6 WORKS CITED

48 Federal Register (FR) Notice, 1983. p. 43972-43973. 26 September.

- Anderson, M.P and W. Woessner, 1992. Applied Groundwater Modeling Simulation of Flow and Advective Transport. San Diego: Academic Press, Inc.
- Brown, J.G., and J.H. Eychaner, 1988. Simulation of Five Ground-Water Withdraw Projections for the Black Mesa Area, Navajo and Hopi Indian Reservations, Arizona. U.S. Geological Survey Water-Resources Investigations 88-4000, 51 p.
- Campbell, M.D., and J.H. Lehr. 1974. Water Well Technology. McGraw-Hill Book Company, Third Printing.
- Freeze, R.A., and J.A. Cherry, 1979. Groundwater. Prentice-Hall, Englewood Cliffs, New Jersey, 604 p.
- GeoTrans Inc., 1992. A Comprehensive Field Study and Model of the Surface-Water Flow Characteristics and Interactions with Groundwater and Alluvial Sediments in Coal Mine, Yucca Flat, and Moenkopi Washes, Black Mesa Complex, Arizona. Prepared by GeoTrans Inc., Boulder, Colorado, for PWCC. August.
- GeoTrans Inc., 1993. Investigation of the D- and N aquifer geochemistry and flow characteristics using major ion and isotopic chemistry, petrology, rock stress analyses, and dendrochronology, Black Mesa area, Arizona. Boulder, Colorado.
- Hopi Tribe, 2006. Home Page. Hopi Tribe Culture, Farming: The Importance of Farming to the Hopi Tribe. 14 June, <<u>http://www.hopi.nsn.us/farming.asp</u>>.
- Hopi Tribe, 2008. Hopi Tribe Water Resources Program, Water Quality Standards. Kykotsmovi, Arizona. Revised November 2010.
- Kelly, J.H., 1992. Peabody Coal Co. v. Office of Surface Mining Reclamation and Enforcement. Interior Board of Land Appeals. IBLA 92-286. June 5.
- Macy, J.P., and Brown, C.R., 2011. Groundwater, surface-water, and water-chemistry data, Black Mesa area, northeastern Arizona, 2009-2010: United States Geological Survey Open-File Report 2011-1198.
- Navajo Nation Environmental Protection Agency (NNEPA), 2007. Navajo Nation Surface Water Quality Standards 2007, NNEPA Water Quality Program. Window Rock, Arizona. Passed by Navajo Nation Resources Committee on May 13, 2008.
- NNEPA, 2008. Guidance for Assessing the Quality of Navajo Nation Surface Waters to Determine Impairment (Integrated 305(b) Reporting and 303(d) Listing. NNEPA Water Quality Program, Window Rock, Arizona. 20 February.
- Office of Surface Mining Reclamation and Enforcement (OSMRE), 1989. Cumulative Hydrologic Impact Assessment (CHIA) for Peabody Western Coal Company Black Mesa / Kayenta Mine Complex. Western Region Operations; Denver, CO.
- OSMRE, 1990. Final Environmental Impact Statement for Peabody Coal Company's Black Mesa-Kayenta Mine. OSMRE, Western Region Operations; OSM-EIS-25, 17 May.

