



TOWN OF OAK RIDGE

8315 Linville Road, P.O. Box 374, Oak Ridge, NC 27310
Phone (336) 644-7009 • Fax (336) 644-7012
www.oakridgenc.com

Memorandum

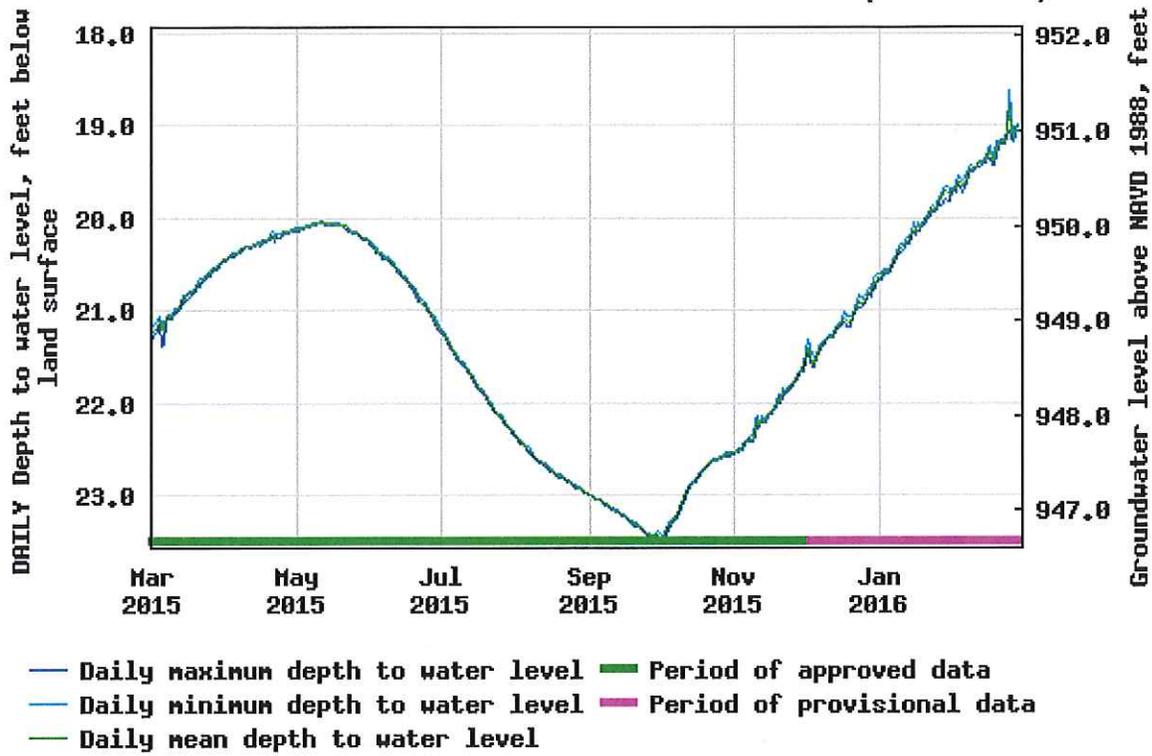
TO: Town Council
FROM: Bruce Oakley, Town Manager
DATE: February 29, 2016
RE: USGS Monitoring Well

