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**BIBLIOGRAPHY OF REPORTS ON STUDIES OF
THE GEOLOGY, HYDROGEOLOGY AND
HYDROLOGY AT THE NEVADA TEST SITE,
NYE COUNTY, NEVADA,
FROM 1951 TO 1996**

prepared by

Paul R. Seaber, Eva D. Stowers and Richard H. Pearl

Submitted to

Nevada Operations Office
U.S. Department of Energy

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ABSTRACT

Reports listed in this document include information relating to the Nevada Test Site (NTS) concerning the geology, hydrogeology, and hydrology of the area. The bibliography is divided into two parts: (1) reports which are listed alphabetically by author, and (2) reports which are indexed alphabetically by subject and subindexed by author. It covers the period from 1951 to the present (1996). The reports are mainly the result of cooperative programs of the U.S. Department of Energy and its predecessor agencies. This document was prepared as part of the Hydrologic Resources Management Program (HRMP) of the U.S. Department of Energy's Nevada Operations Office (DOE/NV) effort to provide information concerning the natural resources, particularly the hydrology and geology, of the NTS. It contains alphabetical listings of approximately 1,700 publications and additional references, such as abstracts relating to these investigations dating from 1951 through 1996, and an extensive index based on title-subject keywords. This document was prepared so that the accumulation of scientific literature over the last 45 years of work accomplished at the NTS could be listed in one publication for use by laypersons and scientists alike concerned with the NTS, thus making it possible to locate publications of interest to both research and general interests.

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INTRODUCTION

The Nevada Test Site (NTS) was established in 1951 as a proving ground for nuclear weapons (Figure 1). The site had formerly been part of an Air Force bombing and gunnery range during World War II. Sponsor-directed studies of the geology, hydrogeology, and hydrology of the NTS began about 1956 and were broad based in nature, but were related mainly to the effects of the detonation of nuclear weapons. These effects included recommending acceptable media and areas for underground tests, the possibility of off-site contamination of groundwater, air blast and surface contamination in the event of venting, ground-shock damage that could result from underground blasts, and studies in support of drilling and emplacement (Eckel, 1968). The studies were both of a pure scientific nature and of a practical applied nature.

The NTS was the site of 828 underground nuclear tests and 100 above-ground tests conducted between 1951 and 1992 (U.S. Department of Energy, 1994a). After July 1962, all nuclear tests conducted in the United States were underground, most of them at the NTS. The first contained underground nuclear explosion was detonated on September 19, 1957 (Miller, 1968), following extensive study of the underground effect of chemical explosives. The tests were performed by U.S. Department of Energy (DOE) and its predecessors, the U.S. Atomic Energy Commission and the Energy Research and Development Administration. As part of a nationwide complex for nuclear weapons design, testing and manufacturing, the NTS was the location for continental testing of new and stockpiled nuclear devices. Other tests, including Project "Plowshare" experiments to test the peaceful application of nuclear explosives, were conducted on several parts of the site. In addition, the Defense Nuclear Agency tested the effect of nuclear detonations on military hardware.

In September 1992, a moratorium on nuclear testing was imposed by Congress, and President Clinton subsequently extended the moratorium. As of 1996, activities have focused on stockpile stewardship and readiness to resume testing if required. Other missions at the NTS have included work in the development of nuclear space propulsion systems and nuclear ramjet engines.

Presently, two NTS locations are used to dispose of defense low-level radioactive waste. Low-level radioactive waste comes from NTS operations as well as other DOE sites in the nuclear weapons complex.

The investigations of the geology, hydrogeology and hydrology of the NTS have been conducted by a large ensemble of federal, state, and local agencies, as well as by the private sector. The contributing agencies and companies are too numerous to mention individually but can be ascertained from the bibliographic references. Most federal agencies have taken part in these studies. Many state and local agencies have participated. The investigations have produced a large and varied literature. Many of the reports, particularly the early reports, were classified and had limited distribution. However, many of these have since been declassified and released to the public in the open literature. Many others have been revised and published in the open scientific literature.

A separate bibliography of publications related to the Yucca Mountain Site Characterization Project in Nevada has been published (Glanzman, 1981). Several other bibliographies relating to the NTS have been published, notably by the U.S. Geological Survey (USGS) (Glanzman, 1992).

Figure 1. Location of the Nevada Test Site.

