

An aerial photograph of a rural landscape, likely in Vermont, showing a mix of green fields, brown patches, and some buildings. A prominent yellow line traces a boundary across the scene, starting from the top left, curving around a central area, and extending towards the bottom right. The text is overlaid on the right side of the image.

Spring 2014 Groundwater Surface Elevations and Rainfall

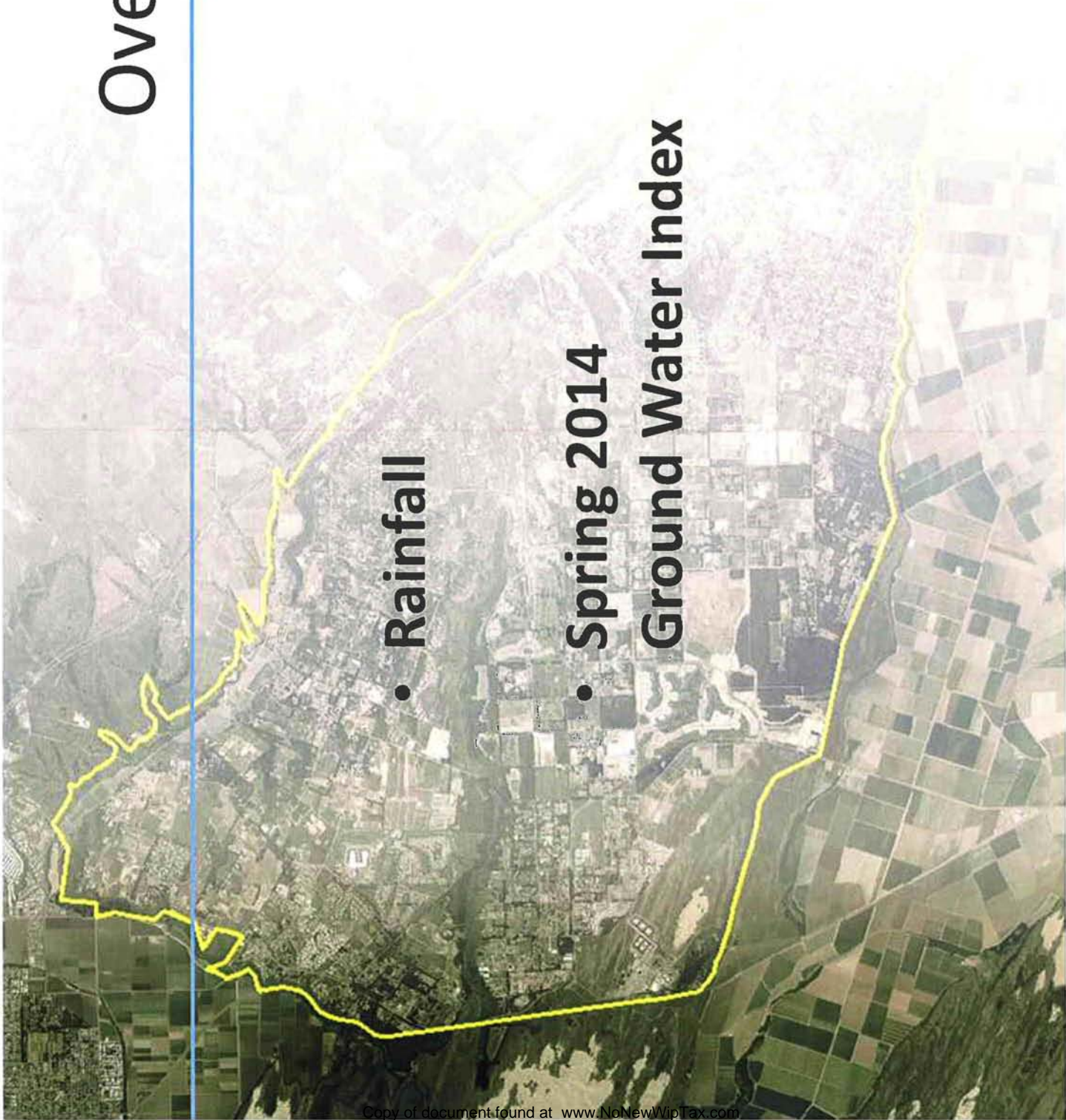
Prepared by
Newton Geo-Hydrology Consulting Services
June 25, 2014

Overview

- Rainfall

- Spring 2014

Ground Water Index



An aerial photograph of the Nipomo Mesa region, showing a patchwork of agricultural fields in various shades of green and brown. A yellow line traces a boundary across the landscape, and a blue vertical line is positioned on the left side. The text 'Rainfall across the Nipomo Mesa' is overlaid on the image.

