

From: Linda Graham [Linda.Graham@bbklaw.com]
Sent: Monday, September 27, 2010 5:42 PM
To: ILRP Comments
Cc: 'Joe Karkoski (jkarkoski@waterboards.ca.gov)'; 'khart@waterboards.ca.gov'
Subject: Attachment to SSJVWQC Comments to DPEIR
Attachments: 20100927165801545.pdf; Day Schaap Sloan Resumes.pdf

Ms. Smith,

Attached please find the CVs of the experts which were attached to the Southern San Joaquin submittal.

Thank you,
Linda Graham

*Linda Graham, Legal Secretary to
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KENNETH D. SCHMIDT AND ASSOCIATES
GROUNDWATER QUALITY CONSULTANTS

PROFESSIONAL EXPERIENCE
KENNETH D. SCHMIDT
JANUARY 2007

BIRTHPLACE AND DATE

Madera, California on November 8, 1942

DEGREES

B.S. Geology, Fresno State College, Fresno, California (1964)
M.S. Hydrology, University of Arizona, Tucson, Arizona (1969)
Ph.D. Hydrology, University of Arizona, Tucson, Arizona (1971)

REGISTRATION AND CERTIFICATION

Geologist No. 1578 in California (1970)
Geologist No. 23685 in Arizona (1989)
Geologist No. G462 in Oregon (1978)
Hydrogeologist No. 176 in California (1995)

SOCIETY MEMBERSHIP

American Water Resources Association (1972)
American Water Works Association (1970) (Life Member)
California Groundwater Resources Association (1996)
Geologist Society of America (2006)
Water Pollution Control Federation (1972)

PROFESSIONAL EXPERIENCE

June 1972 to Present: Principal, Kenneth D. Schmidt and Associates, Groundwater Quality Consultants, Fresno, California.

January 1969 to May 1972: Hydrologist, Harshbarger & Associates, Consultants in Hydrogeology, Tucson, Arizona.

December 1964 to February 1967: Engineering Geologist, Bookman-Edmonston Engineering, Inc., Arvin, California.

As an engineering geologist with Bookman-Edmonston Engineering, Inc. in Arvin from 1964-67, Schmidt's primary duties included hydrogeologic studies associated with the development and operation of two large-scale recharge and groundwater recovery facilities southeast of Bakersfield, California. This experience included the basic aspects of groundwater studies, including preparing a well inventory, water-level measurements, aquifer testing, logging drill cuttings, interpreting geophysical logs, observing well drilling and construction, collecting water samples for chemi-

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cal analyses from hundreds of water supply wells, and data interpretation. He conducted specific studies of land surface subsidence due to groundwater overdrafting and of the occurrence of high boron contents in groundwater northeast of Arvin. Schmidt subsequently completed a Master's thesis (in the hydrology program at the University of Arizona) in 1969 on the boron problem in the Arvin area.

As a hydrologist with Harshbarger & Associates in Tucson from 1969-72, an investigation was conducted on groundwater conditions and potential groundwater development for the City of Fresno. Schmidt's interest in the presence of high nitrate contents in groundwater of the Fresno urban area resulted in the subsequent completion of a Ph.D. dissertation in 1971 (also at the University of Arizona) on that topic. Since that time, he has participated in four master plan updates for the Fresno Metro area and a comprehensive nitrate evaluation for the City of Fresno in 2006.

As the principal of his own consulting firm since 1972, Schmidt has conducted and supervised thousands of hydrogeologic investigations in the southwest, primarily in Central California. In the early 1970's, he participated in development of the Tulare Lake Basin (south part of the San Joaquin Valley) water quality basin plan. As part of this project, he developed salt budgets for sub-basins, and evaluated the distribution of chemical constituents such as nitrate and boron in groundwater, and the impacts of irrigation and waste disposal facilities on groundwater quality. In the mid-1970's, Schmidt worked on development of some of the first national guidelines for groundwater quality monitoring.

By the late 1970's, Schmidt began to design, develop, and implement some of the earliest groundwater quality monitoring programs at specific sites in California. His involvement with a number of these has continued through to the present. Although a full-time consultant, he has conducted dozens of University of California extension classes and short courses since the late 1970's, on groundwater hydraulics, groundwater quality and contamination, and monitoring. Since 1973, he has periodically taught hydrogeology classes at California State University, Fresno.