Geologic, hydrogeologic and hydrologic studies sponsored by DOE in southern Nevada are presently managed by two different offices, the Yucca Mountain Site Characterization Office (DOE/YMSCO), whose efforts are focused on characterization studies required to support suitability studies for a proposed high-level nuclear waste repository, and the Nevada Operations Office (DOE/NV). DOE/NV activities have expanded since the 1992 moratorium and include chemical spill testing, emergency response training, conventional weapons testing, waste management and environmental technology studies. The present project, resulting in this bibliography, is part of DOE/NV's Hydrologic Resources Management Program (HRMP), formally known as the Hydrology/Radionuclide Migration Program. The participating agencies in this program are currently the USGS, Desert Research Institute (DRI), U.S. Environmental Protection Agency (EPA), Los Alamos National Laboratory (LANL), and Lawrence Livermore National Laboratory (LLNL).

DESCRIPTION

Publications are listed alphabetically by author in the main bibliography. All authors of reports are listed and cross referenced. These reports are then alphabetically indexed by subject and indexed by their subject headings pertinent to the geology, hydrogeology and hydrology of the NTS as an aid in recognizing related information on a particular subject.

The references were compiled from various sources, but primarily from HRMP agencies. Reports funded by the Yucca Mountain investigations (now DOE/YMSCO) that were of such a broad nature that their findings and conclusions would also apply to the NTS are included in this document.

In addition, using Dialog (a database search tool available from Knight-Ridder Information, Inc.), a search was made of the computer files of the NTIS (National Technical Information Service), GEOREF (a listing from the American Geological Institute), and Water Resources Abstracts (WRA, produced by Cambridge Scientific Abstracts). These references were then checked for duplication. A list of subject keywords was compiled and all references were made a part of that list.

The subject index is keyed to the actual publications. It was prepared primarily from titles of the publications with minimal research of publications content and, thus, may not be comprehensive. Users are encouraged to examine index listings under several related keywords.

PURPOSE AND OBJECTIVE

It is currently believed that a comprehensive bibliography of reports for the NTS does not exist. It was deemed desirable to produce such a document as an aid to present and future researchers at the NTS. This document is only an initial effort, but should be helpful to the layperson and researcher interested in past work on the geology, hydrogeology and hydrology of the NTS.

Many of the publications are available in public libraries. If a publication cannot be found in a library, the individual publishing agency, such as the USGS or DRI, should be contacted. DOE/NV Technical Information Resource Center in Las Vegas usually has a copy of most of the reports listed.

Many of the reports are out of print and arrangement may have to be made to inspect or reproduce copies. Journal articles or symposia proceedings should be requested from the appropriate publisher.

GENERAL OVERVIEW OF THE NEVADA TEST SITE

From the early 1950s, the NTS was the primary continental location for testing of nuclear weapons by the United States and for conducting experiments related to the peaceful application of nuclear explosions. The site, which occupies 3,600 km² (1,350 mi²) of south-central Nevada, was chosen by the Atomic Energy Commission primarily because of its remoteness from population centers and because of federal control over much of the land (U.S. Department of Energy, 1993, p.1). Physiographic features of the NTS are shown in Figure 2. The areas of federal land administration and the Death Valley flow system are shown in Figure 3.

Initially, nuclear tests were detonated at or above land surface, but after July 1962, all tests at the NTS were detonated underground. Activities at the NTS over the past 40 years have generated a substantial amount of hazardous waste, both at the surface and underground (Figure 4). The darker-shaded areas in Figure 4 delineate areas where tests were detonated near or below the water table. The largest volume of contaminants was produced as a direct consequence of nuclear testing. At the NTS, 828 underground nuclear tests have been detonated, most of which (more than 95 percent) were at Yucca Flat, Rainier Mesa, and Pahute Mesa (U.S. Department of Energy, 1994a). These nuclear devices were emplaced deep in the earth to contain both their explosive force and radioactive byproducts within the subsurface, thus avoiding the release of radioactive byproducts to the atmosphere and biosphere. Even though groundwater levels in the NTS region are generally more than 244 m (800 ft) below land surface, many of the intermediate- and larger-yield tests were detonated at depths near or below the water table to ensure the subsurface containment of radioactive byproducts (Laczniak *et al.*, 1996, p.2). These tests may have resulted in the introduction of radioactive and chemical contaminants into the regional groundwater system.