Rainfall across the Nipomo Mesa

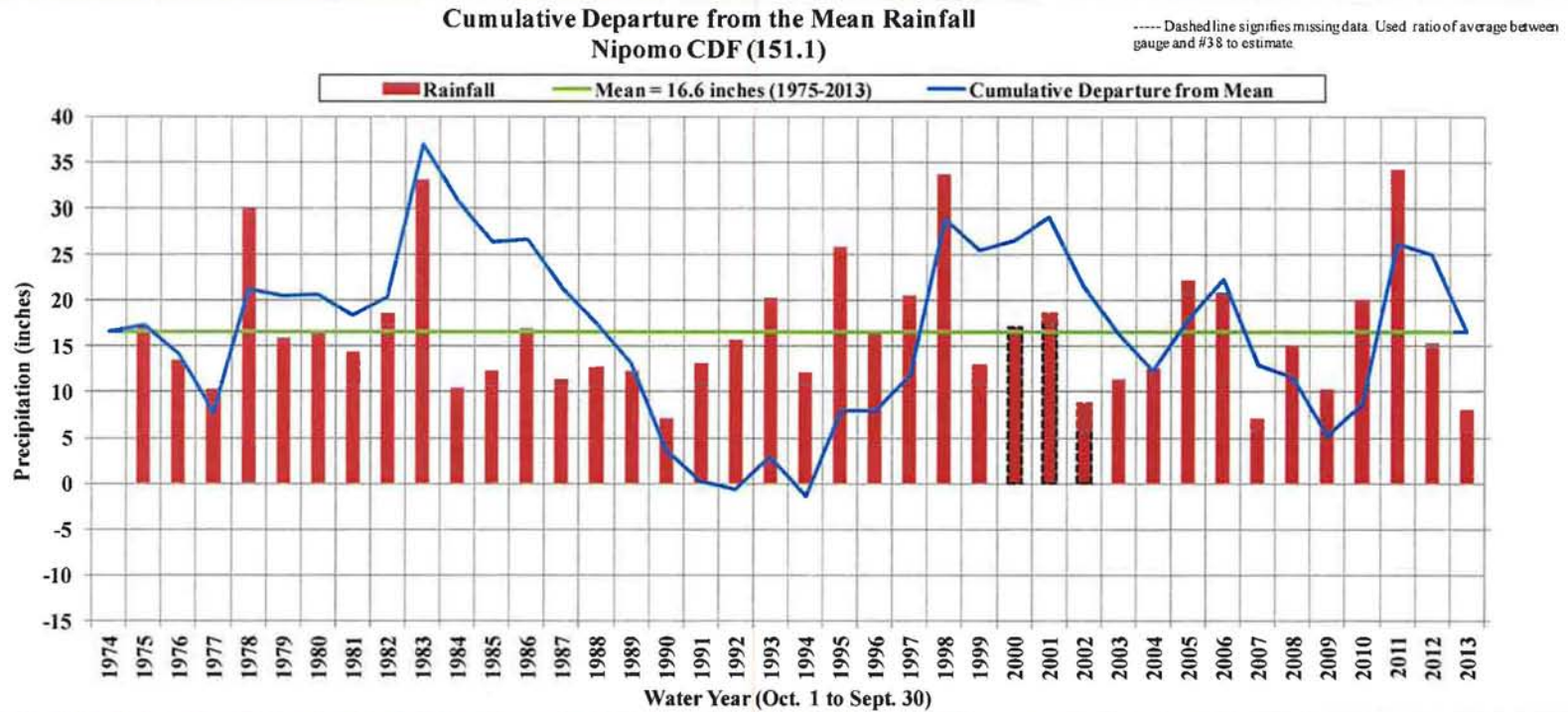
Annual Data

2013-2014

Nipomo East (728)
Currently – 5.75 in.

Nipomo South (730)
Currently – 4.65 in.

Oceano (795)
Currently – 2.92 in.



An aerial photograph of a rural landscape, likely a farm or agricultural area. The image shows a mix of green fields, brown patches, and some buildings. A prominent yellow line outlines a specific area, possibly a property boundary or a water management zone. A vertical blue line is drawn on the left side of the image. The text "Spring 2014 Ground Water Index" is overlaid in the center.

Spring 2014 Ground Water Index

Spring 2014 GWI

GWI

Spring and Fall
Groundwater Index
(GWI, Unitless)

Year	Rainfall (inches)	Spring GWI	Number of Wells	Fall GWI	Number of Wells	Spring to Fall Difference
2000	21.62*	0.3984	44	0.2033	41	0.1951
2001	10.25*	0.4797	43	0.2114	35	0.2683
2002	14.47	0.3008	29	0.1626	41	0.1382
2003	11.39	0.2846	37	0.0569	42	0.2276
2004	12.57	0.2439	42	0.1789	35	0.0650
2005	22.23	0.3171	38	0.1626	39	0.1545
2006	20.83	0.3902	44	0.1545	41	0.2358
2007	7.11	0.2764	44	0.0569	42	0.2195
2008	15.18	0.1951	43	0.0488	42	0.1463
2009	10.31	0.1382	44	0.0488	43	0.0894
2010	20.07	0.1707	45	0.0650	42	0.1057
2011	34.05	0.2276	43	0.1789	43	0.0488
2012	15.35	0.2439	45	0.0488	44	0.1951
2013	8.07*	0.0650	45	(0.1382)	42	0.2033
2014	5.75*	(0.0163)	45			

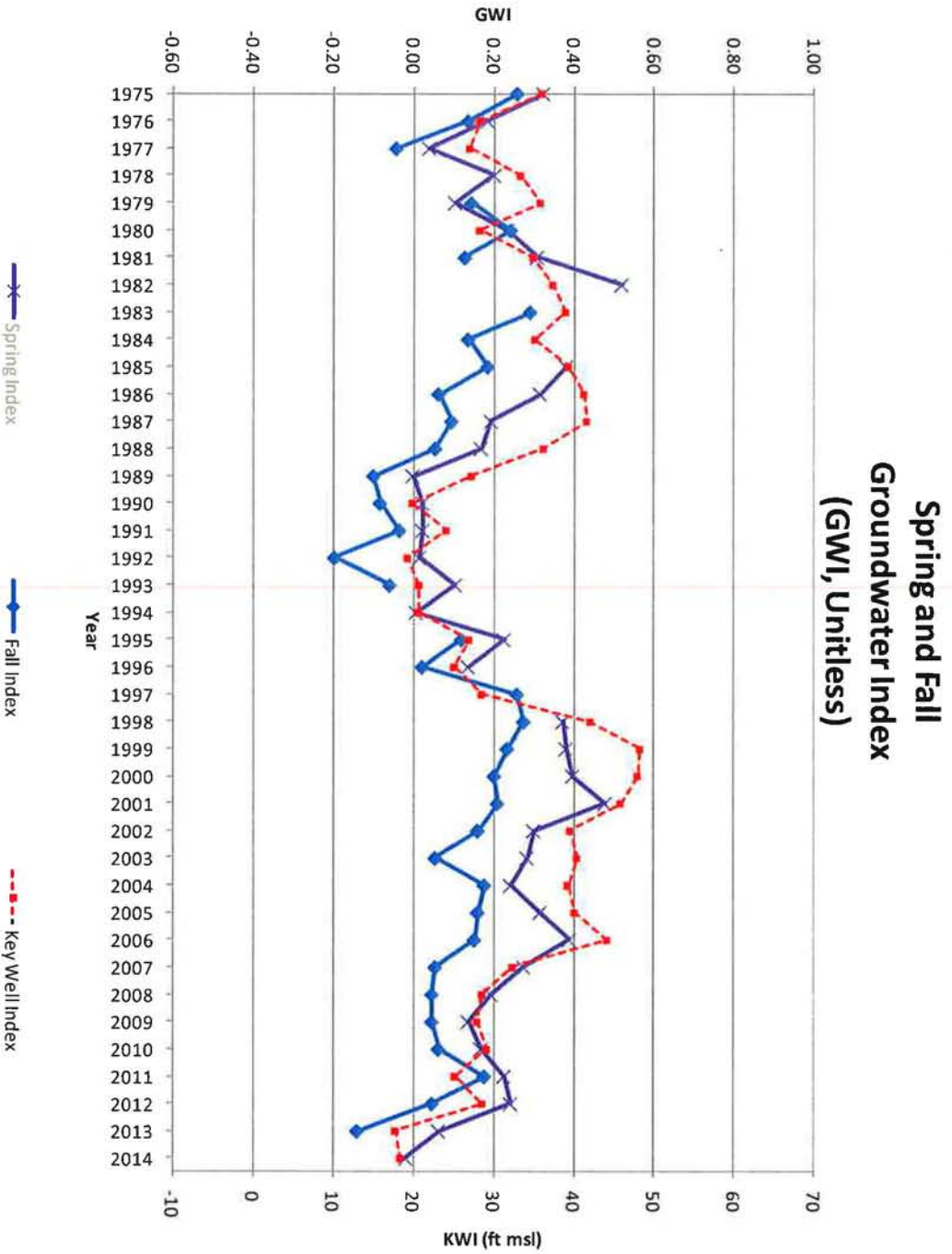
1999	12.98	0.3821	56	0.2358	49	0.1463
2000	21.62*	0.3984	44	0.2033	41	0.1951
2001	10.25*	0.4797	43	0.2114	35	0.2683
2002	14.47	0.3008	29	0.1626	41	0.1382
2003	11.39	0.2846	37	0.0569	42	0.2276
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2013	8.07*	0.0650	45	(0.1382)	42	0.2033
2014	5.75*	(0.0163)	45			

