APPENDIX G
QUALIFICATIONS OF THE ENVIRONMENTAL PROFESSIONALS

Geosyntec consultants

VERYL WITTIG, PG, CHG
Associate

Environmental Site Assessments
Hazardous Materials Site Investigations
Hydrogeologic Field Investigations
Contaminated Site Mitigation/Remediation
Hazardous Materials Management
Project Management

EDUCATION

San Diego State University, B.S., Geological Sciences (Hydrogeology), December 1991

PROFESSIONAL REGISTRATION

California Professional Geologist No. 7115
California Certified Hydrogeologist No. 723

CAREER SUMMARY

Mr. Wittig has more than 17 years of experience in planning, conducting and managing multi-disciplinary projects involving environmental site assessments, contaminant investigations, hazardous materials mitigation (including metals, solvents, petroleum hydrocarbons, pesticides, and asbestos), risk assessment, and remedial engineering components for a variety of private and public sector clients. Mr. Wittig possesses a diverse background in the geological and environmental sciences and is skilled in the practical application of these sciences to multi-disciplinary projects pertaining to water quality evaluations and environmental assessments.

PROFESSIONAL HISTORY

Geosyntec Consultants, San Diego, California
Senior Hydrogeologist- November 2002 to Associate Hydrogeologist-Present
URS Corporation (formerly Woodward-Clyde Consultants), San Diego, California
Staff Hydrogeologist- January 1992 to Senior Project Hydrogeologist- October 2002
Applied Geosciences, San Diego, California
Geology Intern, September 1991 - December 1991
Nachant Environmental, San Diego, California
Geology Intern, June 1990 - September 1991

Due Diligence Services

Phase I Environmental Site Assessments

Mr. Wittig has conducted and/or managed more than 150 Phase I ESAs throughout California, Arizona, Nevada, between 1992 and the present in accordance with ASTM standards to evaluate the presence of "recognized environmental conditions" associated with the subject

properties. The Phase I ESAs have involved a variety of property usages including existing and potential school sites, commercial/retail, manufacturing, agricultural, and office/light industrial. Several of these projects involved linear features such as pipeline or rail corridors, multiple sites and/or very large acreages. The range of properties assessed includes the following:

- Electricity generating and transmission facilities
- Auto and truck dealerships, service, and maintenance
- Petroleum exploration, bulk distribution, and pipelines
- Industrial manufacturing facilities
- Pesticide manufacturing and distribution
- Aviation and aerospace manufacturing
- Concrete and asphalt production and distribution
- Agricultural activities, livestock, and dairy farming
- Explosives manufacturing
- Apparel manufacturing
- Commercial wholesale and retail activities
- Rail and transit facilities
- Biosolids processing and composting
- Mining
- Plating shops
- Salvage yards
- Dry cleaners
- Service stations
- Schools
- Residential property
- Vacant property

Based on the results of Phase I ESAs, numerous Phase II site characterizations have been performed to assess potential impacts resulting from historical activities. Activities conducted include surface geophysical surveys; asbestos surveys; soil, soil vapor, and groundwater assessments; surface water assessments; human health risk assessments; engineering feasibility studies; developing estimated site cleanup costs; developing cleanup goals based on the current and/or future intended site usage; and regulatory support and coordination.

A sampling of specific projects highlighting Mr. Wittig's Environmental Assessment and Project Management experience includes:

Confidential Home Improvement Retailer - 25 site portfolio, California, Arizona, Nevada, New Mexico, Texas, Illinois, Kentucky, Ohio. As the project Director Mr. coordinated a staff of 10 professionals and two subcontractors during the performance of 25 Phase I ESAs for sites located in 8 different states. Mr. Wittig identified key staff and assembled a team of highly

qualified professionals from five separate branches. The work performed by Geosyntec was performed on an expedited basis and included the review of voluminous historical database resources, aerial photographs, topographic and fire insurance maps, and report preparations. Field reconnaissance and interviews were conducted confidentially. Mr. Wittig peer reviewed each draft and final documents in accordance with Geosyntec's peer review policies, prior to uploading the to a private and confidential FTP site to facilitate the client's review of the 25 independent Phase I ESA reports.