GEOLOGY, HYDROGEOLOGY AND HYDROLOGY OF THE NEVADA TEST SITE AND VICINITY

Below is a general description of the geology and hydrology of the NTS and vicinity. A more detailed description can be found in many of the references contained in this bibliography.

The NTS is located within the southern Great Basin region, an internally drained part of the Basin and Range physiographic province. It lies wholly within the Death Valley groundwater flow system, which covers an area of 40,922 km² (15,800 mi²) between the principal recharge areas in the high mountains of central Nevada and the southernmost discharge areas in Death Valley, California. Figure 5 shows the generalized subbasin of the Death Valley groundwater basin and flow system.

This region is characterized by low rainfall, intermittent streams, internal surface drainages, and large, sparsely distributed springs. It is estimated that more than 70,000 acre-ft of groundwater are transmitted annually through this geologically diverse region (Laczniak *et al.*, 1996, p.8). In

Figure 2. Physiographic features of the Nevada Test Site.

Figure 3. Location of the Death Valley groundwater-flow system in relation to local geographic features and areas of federal land administration (source: Lacznia *et al.*, 1996, p.6).

Base prepared by U.S. Geological Survey from digital data, 1:100,000 1979-89;
 Universal Transverse Mercator projection
 Zone 11

Figure 4. General area of underground nuclear testing and other potential sources of subsurface contamination at the Nevada Test Site (modified from Lacznia *et al.*, 1996, p.4).

Figure 5. Generalized groundwater subbasins of the Death Valley basin and flow system (source: U.S. Department of Energy, 1994b).

general, water moves southward through thick sequences of carbonate and volcanic rocks away from areas of major recharge in central Nevada, toward areas of major surface discharge at Ash Meadows, Oasis Valley, Alkali Flat and Death Valley (Figure 5).

The composite potentiometric surface map (Figure 6) of the NTS and vicinity shows the height to which water rises in cased wells and represents either the unconfined groundwater table or the level of water in the first confined aquifer encountered below the land surface. Figure 7 shows the general direction of regional groundwater flow in a flat, horizontal plane and not necessarily the vertical flowpaths. The geologic cross section shown in Figure 8 depicts both horizontal and vertical flow.

The movement of groundwater is controlled largely by the water-transmitting properties of the rocks through which it flows. These major units are described in Tables 1, 2 and 3. Table 1 lists the generalized characteristics of the groundwater subbasins at the NTS and vicinity. Table 2 lists the principal stratigraphic and associated hydrogeologic units of the area. Table 3 lists the nomenclature for the hydrogeologic units of the area. The flow system occurs primarily within volcanic rock in the west and carbonate rock in the east. Most of the groundwater flow is conveyed through the NTS within a thick sequence of Paleozoic carbonate rocks, referred to as the carbonate aquifer. The carbonate aquifer occurs in much of central and southeastern Nevada. NTS groundwater is also conveyed through the volcanic and alluvial aquifers.

Rain and snow on some of the intermediate mountain ranges and higher mesas contribute thousands of acre-ft/yr of water into the underlying aquifers. Climatic zones range from semi-arid in the valleys to almost humid in the mountains. Vegetation is reflective of both elevation and increasing precipitation with increasing elevation. Local communities and commercial and federal facilities rely on groundwater for much of their water supply because surface water is limited in this mostly arid region. Wells throughout the flow system provide for agricultural, livestock, industrial and domestic water needs, as do numerous springs, which also support a diversity of wildlife and vegetation.

Groundwater flowing beneath the NTS passes through diverse rocks that differ substantially in terms of age, composition and water-bearing properties. These rocks form a complex, three-dimensional framework of groundwater conduits and barriers that can best be described as hydrogeologic units. The regional studies listed in this document form the basis for predicting the locations of the major hydrogeologic units that convey most of the groundwater in the upper 1,500 to 2,000 m (4,500 to 6,000 ft) of rock underlying the NTS. These are: the basement confining units, carbonate aquifer, Eleana confining unit, volcanic aquifers and confining units, and the valley-fill aquifers in ascending order of occurrence (see Table 3). These major units are useful descriptive elements of the conceptual hydrogeologic framework.

