

# NYE County NWRPO -Technical Data Report

RID No.	Transmitter	Org.	Receiver	Org.	Key word1	Title/Description
6615	Gilmore	Nye County NWRPO	M E Patton	EIL	4PA	Isotope analyses from University of Waterloo's Environmental Isotope Lab (EIL) for groundwater samples collected from NC-EWDP-4PA on 11/10/04 and 12/6/04
Doc. Date	5/4/2005	General Doc. Type	QA Program Doc	Keyword2	H2O	
Entry Date	5/23/2005	Detailed Doc. Type	Data Packet	Keyword3	Analyses	
Data Originator Preparer	M E Patton / K Gilmore					
Title of Data	Isotope analyses from University of Waterloo's Environmental Isotope Lab (EIL) for groundwater samples collected from NC-EWDP-4PA on 11/10/04 and 12/6/04					
Description of Data	Groundwater geochemistry data from groundwater samples obtained 11/10/04 and 12/6/04 during EWDP sampling events. The following analyses were conducted by the University of Waterloo Environmental Isotope Lab (EIL): stable isotope ratio analysis (SIRA) of oxygen and hydrogen in water, SIRA of carbon in total dissolved inorganic carbon, SIRA of nitrogen and oxygen in nitrate, strontium, radiocarbon, and tritium. Samples were collected on 11/10/04 using a Bennett sample pump and on 12/6/04 using the AEA deep well sampler. Data package includes QA analyses reports and original lab reports.					
Data Collection Method	Groundwater was pumped to the ground surface with a Bennett pump (piston pump operated with compressed air) from NC-EWDP-4PA on 11/10/04 and with the AEA deep well sampler (uses air pressure to drive water sample up tubing with a foam "pig" separating the air from the sample) on 12/6/04. More than the standard three well volumes were purged from the well before sampling (approximately 600 gallons with the Bennett pump and 1500 gallons with the AEA sampler). The wells were purged and samples collected, processed, bottled, and shipped to the testing laboratory following standard methods documented in Nye County QA technical procedure TP-8.1 revision 2 and test plan TPN-11.1 revision 0.					
Data Location(s)	NC-EWDP-4PA					
Data Collection Period(s)	11/04 to 12/04					
Data Source(s)	University of Waterloo Environmental Isotope Lab. Refer to RID 6505 for field chemistry parameters, SNB # 145 for field notes, and RID 6563 for description and operating instructions for the AEA deep well sampler.					
Data Censoring	None					
Data Processing	Analyses were performed by EIL and transmitted to NWRPO on hard copy lab reports and Excel spreadsheets. Data was evaluated by NWRPO personnel for compliance with quality assurance objectives according to technical procedure TP-8.1 Rev 2.					
Data Limitations	Relative percent difference values (RPDs) between the blind field duplicate samples (field QA sample) and the original samples obtained during this sampling phase are generally less than 30% (an acceptable value) for most analytes with one exception as follows: - NC-EWDP-4PA (GWS0078 and GWS0079): SIRA of <sup>18</sup> O in NO <sub>3</sub> (RPD>30)					
Governing QA Docs.	TP-8.1 Rev. 2; TPN-11.1 Rev. 0					
Frequency of Transmittal	As required by PI					

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Direct Questions    Nye County QA Records Center  
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