Confidential Home Improvement Retailer, Phase I and Phase II Environmental Site Assessments, Various Locations. Since 2003 Mr. Wittig has provided due diligence services comprising Phase I ESAs in accordance with current ASTM E 1527 Standard Practice for ESAs, Phase II site characterizations, and Phase II remediation and monitoring. The services are provided through outside counsel on a privileged and confidential basis.

Kinder Morgan Carson to Norwalk 13-mile Pipeline, Los Angeles County, CA. Mr. Wittig performed a Phase I ESA for a petroleum distribution pipeline route within an existing pipeline easement extending through a highly urbanized area with a long history of industrial and commercial activities. Based on the results of the ESA, identified areas along the route where impacted soil would likely be encountered, and developed a Soil Management Plan which was reviewed and approved by DTSC. During construction, Mr. Wittig managed EIR Mitigation Measures pertaining to environmental assessments, construction dewatering, and hazardous materials, during the planning and construction of the 13-mile petroleum pipeline. Participated in numerous meetings with DTSC related to environmental monitoring and community health and safety during pipeline construction, the RWQCB for groundwater dewatering discharge for river crossing sites, and numerous other municipal agencies associated with the project.

Kinder Morgan Camp Pendleton 26-mile Pipeline Project, San Diego County. Mr. Wittig served as the Task manager for evaluation of known contaminated sites along the pipeline routes and their potential impacts on the project, evaluation of soil (physical and chemical) and groundwater conditions along the pipeline routes (many of which followed existing railroad right-of-ways), installation of groundwater monitoring wells, coordination with the San Diego and Los Angeles Regional Water Quality Control Boards in preparing and implementing construction dewatering NPDES discharge permit applications for pipeline crossings at creeks and rivers along the routes, coordinating hydrostatic test water discharges to surface water bodies in accordance with NPDES permitting requirements. Managed EIR Mitigation Measures pertaining to environmental assessments, construction dewatering, and hazardous materials, during the planning and construction of a 13-mile petroleum pipeline through a high-density mixed use area. Performance of these tasks involved close coordination of environmental investigations with the DTSC, RWQCB, and several local jurisdictions.

Phase I/Phase II Environmental Assessments, MTDB Light-Rail Extension, San Diego, CA. Performed a Phase I ESA to identify potential sources of contamination within a 1,000-foot-wide

corridor along a 3.2-mile-long railway right-of-way in downtown San Diego, and conducted a Phase II subsurface investigation along the length of the right-of-way and focused on a depressed section of the light-rail extension. Supervised the installation of monitoring wells, and assisted in preparing design specifications for a construction dewatering system for the depressed section. Provided environmental monitoring services during construction of the depressed section.

Otay Mesa Generating Project, San Diego, CA. As the Project Manager, performed a Phase I ESA to identify potential environmental liabilities associated with the property. After the property was acquired by PG&E (and later sold to Calpine), Mr. Wittig's responsibilities included coordination and liaison with dozens of contractors and local, State and Federal regulatory agencies, and tracking of environmental compliance tasks specified in the Commission Decision issued by the California Energy Commission. Environmental compliance tracking included biological, cultural and paleontological resources, air and water quality, noise, stormwater management and erosion control, and hazardous materials handling services related to construction and operation of a 510-MW natural-gas-fired power plant which started construction in 2001.

Due-Diligence Evaluation, Safety-Kleen Class I Landfill, Buttonwillow, CA. As the Project Manager, Mr. Wittig was coordinated a team of Engineers and Environmental Scientists in the due-diligence evaluation for a potential buyer of the active Class I disposal facility. Due diligence efforts included detailed evaluation of the landfill design, LCRS system, remaining airspace, history of regulatory violations, licenses and permits, waste-acceptance procedures, effectiveness of the groundwater monitoring network, annual and lifetime operation and maintenance costs, and pending legal actions by regulatory agencies and opponents of the landfill.