The rocks that make up the major regional hydrogeologic units include parts of a thick sequence (more than 12,000 m or 35,000 ft) of Paleozoic and older sedimentary rocks (about 600 to more than 280 million years before present [Ma]), local intrusive bodies of Cretaceous granite (about 100 Ma), a thick and variable assemblage of Miocene volcanic rocks (about 6 to 8 Ma), and

Figure 6. Composite potentiometric surface map of the Nevada Test Site and vicinity (source: U.S. Department of Energy, 1994b).

Figure 7. Regional ground-water flow for the Nevada Test Site and vicinity (source: U.S. Department of Energy, 1994b).

Figure 8. Geologic cross section showing generalized groundwater flow beneath the Nevada Test Site and vicinity (source: U.S. Department of Energy, 1996b).

TABLE 1. GENERAL CHARACTERISTICS OF GROUNDWATER SUBBASINS OF THE NEVADA TEST SITE AND VICINITY
(source: Laczniak et al., 1996, p.17).

Ground-water subbasin	Surface area (square miles)	Relation to NTS underground test areas	Principal water-bearing rocks	Inflow ¹	Outflow ¹
Oasis Valley [OV]	550	Includes westernmost part of Pahute Mesa test area in northwestern NTS	Welded tuffs and lava flow; valley-fill alluvium locally important at Gold Flat and Oasis Valley	Precipitation recharge near Black Mountain; subsurface inflow from Cactus Flat	Springflow and evapotranspiration at Oasis Valley; subsurface outflow to AFFCR south of Beatty, Nev.
Alkali Flat-Furnace Creek Ranch [AFFCR]	2,800	Includes most of Pahute Mesa and all Buckboard Mesa and Dome Mountain test areas in western NTS; Rainier Mesa and Shoshone Mountain test areas are along boundary between AFFCR and AM	Welded tuffs and lava flows in test areas; limestone, dolomite, and valley-fill alluvium south of test areas and at discharge area	Precipitation recharge at Belted Range, Kawich Range, Quinn Canyon Range, Pahute Mesa, and Rainier Mesa and possibly at Timber Mountain and Fortymile Wash; subsurface inflow from Cactus Flat and from across discharge areas of OV and AM	Springflow at Death Valley and evapotranspiration from Alkali Flat and Death Valley
Ash Meadows [AM]	4,000	Includes all Yucca Flat and Frenchman Flat test areas in central, eastern, and southern NTS; Rainier Mesa and Shoshone Mountain test areas are along boundary between AM and AFFCR	Welded and nonwelded tuffs, limestone, dolomites and valley-fill alluvium in test areas; limestone, dolomite and valley-fill alluvium south and west of test areas and at discharge areas	Precipitation recharge at Belted Range, Reveille Range, Rainier Mesa, Timpahute Range, Pahrnagat Range, Sheep Range, Spring Mountains, and possibly at Desert Range; subsurface inflow from Railroad Valley and Pahrnagat Valley	Springflow and evapotranspiration at Ash Meadows spring line; subsurface outflow beneath Ash Meadows to AFFCR

¹ Based on information from Winograd and Thordarson (1975), Waddell and others (1984), and Harrill and others (1988).

TABLE 2. PRINCIPAL STRATIGRAPHIC AND ASSOCIATED HYDROGEOLOGIC UNITS OF THE NEVADA TEST SITE AND VICINITY (source: Lacznia et al., 1996, p.11-14).

[Based on information from Blankennagel and Weir, 1973, table 1; Winograd and Thordarson, 1975, table 1; Byers and others, 1976; Cole and others, 1990; Sawyer and others, 1990; Sawyer and others, 1994; and R.G. Warren, Los Alamos National Laboratory, written commun., 1991]