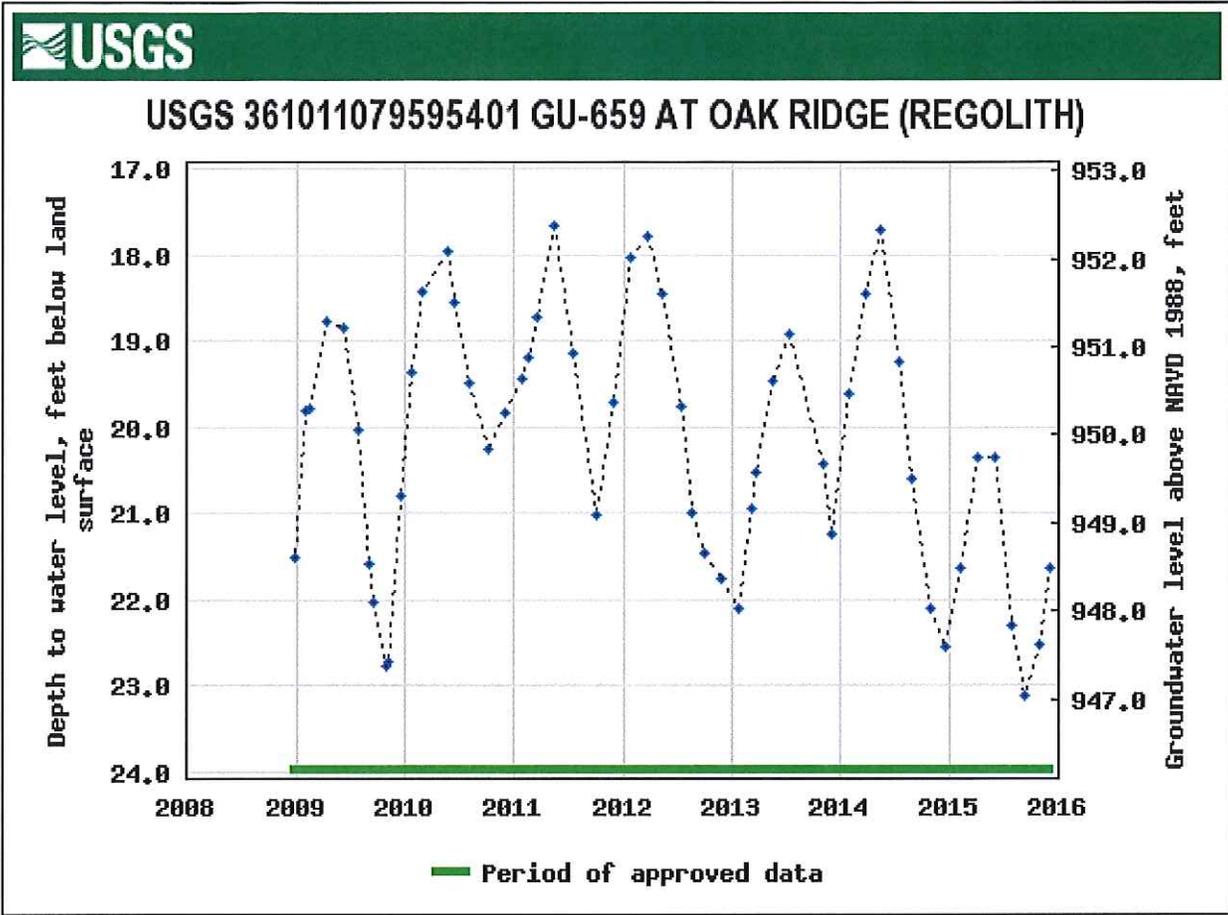
The USGS has requested the town to renew our annual contract for the ground water monitoring well on the town hall property for another year. The annual cost to the town is \$5,000 and USGS covers the remaining costs.

The well was installed in 2008 by the USGS, in partnership with the town, to monitor ground water levels in the area. Water levels are constantly updated and available for viewing online through a link on the town's website. Custom reports can be created through this site also. Included with this memorandum are several graphs available on the site. The first one shows the ground water levels of the past year and the next one shows the ground water levels since 2008. I have also included a more detailed report from the site.



USGS 361011079595401 GU-659 AT OAK RIDGE (REGOLITH)





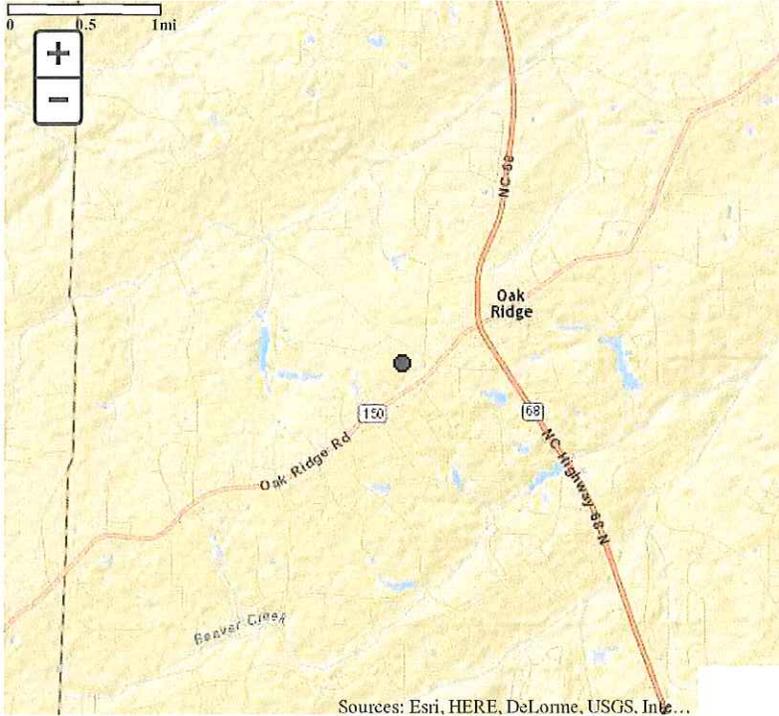


Groundwater Watch

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Site Number: 361011079595401 - GU-659 AT OAK RIDGE (REGOLITH)



