Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Dr. Quazi has 31 years of experience providing geotechnical engineering services and has earned a reputation for providing quality work in an honest and ethical manner, on time and within budget.

In his capacity as Principal in Charge or Project Manager, Dr. Quazi provides quality control, budget oversight, and technical assistance on various types of projects, including pipelines, wastewater treatment plants, reservoirs, and other related studies. He has supervised site investigations and prepared technical reports for facilities located in areas of high liquefaction potential and difficult subsurface conditions.

Dr. Quazi is also responsible for the operation and management of our offices in Redlands, Monrovia, Costa Mesa, Palm Desert and Palmdale.

EDUCATION

- Ph.D., Civil Engineering, University of Arizona, 1987
- M.S., Civil Engineering, Arizona State University, 1982
- B.S., Bangladesh Engineering University, 1978

REGISTRATIONS/CERTIFICATIONS

- California, Civil Engineer, #46651
- California, Geotechnical Engineer, #2517

PROFESSIONAL MEMBERSHIPS

- American Society of Civil Engineers (ASCE)
- American Water Works Association (AWWA)
- American Council of Engineering Companies (ACEC)

Relevant Experience

Pipelines

La Sierra Pipeline (WMWD), *Riverside County, CA*. Principal in Charge. Provides technical oversight and budget control for the geotechnical investigation report. The project consisted of approximately 21,000 linear feet of 24-inch diameter water pipeline, installed along La Sierra Avenue and the Riverside County Flood Control Arlington Channel, Arizona Channel, and Line C-1 Channel. The alignment was located in the City of Riverside and the adjacent unincorporated portion of Riverside County, California.

Simpson Road Sewer Pipeline Repair (EMWD), *Menifee, CA*. Principal in Charge. Provides technical oversight and budget control for the geotechnical observation and materials testing. The project consists of excavation and replacement of the upper portion of the backfill in a sewer pipeline trench along the approximate centerline of Simpson Road between Rose Meadow Drive and Lindenberger Road in Menifee, California. The subject sewer pipeline was installed in approximately 2007 at a depth of 6 to 8 feet below ground surface. In early 2012, cracking and settlement was observed in the asphalt concrete pavement overlying the sewer trench. Settlement of up to approximately an inch has occurred in some areas. Previously excavated test pits have encountered high moisture contents in the sub-grade soils.

Perris Valley Pipeline, Metropolitan Water District, *Perris, Riverside County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project involved construction of a 96-inch diameter water pipeline with a total length of 3.0 miles; turnout structure no. 2 and 3; manhole; and meter vault.

Illinois Street Pipeline, *Riverside County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation

and observation and materials testing for the project. The project consisted of 4,450 linear feet of a new 12-inch PVC pipeline at Illinois Street from Strickland Avenue to the existing Lash Booster Pump Station and Lash Avenue. The pipeline will cross under Riverside Drive, designation at Highway 74, accomplished by jacking and boring a 20-inch steel casing under the road and inserting the 12-inch water pipeline inside.

Benson Avenue Sewer Siphon, *Chino, CA*. Principal in Charge. Provided technical oversight and budget allocation for the materials testing and inspection services. The project consisted of installing approximately 544 linear feet of two 8-inch diameter HDPE pipes within a 24-inch diameter HDPE casing under the State Route (SR)-60 Freeway using the horizontal directional drilling (HDD) method. The bore hole size was 36-inch in diameter. The siphon inlet was at the intersection of Benson Avenue and Portsmouth Street and the outlet was at the intersection of Benson Avenue and Harrison Street.

Quadrant II Water Main Replacement, *Chino, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation and materials testing and inspection services. The project was provided in phases and included the design of 5,098 linear feet of 8-inch diameter polyvinyl chloride (PVC) with a typical depth to pipeline invert of 50 inches below existing ground surface (bgs). The pipelines were located at various streets throughout Chino, California. The pipelines were installed using the open cut-and-cover technique.

Jackson Street Recycled Water Main, *Riverside, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. The project included approximately 2,450 linear feet of 8-inch diameter ductile iron pipeline installed in 24-inch diameter casings originating from an existing recycled water pipeline at the intersection of Van Buren Boulevard and Central Avenue and continuing east along Central Avenue in Riverside, California. The project used bore-and-jack crossing under Union Pacific Railroad crossing.

Cactus Feeder II Pipeline, *Moreno Valley, CA*. Provided technical oversight and budget allocation for the geotechnical investigation and well monitoring installation. The Cactus II Feeder Pipeline project consisted of approximately 29,700 linear feet of 36-inch to 48-inch diameter water pipeline. The pipeline construction also included four turnout facilities. The alignment originates at the existing Cactus I Feeder transmission pipeline at the southeast corner of the Cactus Avenue and Heacock Street intersection. It continues along Cactus Avenue, Indian Street, Alessandro Boulevard, Moreno Beach Drive, Perris Boulevard, and Nason Street. The pipeline construction also included four turnout facilities.

Santana River Trail Sewer Pipeline, *Corona, CA*. Principal in Charge. Provided technical oversight and budget allocation for the materials testing and inspection services. The project consisted of approximately 415 linear feet of overall sewer pipeline to be constructed and 70 linear feet of existing sewer pipeline to be encased in concrete at the Santana River Trail Staging Area in Corona, California. The project included trench backfill, concrete slab and asphalt concrete replacement.