Stratigraphic unit ¹		Principal lithology ²	Hydrogeologic unit ³	Known or inferred hydrologic significance ⁴
Valley-fill deposits [Qa, QTa, Qp, Qc, Qc] Miocene to Quaternary		Gravel and sand (eolian sand and lakebed deposits)	Valley-fill aquifer	Generally unsaturated except in deepest structural basins at Yucca Flat, Frenchman Flat, Emigrant Valley, and Amargosa Desert. Saturated thickness highly variable and can exceed 1,000 ft locally; local source of recharge to regional carbonate-rock aquifer. Fine-grained lakebed deposits present in Ash Meadows area may inhibit regional flow and divert ground water to surface [AM, OV, AFFCR]
Basalt [Qb, QTb, Tb] Miocene to Quaternary		Basalt in thin flows, dikes, and cinder cones	n/c	Generally unsaturated; dikes and local flows may influence local ground-water movement [OV, AFFCR, AM]
Thirsty Canyon Group [Tt] 9.4 Ma		Variable welded peralkaline rhyolite ash-flow tuff (trachyte lava)	Welded-tuff aquifer	Generally unsaturated; may contain local perched water in Pahute Mesa and beneath Oasis Valley [OV, AFFCR]
Timber Mountain Group [Tm] 12.5-11.5 Ma	Ammonia Tanks Tuff	Variable welded ash-flow tuff (bedded tuff)	Welded-tuff aquifer	Generally unsaturated except in Oasis Valley and possibly Jackass Flats [OV, AFFCR?]
	Rhyolite of Tannenbaum Hill	Rhyolite lava	Lava-flow aquifer	Local aquifer in northwestern part of Timber Mountain caldera [AFFCR, OV]
	Rainier Mesa Tuff	Variably welded ash-flow tuff (nonwelded tuff; rhyolite lava)	Welded-tuff aquifer	Major aquifer in deeper parts of Yucca Flat, CP Basin, Frenchman Flat, and Jackass Flats, and in western Pahute Mesa and Oasis Valley [AM, AFFCR, OV]
	Pre-Rainier Mesa rhyolites	Rhyolite lava (nonwelded tuff)	Lava-flow aquifer	Local aquifers in Pahute Mesa and at Yucca Mountain [AFFCR]
Paintbrush Group [Tp] 12.8-12.7 Ma	Post-Tiva Canyon rhyolites	Rhyolite lava (nonwelded tuff)	Lava-flow aquifer	Generally unsaturated; may form local aquifers in fault blocks in western and central Pahute Mesa; contains perched water elsewhere [OV, AFFCR]
	Tiva Canyon Tuff	Variably welded ash-flow tuff (nonwelded tuff; locally zeolitized)	Welded-tuff aquifer (tuff confining unit)	Major aquifer in Pahute Mesa and Jackass Flats; confining unit where nonwelded in Yucca Flat [AFFCR, AM]
	Middle Paintbrush Group rhyolites (includes rhyolites of Echo Peak and Silent Canyon)	Rhyolite lava (welded ash-flow tuff; nonwelded tuff, locally zeolitized)	Lava-flow aquifer (welded-tuff aquifer; tuff confining unit)	Local aquifers in Pahute Mesa; minor confining unit at Yucca Mountain [AFFCR]
	Topopah Spring Tuff	Variably welded ash-flow tuff (nonwelded tuff, locally zeolitized)	Welded-tuff aquifer (tuff confining unit)	Major aquifer in western Pahute Mesa, Jackass Flats, southern Yucca Flat, CP Basin, and Frenchman Flat [OV, AFFCR, AM]
Calico Hills Formation [Ta] 12.9 Ma	Volcanics of Area 20	Rhyolite lava and nonwelded tuff, commonly zeolitized (welded tuff)	Lava-flow aquifer, tuff confining unit (welded-tuff aquifer)	Major aquifer in central and western Pahute Mesa; major confining unit in eastern Pahute Mesa, Yucca Mountain, Jackass Flats, and Yucca Flat [AFFCR, OV?]
	Rhyolite of Inlet	Rhyolite lava	Lava-flow aquifer	Major aquifer in eastern and central Pahute Mesa [AFFCR, OV?]

TABLE 2. PRINCIPAL STRATIGRAPHIC AND ASSOCIATED HYDROGEOLOGIC UNITS OF THE NEVADA TEST SITE AND VICINITY (Continued).

