

# NYE County NWRPO -Technical Data Report

RID No.	Transmitter	Org.	Receiver	Org.	Key word1	Title/Description
6402	Gilmore	Nye County	QARC	Nye	10S	EWDP-10S Westbay Data, 5/30/03 - 5/18/04
<b>Doc. Date</b>	10/18/2004	<b>General Doc. Type</b>	QA Program Doc	<b>Keyword2</b>	WB	
<b>Entry Date</b>	10/19/2004	<b>Detailed Doc. Type</b>	Data	<b>Keyword3</b>	Data	
<b>Data Originator</b>	Kathy Gilmore					
<b>Preparer</b>						
<b>Title of Data</b>	EWDP-10S Westbay Data, 5/30/03 - 5/18/04					
<b>Description of Data</b>	One CD containing an Excel file "051804_10S QA.xls". This file contains atmospheric pressure and temperature, calculated water elevations for zones 1 and 2, and temperature data for probes 1 and 2 for the period from 5/30/03 to 5/18/03 collected at Phase III EWDP-10S Westbay instrumented well.					
<b>Data Collection Method</b>	Westbay Mosdax Datalogger and pressure and temperature probes.					
<b>Data Location(s)</b>	NC-EWDP-10S					
<b>Data Collection Period(s)</b>	5/30/03 to 5/18/04					
<b>Data Source(s)</b>	<p>From 5/30/03 to 9/8/03, Westbay datalogger SN 2554 (Probe 0 - atmospheric) and two 250 psi probes: Probe 1 SN 2611, and Probe 2 SN 2613.</p> <p>From 9/18/03 to 11/6/03, Westbay datalogger SN 2693 (Probe 0 - atmospheric) and two 250 psi probes: Probe 1 SN 2611, and Probe 2 SN 2613.</p> <p>From 11/20/03 to 5/18/04, Westbay datalogger SN 2693 (Probe 0 - atmospheric) and two 250 psi probes: Probe 1 SN 2616, and Probe 2 SN 2446.</p> <p>Probe 1 depth = 682.13 ft Probe 2 depth = 838.98 ft</p> <p>Depths reflect measured values from the well ground surface to the subject measurement port.</p>					
<b>Data Censoring</b>	No data from this submittal were censored.					
<b>Data Processing</b>	The water elevation (ft, amsl [above mean sea level]) in a Westbay isolated zone is calculated from the pressure probe measurement (lb/ft <sup>2</sup> ) below the water table by subtracting the atmospheric pressure measurement (lb/ft <sup>2</sup> ) at the ground surface from the pressure measurement, dividing the result by the specific weight (lb/ft <sup>3</sup> ) of water at 15 degrees Celsius, and adding to this result the elevation (ft, amsl) of the probe. This calculation is made prior to submitting a QA processed data file to the Quality Assurance Records Center (QARC).					
<b>Data Limitations</b>	<p>EWDP-10S Westbay data limitations (data collection period 5/30/03 to 5/18/04). The following text contains additional information necessary for interpretation of the attached water elevation and temperature data. Time frames are listed for each activity. Certain activities, such as equipment testing or water sampling, may have impacted the data and the data analyzer should be aware of this.</p> <p>9/8/03 - 9/18/03 - data gap; MDL 2554 used to replace a malfunctioning datalogger at EWDP-22S aquifer test.</p>					

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11/6/03 - 11/20/03 - data gap due to water sampling.

12/17/03 11:51 - 12/18/03 9:13 - data gap due to downhole probe verifications.

Port depths used for water elevation calculations are directly measured values reflecting the distance between ground level and the measurement port and are reported in RID 5616 (measurement accuracy = +/- 0.2 ft). Specific weight values used in calculations assume a uniform water temp of 15 ° C. Accuracy of the downhole probe pressure is based on the probe pressure range: 250 psi probe = +/- 0.25psi (~0.58 ft). Probe temperature accuracy = +/- 1° C. The elevations were not corrected for temperature or borehole deviation; temperature and deviation information are available in the geophysical logging suite for this well (RIDs 4940, 5020, and 5416).

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, and directly proportional to the differences in surveying and processing techniques if different surveys were conducted for the two wells.

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**Governing  
QA Docs.**

TP- 9.2 Rev. 1 and WP-10 Rev. 0

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**Frequency  
of  
Transmittal**

As required by PI

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**Direct Questions  
About Data  
To-**

Nye County QA Records Center