Euclid Avenue Pipeline & Wells, *Chino, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consists of 13,000 linear feet of pipeline alignment and well locations along Euclid Ave. in Chino, California. The pipelines consist of 3,600 linear feet of 6-inch diameter

pressurized water main; 2,100 linear feet of 6-inch diameter raw water pipeline; and 5 segments totaling 8,300 linear feet of 4-inch, 6-inch and 12-inch diameter raw water pipeline.

Magnolia Techite Pipeline, *Riverside, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation and observation and materials testing for the project. The project involved a pipeline of 5,540 linear feet of 42-inch diameter CML&C steel with an option of 36-inch diameter. The typical depth to pipe invert was approximately 8 feet below existing ground surface (bgs). The pipeline was installed using the open cut-and-cover technique.

Irvine Park Water Pipeline, *Irvine, CA*. Principal in Charge. Provided technical oversight and budget allocation for the materials testing and inspection services. The project involved the installation of modern domestic waterlines within Irvine Regional Park, part of the Orange County Parks system.

27th Street Water Main, *Long Beach, CA*. Principal in Charge. Provided technical oversight and budget allocation for the materials testing and inspection services. The project consisted of replacing existing water line with 4,100 linear feet of cast iron pipe on East 27th Street, Elm Avenue, Pasadena Avenue, Linden Avenue and Via Passilo in the City of Long Beach, California.

California Avenue Sewer, *Corona, CA.* Principal in Charge. Provided technical oversight and budget allocation for the materials testing and inspection services. The project included construction of 9,050 feet of VCP sewer line, 800 feet of two parallel 12-inch HDPE force mains and jack operation with a 27-inch casing.

EM-11 Pipeline & Pump Station, *Winchester Area of Riverside County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The EM-11 project consisted of a large (60 to 72-inch) diameter pipeline which originated from the proposed EM-11 pump station and traverse north approximately 10 to 12 miles to a tank farm north of Simpson Road in the Winchester Area of Riverside County, California. The EM-11 pump station and turnout structure sites hads not been selected yet, however, it is anticipated one pump station will be located near the EM-11 turnout. Additional pump stations and turnout facilities may be required along the selected alignment.

Big Bear Lake Water System Improvements, *Big Bear Lake, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation and observation and materials testing for the project. The Big Bear Lake water system improvements, distribution and transmission main replacement project consisted of 6 planned pipeline alignments with a total of approximately 8,630 linear feet. The project included replacement/relocation of water services, installation of fire hydrants and construction of three well sites.

OMUC Phase 2 Pipeline, *Ontario, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation and observation and materials testing for the project. The project consisted of the construction of 22,000 linear feet of 8-inch and/or 12-inch diameter water distribution mains and appurtenances for the City of Ontario Municipal Utilities Company pressure zone in 9 locations throughout the City of Ontario, California.

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Van Buren Blvd. Water Pipeline, Jurupa Valley & Riverside, CA. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project involves the design of approximately 6,500 feet of 18-inch diameter water pipeline along Van Buren Boulevard from Jurupa Avenue to Limonite Avenue. Most of this pipe is parallel to the portion of the force main along Van Buren Boulevard, except for approximately 1,700 feet from the intersection of Van Buren Boulevard and Studio Place to Van Buren Boulevard and Limonite Avenue.

Perris & Elder Pump Station & Pipeline, *Redlands, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation, geotechnical observation and materials testing. The proposed booster pump station (BPS) building footprint is 40 feet by 100 feet and consisted of a concrete masonry building founded on continuous foundations and 5 vertical pump cans with a depth of 13 feet. Each pump is to have 1,870 gallons per minute (gpm) capacity, for a total initial BPS capacity of 5,600 gpm. Each vertical pump can will be installed at 13 feet below grade. The building constructed to house the pump station equipment will also include electrical and generator rooms. The project also included the installation of 3,215 linear feet of 30-inch diameter cement-mortar lined and coated (CML&C) steel pipe to connect the new BPS to existing infrastructure.

Hemlock & Redlands Booster Pump Station & Pipeline, *Redlands, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation and construction phase. The project included the installation of 3,000 gpm capacity vertical pump cans, a 30 foot x 20 foot control and equipment building, and a 1,400 l.f. of pipeline exiting the new booster pump station (BPS) site and running north along Redlands Boulevard in Moreno Valley, California. The pipeline was 24 inches in diameter with an invert depth of approximately 6 to 8 feet bgs. Open cut and cover technique was used to install the pipeline.

Minnesota Road Water Line Improvements, *El Cerrito Area, Riverside County, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. The project consisted of approximately 1,760 linear feet of 8-inch diameter ductile iron pipe (DIP), to be installed along Minnesota Road, Jolora Avenue, and a small section of Santa Anita Street in the El Cerrito area of Riverside County, California. The proposed pipelines connected to existing infrastructure located on Minnesota Road, Arcadia Street, Santa Anita Street, Santa Rita Street, and Temescal Canyon Road. The pipe was installed using open cut and cover techniques.

Beaumont Avenue Recharge Facility Pipeline, *Beaumont, CA.* Principal in Charge. Provided technical oversight and budget allocation for materials testing and inspection services. The pipeline alignment was located in Beaumont, CA at the corner of Orchard St. and Mountain View Ave. The 6,720 foot pipe was 24-inch in diameter and depth to pipe invert was within 10 feet bgs. Cut and cover techniques were used to install the pipe along most of the alignment, except across two drainage channels where a bore and jack technique was used. A 12' x 12' prefabricated building was planned at the corner of Mountain Avenue and Orchard Street to house pumping equipment.

