

NYE County NWRPO -Technical Data Report

RID No.	Transmitter	Org.	Receiver	Org.	Key word1	Title/Description
5579	Hammermeister	NYE	QARC	NYE	EWDP III	Nye County Drilling, Geologic Sampling and Testing, Logging, and Well Completion Report for the Early Warning Drilling Program Phase III Boreholes, February 2003, NWRPO-2002-04, Grant No. DE-FC28-02RW-12163, and technical review documentation.
Doc. Date	2/28/2003	General Doc. Type	Report	Keyword2	ISIP	
Entry Date	4/7/2003	Detailed Doc. Type	Technical Report	Keyword3	Report	
Data Originator Preparer	Dale Hammermeister					
Title of Data	Nye County Drilling, Geologic Sampling and Testing, Logging, and Well Completion Report for the Early Warning Drilling Program Phase III Boreholes, February 2003, NWRPO-2002-04, Grant No. DE-FC28-02RW-12163					
Description of Data	This record contains a CD and a hard copy of the subject report . The CD also contains an EXCEL spreadsheet file, titled RIDS, that lists the original RIDs for the following EWDP Phase III data collection activities: well drilling and construction, geologic logging and sampling, laboratory hydraulic parameter testing of geologic samples, and borehole geophysical logging. The subject report describes the scope, methods, and results of Phase III of Nye County's Early Warning Drilling Program (EWDP). Phase III focused on the subsurface hydrogeologic characterization of the lower Fortymile Wash area downgradient of Yucca Mountain during the last half of 2001 and the first half of 2002. Characterization activities described include: drilling 13 boreholes, collecting cuttings and core samples, geologic logging and laboratory testing of these samples, borehole geophysical logging, and constructing four multiple-screen monitor wells and five piezometers.					
Data Collection Method	QA plans, methods, and procedures for Phase III drilling, geologic sampling and logging, geophysical logging, and well construction and abandonment are listed in Table 1.4-1 in the subject report. Industry-standard laboratory testing methods for measurement of hydraulic related parameters on Phase III geologic samples are listed in Table 2.4-1 in the subject report. Finally, a summary of the types and application of geophysical logs used in Phase III boreholes is presented in Table 2.6-1 of the subject report.					
Data Location(s)	EWDP Phase III boreholes were located south of Busted Butte and north of U.S. Highway 95 within lower Fortymile Wash and on its western margin. Phase III boreholes addressed in the subject report include the following: NC-EWDP-10P, -10S, -10SA, -18P, -19IM1, -19IM1A, -19IM2, -19IM2A, -22PA, -22PB, -22SA, and -23P.					
Data Collection Period(s)	Field activities were conducted from July 2001 through March 2002. Laboratory testing continued through June 2002.					
Data Source(s)	RIDs containing original Phase III hydrogeology related data are listed on the CD of the subject report as noted in the above description of the submitted record. In addition, the Nye County Drilling Database (RID 5752) for EWDP Phase III boreholes contains all Phase III geologic logging and geologic sample laboratory testing data contained in or referenced in the subject report. Many of the graphs in the subject report were generated as graphical reports by this database. References to RIDs containing supporting hydrogeology original data collected from EWDP Phase I and II boreholes can be found on the nyecounty.com web site under "EWDP".					
Data Censoring	Data that were compromised or biased as a result of sampling, testing, and/or handling, and are therefore not considered useful to users, have been identified in Table 4.0-1 of the subject report. These data have been censored and will not be published by Nye County. However, these data may be viewed in their entirety at the NWRPO QA Records Center in Pahrump, NV.					
Data Processing	Data processing to support data analysis is described for different data types primarily in the results section (Section 4) of the subject report.					
Data Limitations	Data limitations in this report primarily result from the disturbing effects of drilling on hydraulic related properties of drill cutting collected from alluvial sediments. These limitations are detailed in the metadata for RIDs containing the original geologic logging data for EWDP Phase III boreholes. As stated					

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above, these RIDs are listed in an EXCEL file titled "RIDS" on the CD containing the subject report. In addition, limitations for different data types are discussed in detail in the subject report. For example, the drilling methods used in EWDP Phase III disturb the particle size distribution of drill cuttings from in situ formation conditions to varying degrees. These methods grind formation particles into smaller drill cuttings particles, especially where water is present in the saturated zone. As a result, particle size distribution data obtained from the saturated zone in most boreholes has been censored. This process of particle size reduction also occurs in the unsaturated zone, but to a lesser extent, especially in boreholes drilled using air-rotary reverse-circulation drilling methods. In most cases data collected from the unsaturated zone in boreholes using these drilling methods have not been censored, but at the same time these data should not be considered fully representative of in situ conditions. Finally, particle size distribution data from a limited number of core samples in several Phase III boreholes should be considered to be more representative of in situ conditions than drill cuttings from both the saturated and unsaturated zones.

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**Governing
QA Docs.** WP-5, WP-6, WP-8, TP-7.0, TP-8.0, TP-9.9, and TP-11.0

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**Frequency
of
Transmittal** One time only

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**Direct Questions
About Data
To-** Nye County QA Records Center