Stratigraphic unit ¹		Principal lithology ²	Hydrogeologic unit ³	Known or inferred hydrologic significance ⁴
Wahmonie Formation [Tw] 13.0 Ma		Andesite and dacite volcanic breccia (lava; nonwelded tuff)	Tuff confining unit (lava-flow aquifer or confining unit?)	Confining unit west of Frenchman Flat and in Jackass Flats; contains perched water near Cane Springs and Pavits Spring; thin confining unit in Yucca Flat (AM, AFFCR)
Crater Flat Group [Tc] 13.25-13.1Ma	Prow Pass Tuff	Variably welded ash-flow tuff (nonwelded tuff, commonly zeolitized)	Welded-tuff aquifer (tuff confining unit)	Major aquifer at Yucca Mountain; confining unit where nonwelded in Yucca Flat and Rainier Mesa (AFFCR, AM)
	Middle units	Rhyolite lava (latite lava; nonwelded tuff)	Lava-flow aquifer	Local aquifers in Pahute Mesa; confining units where nonwelded and zeolitized (AFFCR, AM)
	Bullfrog Tuff	Variably welded ash-flow tuff (nonwelded tuff, commonly zeolitized)	Welded-tuff aquifer (tuff confining unit)	Major aquifer at Yucca Mountain; major confining unit in Pahute Mesa (AFFCR, AM)
	Tram Tuff	Variably welded ash-flow tuff	Welded-tuff aquifer	Major aquifer at Yucca Mountain (AFFCR, AM)
Belted Range Group [Tb] 13.85-13.6 Ma	Deadhorse Flat Formation	Rhyolite lava and variably welded ash-flow tuff (nonwelded tuff, commonly zeolitized)	Lava-flow aquifer; welded-tuff aquifer	Major aquifers in eastern Pahute Mesa (AFFCR, OV?)
	Grouse Canyon Tuff	Peralcaline welded ash-flow tuff (nonwelded tuff, commonly zeolitized)	Welded-tuff aquifer (tuff confining unit)	Local aquifer in Yucca Flat and Pahute Mesa (AFFCR, AM, OV)
Tunnel Formation [Tn] about 14 Ma		Nonwelded tuff, commonly zeolitized	Tuff confining unit	Major confining unit in Rainier Mesa and Yucca Flat; contains perched water at Rainier Mesa (AFFCR, AM)
Volcanics of Big Dome [Tu] about 15 Ma	Rhyolite of Quartet Dome	Peralcaline rhyolite lava	Lava-flow aquifer	Local aquifer in eastern Pahute Mesa (AFFCR)
	Tub Spring Tuff	Variably welded ash-flow tuff	Welded-tuff aquifer	Local aquifer in northern Yucca Flat and in parts of Pahute Mesa and Rainier Mesa (AFFCR, AM)
Older volcanics [To] 16-15 Ma	Tunnel bed 2 and Tunnel bed 1	Nonwelded tuff, commonly zeolitized	Tuff confining unit	Confining unit in Rainier Mesa and Yucca Flat; contains perched water at Rainier Mesa (AFFCR, AM)
	Red Rock Valley Tuff, Fraction Tuff, and pre-fraction tuffs	Variably welded ash-flow tuff; nonwelded tuff, commonly zeolitized	Tuff confining unit (welded-tuff aquifer)	Major confining unit where nonwelded in southern Yucca Flat and Frenchman Flat; local aquifers in northern Yucca Flat, southern Rainier Mesa, and parts of Pahute Mesa. Unit locally includes ash-flow tuffs of older mid-Tertiary volcanic centers (AFFCR, AM)
Pavits Spring Formation [Ts] Miocene		Tuffaceous sandstone; local conglomerate and siltstone (ash-fall tuff; lacustrine limestone)	n/c	Significance unknown; mapped as an informal unit east, south, and west of Frenchman Flat; partly coeval with some other volcanic units (AM)
Horse Spring Formation [Ts] mid-Tertiary		Conglomerate and tuffaceous sandstone (lacustrine limestone; ash-fall tuff)	n/c	Significance unknown; mapped as an informal unit south and west of Frenchman Flat along Rock Valley fault system (AM)

TABLE 2. PRINCIPAL STRATIGRAPHIC AND ASSOCIATED HYDROGEOLOGIC UNITS OF THE NEVADA TEST SITE AND VICINITY (Continued).