Gardner Avenue & Pansy Street Water Pipeline, *Riverside, CA.* Principal in Charge. Provided technical oversight and budget allocation for materials testing and inspection services. The

project included construction of approximately 1,282 linear feet of 12-inch diameter PVC waterline along Gardner Avenue and 815 linear feet of 8-inch diameter PVC waterline along Pansy Street in Riverside, California. The pipelines were installed using the open cut-and-cover method.

'A' Street Water Pipeline Replacement, *Riverside County, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. The project was performed for the Eastern Municipal Water District (EMWD) and located at 'A' Street and Frontage Road in unincorporated Riverside County, California. The pipe was a 408 linear foot long 24-inch-diameter cement mortar lined and coated welded steel pipe (CML/CMC) and the typical depth to the top of the pipe varied from 5 to 10 feet bgs. The pipeline was installed using the open cut-and-cover and bore-and-jack techniques.

Pettit Pressure Reducing Station & Pipeline, *Moreno Valley, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. The project consisted of approximately 29,700 linear feet of pipeline to be installed at Cactus Avenue, Indian Street, Alessandro Boulevard, and Perris Boulevard in the City of Moreno Valley, California. The Pettit Regulated Pressure Zone (RPZ) consisted of of 4 pressure regulating stations with the size of 9.5'x17.5', 9'x17', 6'x17.5' and 5.5'x17.5'. The pressure reducing station enclosures will be 8"x8"x16" CMU walls or wrought iron with removable roof. The enclosures will be founded on shallow foundations and 8" thick concrete slabs-on-grade.

Linares Avenue Sewer Lift Station, *Jurupa Valley, CA.* Principal in Charge. Provided technical oversight and budget allocation for the construction phase of the project. The project consisted of installation of approximately 3,347 linear feet of 12 inch CML/CMC steel pipe, 2,988 linear feet of 18 inch PVC force main, and 1,125 linear feet of 10 inch PVC force main pipeline in Jurupa Valley, Riverside County, California. The pipeline trench depth ranged up to approximately 7 feet in depth below the existing elevation to the pipe invert. The sewer lift station included a wet well, valve vault, flow meter vaults, check valve vault, aggregate concrete paving, and a 6 foot high perimeter wall at the south end of the Linares Avenue Sewer Lift Station site.

Bogert Trail Sewer Lift Station, *Palm Springs, CA.* Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. The project consisted of installing a new lift station and a force main that will pump and convey sewer flow from the eastern upstream manhole to the western downstream manhole. The existing sewer siphon will be protected in place as a future bypass of the new lift station or be abandoned in place. The new lift station includes a precast concrete 4' or 5' diameter circular wet well structure. There will be a concrete, steel or fiber-reinforced plastic (FRP) dry pit next to the wet well where pumps will be installed.

Jurupa Community Services District, Regional Lift Station Replacement, *Riverside County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. The regional lift station was 40 feet by 80 feet in dimension. The depth of the lift station wet well varied between 30 and 35 feet below existing ground surface (bgs). The lift station was constructed of cast-in-place reinforced concrete. There was an operating lift station on the eastern part of the property. On the south side of the lift station there was a motor

and mechanical control structure. On the west side of these buildings there were two storage buildings. The southern storage building was demolished and the lift station was constructed in its place.

Home Gardens Water Transmission Line, *Corona, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. The project consisted of approximately 13,800 linear feet of 24-inch-diameter water pipeline along Joy Street, 3rd Street, Grand Boulevard, Quarry Street, El Sobrante Road, 6th Street, Magnolia Avenue, and Grant Street in the City of Corona, Riverside County, California. The project included two 2 jack and bore operations at Temescal Creek and the railroad crossing at Magnolia Avenue and El Camino Avenue. The pipe depth was generally 10 feet bgs and was deeper in certain places where it crossed existing utilities.

Dos Palmas Pipeline & Pavement Rehabilitation, *Victorville, CA.* Principal in Charge. Provided technical oversight and budget allocation for the construction phase of the project. The project was located at Dos Palmas Road, Victorville, California and consisted of installing 5,000 linear feet of 30-inch water pipeline and replacing the pavement with 3.5 inches of asphalt over 8.0 inches of aggregate base.

Old Town Victorville Pipeline Replacement, *Victorville, CA.* Principal in Charge. Provided technical oversight and budget allocation for the construction phase of the project. The project consisted of installing 9,300 LF of PVC C-900 and repaving the alleyways 3" HMA/8" Class AB for approximately 105,000 square feet in old town Victorville between 1st Street and 7th Street, and D Street to Forrest Street.

Fletcher Basin Project, *Orange, CA.* Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. Consisted of the improvement and expansion of a stormwater detention basin adjacent adjacent to the Santa Ana River channel. The planned design included expansion and re-excavation of the basin to provide increased capacity as well as recharge capability. Evaluated various slope configurations to optimize constructability while maximizing available recharge area.

Jurupa Community Services District (JCSD) Water Pipeline Improvements, *Riverside County, CA.* Principal in Charge. Provided technical oversight and budget allocation for the construction phase of the project. The Jurupa Community Services District (JCSD) Capital Improvement Projects construction sites were located in Riverside County, California. The water pipeline construction took place on various streets in the Riverside area with a variety of pipe sizes, and invert depths. These locations were Limonite Boulevard, Kenneth Street, Hastings Boulevard and Foxtail Lane.