In 1980, Schmidt began working on a number of projects to develop new public-supply wells in water quality problem areas. Included have been hundreds of such wells in high salinity, nitrate, sulfate, arsenic, fluoride, iron, manganese, hydrogen sulfide, color, DBCP, EDB, and uranium areas of the San Joaquin Valley. His work in this regard for dozens of cities, water utilities, and schools has continued through to the present.

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From 1985 to 1988, he was a member of the National Academy of Sciences Committee on Irrigation-Induced Water Quality Problems. The committee work focused on agricultural drainage problems, including the San Joaquin Valley. For a number of years following the inception of the U.S. Geological Survey National Water Quality Assessment Program in the mid-1980's, Schmidt was a member of a national advisory committee for that program. In 1987, he was named the Chairman of the Groundwater Sub-Committee of the Technical Advisory Committee for the San Joaquin Valley Agricultural Drainage Program. From 1992-98, Schmidt was a member of the Industrial Advisory Council in the College of Engineering at the University of Arizona. From 1993-2003 he was a member of the Department Advisory Committee that evaluated the hydrology program at the University of Arizona.

Since the mid-1990's, the firm has been a leader in groundwater resource evaluations in Central California. The firm has been involved with several large-scale recharge and water banking projects, including: the Arvin-Edison Water Storage District in Kern County, the Semitropic Water Banking Project in the Shafter-Wasco area, and the Kern Fan Water Banking Project west of Bakersfield. The firm has worked on numerous other groundwater recharge evaluations, including selections and evaluation of areas favorable for recharge, exploration, and monitoring of existing facilities. The firm has completed detailed groundwater evaluations for development of Water Management Plans in the Cities of Fresno, Tulare, Clovis, Madera, Livingston, and Dinuba. The firm has participated in numerous groundwater management plans. Ken Schmidt has also provided expert witness services for numerous litigation cases involving groundwater in the San Joaquin Valley. In recent years, the firm has conducted detailed groundwater studies associated with EIRs for numerous gravel mines in Tulare, Fresno, Madera, and Merced Counties. The firm provides consulting services to develop new water supply wells to over two dozen cities, towns, and private water companies in the San Joaquin Valley. During the 2000's, the firm designed and implemented enhanced groundwater monitoring programs at dozens of sites, including municipal WWTF, food processing sites, and dairies.

SELECTED CLIENTELE

Cities and Towns

Atwater, Public Works Department.
Bakersfield, Wastewater Division.
Cambria Community Services District.
Clovis, Public Works Department.

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Corcoran, Public Works Department.
Delano, Water Division and Wastewater Division.
Dinuba, Public Works Department.
East Oroquieta.
Exeter, Water Division and Wastewater Division.
Fresno, Public Works Department, Water Division, and Wastewater
Division.
Gustine.
Hanford, Public Works Department.
Kerman, Public Works Department.
Lemoore.
Los Banos.
Lindsay, Public Works Department.
Madera, Public Works Department.
Mammoth CWD (Mammoth Lakes).
McFarland.
Mendota, Public Works Department.
Modesto, Public Works Department.
Newman.
Patterson.
Porterville.
Reedley, Public Works Department.
Sanger, Public Works Department.
San Joaquin, Water Department.
Santa Clara, Department of Public Works.
Sultana.
Tulare, Public Works Department.
Turlock, Public Works Department.
Wasco, Wastewater Division.
West Kern WD (Taft).
Woodlake.

Counties

County of Fresno, Departments of Public Works, Planning, and
Environmental Health.
County of Madera, Department of Public Works.
County of Merced.
County of Sierra.
County of Tulare, Department of Public Works.

Engineering Firms

Blair, Church, and Flynn, Clovis.
Boyle Engineering Corporation, Fresno and Bakersfield.
Carollo Engineers, Fresno, Sacramento, and Bakersfield.
Dee Jaspar and Associates, Bakersfield.

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Provost & Pritchard Engineering Group, Fresno.
Quad Knopf, Fresno, Visalia, and Bakersfield.
Stantec, Sacramento.
Stoddard and Associates, Los Banos
Yamabe and Horn Engineering, Fresno.