Phase I/Phase II Environmental Assessments, Nutrasweet/Kelco, San Diego, CA. Task manager for due-diligence Phase I ESA and Phase II field investigations to establish baseline environmental conditions for the manufacturing and laboratory facilities as part of a property transfer arrangement. Prepared workplans for regulatory approval, coordinated field investigations involving the advancement of more than 30 soil borings, geologic logging, monitoring well installation, hydrogeologic and tidal assessment, evaluation of field and laboratory data and preparation of final report.

Characterization of Residential Burned Debris, Cedar and Paradise Fires, San Diego County, CA. As the Project Manager, coordinated field sampling of 50 sites throughout San Diego County in residential areas destroyed by the October 2003 wild fires to demonstrate the need for additional Federal disaster relief funding. On an extremely accelerated schedule, compiled field and laboratory data and authored a detailed draft report for regulatory review less than three weeks after project inception. Regulatory agencies involved in the characterization include the DTSC, RWQCB, CIWMB, OES, and County of San Diego.

Geosyntec consultants

La Paloma Generating Project, Kern County California. As Project Geologist, reviewed numerous reports for the site to identify potential impacts from oil exploration activities, and developed a work plan to identify potential subsurface contamination which may be encountered during the construction of a 1.1 MW natural-gas fired electricity generating facility. Subsequently provided peer review for soil and groundwater-related sections of the Application for Certification (AFC).

Characterization of Residential Burned Debris, 2007 Wildfires, San Diego and San Bernardino Counties, CA. As the Project Manager, and on behalf of the DTSC, Mr. Wittig coordinated field sampling of 70 residential sites in San Diego County and San Bernardino County in areas destroyed by the October 2007 wildfires to demonstrate that burn debris and ash resulting from the 2007 Southern California Wildfires poses an immediate threat to public health and safety. A Sampling and Analysis Plan was prepared and distributed to the USEPA, DTSC, California OEHHA, California OES, San Bernardino and San Diego Counties, and the City of San Diego. On an extremely accelerated schedule, compiled field and laboratory data and authored a detailed draft report for regulatory review three weeks after project inception. The results of the assessment demonstrated that burn debris and ash in residential areas affected by the 2007 Southern California wildfires posed an immediate threat to public health and safety, and that expedited removal of burn debris from these areas is warranted and in the "public interest." The report was subsequently distributed to the DTSC, Counties of San Diego and San Bernardino, and City of San Diego to support their claims for reimbursement for the removal of burn debris from private property in the public interest under the Public Assistance Program (44 CFR 206.224).

Routine and Non-Routine Groundwater Services, San Diego County Inactive Landfills. Mr. Wittig serves as the Technical Director and Senior Peer Reviewer for routine and non-routine groundwater services for thirteen inactive solid waste facilities managed by the County of San Diego. Responsibilities include peer-reviewing semi-annual and annual reports, ensuring compliance with Waste Discharge Requirements (WDRs), Monitoring and Reporting Programs (MRPs), and Cleanup and Abatement Orders (CAOs); ensuring quality assurance/control. Annually, 40 to 50 reports are prepared and reviewed by Mr. Wittig prior to submittal to the RWQCB and/or LEA.

Geosyntec
consultants

SAM WILLIAMS, R.G., C.HG., C.E.M.
Principal Hydrogeologist

due diligence investigations
litigation support
risk-based corrective action
fate and transport analyses
MTBE assessment and remediation
hydrogeologic investigations

EDUCATION

San Diego State University, San Diego: MS, Geological Sciences(Hydrogeology), 1986
San Diego State University, San Diego: BS, Geological Sciences(Geophysics), 1982

PROFESSIONAL REGISTRATION

Professional Geologist, California, No. 4858
Certified Hydrogeologist, California, No. 192
Registered Environmental Assessor II, California, No. 20177
Certified Environmental Manager, Nevada, No. 1022

