<b>NYE County NWRPO -</b>	Technical Data Report
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NYE	County NWF	PO - Techr	nical Da	ta Repo	ort	Title/Description		
RID No		Org.	Receiver	Org.	Key word1	Nye County Early Warning Drilling Program Phase IV Drilling Report, NWRPO-2004-04, July 2005		
6801 1	Hammermeister	Nye County NWRPO						
Doc. Date	7/1/2005 General Do	<b>c. Type</b> QA Program D	ос	Keyword2 E	WDP IV			
Entry Date	12/6/2005 Detailed Do	c. Type Technical Repo	ort	Keyword3 h	ydrogeologic			
	Dale Hammermeister							
Title of Data	Nye County Early Warnir	ng Drilling Program Ph	nase IV Drilling	Report, NWF	RPO-2004-04, 、	July 2005		
Description of Data	that lists the original RID related tasks; laboratory methods, and results of characterization of an un approximately several m activities described inclu	s for the following EW hydraulic parameter t Phase IV of Nye Cour named drainage locat iles north of U.S. High de: drilling five explor sting of these sample	DP Phase IV of esting of geolo ity's Early Warn ted north of the way 95. Phase atory borehole s, borehole geo	data collectior gic samples; ning Drilling F a Lathrop Wel o IV field actives and coring ophysical log	n activities: wel and borehole g Program (EWDF Ils cinder cone a vities were conc one sonic coref ging, developin	an EXCEL spreadsheet file, titled "RIDS for Drill Rpt IV.xls", Il drilling and construction; geologic logging, sampling, and jeophysical logging. The subject report describes the scope, P). Phase IV focused on the subsurface hydrogeologic and the west side of the lower Fortymile Wash area located ducted from late 2002 to late 2003. Characterization hole, collecting drill cuttings and core samples, geologic ig interpretative geologic cross-sections, and constructing e upper alluvial aquifer.		
Method	the subject report. Indus	try-standard laborator e subject report. Fina	y testing metho	ods for measu	urement of hydr	al logging, and well construction are listed in Table 1.6-1 in raulic related parameters on Phase IV geologic samples are of geophysical logs used in Phase IV boreholes is		
Data Location(s)	Three exploratory boreholes (NC-EWDP-16P, -27P, and -28P) were located in an unnamed drainage, called Flat Tire Flat by the NWRPO, north of the Lathrop Wells cinder cone. Two additional exploratory boreholes (NC-EWDP-24P and -29P) were located on the west side of lower Fortymile Wash, just outside the western border of the Nevada Test Site, several miles north of U.S. Highway 95. The corehole (NC-EWDP-19PB) was also located on the western side of lower Fortymile Wash, but immediately outside the southwest corner of the Nevada Test Site boundary on a large drill pad containing the Alluvium Testing Complex.							
Data Collection Period(s)	Field activities were con	ducted from October 2	2002 through D	December 200	03. Laboratory	testing continued through September 2004.		
Data Source(s)	of the submitted record.	In addition, the Nye ( ontained in or referen	County Drilling	Database (RI	D 6756) contai	CD of the subject report as noted in the above description ns all Phase IV geologic logging and most geologic sample hs and tables in the subject report were generated as		
	Supporting Data: Refer	nces to PIDs contain	ing currenting	bydrogoology	v original data c	collected from EWDP Phase I and II boreholes can be found		

Supporting Data: 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." Supporting hydrogeologic data from EWDP Phase III can be found in the technical report titled "Nye County Drilling, Geologic Sampling and Testing, Logging, and Well Completion Report for the Early Warning Drilling Program Phase III Boreholes,

## NYE County NWRPO - Technical Data Report

**Title/Description** 

RID No.	Transmitter	Org.	Receiver	Org.	Key word1
6801	Hammermeister	Nye County NWRPO	QARC	Nye	16P,

Nye County Early Warning Drilling Program Phase IV Drilling Report, NWRPO-2004-04, July 2005

## NWRPO-2002-04."

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**Data Censoring** Geologic data that were compromised or biased as a result of sampling, testing, and/or handling, or are shown to be unacceptably inaccurate field estimates, have been identified in Table 4.1-1 of the subject report. Borehole geophysical logging data that exhibit unacceptable noise and/or do not respond to known formation conditions as advertised are identified in Table 6.2-1. These geologic and geophysical 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 Limitations for different data types are discussed in the subject report primarily in Sections 4, 5, and 6. Many of the limitations primarily result from the disturbing effects of drilling on hydraulic related properties of cuttings samples collected from unsaturated alluvial sediments. These limitations are detailed in the metadata for RIDs containing the original geologic logging data for EWDP Phase IV boreholes. For example, the drilling method (dual-wall reverse-circulation air-rotary method) used in EWDP Phase IV exploratory boreholes disturbs the particle size distribution of unsaturated alluvium drill cuttings from in situ formation conditions to varying degrees. This method grinds formation particles into smaller drill cuttings particles. In gravely deposits this results in decreased gravel content and increased sand and fines content. Subsequently, a portion of the fines content is lost as dust from the cyclone separator, which captures the drill cuttings at the ground surface. Despite this drilling induced disturbance in particle size distribution, there is approximate agreement between particle size distributions obtained from drill cuttings and a limited number of drive core samples whose particle size distributions are generally considered representative of in situ conditions. As a result of this approximate agreement, drill cuttings particle size distributions were not censored. However, at the same time they should not be considered totally representative of in situ formation conditions.

Governing WP-5. WP-6, WP-8, TP-7.0, TP-8.0, TPN-5.1, and TPN-8.1 QA Docs.

Frequency One time only of Transmittal

Direct Questions NWRPO QA Records Center About Data To-

Data Processing Data processing to support data analysis is described for different data types primarily in the results sections (Sections 4, 5, and 6) of the subject report.