DESCRIPTION:

Latitude 36°10'11.2", Longitude 79°59'53.8" NAD83
 Guilford County, North Carolina, Hydrologic Unit 03030002
 Well depth: 43 feet
 Land surface altitude: 970.1feet above NAVD88.
 Well completed in "Piedmont and Blue Ridge crystalline-rock aquifers" (N400PDMBRX) national aquifer.
 Well completed in "Regolith" (100RGLT) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Current / Historical Observations	2009-01-30	2016-02-27	
Daily Data			
Depth to water level, feet below land surface	2009-01-30	2016-02-26	7716
Daily Statistics			
Depth to water level, feet below land surface	2009-01-30	2015-12-02	2486
Monthly Statistics			
Depth to water level, feet below land surface	2009-01	2015-12	
Annual Statistics			
Depth to water level, feet below land surface	2009	2016	
Field groundwater-level measurements	2008-12-30	2015-12-03	53
Water-Year Summary	2009	2015	7

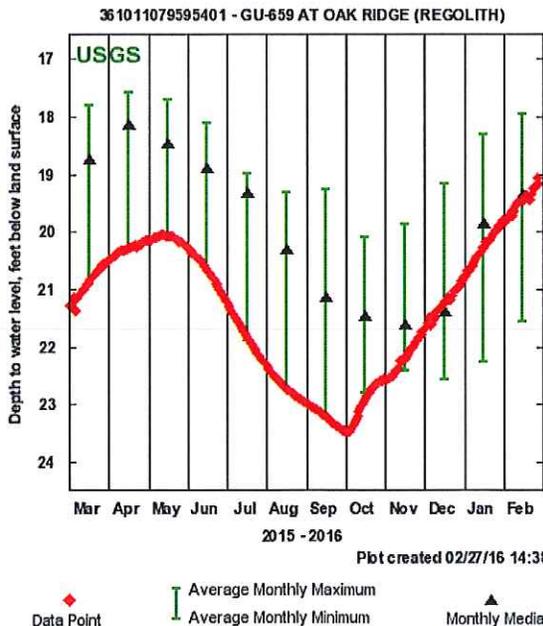
[Groundwater Watch Help Page](#)

Additional Data Sources	Begin Date	End Date	Count
Groundwater Watch **offsite**	2008	2016	2617

OPERATION:

Record for this site is maintained by the USGS North Carolina Water Science Center
 Email questions about this site to [North Carolina Water Science Center Water-Data Inquiries](#)

Site Statistics



Most recent data value: 19.05 on 2/28/2016
Period of Record Monthly Statistics for 361011079595401
Depth to water level, feet below land surface

Month	Average Monthly Minimum	Monthly Median	Average Monthly Maximum	Number of Months
Jan	18.31	19.86	22.26	7
Feb	17.95	19.37	21.55	7
Mar	17.80	18.76	20.87	7
Apr	17.56	18.15	20.28	7
May	17.70	18.48	20.10	7
Jun	18.11	18.91	20.66	7
Jul	18.98	19.33	21.87	7
Aug	19.30	20.32	22.74	7
Sep	19.27	21.14	23.23	7
Oct	20.08	21.48	22.80	7
Nov	19.87	21.63	22.40	7
Dec	19.16	21.40	22.56	8