---: Insufficient for evaluation
*: Preliminary value

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Spring 2014 GWI

GWI



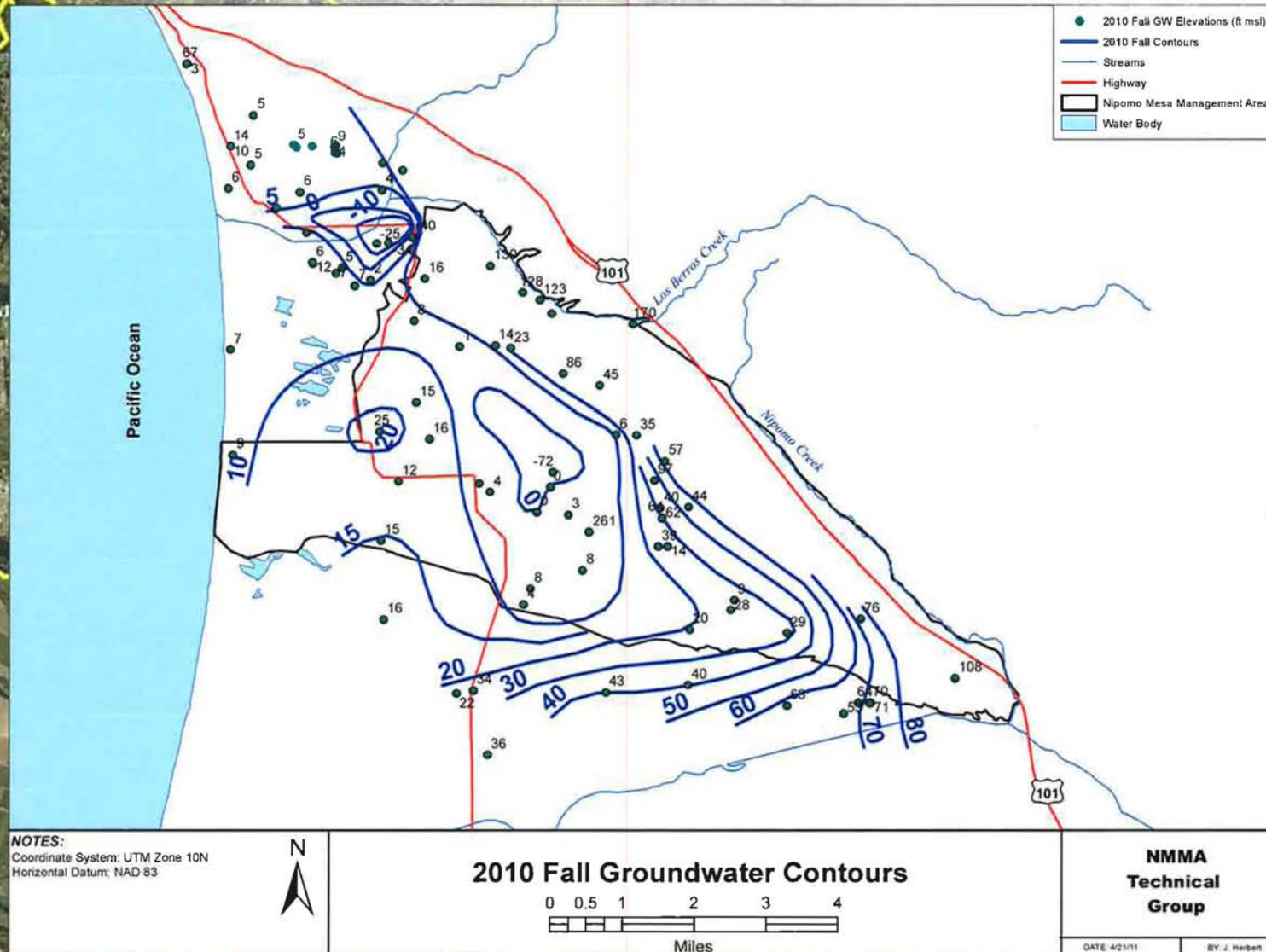
Spring 2014 GWI

Spatial Distribution

- **Groundwater surface elevations are not uniform**
- **Lowest water levels are in the central and western portion of the Nipomo Mesa**
- **GWE have declined significantly in a large area in the western portion of the Nipomo Mesa**

