

# NYE County NWRPO -Technical Data Report

RID No.	Transmitter	Org.	Receiver	Org.	Key word1	Title/Description
7122	Buqo	T. S. Buqo,	QARC	Nye	1DX, 1S,	EWDP Manual Water Level Measurements through November 2006

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**Doc. Date** 12/5/2006    **General Doc. Type** QA Program Doc    **Keyword2** MWL  
**Entry Date** 12/11/2006    **Detailed Doc. Type** Data Packet    **Keyword3** Data

**Data Originator Preparer** Tom Buqo, Bob Wilcoxon

**Title of Data** EWDP Manual Water Level Measurements through November 2006

**Description of Data** Data package includes Nye County's Regional Groundwater Elevation Database (RGED V. 4.0.mdb) containing EWDP manual water level measurements through November 2006, field forms, hydrographs and exported data from database: "Export EWDP QA Data 1206.xls". This data supplements the previous data package (RID 7044) which included water level measurements through February 2006.

**Data Collection Method** NWRPO calibrated electric water level sounders in accordance with Work Plan 10 Rev. 0, Groundwater Level Monitoring and Evaluation., dated 8/20/03.

**Data Location(s)** NC-EWDP-1DX, -1S, -3D, -9SX, -Washburn-1X, -12PA, -12PB, -12PC, -15P, -19P, -4PB, -5SB, -7S, -10P, -10S, -18P, -19IM1, -22PA, -22PB, -23P, -16P, -24P, -27P, -28P, -29P, -13P, -22PC, -24PB, -32P, and -33P.

**Data Collection Period(s)** March 2006 to November 2006

**Data Source(s)** 1) M&O derived latitude, and longitude for well location and elevation data for well pad elevation ; 2) Depth to groundwater measured with electric water level sounders as recorded either in the Scientific Notebook (SNB) dedicated to each well, EWDP Groundwater Level SNB, EWDP Westbay Instrumented Wells SNB, or as recorded on the NWRPO Water Level Measurement Field Form (Form TP-9.9-1 Rev 0, dated 9/4/03); 3) NWRPO approved Well Completion Diagrams for each EWDP well for casing type, diameter, and measuring point stickup (as established with engineers steel tape and recorded in Scientific Notebook)

**Supporting Data** Metadata for prior submittals of manual water level measurements in EWDP wells (RIDs 6360, 6631, and 7044).

**Data Censoring** One data point recorded at NC-EWDP-12PB and included with this submittal was censored.

**Data Processing** Data processing is limited to calculations made in the Access database (RGED v.4.0 mdb) and exports made from the database to MS Excel.

**Data Limitations** The water-level elevations presented must be considered approximate because of the potential error in the GPS-based elevation of the land surface at the well site which is believed to be on the order of +/- 1.75 ft. according to work performed by the Center for Nuclear Waste Regulatory Analyses. The potential error in the GPS-based elevations does not affect the depth to water nor the absolute change in water levels over time that may be calculated using the elevation datum for land surface. The potential error may, however, result in limitations in the use of these data for the calculation of hydraulic gradients between wells with the error induced in such calculations being inversely proportional to the distance between the two wells being used to perform the calculation.

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**Governing  
QA Docs.** WP-10 Rev. 0, TP-9.9 Rev. 3

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**Frequency  
of  
Transmittal** Annually or more frequently as determined by the Principal Investigator and approved by the On-Site Geotechnical Representative.

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**Direct Questions  
About Data  
To-** NWRPO QA Records Center