Romoland Booster Pump Station, *Romoland, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. The project consisted of a new booster pump station (BPS) and related pipelines will be constructed to replace the existing Romoland BPS. The new BPS will likely be a 40-foot by 20-foot masonry block wall building constructed with slab-on-grade and founded on a shallow footing. There will be approximately 1,000 linear feet of associated piping along the street with a depth to invert of approximately 5 feet bgs.

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Glen Helen Regional Camp Pipeline, *Devore Area, San Bernardino County, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the design and construction phase of the project. The subject site was located approximately 700 feet northwest of the intersection of Glen Helen Road and Glen Helen Parkway in the Devore area of unincorporated San Bernardino County, California. The project included improvements to an existing restroom building and installation of additional recreational vehicle hook-ups. They also included installation of approximately 890 feet of 6-inch PVC water pipeline, 938 feet of 6-inch VCP sewer pipeline, and a replacement leach field for the existing septic tank.

VVWRA Water Reclamation Plant Effluent Disposal System, *Apple Valley, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of approximately 15,000 linear feet of sewer pipeline located within the Town of Apple Valley. The project also consisted of percolation areas including ponds and creek sections. The percolation areas were required to serve as disposal facilities for treated effluent generated by two water reclamation plants; one in the Town of Apple Valley, and another in the City of Hesperia. The ponds were about 2 to 5 feet deep.

City of Ontario Sewer Diversion Projects, *Ontario, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of the design and construction of pipelines at various locations in the City of Ontario, California. One pipeline consisted of approximately 3,325 linear feet of 12-inch to 15-inch diameter vitrified clay pipeline (VCP) and the other of approximately 2,210 linear feet of 8-inch to 10-inch diameter vitrified clay pipeline (VCP).

Olive Avenue Sewer Improvements, *Winchester Area of Riverside County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The Olive Avenue Sewer Regional Improvement project provides service to existing and future developments within the Winchester Valley area, from La Ventana Road to Rice Road, in an unincorporated area of Riverside County, California. The project consisted of approximately 11,000 linear feet of gravity sewer ranging from 8-inches to 36-inches in diameter. Pipe material was vitrified clay. Open cut-and-cover technique was used to install the pipes.

Mound Street Water Main Replacement, *High Grove, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of the replacement of the Mound Street water main. The main was approximately 5,380 linear feet of 8-inch ductile iron water pipeline. The alignment of the proposed water main replacement ran along Mound Street, Pacific Avenue, Highland Avenue, Villa Street and Alleyways 1 and 2 within the Highgrove area of the County of Riverside, California.

Eastside Water Treatment Plant Pipeline & Well Extraction, *Pearblossom, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation and percolation testing. The project site was located on the Southeast and Southwest sides of the Intersection of E. Avenue U and 116 Street E., in the Town of Pearblossom, located in an unincorporated portion of Los Angeles County, California. The proposed project consisted of 5,000 linear feet of 12 to 20-inch-diameter distribution and

collection pipelines, five (5) extraction wells were constructed near the recharge basins along with five (5) 20 x 20 foot extraction well buildings.

Wells No. 86, *Perris, CA*. Provided technical oversight and budget control for the geotechnical investigation services. The project sites were located Riverside County, CA. Perris Well No. 86. was located west of Murrieta Road extension, approximately 800 feet south of San Jacinto Avenue, in the City of Perris. The project involved planned construction of 9.5 feet wide by 17.5 feet long masonry block building to house the electrical equipment. The project also involved various pipelines, construction of a detention basin and other site improvements.

Wells No. 87, *Perris, CA*. Provided technical oversight and budget control for the geotechnical investigation services. Perris Well No. 87 is located at the intersection of Nuevo and Olivas in Riverside County. The project involved planned construction of a 9.5 feet wide by 17.5 feet long masonry block building to house the electrical equipment. The project also involved various pipelines, construction of a detention basin and other site improvements.

Wells No. 88, *Perris, CA*. Provided technical oversight and budget control for the geotechnical investigation services. Perris Well No. 88 is located to the northeast of the intersection of Pico Avenue and San Jacinto Avenue in the Nuevo area of Riverside County, California. The project involved planned construction of 9.5 feet wide by 17.5 feet long masonry block building to house the electrical equipment. The project also involved various pipelines, construction of a detention basin and other site improvements.

Well No. 5, *Oak Hills, CA*. Principal in Charge. Provided technical oversight and budget control for geotechnical observation and material testing. The project site is located at the northwestern corner of Bellflower Road and El Centro Road in in the County Service Area 70, Improvement Zone J, in the Oak Hills area of San Bernardino County, California. The project consisted of grading of the pad and driveway for proposed Well #5. It was anticipated that a 16-inch diameter well would be completed to a proposed depth of 1,300 feet below ground surface (bgs) and used for a potable water supply.

San Bernardino Valley Municipal Water District, Baseline Feeder Vault Lids, *San Bernardino, CA* Principal in Charge. Provided technical oversight and budget control for geotechnical observation and material testing. The project included the replacement of 19 vault lids within the Baseline Feeder in various location throughout the City of San Bernardino, San Bernardino County, California.

Mojave Water Agency R3 Pipeline, *San Bernardino County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project involved 10 miles of proposed Phase 1 Water Conveyance pipeline, utilizing trenchless crossings under BNSF railroad tracks, under Interstate 15 along Mesa Street, and under Highway 395 at Mesa Street. The project also included proposed Turnout Structure Nos. 6 and 7 to be located at Mesa View Drive in the city of Victorville, & proposed steel reservoir and pump station in the City of Hesperia.