PROFESSIONAL HISTORY

Geosyntec Consultants, San Diego, California; Principal Hydrogeologist/Operations Manager 1998-Present
Alton Geoscience, San Diego, California, Vice President, Technical Operations; Principal Hydrogeologist; Manager, San Diego Operations, 1995-1998
Cubic Environmental Technologies, Inc., San Diego, California, Principal Hydrogeologist, 1994-1995
Hargis & Associates, Inc., La Jolla, California, Hydrogeology Manager, Senior Project Manager; Project Manager; Hydrogeologist, 1985-1994
University of California at San Diego, Instructor, Hazardous Materials Management Certificate Program, 1991-1999
San Diego State University, San Diego, California, Physics Tutor, 1981-1984
Chaffey College, Rancho Cucamonga, California, Geology Teaching/Lab Assistant, 1978-1980

SAM WILLIAMS, P.G., C.HG., C.E.M. *San Diego, California*

SUMMARY OF EXPERIENCE

Professional experience in hydrogeology and geophysics since 1978. Current professional responsibilities include supervision of hydrogeologists and engineers in the performance of environmental site assessments (ESAs) of commercial and industrial property, remedial investigations/feasibility studies, lead and asbestos surveys, aquifer testing and analysis; implementation of drilling programs for groundwater investigations; and regulatory compliance evaluations of facilities with underground storage tanks. Areas of specialization include due diligence investigations, Brownfields development, assessment/analysis of MtBE-impacted sites, risk-based corrective action, and litigation support.

REPRESENTATIVE EXPERIENCE

DUE DILIGENCE INVESTIGATIONS

Confidential Home Improvement Retailer

Since 1996, Mr. Williams has performed over 50 Phase I and II ESAs for this client at sites throughout Arizona, California, Nevada and Hawaii. In many cases, expedited investigations have been required wherein the Phase I and Phase II assessments were performed simultaneously at former dairies, operating retail stores, industrial, commercial, and agricultural property. All work on these projects have been performed under the attorney client privilege with outside counsel located in Los Angeles, Costa Mesa, and San Diego (Latham & Watkins, Nagle Law Group).

Soluciones para de las Casas

Mr. Williams was contacted by outside counsel for Home Depot in Atlanta to perform an expedited Phase I and Phase II ESA of property in Tijuana, Mexico. The site was located in an industrial area and has been used as an illegal landfill. Working with local counsel in Tijuana, Mr. Williams and GeoSyntec staff fluent in Spanish performed fieldwork, obtained agency documents, and performed interviews of most knowledgeable personnel. All work including, trenching, soil sampling, monitor well installation, groundwater sampling, preparation of the Phase I and II ESA reports was completed in less than 4 weeks.

Masco Corporation

Mr. Williams has performed numerous Phase I and II ESAs for Masco of operating businesses. Because Masco is typically interested in buying an operating, profit making business, this work has included an evaluation of current regulatory compliance with air and waste discharge requirements and well as potential subsurface impacts. The businesses evaluated have included manufacturers of sprinkler head and systems, spa manufacturers, and cabinet makers. These businesses have typically had multiple facilities throughout California which are evaluated simultaneously as the entire due diligence package.

LITIGATION SUPPORT (1997 TO 2001)

Kinder-Morgan v. Equiva, et al.
Superior Court of California – County of San Diego
Testifying Expert, pending 2002
Representing defendant in issues associated with fuel hydrocarbons impacts due to historical operations at the Mission Valley Fuel Terminal in San Diego.

Pacific Indemnity v. County of San Diego, et al.
Superior Court of California – County of San Diego: Case No. 732418
Testifying Expert, 2000-2001
Representing defendant in issues associated with the migration of contaminants from an active solid waste landfill. Three video-taped depositions were given during 2000 and 2001. Settlement negotiations are ongoing.

SCI Noel v. Union Oil Company of California
United States District Court – Hawaii District: Case No. 99-00503
Testifying Expert, pending 2002
Representing defendant in issues associated with release and remediation of fuel hydrocarbons from USTs. Filed declaration April 1, 2000; depositions scheduled for late 2001.