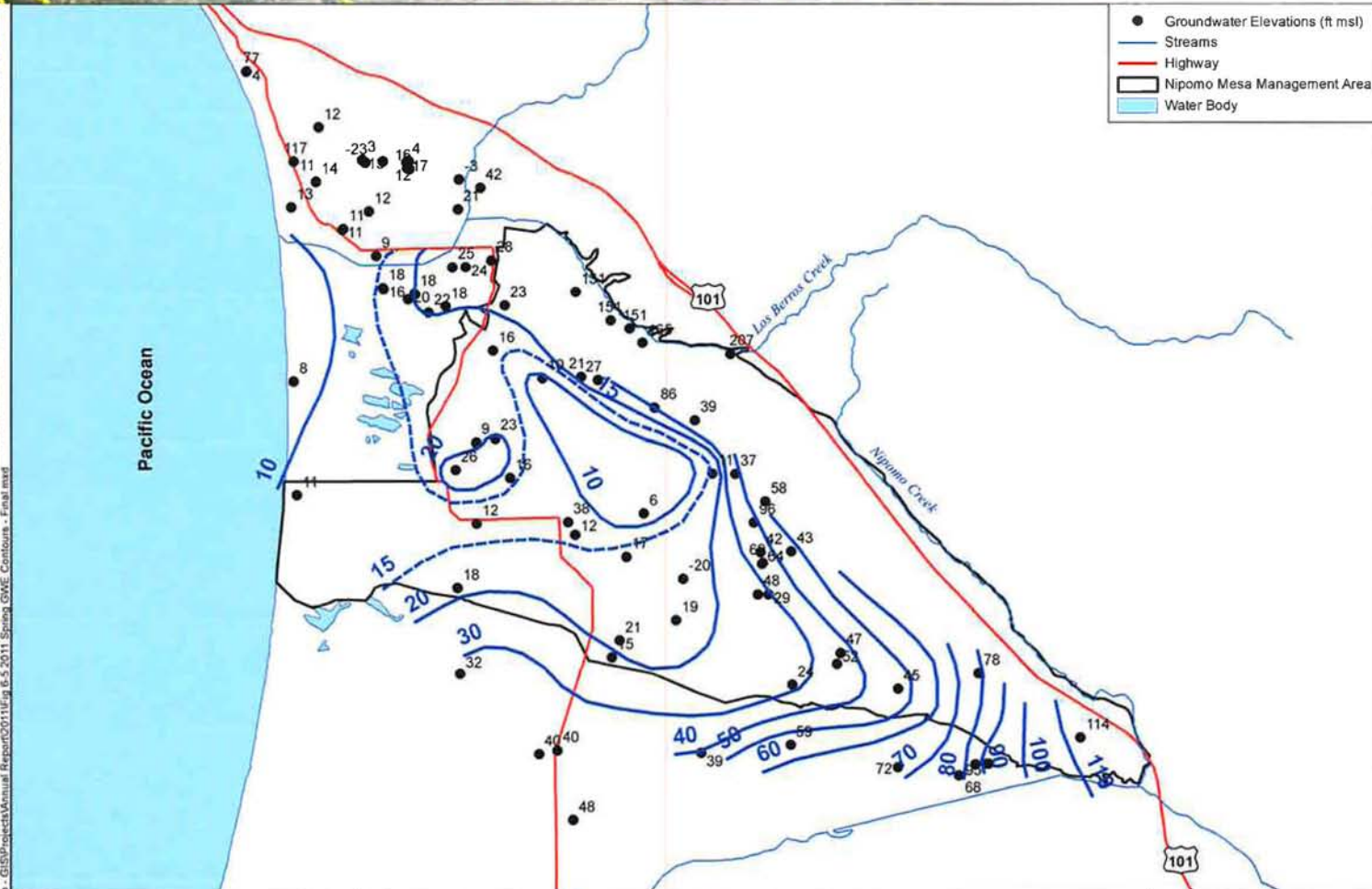
Spring 2014 GWI

Groundwater Elevation Map



Spring 2014 GWI

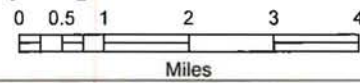
Groundwater Elevation Map



NOTES:
Coordinate System: UTM Zone 10N
Horizontal Datum: NAD 83



2011 Spring Groundwater Contours

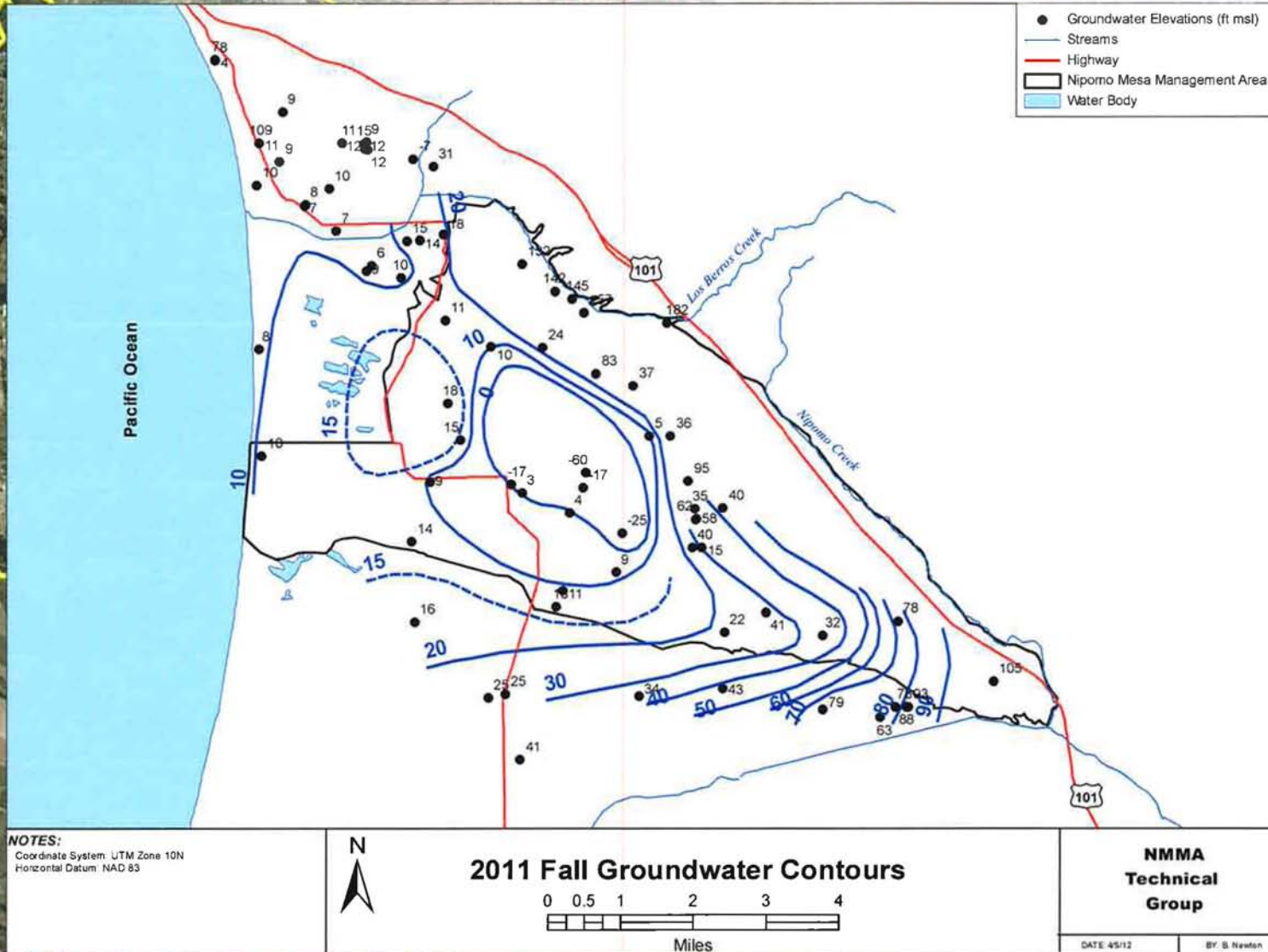


**NMMA
Technical
Group**

DATE: 8/19/2011 BY: G. Newton