Farming Entities

Britz Farms, Five Points.
Five Points Ranch, Five Points.
Harris Ranch, Coalinga.
Kaweah-St. Johns Farmers League.
Newland Land Co., New Columbia Ranch, Firebaugh.
O'Neill Farming Enterprises, Five Points.
Paramount Farms, Cawelo.
R and G, Lerdo.
Red Rock Ranch, Five Points.
Starrh Farms, Shafter.
Sun World, Bakersfield.

Industries

California Portland Cement Co., Mojave and Colton.
CIBA GEIGY, Sanger.
Dole Fruit & Nut Co., Fresno.
Food Machinery Corporation, San Jose.
The Garlic Company, Lerdo.
Guardian Glass Plant, Kingsburg.
GWF Power Systems, Inc., Hanford and Kingsburg.
Holly Sugar Co., Tracy and Imperial.
Ingomar Packing Co., Los Banos.
Kenetech Alternative Power Systems, Kingsburg.
Pacific Ethanol, Madera.
Rogers Helicopters, Inc., Clovis.
Sperry New Holland, Fowler.
Spreckels Sugar Company, Manteca, Mendota, Salinas, and Woodland.
Sun-Maid Growers of California, Kingsburg.
Thermo-Electron Energy Systems, Mendota.
Ultra Power, Inc., Kern County.
Valley Perforating Co., Bakersfield.

Irrigation Districts

Angiola Water District, Corcoran.
Arvin-Edison WSD, Arvin.
Buena Vista Water Storage District, Buttonwillow.
Central California Irrigation District, Los Banos.

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Columbia Canal Company, Firebaugh.
Eastside Water District, Stanislaus County.
Friant Water Users.
James Irrigation District, San Joaquin.
Kern Delta WD, Greenfield.
North Kern Water Storage District, Cawelo.
Panoche Drainage District.
San Joaquin River Exchange Contractors Authority, Los Banos.
Semitropic Water Storage District, Wasco.

Mining Companies

Artesia Ready Mix, Lemoncove.
Calavaras Materials, Fresno and Merced.
CalMat Co., Centerville.
Madera Sand & Rock, Madera.
Sonora Mining Corporation, Jamestown.
Stewart & Nuss, Fresno.

Private Water Companies

Bakman Water Co., Fresno.
Cal Water Service, Selma and Bakersfield.
East Niles CSD, Bakersfield.
McFarland Mutual Water Co.
Oildale Mutual Water Co., Bakersfield.
Vaughn Water Co., Bakersfield.
West Kern Water District, Taft.

Special Districts

Monterey County Flood Control and Water Conservation
District, Salinas.
Monterey Peninsula Water Management District, Monterey.
Selma-Kingsburg-Fowler County Sanitation District, Kingsburg.
Sierra Valley Groundwater Management District, Loyalton.

Publications

"The Use of Chemical Hydrographs in Groundwater Quality Studies,"
in Hydrology and Water Resources in Arizona and the Southwest, vol.
1, Arizona Section AWRA, pp 211-223, 1971.
"Nitrate in Groundwater of the Fresno-Clovis Metropolitan Area,
California," Ground Water, vol, 10, No. 1, pp 50-64, 1972.
"Groundwater Contamination in the Cortaro Area, Pima County,

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Arizona," in Hydrology and Water Resources in Arizona and the Southwest, vol. 2, Arizona Section AWRA, pp 95-111, 1972.

"Groundwater Quality in the Cortaro Area Northwest of Tucson, Arizona," Water Resources Bulletin, vol. 9, No. 3, pp 598-606, 1973.

"Nitrates and Groundwater Management in the Fresno Urban Area," Journal AWWA, vol. 66, No. 3, pp 146-148, 1974.

"Regional Sewering and Groundwater Quality in the Southern San Joaquin Valley," Water Resources Bulletin, vol. 11, No. 3, pp 514-525, 1975.

"Salt Balance in Groundwater of the Tulare Lake Basin, California," in Hydrology and Water Resources in Arizona and the Southwest, vol. 5, Arizona Section AWRA, pp 177-184, 1975.

