2015 Pumping Volume by Zone     |  | Projected Well Locations based on Parcel Data |

|   |   |
|---|---|
| February 2016   | <b>Figure 8</b><br><b>Distribution of Groundwater Pumping by Zone</b> |
|  |   |

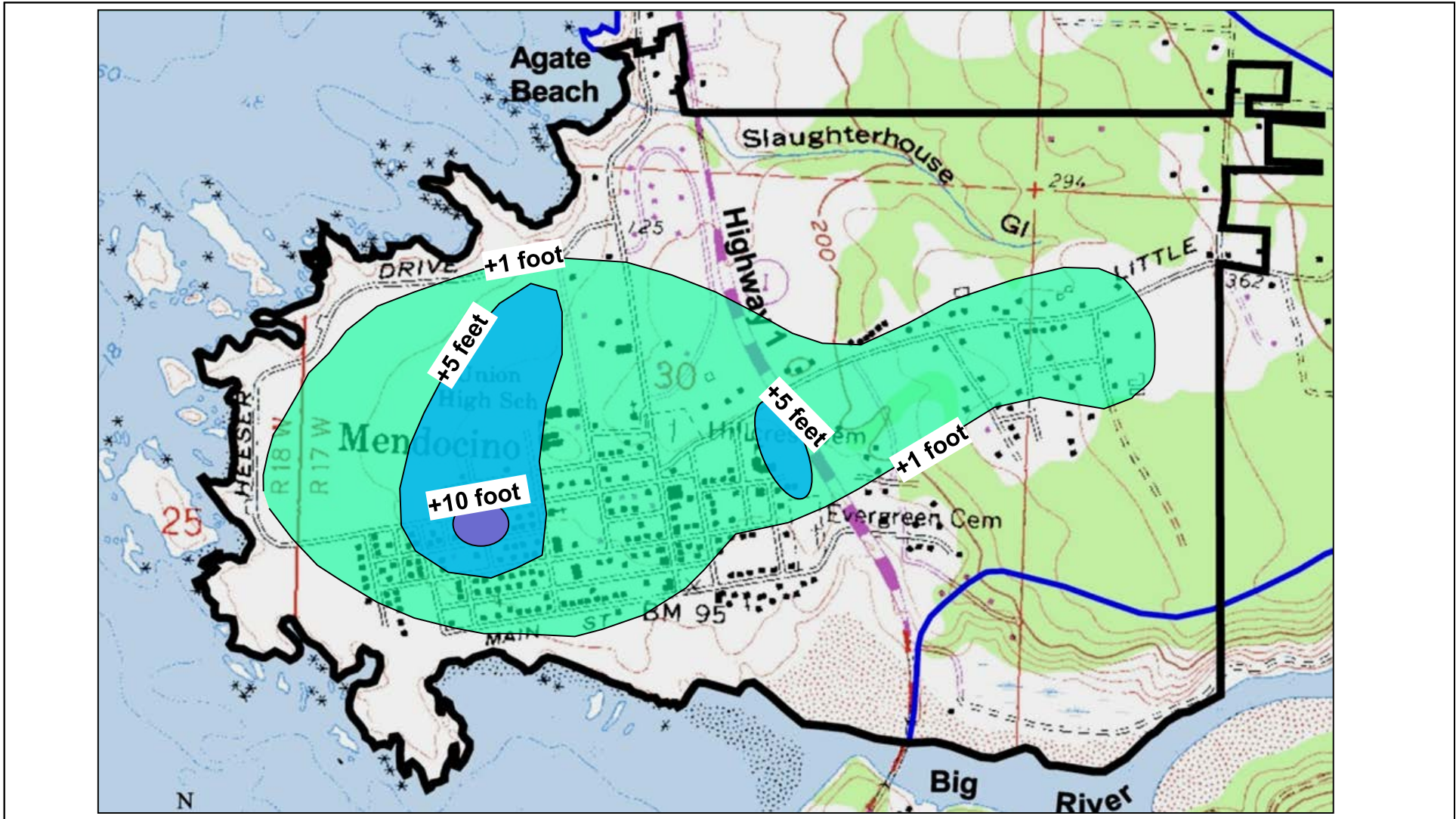




**Note:** Contours represent the difference in feet between the October 2015 measured groundwater elevation relative to the long-term average October groundwater elevation on a well-by-well basis.

|  |  |
|--|--|
| <p>February 2016</p>  | <p><b>Figure 9</b><br/> <b>Difference of October 2015</b><br/> <b>Groundwater Levels to Long-</b><br/> <b>Term October Average</b></p> |
|--|--|





**Note:** Contours represent the difference in feet between the January 2016 measured groundwater levels relative to the long-term average January groundwater elevation on a well-by-well basis.

|   |
|---|
| <b>February 2016</b><br><br><b>TODD</b><br>GROUNDWATER |
|---|

|  |
|--|
| <b>Figure 10</b><br><b>Difference of January 2016</b><br><b>Groundwater Levels to Long-</b><br><b>Term January Average</b> |
|--|