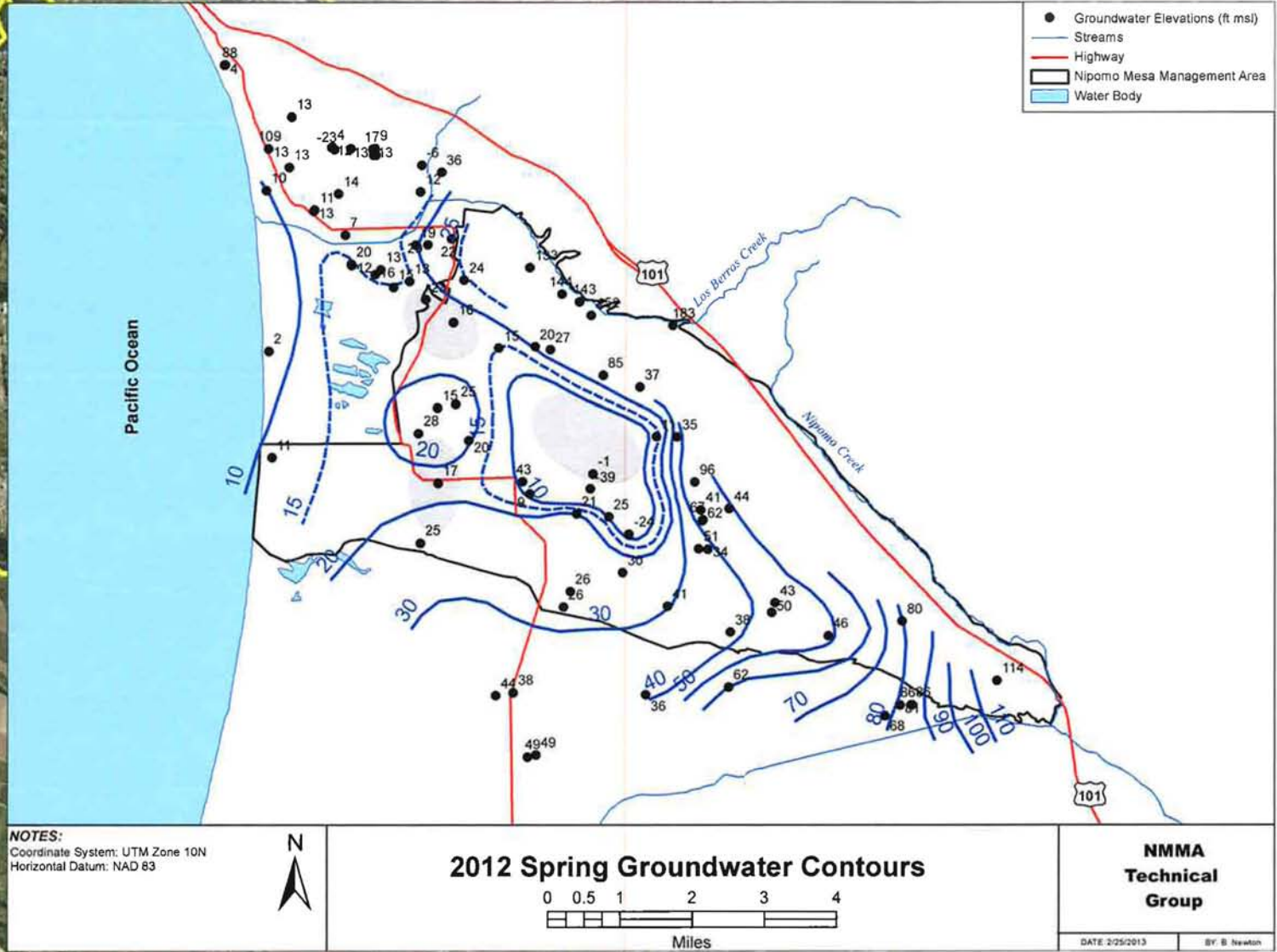
Spring 2014 GWI

Groundwater Elevation Map



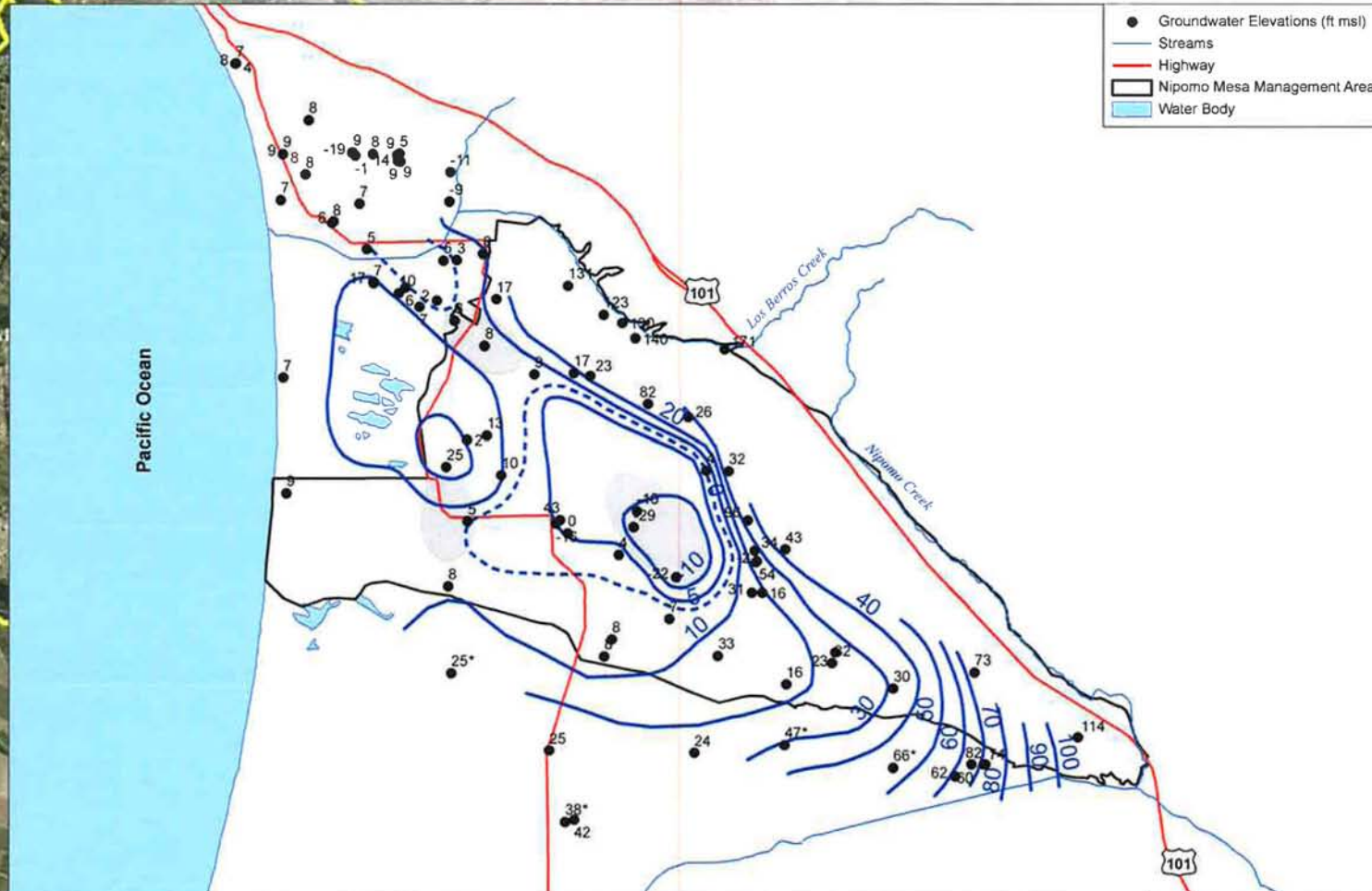
Spring 2014 GWI

Groundwater Elevation Map



Spring 2014 GWI

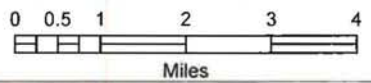
Groundwater Elevation Map



NOTES:
Coordinate System UTM Zone 10N
Horizontal Datum NAD 83
* Data from late September 2012



2012 Fall Groundwater Contours