- OSMRE, 2002. Permitting Hydrology, A Technical Reference Document for Determination of Probable Hydrologic Consequences (PHC) and Cumulative Hydrologic Impact Assessments (CHIA) – Baseline Data. Office of Surface Mining, Department of Interior, Washington D.C.
- OSMRE, 2004. The Office of Surface Mining's Report of Investigation of Land Subsidence Features, Black Mesa, Arizona. Western Region Operations; Denver, CO. February.
- OSMRE, 2007. Hydrologic Considerations for Permitting and Liability Release: Probable Hydrologic Consequences (PHC) Determination, Hydrologic Reclamation Plan (HRP), Cumulative Hydrologic Impact Assessment (CHIA), Postmining Hydrologic Assessment (PHA). OSMRE, Mid-Continent Region Operations; Alton, IL.
- OSMRE, 2008. Cumulative Hydrologic Impact Assessment of the Peabody Western Coal Company Black Mesa Complex. OSMRE, Western Region Operations; Denver, CO. December.
- OSMRE, 2009. OSMRE Hydrologist Paul Clark site visit to Moenkopi Wash and Dinnebito Wash confluence. Western Region Operations; Denver, CO. 18 November.
- OSMRE, 2011a. Dinnebito Dam site visit. OSMRE hydrologist Paul Clark. Western Region Operations; Denver, CO. 20 October.
- OSMRE, 2011b. Personal communication between OSMRE Hydrologist Paul Clark and Hopi Water Resources Program Hydrologist Jim Duffield. 17 October.
- OSMRE, 2011c. Draft Environmental Assessment for Peabody Western Coal Company's Kayenta Mine Permit (AZ-001D) Renewal. Western Region Operations; Denver, CO. December.
- Peabody Western Coal Company (PWCC), 1987. "Peabody Signs New Coal Leases with Hopi, Navajo Tribes". Press Release. Flagstaff, Arizona. 18 December.
- PWCC, 1992. 1991 Annual Reclamation Status Report, Volume 3, Chapter 22. Submitted OSMRE Western Region Operations; Denver, CO. 19 June.
- PWCC, 1999. A Three-Dimensional Flow Model of the D and N Aquifers, Black Mesa Basin, Arizona. V. I, II, and III. Prepared jointly by HSI GeoTrans and Waterstone for PWCC. Submitted to OSMRE Western Region Operations September, 1999.
- PWCC, 2001. Proposed Permit Revision to Chapter 16, Hydrologic Monitoring Program. Submitted to Western Region Operations; Denver, CO. Proposed revision approved by OSM 7-11-01. 5 March.
- PWCC, 2005. A Three-Dimensional Flow Model of the D and N Aquifers, Black Mesa Basin, Arizona. Supplement 1. Prepared by GeoTrans, Inc. for PWCC. Submitted to OSMRE Western Region Opeations; Denver, CO August 1, 2005 ARMS# 05-08-05-04. July.
- PWCC, 2011. Permit Application Package (PAP) for Federal Permits AZ-0001 (Black Mesa Mine) and AZ-0002 (Kayenta Mine), Volumes 1-28, Office of Surface Mining Reclamation and Enforcement, Western Region Mine Plan Reference Center, Denver, Colorado. Note: Technical updates to the PAP are ongoing. Since the permit is complete and up to date at the distribution of this CHIA, 2011 is used as the reference year; however, the original permits were submitted in 1985.

- PWCC, 2011b. 2010 Kayenta Complex Annual Reclamation Status Report. Submitted to OSMRE Western Region Operations; Denver, CO. May 13, 2011 ARMS# 11-05-16-17.
- Rampton, J.R., 1991. Peabody Coal Company, Petitioner v. Office of Surface Mining Reclamation and Enforcement, Respondent; The Hopi Tribe, Maxine Kescoli, and The Navajo Nation, Interveners. Docket No. TU 90-2-PR - Decision. October 24.
- Repenning, C.A. and Page, H.C., 1956. Late Cretaceous Stratigraphy of Black Mesa, Navajo and Hopi Indian Reservations. American Association of Petroleum Geologists Bulletin, Volume 40, No. 2, pp 225-294.
- Stetson, T.M., 1966. Feasibility of obtaining a ground water supply from Black Mesa, Arizona. Los Angeles, California. Thomas M. Stetson Civil and Consulting Engineers.
- Sentry Royalty Company, 1964. Navajo Reservation Land Lease Numbers 14-20-0603-8580 and 14-20-0603-9910, 1 February.
- Thomas, B.E., 2002. Ground-water, surface-water, and water-chemistry data, Black Mesa area, northeastern Arizona—2000-2001, and performance and sensitivity of the 1988 USGS numerical model of the N aquifer. U.S. Geological Survey Water-Resources Investigations Report 02-4211, 75 p.
- Truini, M., and Longsworth, S.A., 2003. Hydrogeology of the D Aquifer and Movement and Ages of Ground Water Determined from Geochemical and Isotopic Analysis, Black Mesa Area, Northeastern Arizona: U.S. Geological Survey Water-Resources Investigations Report 03-4189, 38 p.
- Truini, M., and Macy, J.P., 2006. Lithology and Thickness of the Carmel Formation as Related to Leakage Between the D and N Aquifers, Black Mesa, Arizona: U.S. Geological Survey Scientific Investigations Report 2005-5187, 7 p.
- U.S. Congress, 1977. Surface Mining Control and Reclamation Act. Public Law 95-87. Branch of State Programs, Division of Regulatory Programs, Washington D.C. 3 August.
- United States Geological Survey (USGS), 1987. Hydrologic Unit Maps, Water-Supply Paper 2294. First Printing 1987. Second Printing 1994. 66p.
- USGS, 2011. National Water Information System. Real-Time Data for the Nation. Arizona. N aquifer monitrong wells BMOB-1, BMOB-2, BMOB-3, BMOB-4, BMOB-5, BMOB-6. <u>http://waterdata.usgs.gov/nwis/current/?type=gw</u>