"Monitoring Groundwater Pollution," Proceedings of the International Conference on Environmental Sensing and Assessment, Groundwater Section, sponsored by EPA, WHO, and University of Nevada, Las Vegas, Nevada, September 1975, The Institute of Electrical and Electronics Engineers, Inc., vol. 1, session 9, No. 4, pp 1-6, 1976.

"Academic Training for Groundwater Quality Specialists," in Hydrology and Water Resources in Arizona and the Southwest, vol. 6, Arizona Section AWRA, pp 119-123, 1976.

"Monitoring Groundwater Quality: Methods and Costs," U.S. Environmental Protection Agency, Environmental Monitoring Series, Report EPA-600/4-76-023, with L.G. Everett, 1976.

"Monitoring Groundwater Quality: Monitoring Methodology," U.S. Environmental Protection Agency, Environmental Monitoring Series, Report EPA 600/4-76-026, with D.K. Todd, R.M. Tinlin, and L.G. Everett, 1976.

"Monitoring Groundwater Quality: Illustrative Examples," U.S. Environmental Protection Agency, Environmental Monitoring Series, Report EPA 600/4-76-036, with R.M. Tinlin, 1976.

"A Groundwater Quality Monitoring Methodology," Journal AWWA, vol. 68, No. 11, pp 586-593, with D.K. Todd, R.M. Tinlin, and L.G. Everett, 1976.

"Water Quality Variations for Pumping Wells," Ground Water, vol.

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15, No. 2, pp 130-137, 1977.

"Protection of Groundwater from Nonpoint Sources of Pollution," Proceedings of Symposium on Drinking Water Quality Enhancement through Source Protection, American Chemical Society, Division of Environmental Chemistry, New Orleans, Louisiana, March 20-25, 1977, Ann Arbor Science Publishers, Inc., pp 257-273, 1977.

"Impact of Land Treatment of Wastewater on Groundwater," Proceedings of National Conference on Environmental Engineering, Kansas City, Missouri, July 10-12, 1978, University of Missouri-Columbia, pp 118-125, 1978.

"The 208 Planning Approach to Groundwater Protection - What is Wrong and What Can be Done About It?," Ground Water, vol. 17, No. 2, pp 148-153, 1979.

"Monitoring Perched Ground Water in the Vadose Zone," in Proceedings of the Symposium on Establishment of Water Quality Monitoring Programs, American Water Resources Association, Minneapolis, Minnesota, pp 134-149, with L.G. Wilson, 1979.

"Groundwater Quality Impact Determined from well Sampling," Arizona Department of Water Resources, Report No. 1, Proceedings of Deep Percolation Symposium, Scottsdale, Arizona, April 24-25, 1980, pp 74-84.

"Brine Pollution at Fresno - Twenty Six Years Later," Ground Water, vol. 19, No. 1, pp 12-19, with J.A. Krancher and G. Bisel, 1981.

"Hydrogeology of the Sierra Nevada Foothill Lineament Near Oakhurst, California," Ground Water, vol. 19, No. 2, pp 149-155 with S. Mack, 1981.

"Persistence of Brine Pollution in Fresno, California Aquifer," Journal Environmental Health, vol. 43, No. 6, pp 314-318, with J.A. Krancher, C.R. Auernheimer, and G. Bisel, 1981.

"Monitoring Groundwater Quality at State Permitted Sites in California," Proceedings of the Thirteenth Biennial Conference on Groundwater, Irvine, California, September 14-15, 1981, California Water Resources Center Report No. 53, pp 87-91, 1981.

"How Representative are Water Samples Collected from Wells?," Proceedings of the Second National Symposium on Aquifer Restoration and Groundwater Monitoring, Columbus, Ohio, May 1982, Water Well Journal Publishing Company, Worthington, Ohio, pp 117-128.

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"The Occurrence of Trace Organic Chemical Constituents in Groundwater of the Salt River Valley," Proceedings of the Deep Percolation Symposium, Scottsdale, Arizona, October 1982, Arizona Department of Water Resources Report No. 4, pp 48-58.

"Limitations in Implementing Aquifer Reclamation Schemes," Proceedings of the Third National Symposium on Aquifer Restoration and Ground Water Monitoring, Columbus, Ohio, May 1983, Water Well Journal Publishing Company, Worthington, Ohio, pp 105-110.