Stratigraphic unit ¹		Principal lithology ²	Hydrogeologic unit ³	Known or inferred hydrologic significance ⁴
Paleocolluvium [Tx] Tertiary		Sedimentary breccia	n/c	Locally very porous; thickness variable along basal contact of Tertiary section; only known from Yucca Flat and Rainier Mesa areas; hydrologic significance uncertain but known to act as a local confining unit in Yucca Flat (AM, AFFCR)
Granite [Kg] Cretaceous		Porphyritic monzogranite	n/c	Relatively impermeable; forms local cylindrical stocks north of Rainier Mesa and Yucca Flat; locally yields water from fracture zones (AFFCR, AM)
Tippipah Limestone [PIPt] Chiefly Pennsylvanian		Thin-bedded limestone (pebble conglomerate)	Upper carbonate-rock aquifer	Local aquifer in western Yucca Flat; limited lateral extent (AM)
Eleana Formation [MDe] and Chainman Shale [Mch] Chiefly Mississippian		Siliceous siltstone; chert sandstone; cobble conglomerate (shale; quartzite; bioclastic limestone)	Eleana confining unit	Major confining unit along boundary between AFFCR and AM subbasins in western Yucca Flat and northern Jackass Flats; saturated thickness variable and can exceed 5,000 ft at some locations; locally yields water from fracture zones in quartzite and limestone (AFFCR, AM)
Guilmette Formation [Dg] Devonian		Limestone, locally sandy and dolomitic	Lower carbonate-rock aquifer	Regional carbonate-rock aquifer; saturated thickness can exceed 15,000 ft; conveys most ground water in Yucca Flat-Frenchman Flat area and along Rock Valley fault system; principal aquifer throughout Ash Meadows subbasin; significant aquifer in southern part of Yucca Mountain and south into AFFCR subbasin (AM, AFFCR)
Simonson Dolomite [Ds] Devonian		Dolomite, locally silty or cherty		
Sevy, Laketown, and Lone Mountain Dolomite; Roberts Mountain Formation; dolomite of Spotted Range [various symbols] Chiefly Silurian and Devonian		Dolomite, locally silty or cherty		
Ely Springs Dolomite [Oes] Ordovician		Dolomite, cherty dolomite		
Eureka Quartzite [Oe] Ordovician		Siliceous orthoquartzite		
Pogonip Group [Op] Ordovician		Limestone and silty limestone (dolomite)		
Nopah Formation [En] Cambrian		Limestone and dolomite, locally cherty and silty; Dunderberg Shale at base		
Bonanza King Formation [Ebk] Cambrian		Dolomite and limestone (silty dolomite; chert)		
Carrara Formation [Ec] Cambrian	[upper part]	Limestone and silty limestone		Due to displacement on low-angle faults, carbonate rocks of these stratigraphic units occur locally out of stratigraphic order above Eleana Formation or Chainman Shale; in such situations, structural blocks of these units do not form lower carbonate-rock aquifer, but rather act similar to upper carbonate-rock aquifer

TABLE 2. PRINCIPAL STRATIGRAPHIC AND ASSOCIATED HYDROGEOLOGIC UNITS OF THE NEVADA TEST SITE AND VICINITY (Continued).

Stratigraphic unit ¹		Principal lithology ²	Hydrogeologic unit ³	Known or inferred hydrologic significance ⁴
Carrara Formation [Cc] Cambrian	[lower part]	Shale and siltstone (limestone and quartzite)	Quartzite confining unit	Widespread confining unit that forms hydrologic basement throughout much of southern Nevada; saturated thickness can exceed 10,000 ft; forms major barrier to lateral ground-water flow in northeastern Yucca Flat, south of Oasis Valley near Beatty, and south of Ash Meadows; locally yields substantial water from fractured quartzite or fault zones in northern Yucca Flat [OV, AFFCR, AM]
Zabriskie Quartzite [Cz] Cambrian		Siliceous orthoquartzite		
Wood Canyon Formation [CZw] Cambrian and Eocambrian		Micaceous siltstone and orthoquartzite (dolomite; pebbly quartzite)		
Stirling Quartzite [Zs] Eocambrian		Siliceous orthoquartzite and micaceous siltstone (quartzite conglomerate)		
Johnnie Formation [Zj] Eocambrian		Siliceous orthoquartzite and micaceous siltstone (silty limestone)	n/c	Known only from bottom of deep drillhole UE-15d in northern Yucca Flat; stratigraphic identity uncertain (Barnes, 1962)
Noonday Dolomite [Zn?] Eocambrian		Dolomite		

¹ Map symbol shown in brackets. Approximate age given in millions of years ago (Ma) or indicated by geologic system.

² Rock type listed in order of decreasing prevalence; minor but significant rock types listed in parentheses.