Bank of America v. Dinwiddie Construction Company, et al.
Superior Court of California – County of Los Angeles: Case No. BC165344
Testifying Expert, 2000
Represented defendants in issues associated with the release of fuel hydrocarbons including MtBE from USTs at major banking data center in downtown Los Angeles. Two expert depositions given during 2000. Case settled favorably for defendant.

City of Brea v. Hall & Foreman Inc., et al.
Superior Court of California – County of Orange: Case No. 78 66 78
Testifying Expert, 2000
Represented defendant in issues related to environmental remediation costs incurred during the construction of a 15 million gallon water tower in a former oil field. Three expert depositions provided during 2000. Case settled favorably for the defendant.

Valley Isle Produce, Inc. v. Shell oil Company, et al.
United States District Court – Hawaii District: Case No. 97-01066 DAE
Testifying Expert, 1998-1999
Represented one of three defendants in issues associated with the damages associated with hydrocarbon contamination discovered during construction and a release of fuel hydrocarbons from an above ground fuel storage tank at a fuel terminal on Maui, Hawaii. Defendant favorably settled case prior to final judgement.

Keith B. Lansing v Union Oil Company of California
Superior Court of California – County of San Diego: Case No. EC 015890
Testifying Expert, 1998
Represented defendant in issues related to releases of fuels from USTs (Case settled in favor of Unocal)

Cress v. AAA Farms, et al.
Superior Court of California – County of Imperial: Case No. 74584
Deposition Taken February 26, 1997; Testified at Trial April 21, 1997
Represented defendants on issues related to controlled agricultural burning of fields which spread into area where hazardous waste was illegally stored (Jury found in favor of the defendant).
Elmer Mikkelson v William Webb

Superior Court of California – County of San Diego
Testified During Arbitration: December 1997
Represented defendant in issues related to release of hydrocarbons from USTs (neutral settlement).

Vignato v. Union Oil Company of California
Superior Court of California – County of San Diego
Testified During Mediation: 1997
Represented defendant against multi-million dollar claim related to release of hydrocarbons from UST (Case settled for $7,000 based on Mr. Williams' calculations).

MTBE INVESTIGATIONS

Charnock PRP Group, TOSCO and Unocal Corporation

Mr. Williams managed the design and implementation of an MTBE soil and groundwater investigation at 4 different sites for two major oil companies in the Charnock well field in west Los Angeles, California. He attended meetings with EPA, Los Angeles Regional Water Quality Control Board (RWQCB), and local water authority officials. During this investigation, approximately 30 borings and monitor wells were constructed to depths ranging from 50 to 200 feet. Mr. Williams directed staff on the interpretation and correlation of geophysical and lithologic logs. He evaluated soil and groundwater quality data, prepared conclusions and recommendations to decrease the scope of additional assessment, and supervised preparation of technical work plans and reports submitted to the RWQCB.

St. John Knits, Irvine California

Mr. Williams has prepared of feasibility study of remedial alternatives to address MTBE in groundwater at this clothing manufacturing facility. He supervised the development and utilization of a groundwater model to predict the fate and transport of MTBE in groundwater and the potential impact to nearby water supply wells. Mr. Williams is currently preparing documents in support of a closure request, which specifies implementing monitored natural attenuation as the preferred remedial alternative.

Plavan Petroleum PRP Group, Escondido, California

Mr. Williams represented multiple potentially responsible parties (PRPs) in an evaluation of environmental conditions at an active bulk fuel terminal in northern San Diego County. This PRP group is comprised of the property owner, the current facility operator, and a major oil company, the former facility operator. The extent of fuel related impacts covers approximately 2-city blocks and falls within a basin designated as a sensitive aquifer. Under Mr. Williams' direction, innovative techniques for the assessment and remediation of MTBE and free product in groundwater were evaluated. Mr. Williams directed the performance of a fate and transport analysis of MTBE in groundwater and a risk analysis of benzene to determine cleanup goals for these constituents in soil and groundwater.