"Groundwater Quality Studies in California," Proceedings of the ASCE Irrigation and Drainage Division Specialty Conference, Jackson, Wyoming July 1983, American Society of Civil Engineers, pp 183-191.

"Management of Groundwater Quality Beneath Irrigated Arid Lands," Proceedings of the Western Regional Conference on Groundwater Management, San Diego, California, October 1983, Water Well Journal Publishing Company, Worthington, Ohio, pp 77-84.

"Developing Groundwater Quality Monitoring Networks in California," Proceedings of the 15th Biennial Groundwater Conference, San Diego, September 23-25, 1985, University of California, Davis, pp 47-51.

"Proceedings of Symposium on Groundwater Contamination and Reclamation," Edited by K.D. Schmidt, American Water Resources Association, Tucson, Arizona, August 14-15, 1985.

"Are Humid Area Monitoring Concepts Applicable to Arid Lands?," Proceedings of Sixth National Symposium and Exposition on Aquifer Restoration and Groundwater Monitoring, May 19-22, 1986, Columbus, Ohio, pp 41-49.

"Hydrologic Aspects of Subsurface Drainage", Proceedings of the 1986 Regional Meetings, U.S. Committee on Irrigation and Drainage, July 30-August 1, 1986, Fresno, Calif., pp 55-64.

"Monitoring Groundwater Quality in the Southwest", American Society of Civil Engineers, Proceedings of Water Forum '86, World Issues in Evolution, August 4-6, 1986, Long Beach, Calif., 6 p.

"DBCP in Groundwater of the Fresno-Dinuba Area, California", National Water Well Association, Proceedings of the Agricultural Impacts on Groundwater Conference, August 11-13, 1986, Omaha, Nebraska, pp 511-529.

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"Monitor Well Drilling and Sampling in Alluvial Basins in Arid Lands", National Water Well Association, Proceedings of the FOCUS Conference on Southwestern Groundwater Issues, October 20-22, 1986, Tempe, Arizona, pp 443-455.

"Effect of Irrigation on Groundwater Quality in the Southwest", Proceedings of the 1986 Regional Meetings, U.S. Committee on Irrigation and Drainage, October 22-24, 1986, Mesa, Arizona, pp 273-290.

"Effect of Irrigation on Groundwater Quality in California", with I. Sherman, Journal of Irrigation and Drainage Engineering, ASCE, Vol 113, No. 1, 1987, pp 16-29.

"Development of Public-Supply Wells in the Salt River Valley", in Proceedings of the Arizona Hydrological Society 1st Annual Symposium, Phoenix, Arizona, September 1988, pp 131-151.

"Contaminant Hydrology Associated with River Recharge of Sewage Effluent", with D.M. Esposito and D.G. Eaker, in Proceedings of Fourth Symposium on Artificial Recharge of Groundwater in Arizona, Tempe, Arizona, May 23-23, 1989, pp 1-20.

"Developing Integrated Management Strategies for Groundwater Production, Recharge, and Protection in the Salt River Valley", in Proceedings of the Arizona Hydrological Society 2nd Annual Symposium, Casa Grande, Arizona, September 1989.

"Problems with Groundwater Remediation Projects in the Southwest", Proceedings of the Arizona Hydrologic Society 4th Annual Symposium, Casa Grande, Arizona, September 12-13, 1991, pp 3-9.

"Hydrologic Factors Affecting Mobility of Trace Inorganic Constituents", Journal of Irrigation and Drainage Engineering, ASCE, vol. 119, No. 3, 1993, pp 600-612.

"Results of Twelve Years of Groundwater Monitoring at the SKFCSD Facility in Central California", with D. Michel, Proceedings of the Symposium on Effluent Use Management, American Water Resources Association, Tucson, Arizona, August 29-September 2, 1993, pp 203-212.

"Monitoring Perched Water in Arid Lands", in Handbook of Vadose Zone Characterization and Monitoring, edited by L.G. Wilson, L.G. Everett, and S.J. Cullen, Lewis Publishers, 1995 pp 639-655.

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"Groundwater Monitoring Associated with Water Transfer and Banking Projects", Proceedings of the Symposium on Conjunctive Use of Water Resources: Aquifer Storage and Recovery, American Water Resources Association, Long Beach, California, October 19-23, 1997, pp _____.