As of 2/27/2016 01:23-2

Daily Groundwater Data

Most recent **Provisional** daily data value: 19.05 on 02/28/16

Summary for Period of Continuous Record

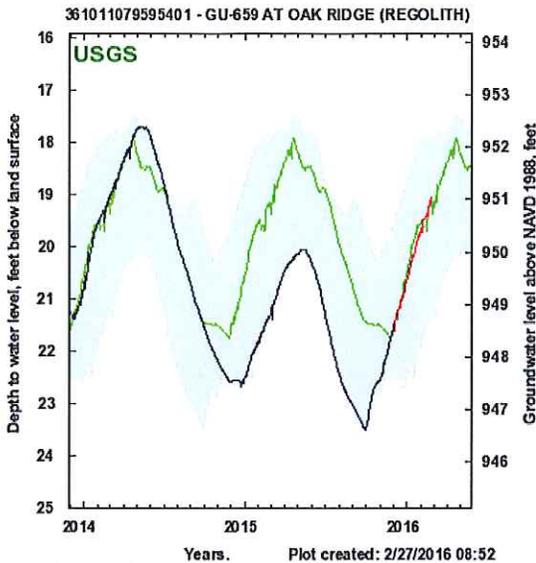
Depth to water level, feet below land surface

Approved Daily Maximum Values Data Used in Analysis

Begin Date	End Date	Days	% Complete
01/30/09	12/02/15	2,486	99
Max Level	Mean	Min Level	
17.44	20.04	23.48	

Daily Data Options

- USGS View latest data on NWISWeb
- View data in calendar format
- Download data in text format
- View daily medians



Approved Daily Data | Provisional Daily Data | Historical Daily Median | Range of Min & Max | Approved Daily Min & Max

Periodic Groundwater Data

Summary for Period of Record Periodic Water Levels

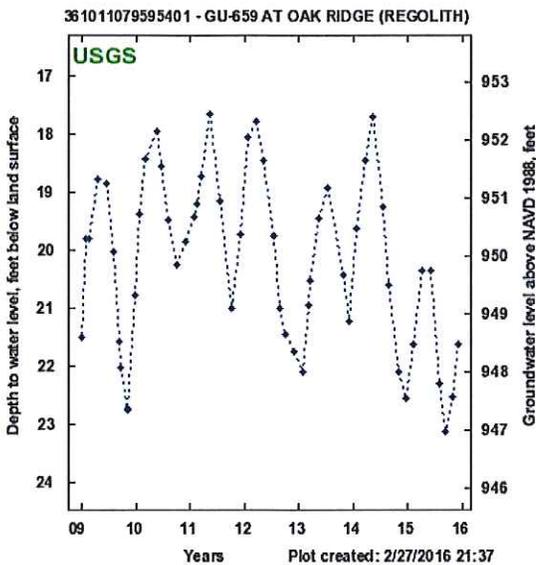
Depth to water level, feet below land surface

Approved Periodic Water Level Values

Begin Date	End Date	Number of Values	
12/30/08	12/03/15	53	
Highest WL	Date of Highest WL	Lowest WL	Date of Lowest WL
17.66	05/17/11	23.12	09/10/15

Groundwater Levels Options

- USGS View latest data on NWISWeb
- Download Groundwater levels in text format



◆ Approved water-level measurement
◆ Provisional water-level measurement

Period of Record - All Data Types

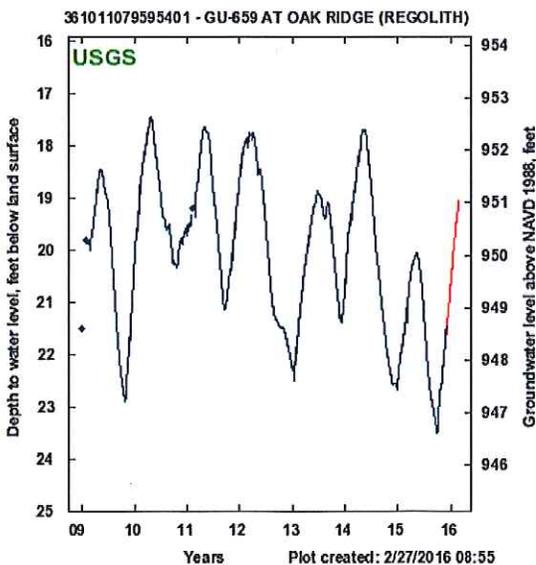
Summary for Period of Record - All Data Types

Depth to water level, feet below land surface

Begin Date	End Date	Number of Values	
12/30/08	02/28/16	3,355	
Highest WL	Date of Highest WL	Lowest WL	Date of Lowest WL
17.44	04/25/10	23.48	09/30/15

Period of Record Options

- USGS View latest data on NWISWeb for all data types
- View annual monthly statistics for all data types
- Download Groundwater levels in text format of all data types



Approved Daily Data | Provisional Daily Data | Water-Level Measurement | Approved | Provisional