The Mojave River Pipeline – Reach 4A, *San Bernardino County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation, observation and testing. The project consisted of the design and

construction of approximately 30,620 linear feet of 24-inch diameter raw water pipeline located in an unincorporated area in the County of San Bernardino, north of the city of Barstow, California.

Orange Avenue/7th Street Sewer Upgrade Project, *Long Beach, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of planned upsize of approximately 2,000 linear feet of 24-inch diameter sewer pipe at Orange Avenue between 7th Street and 11th Street to 30-inch diameter sewer pipe. The project also included planned upsize of approximately 1,300 linear feet of 8-inch diameter sewer pipe at 7th Street between Orange Avenue and Walnut Avenue to 12-inch diameter sewer pipe.

Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation.

HDWD Wastewater Reclamation Facility, *Yucca Valley, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The Hi-Desert Water District Wastewater Reclamation Facility (WRF) was located on a 16.4 acre site northeast of Sunnyslope Drive and Indio Avenue in Yucca Valley, California. The project included ponds, basins, pump stations, aeration tank, maintenance/operations building, electrical building, above-ground and underground utilities, asphalt and concrete pavement, and open spaces. The facility has the capacity of processing 1.0 million gallons per day.

Lower Narrows Sewer Replacement, Victor Valley Wastewater Reclamation Authority, *Victorville, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation and technical support during construction. The project consisted of approximately 25,000 linear feet of pipe traversing through Mojave River Bed and hard bedrock areas.

District 6 Water Main Replacement, *Pomona, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of about 10,280 linear feet of 6 to 12-inch diameter water pipe in the city of Pomona, California.

Rialto Pipeline Turnouts No. CB-14 and CB-20, *Rialto, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project included removal of existing MWD manholes and replacement with new 84-inch diameter manholes; construction of valve vaults, 12 feet by 12 feet in plan dimension; cast-in-place concrete meter vaults, 18 feet by 12 feet in plan dimension; new 24-inch to 36-inch steel pipeline sections, and other improvements.

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Winston Avenue Pipeline, *Upland, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of the design and construction of approximately 2,700 linear feet of pipeline along Winston Avenue between 17th Street and 18th Street in Upland, San Bernardino County, California.

Church & Third Street Sewer Improvements, *Highland, CA*. Principal in Charge. Provided technical oversight and budget control for geotechnical observation and materials testing. The project consists of the installation of 2,700 feet of 15-inch sewer pipeline and 1,155 feet of 12-inch sewer pipeline at Church Street and Third Street, Highland, California. The project also includes asphalt concrete placement along the sewer pipeline alignments.

University Avenue Sewer Replacement, *Riverside, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consists of replacing the existing sewer pipeline along University Avenue between Chicago Avenue in the west to Canyon Crest Drive in the east in the City of Riverside, California. The total length of the pipeline is approximately 5,300 linear feet.

EOCWD Sewer Pipeline at Various Locations, *Orange County, CA* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of vitrified clay pipe (VCP) sewer pipeline of 8-inch diameter. The pipe invert depth was within 10 feet below existing ground surface (bgs) and the pipeline was installed using the open cut-and-cover technique. Lateral connection to every lot from sewer main was 4-inch diameter VCP.

EOCWD Browning and Irvine Sewer Pipelines, *Orange County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of vitrified clay pipe (VCP) sewer pipeline of 8-inch diameter. The maximum pipe invert depth was 13 feet below existing ground surface (bgs) and the pipeline was installed using the open cut-and-cover technique.

Jurupa Community Services District Capital Replacement of Sewer Pipelines, *Jurupa Valley, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project included design and construction of approximately 3,224 linear feet of 8 to 12-inch polyvinyl chloride (PVC) sewer pipelines. The pipe invert depth was approximately 4 to 12 feet below existing ground surface (bgs). The pipeline was installed mostly using the open cut-and-cover technique. Bore and jack method will be utilized at Van Buren/UPRR crossing at 56th Street and Van Buren/UPRR crossing at 63rd Street.

Grapeland Peaker Plant Sewer Pipelines, *Rancho Cucamonga, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project included the design of approximately 3,000 linear feet of 6-inch diameter polyvinyl chloride (PVC) sewer pipeline. The pipeline originated from the Southern California Edison (SCE) Grapeland Peaker Plant located at 12608 6th Street in Rancho Cucamonga, CA. It will traverse west along 6th Street and tie into an existing sewer pipeline on 6th Street at the intersection with Santa Anita Avenue. The pipe will cross an existing

BNSF railroad track.

Rochester Avenue & 6th Street Sewer Pipelines, *Rancho Cucamonga, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of 1,293 linear feet of 16-inch ductile iron pipe (DIP) and 15-inch vitrified clay pipe (VCP) sewer pipelines. The segments were located at the intersection of 6th Street and Charles Smith Avenue and the intersection of Rochester Avenue and Charles Smith Avenue in Rancho Cucamonga, California. The pipeline will be installed using the open cut-and-cover technique. Bore and jack methods were utilized at 2 locations.

Jurupa Community Services District, *Jurupa Valley, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of the design and construction of approximately 7,500 linear feet of 24-inch diameter ductile iron or plastic (PVC) pipeline within various streets in Jurupa Valley, California.

District I and II Sewer Main Replacement, *Pomona, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consists of about 3,620 linear feet of 15-inch diameter vitrified clay sewer pipe in the city of Pomona, California.

Orange Park Acres Transmission Main, *Irvine, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of approximately 19,000 linear feet of 16 to 20-inch diameter transmission main water pipeline in the city of Orange, Orange County, California.

