Technical Data Information Report

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8214.00	Klenke	Nye County	QARC	Nye County	GWE

Document Date	3/9/2016	General Document Type	QA Program Doc	Keyword 2	Water
Entry Date	5/2/2016	Detail Document Type	Data	Keyword 3	Levels

Document Title/Subject GWE Manual Water Level Measurements from July 1, 2014 through June 30, 2015

Data Originator/Preparer John Klenke

Data Description GWE Manual Water Level Measurements from July 1, 2014 through June 30, 2015. Data package includes Nye County's Regional Groundwater Elevation Database (RGED V. 6.0_022316.accdb), field forms, hydrographs (available on request) and exported data from database. Data is posted to NWRPO website and the NCWD website as “rid8214.xlsx”.

Data Collection Method Manual water level measurement data collected using standardized electric water level sounders in accordance with NWRPO Work Plan -10 Rev. 0 (8/23/03), Groundwater Level Monitoring and Evaluation, NCWD Work Plan-10 Rev. 0 (3/16/15), Groundwater Level Monitoring and Evaluation, NWRPO Technical Procedure 9.9 Rev. 4 (8/6/09), Measurement of Groundwater Levels Using Electric Well Sounders, and NCWD Technical Procedure 9.9 Rev. 0 (3/16/15), Measurement of Groundwater Levels Using Electric Well Sounders

Data Collection Location GWE Wells: NC-GWE-2P, NC-GWE-33PA, NC-GWE-8PA, NC-GWE-Felderhoff-25-1PA, NC-GWE-GF-3PA, NC-GWE-GF-3T, NC-GWE-GF-4, NC-GWE-GF-4PA, NC-GWE-GF-4PB, NC-GWE-OV-1, NC-GWE-OV-2, NC-GWE-PV-1, NC-GWE-PV-2, NC-GWE-PV-3, NC-GWE-PV-4, and NC-GWE-PV-5.

Data Collection Period 7/1/14 – 6/30/15

Data Sources 1) NWRPO derived latitude and longitude for well location and elevation data for ground elevation; 2) Depth to groundwater measured with electric water level sounders as recorded on the NWRPO Water Level Measurement Field Form (Form TP-9.9 Rev 4, dated 8/6/09) or field scientific notebook (SNB); 3) Wellhead diagrams as established with engineers steel tape and recorded in scientific notebook showing casing type, diameter, and measuring point stickup above land surface. 4) NWRPO approved Well Completion Diagrams for each GWE well for casing type, diameter, and measuring point stickup (as established with engineers steel tape and recorded in Scientific Notebooks).
Supporting Data: GWE Pumping and Sampling SNB #178, GWE Drilling SNBs #179 & #180, and metadata from prior submittals of manual water level measurements in GWE wells. GPS Location RIDs 7838, 7838.02, 7838.03, and 7838.04 at http://www.nyecounty.com/GWE/GWE_WE1_data.htm

Data Censoring No data were censored for the period of this submittal.

Data Processing Routinely, data processing consists of calculations made in the Access database (RGED V6.0 accdb) and exports made from the database to MS Excel. Additionally, data are evaluated through the use of hydrographs to determine whether anomalous data exist. Anomalous data are investigated (through scientific notebooks, earthquake records, etc.) to determine the source of the anomaly. If the anomaly cannot be explained, the data are censored.

Data Limitations Estimated horizontal GPS coordinate accuracies from Trimble Pathfinder Office V5.0 are 8.8 cm (3.46 in) for NC-GWE-8PA, NC-GWE-Felderhoff-25-1PA; 16.3 cm (6.42 in) for NC-GWE-PV-3; 16.6 cm (6.54 in) for NC-GWE-GF-3T; <5.715.cm (<2.25 in) for NC-GWE-GF-3T; <5.715.cm (<2.25 in) for NC-GWE-PV-1, NC-GWE-PV-2; 18.2 cm (7.17 in) for NC-GWE-OV-2; 18.4 cm (7.24 in) for NC-GWE-GF-3PA, NC-GWE-GF-4, NC-GWE-GF-4PA, NC-GWE-OV-1; 25.4 cm (10.00 in) for NC-GWE-PV-4, NC-GWE-PV-5; and 26.7 cm (10.51 in) for NC-GWE-2P, NC-GWE-33PA. Estimated vertical GPS coordinate accuracies from Trimble Pathfinder Office V5.0 are 16.3 cm (6.42 in) for NC-GWE-PV-3; 16.6 cm (6.54 in) for NC-GWE-PV-1, NC-GWE-PV-2; 18.2 cm (7.17 in) for NC-

GWE-OV-2; 18.4 cm (7.24 in) for NC-GWE-GF-3PA, NC-GWE-GF-3T; <5.715.cm (<2.25 in) for NC-GWE-GF-3T; <5.715.cm (<2.25 in) NC-GWE-GF-4, NC-GWE-GF-4PA, NC-GWE-OV-1; 38.25 cm (15.06 in) for NC-GWE-PV-4, NC-GWE-PV-5; and 40.5 cm (15.76 in) for NC-GWE-8PA, NC-GWE-Felderhoff-25-1PA, NC-GWE-2P, NC-GWE-33, for NC-GWE-GF-3T, NC-GWE-GF-3T <5.715.cm (<2.25 in). See RIDs 7796.01, 7798.01, 7801.01, 7803.01, 7805.02, 7807.01, 7902, 7903, 7905.01, 7906, 7907, 7908, 7909, & 7910 for more information.

NC-GWE-GF-3T Water levels continued to recover very slowly during this reporting period (7/1/14 – 6/30/15). Pumping was conducted previously in this multiple completion well on 6/6/13 and 7/9/13 – 7/11/13. See RID 8091 for more information.
NC-GWE-OV-1 is a flowing artesian well and water levels (potentiometric heads) may be above the top of the casing during some of the winter months. When theses elevated water levels occur, a casing extender is added to measure the true water level, and results in a negative reading for the depth to water. These negative readings are indicated in the “Depth to Water Below M.P.” column of the accompanying Excel spreadsheet.

Governing QA Docs: NWRPO WP-10 Rev. 0, NWRPO TP-9.9 Rev. 4, NCWD WP-10 Rev. 0, and NCWD TP-9.9 Rev. 0

Frequency of Transmittal: Bisannually or as required by PI.

Direct Questions About Data To: QA Records Center