UNDERGROUND STORAGE TANK INVESTIGATIONS

Designed and implemented an underground tank investigation and monitoring program for a major aerospace contractor at two facilities in southern California. Performed soil and groundwater sampling to determine extent of release at numerous individual sites. Assisted in the design of an underground tank monitoring program for a major aerospace industrial facility in southern California.

Designed and implemented a UST investigation program for major rental car company in California, Arizona, and Nevada including tank closure, and site assessment operations. Designed and implemented a soil and groundwater remediation system consisting of vapor extraction, product recovery, and groundwater treatment. Supervised operation and maintenance of remediation and ongoing monitoring program.

Managed multiple active sites for Chevron Products, U.S.A., Unocal Corporation, and Mobil Oil Company. Supervised soil sampling during UST removals and upgrades. Directed installation of borings and monitor wells, performance of regional groundwater monitoring programs and comprehensive site assessment programs, and insured all sites were in compliance with MTBE sampling specified in SB 561. Prepared environmental database for all sites as a means of screening and ranking sites for closure using risk-based corrective action. Initiated an aggressive risk-based closure strategy for multiple sites in the San Diego region.

SOIL AND GROUNDWATER CONTAMINATION STUDIES

Chatham Brothers Superfund Site

Performed an RI/FS for potentially responsible parties (PRPs) at a state Superfund site overlying fractured bedrock in northern San Diego County, California. Based on risk-based approach, implemented interim remedial measures consisting of surface water management and a groundwater pump and treat system. Represented PRPs in periodic meetings with Cal-EPA and during public participation hearings.

General Dynamics, Ft. Worth, Texas

Provided technical representation and presented summaries of hydrologic investigations for General Dynamics and the U.S. Air Force at periodic meetings with the U.S. Environmental Protection Agency, Department of Interior, and local authorities concerning a Superfund site and active defense manufacturing facility in Texas. Conducted and analyzed long-and short-term aquifer tests and estimated hydraulic properties of first four aquifers beneath the site. Prepared a work plan to conduct a Remedial Investigation/Feasibility Study (RI/FS). Implemented interim remedial measures to remove source zones of contamination.

Montrose Chemical Company, Torrance California

Collected soil samples, installed groundwater wells and performed groundwater monitoring at a former DDT manufacturing facility and federal Superfund site in southern California. Performed aquifer testing and managed the installation of an interim dense non-aqueous phase liquid (DNAPL) recovery system

Various Superfund Sites, California

Developed groundwater flow and solute transport models for Superfund sites in northern and southern California. Managed multiple drilling programs and extensive monitoring programs, including oversight of construction monitor wells, preparation of lithologic logs, and collection of water samples. Collected site-specific aquifer parameter data that were used to calibrate and improve the accuracy of contaminant

flow and recovery simulations. Prepared RI/FS report and supervised implementation of pump and treat remediation system and ongoing groundwater monitoring programs.

COMMUNITY INVOLVEMENT

Co-Chair of Risk-Based Corrective Action Technical Work Group, San Diego County Department of Environmental Health, Site Assessment and Mitigation Division

From 1997 to 1998, Mr. Williams was the Co-Chair of the Risk-Based Corrective Action Technical Work Group. This work group developed guidance to implement ASTM RBCA standards for sites in San Diego County. The technical work group developed Tier 1 lookup tables and also developed technical procedures for evaluating hydrocarbon concentrations that are indicative of mobile free product. The resulting technical guidance was peer reviewed and approved by County and State staff. The RBCA guidance was published in the December 1998 updates to the SAM Manual.

Steering Committee, San Diego County Department of Environmental Health, Site Assessment and Mitigation Forum

Since 1996, Mr. Williams has served on the Steering Committee for the SA/M Forum. The Steering Committee directs efforts by the active technical work groups that are in the process of preparing proposed guidance documents and reviews draft work products prior to inclusion in the SA/M Manual. Mr. Williams is currently overseeing the efforts of a technical work group that is responsible for preparing guidance on Risk-Based Corrective Action.