Riverside Corona Feeder, *San Bernardino, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project included a constraints study for a 54” pipeline traversing two counties, several freeways and other structures.

Morongo Basin Water Pipeline Project, Mojave Water Agency, *High Desert Area, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of 70 miles of pipeline, a turnout structure, pump stations, and water reservoirs.

Hesperia Interceptor Sewer, Victor Valley Wastewater Reclamation Authority, *Hesperia, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation for the project, consisting of the construction of approximately 10,800 linear feet 18-inch diameter sewer pipeline in the city of Hesperia, California.

Perris Valley Interceptor Sewer, *Eastern Riverside County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project included design of lift station, gravity sewer and force main.

Recycled Water Pipeline, Phase I, *City of Corona, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation, and contract management for the geotechnical

investigation. The project consisted of 30 miles of pipeline, modification to existing wastewater treatment plants, water reservoirs and pump station.

Chino Basin Desalter Authority Water Pipeline, *Ontario, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation, and contract management for the geotechnical investigation. The project included the design of a 12-inch diameter polyvinyl chloride (PVC) C-905 raw waterline extending from the Chino Basin Desalter Authority (CDA)'s Well I-11 site to a connection point with its proposed waterline at the intersection of Archibald Avenue and Remington Avenue in the City of Ontario, California. The depth to pipe invert will be about 5 feet below existing ground surface, except at the gas line crossings where it will be about 8 feet deep. Cut and cover technique was used for installation of the pipeline.

Chino Storm Drain Installation, *Chino, CA*. Principal in Charge. Provides technical oversight and budget control for the geotechnical investigation report. The project consisted of the design and construction of approximately 1,300 linear feet of storm drain. The location of the storm drains and lengths were Ross Avenue from Riverside Drive to Walnut Avenue - 2,650 linear feet, Walnut Avenue from Ross Avenue to Magnolia Avenue - 660 linear feet and Magnolia Avenue from Walnut Avenue to State Route 60 undercrossing - 1,300 linear feet.

Victoria & Myers Storm Drain Maintenance, *Riverside, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which involved geotechnical observation and material testing during the construction phase. The project consisted of installing a storm drain along Myers Street from Lincoln Avenue to Victoria Avenue and Victoria Avenue from Harrison Street to Van Buren Boulevard. It also included pavement improvements along Victoria Avenue from Tyler Street to Van Buren Boulevard. The project was constructed under the jurisdiction of the City of Riverside and Riverside County Flood Control and Water Conservation District.

Cypress Avenue Storm Drain, *Fontana, CA.* Principal in Charge. Provides technical oversight and budget control for the geotechnical investigation report. The project includes design and construction of an approximately 6,600 feet (1.25-mile) long storm drain system along Foothill Boulevard from Cypress Avenue to Sierra Avenue and along Cypress Avenue from Foothill Boulevard to Orange Way. The storm drain will connect to an existing storm drain system that is part of the West Fontana Channel; currently being designed by San Bernardino County Flood Control District.

Three System Storm Drain, *Chino, CA*. Principal-in-Charge. Provided technical oversight and budget control for the geotechnical investigation report. The project consisted of the design and construction of 4,740 feet of 36-inch to 54-inch Reinforced Concrete Pipes (RCP) at Ross Avenue, Garfield Street, Walnut Avenue and Magnolia Avenue in Chino, California. The invert depth was between approximately 16.5 feet below the existing ground surface (bgs) for the majority of the pipeline alignment. The pipe was installed using open cut and cover techniques.

Calle Fiesta Storm Drain, *Temecula, CA.* Principal in Charge. Provided technical oversight and budget control for materials testing and inspection. The Calle Fiesta Storm Drain Improvement project was located in the City of Temecula, California near the intersection of Calle Fiesta Road and Calle Fuente Road. The storm drain improvement connects to an existing storm drain system 150 feet north of the north end of Calle Fiesta Road. The extension of the storm drain

runs 130 linear feet north down a slope to a 100 year storm flood plain. From the beginning of the storm drain to the end the elevation drops approximately 45 feet.

Mills Avenue French Drain Installation, *Claremont, CA*. Principal in Charge. Provides technical oversight and budget control for the water infiltration testing and geotechnical investigation report. The project will consisted of installing a French Drain about 180 feet long and 4 - 6 feet deep on the west side of Mills Avenue at Brigham Young Drive. The storm drain was in the City's right-of-way extending most of the length of the property (3563 Mills Avenue) that is currently being developed on the west side of the street.

RP-4 Out Fall Pipeline, Pump Station and Water Reservoir, *Chino Basin Municipal Water District, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of 44,000 linear feet of 42-inch diameter pipeline, a pump station, a 2.6 million gallon below grade water reservoir and a chlorination facility. The pipeline traversed underneath existing reinforced concrete box culverts and railroad tracks.

Haun Road Sewer Pipeline, Eastern Municipal Water District, CA. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of approximately 15,000 linear feet of pipeline.

13-Mile Reclaimed Water and Brine Water Transmission Pipelines, *Riverside County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation for pipeline alignment from Lake Elsinore to Sun City.

6.6-Mile Reclaimed Water and Brine Water Transmission Pipelines, *Riverside County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation for pipeline alignment.

2010-2011 Water System Improvements–Distribution and Transmission Main Replacement, *City of Big Bear Lake, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical observation and testing. The project consisted of 25 planned pipeline alignments of approximately 30,000 linear feet of 8-inch diameter distribution and transmission main and 3 planned wells located at various locations in the greater Big Bear Area. The project consisted of providing building foundation recommendations for a 30 feet by 20 feet masonry block wall building to house the proposed well head, filtration plant, booster station, sodium hypochlorite storage and feed and electrical and control systems.