³ Hydrogeologic units in order of decreasing prevalence. Stratigraphic classification of Tertiary volcanic rocks is based on age and composition. Lithologic and hydrologic properties may be extremely variable from place to place. n/c, stratigraphic unit has not been characterized as a hydrogeologic unit, generally because its presence in the unsaturated zone is minor.

⁴ Code in brackets at end of entry gives ground-water subbasin or subbasins in which stratigraphic units is prevalent. AFFCR, Alkali Flat-Furnace Creek Ranch; AM, Ash Meadows; and OV, Oasis Valley. Query indicates uncertainty regarding presence or significance of unit in subbasin.

TABLE 3. NOMENCLATURE FOR HYDROGEOLOGIC UNITS OF THE NEVADA TEST SITE AND VICINITY (source: Lacznia et al., 1996, p.14).

Regional hydrogeologic unit	Subregional hydrogeologic unit	Equivalent previous units (Winograd and Thordarson, 1975)
Valley-fill aquifer	Valley-fill aquifer ¹	Valley-fill aquifer
Volcanic-rock aquifer	Welded-tuff aquifer ¹	Welded-tuff aquifer
		Bedded-tuff aquifer
Volcanic confining unit	Lava-flow aquifer ¹	Lava-flow aquifer
	Tuff confining unit ¹	Tuff aquitard
		Lava-flow aquitard
N/R ²	Granite ¹	Minor aquitard
N/R ²	Upper carbonate-rock aquifer ¹	Upper carbonate-rock aquifer
Eleana confining unit	Eleana confining unit	Upper clastic aquitard
Carbonate-rock aquifer	Lower carbonate-rock aquifer	Lower carbonate-rock aquifer
Basement confining unit	Quartzite confining unit	Lower clastic aquitard

¹ Due to original lenticular or interlayered form of constituent rock bodies, or due to geometric modifications caused by faulting or folding, or both, these hydrogeologic units generally consist of more than one disconnected or partially connected aquifer or confining unit.

² N/R, no regional hydrogeologic unit is recognized because corresponding subregional units have limited areal extent and do not substantially effect regional ground-water flow.

locally thick deposits of post-volcanic gravel and sand that fill the valleys (Frizzell and Shulters, 1990). Major structural events have also left their imprint on the region and are detailed elsewhere. The principal structural features of the NTS are a series of high-angle, southward-trending, listric-normal faults.

The oldest rocks at the NTS are quartzite, sandstone, and siltstone of Proterozoic to Lower Cambrian (Paleozoic) age which are about 2,800 m (7,500 ft) thick. They are overlain by a sequence of predominantly carbonate rocks belonging to the middle Cambrian- to Mississippian-age rock of about 5,200 m (15,600 ft) thick. The Devonian and Mississippian rocks grade northward and westward into a sequence of argillite, siltstone, and sparse quartzite and conglomerate about 800 m (2,350 ft) thick formed by the erosion of the highlands that rose west of the area in late Paleozoic time. During the Tertiary period, the Proterozoic and Paleozoic rocks at the northern and western parts of the NTS were covered by voluminous eruptions of silicic ash-flow and ash-fall tuffs from several caldera complexes of the southwestern Nevada volcanic field. Intermontane valleys within and near the NTS may contain as much as 600 m (200 ft) of Miocene and Holocene alluvium. The relation of these rocks to the hydrogeologic units are given in the tables.

SUMMARY

This document is a compilation of the available references that describe the geology, hydrogeology, and hydrology of the NTS and has been indexed to present subjects of interest to the readers and users. For those unfamiliar with the physical setting of the NTS, a brief description, tables and illustrations were given of its geology, hydrogeology, and hydrology. This is accomplished through illustrations and some text taken from other reports, particularly Laczniaik *et al.* (1996) and a "Field Trip to the Nevada Test Site, Yucca Mountain, Ash Meadows National Wildlife Refuge and Devils Hole National Monument," unpublished manuscript by the U.S. Department of Energy/Nevada Operations Office, Yucca Mountain Site Characterization Office, and the Lawrence Livermore National Laboratory, April 22, 1995.

It is hoped that this bibliography will be a useful starting point for those interested in the scientific literature accumulated over the past 45 years of work by many individuals and agencies that have published on these subjects concerning the NTS and vicinity.

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