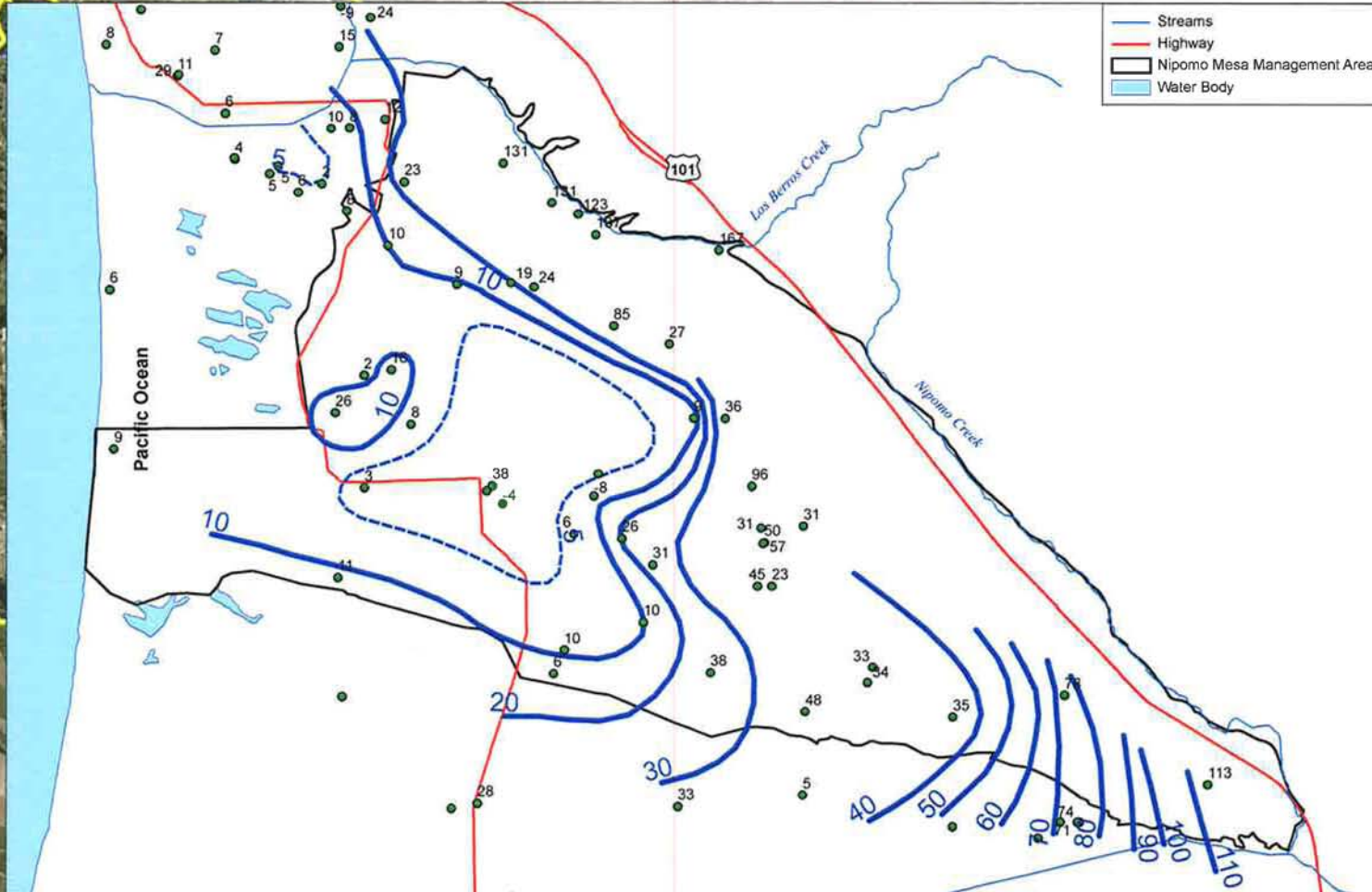


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DATE 2/25/13 BY B. Hewton

Spring 2014 GWI

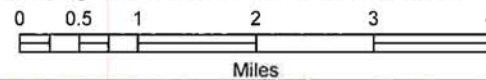
Groundwater Elevation Map



NOTES:
Coordinate System: UTM Zone 10N
Horizontal Datum: NAD 83
Depth to water measured in mid-April 2013
Wells with no data were not measured in mid-April