Riverside Water Transmission Main, *Riverside, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of the construction of a water transmission main with a pipe alignment of 12,340 feet, from the La Cadena Drive to an existing Booster Station on Linden Street in Riverside, California.

Edgemont Community Services District (ECSD) Sewer Pipeline Replacement, *Moreno Valley, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the construction phase of the project. The project was located in the City of Moreno Valley, CA. It included construction of approximately 3,245 linear feet of 8-inch

diameter vitrified clay pipe (VCP) sewer pipeline, including all manholes, and 952 feet of 4-inch diameter sewer service laterals, including all connections to existing manholes and sewer lines. The pipelines were installed using the open cut-and-cover method.

Summerhill Drive, Reach 4, *Lake Elsinore, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation for a 54-inch reclaimed water pipe and a 24-inch brine transmission pipe project.

Menifee Desalter Pipeline, *Menifee, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of approximately 25,000 linear feet of pipeline. Invert depth varied from 10 to 20 feet below existing ground surface.

Reach I, Phase II Reclaimed Water Transmission Pipeline, *Winchester/Sun City, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation, technical support during construction, and QA/QC for the project.

Reach VI, Phase I, Simpson Road, from Leon Road to Highway 79, *Winchester, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation, technical support during construction, and QA/QC for the project.

11-Mile Temecula-Winchester Reclaimed Water Pipeline Project, *Riverside County, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project involved providing design and construction recommendations through hard rock areas. Excavatability and pipe material corrosion was of prime concern in this project.

9-Mile Nuevo-Lakeview Reclaimed Water Pipeline Project, *Riverside County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for geotechnical investigation for the construction of the pipeline and a lift pump station.

3-Mile Holland-Simpson Water Transmission Pipeline, *Riverside County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation for the projects.

24-inch Diameter Water Pipeline, *Beaumont, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The project consists of a 24-inch Diameter Water Pipeline along Brookside Avenue between Cherry Avenue and Lemon Avenue, including a jack and boring crossing under the intersection of Brookside and Cherry Avenues.

Long Beach Water Main Replacement, *Long Beach, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The City of Long Beach is replacing an existing cast iron water line with 5,300 linear feet of 12-inch, 200 linear feet of ductile iron pipe on or near Long Beach Boulevard from East Willow Street to East Wardlow Road in the City of Long Beach, California. The project also includes the replacing of a 20-inch valve at the intersection of Long Beach Boulevard and Willow Street; installation of various valves, service laterals and fire hydrants; reconnecting

existing service lines and fire hydrant lines to the new water line; replacing existing water meters; abandoning existing water mains and service laterals.

Orange Avenue/7th Street Sewer Pipeline, *Long Beach, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The Orange Avenue/7th Street Sewer Upgrade Project is located in the city of Long Beach, California. The project consisted of planned upsize of approximately 2,000 linear feet of 24-inch diameter sewer pipe at Orange Avenue between 7th Street and 11th Street to 30-inch diameter sewer pipe. The project also included planned upsize of approximately 1,300 linear feet of 8-inch diameter sewer pipe at 7th Street between Orange Avenue and Walnut Avenue to 12-inch diameter sewer pipe.

Sultana Cypress Storm Drain, *Ontario, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation, observation and testing. The project involved approximately 5,300 linear feet of 10-foot to 12-foot span by 4-foot to 6-foot rise, reinforced concrete box (RCB). The project also includes jacking 360 feet of 12 x 5-foot RCB underneath the State Highway 60.

Schaeffer Avenue Storm Drain, *Chino, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and material testing. The project consisted of 4,150 feet of storm drain improvements along Schaeffer Avenue in the City of Chino, San Bernardino County, California. The proposed storm drains consisted of Reinforced Concrete Pipes (RCP) with invert depths ranging between approximately 10 to 12 feet below existing ground surface (bgs). The diameter of the RCP range from 24 inches to 60 inches. Pipes were installed using open cut-and-cover technique. Maximum depth to the bottom of manholes is approximately 15 feet bgs. The project included removing and replacing sidewalks with ADA compliance ramps, catch basins, jack and bore under the railroad track.

Chino Storm Drains, *Chino CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The project consisted of storm drain improvements at Schaeffer Avenue, Third Street, Salem Street, and Carissa Lane in the City of Chino, California. These improvements consisted of Reinforced Concrete Pipes (RCP) with invert depths ranging between approximately 10 to 12 feet below existing ground surface (bgs).

Rosemead Pipeline Extension, *Rosemead, CA*. QA/QC. Provided quality control oversight for the geotechnical investigation. The project consisted of the design and construction of approximately 6,635 linear feet of 16-inch recycled water pipeline in the City of Rosemead, California.

Rosemead Pipeline Extension – Phase II, *Rosemead, CA*. QA/QC. Provided quality control oversight for the geotechnical investigation. The project consisted of the design and construction of approximately 12,917 linear feet of water pipeline in the City of Rosemead, California.

City of Ontario Recycled Water Pipelines, *Ontario, CA.* Principal in Charge. Provided technical oversight, budget control and resource allocation for the geotechnical investigation for Phase II and geotechnical observation and testing for Phase I of the project, as well as for the geotechnical investigation, observation and testing for Phase III.