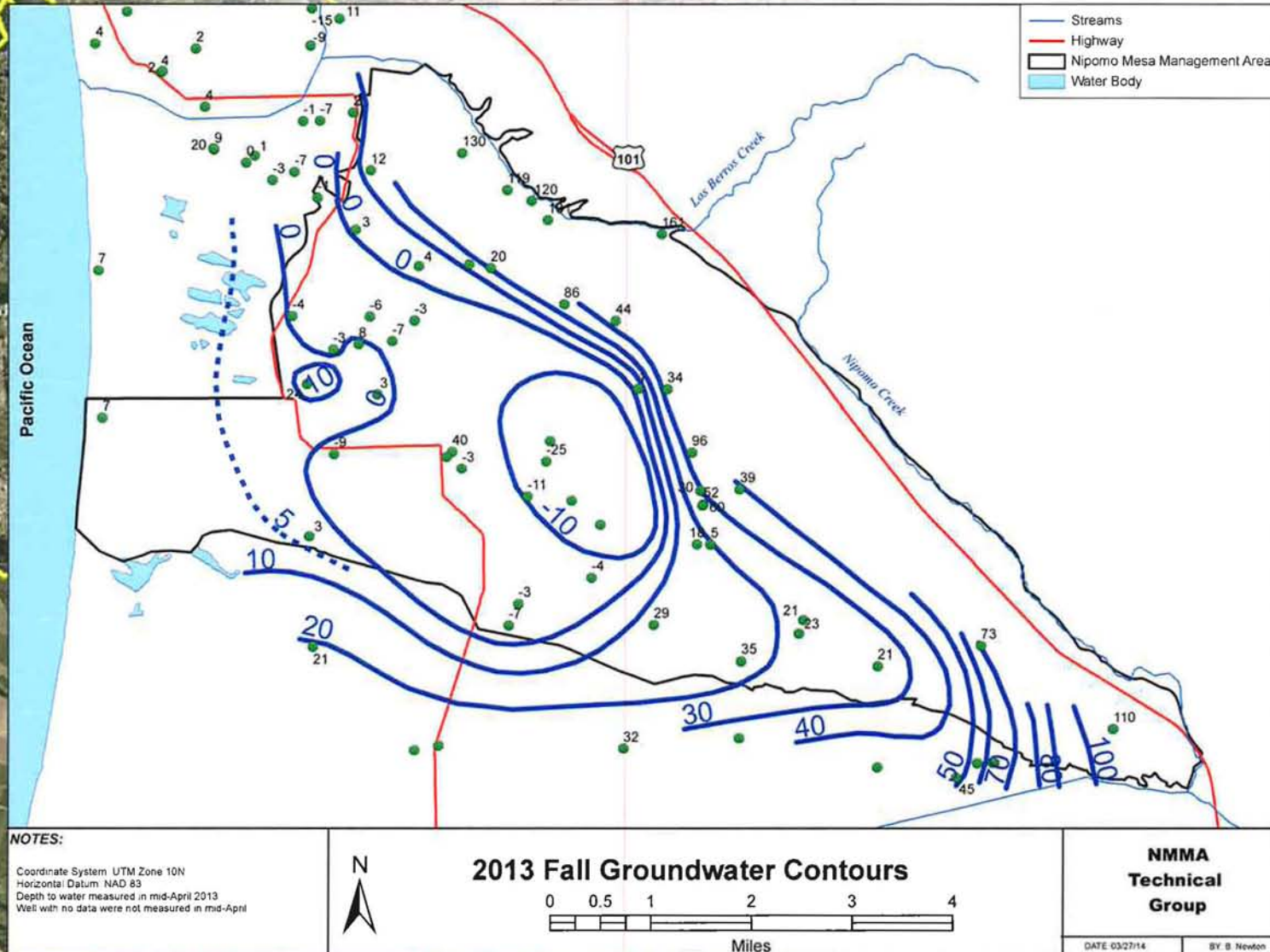
2013 Spring Groundwater Contours



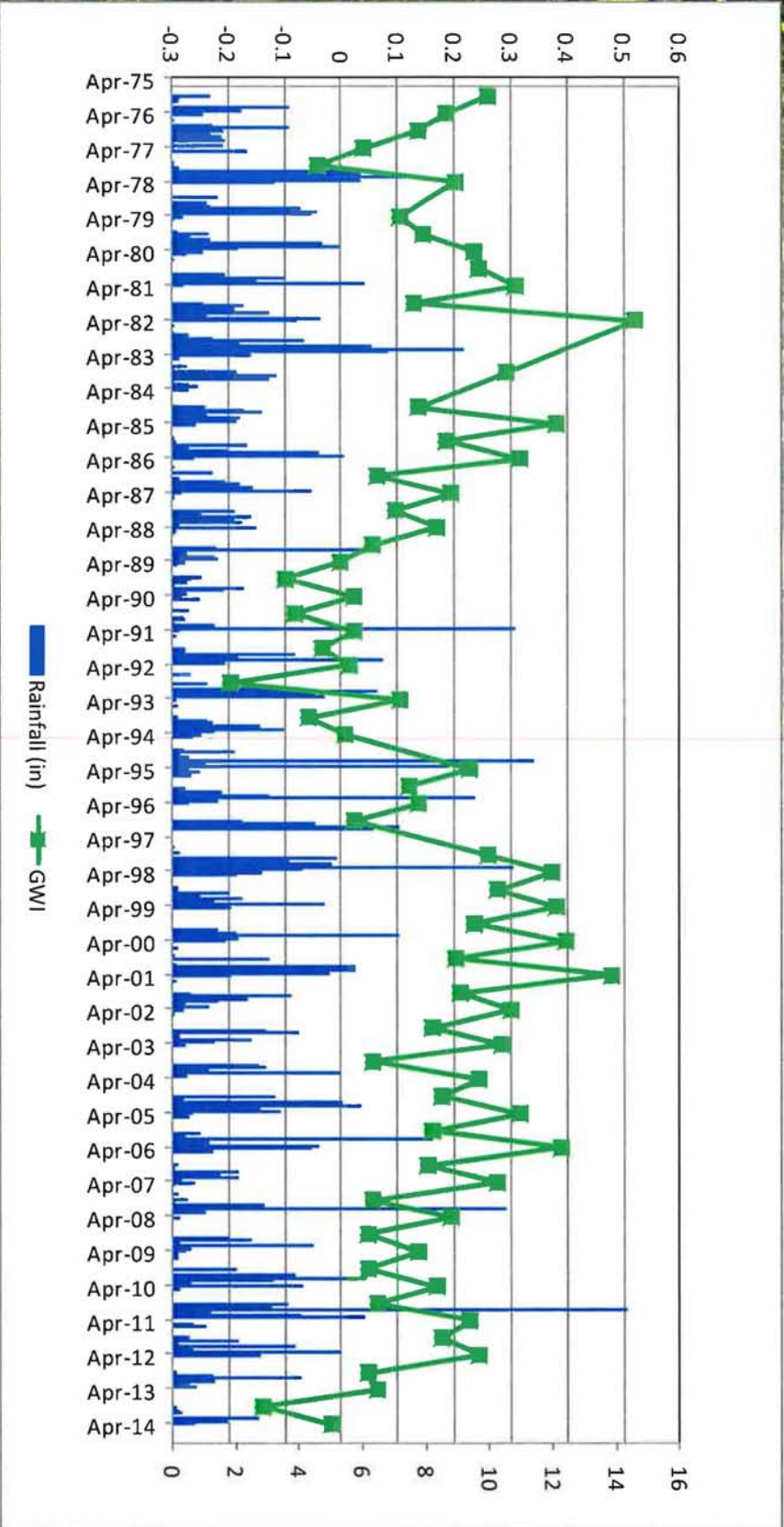
**NMMA
Technical
Group**
DATE: 6/21/13 BY: B. Newton

Spring 2014 GWI

Groundwater Elevation Map



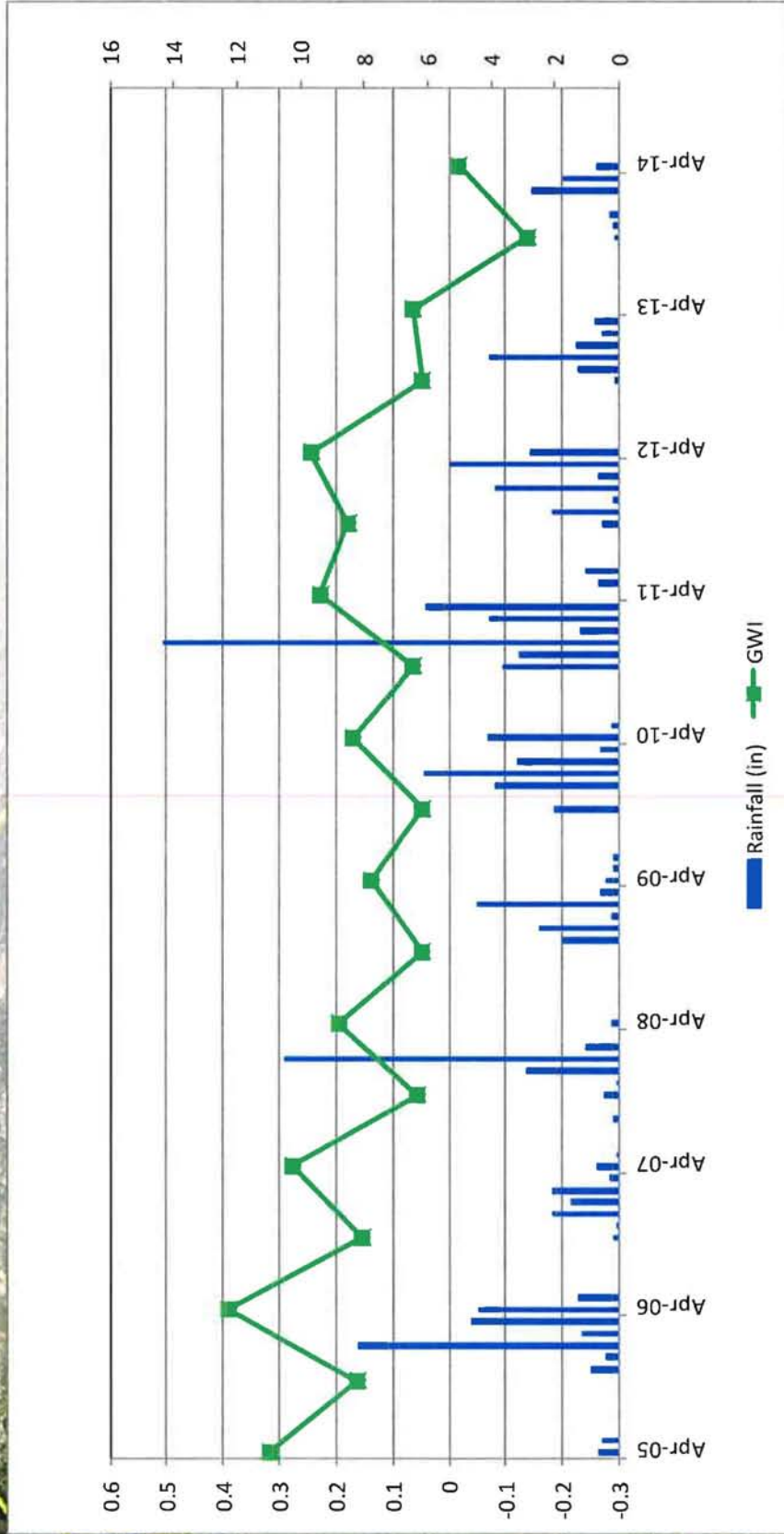
Spring 2014 GWI



When it rains matters!

Spring 2014 GWI

When it rains matters!



An aerial photograph of a rural landscape, likely a farm or agricultural area. The image shows a mix of green fields, brown patches, and some buildings. A prominent yellow line traces a boundary around a central area. A vertical blue line is drawn on the left side of the image. The text "QUESTIONS?" is overlaid in the center.

QUESTIONS?