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Principal in Charge/Project Manager

City of Industry Recycled Water Project, *West Covina/Walnut/City of Industry, CA.* QA/QC. Provided quality control oversight for the geotechnical study report. The project involved a pipeline that runs across the cities of West Covina, Walnut, and City of Industry.

Lytle Creek and Wildwood Parks, San Bernardino City Water Department, *San Bernardino, CA.* Principal in Charge. Provided technical and budget oversight for the project, which involved evaluation of the percolation rates of the subsurface soils at the proposed leach line locations at the two parks within the city of San Bernardino

Palm Connector Pipeline, San Bernardino City Water Department, *San Bernardino, CA.* Principal in Charge. Provides technical and budget oversight for the geotechnical and concrete placement observation and testing. The project involves 2000' of 24" diameter Palm Connector Transmission Main located within the SBMWD right-of-way between Kendall Drive and the southern end of Magnolia Avenue

Various Water Pipe Replacement Projects, City of San Bernardino Water Department, *San Bernardino, CA*. Principal in Charge. Provides technical and budget oversight for the geotechnical services during design for various pipeline replacement projects in the City of San Bernardino.

Sewer Improvements of Cooley Avenue, Victoria Avenue, and Richardson Street, *San Bernardino, CA.* Principal in Charge. Provided technical and budget oversight for the geotechnical investigation. The project consisted of planned sewer improvements for Victoria Avenue, Richardson Street, and Cooley Avenue. The total length of the project was about 6,979 linear feet.

12th Street Storm Drain Project, *Chino, CA.* Principal in Charge. Provided technical oversight and budget control for materials testing and inspection. The project included aggregate base (50 tons) and asphalt concrete (40 tons), RCP storm drains from 24" to 66" diameter – 2,986 feet, one 66" RCP bore and jack – 145 feet, 3 junction structures and other miscellaneous items.

Arroyo Seco Pipeline Installation, *Pasadena, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical observation, materials testing and inspection. The project consisted of the City of Pasadena installing new pipelines prior to the larger construction activities ranging from 4 inches to 16 inches. The total length of the pipelines required trenching to approximately 2,000 linear feet. Converse will supplied qualified technicians to provide inspection and materials testing services for soils during construction operations.

County Line Channel Storm Drain Connection Project, *Ontario, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical observation, materials testing and inspection. The project consisted of 14 storm drain connections to the existing County Line Channel, along Bellgrave Avenue in Ontario, California. The improvements included pipes ranging in diameter from 24 to 54 inches, as well as associated inlet and outlet structures. Several locations will require repairs to existing pavement.

Nisqualli Road, *Victorville, CA*. Principal in Charge. Provided technical oversight and budget control for the project, which consisted of construction of sanitary sewer, water pipeline, storm drain, traffic signals, fiber optic communication conduit, and street improvements.

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Principal in Charge/Project Manager

Linderberger Road Pipeline, *Riverside County, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical observation, inspection, and laboratory testing. The project comprised of the construction of approximately 7,920 linear feet of 36-inch diameter potable water pipeline (phases 1, 2 & 3) and 6,485 linear feet of 18-inch diameter recycled water pipeline.

Summit Avenue Storm Drain Improvements, *Fontana, C*A. Principal in Charge. Provided technical oversight and budget control for materials testing and inspection. The project consisted of a single cell, cast-in-place, reinforced concrete box (RCB) placed at depths of about 14 to 25 feet below the existing ground surface. The RCB ranges in width from 12 to 16 feet and in height from 8 to 16 feet.

Cherry Avenue Improvements, *Fontana, CA.* Principal in Charge. Provided technical oversight and budget control for materials testing and inspection. The Cherry Avenue improvement project consisted of approximately 4,974 linear feet of storm drain, 7,528 linear feet of sewer line, and 5,279 linear feet of street improvements.

SCLA Sewer Trunk Lines, *Victorville, CA*. Principal in Charge. Provided technical oversight and budget control for geotechnical and laboratory testing. The project involves approximately 72,000 linear feet of sewer line with 180 manholes in Victorville and in the SCLA area.

Central Avenue Water Lines, *Riverside, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation and testing. The project involved 8-inch diameter recycled water and 8-inch diameter water main replacement along Central Avenue from State Highway 91 on the west to in front of Poly High School to the east in the city of Riverside.

Water Pipeline Replacement Phase III, *Redlands, CA*. Principal in Charge. Provides technical oversight and budget allocation for the geotechnical and laboratory testing. The project consists of replacing approximately 28,500 linear feet of water pipeline at 17 locations within the city of Redlands.

5,560 Linear Feet of Recycled Water Pipeline, *Menifee Area of Riverside County, C*A. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical observation and testing. The project involved the construction of approximately 5,560 linear feet of 18-inch diameter recycled water pipeline within the street right-of-way.

Oak Glen Creek Basin, *Yucaipa, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the construction phase. The 36-acre site is located at the southeast corner of the intersection of Bryant Street and Oak Glen Road in the city of Yucaipa, San Bernardino County, California. The project involved construction of three (3) detention basins ranging in size from 1.5 to 4.1 acres, two (2) earthen berms with associated maintenance roads and utilities and a five (5) acre park site.

Creag Tank, Homeland, *EMWD, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the construction phase. The project consisted of a 4MG steel reservoir. Grading for the tank pad involved major cut and fill slope.

Daily Road Tank & Detention Basin, *Menifee, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the construction phase. The project consisted of the construction of the Daily Road II 2.1 million gallon (MG) steel tank, a 0.15

MG overflow detention basin, approximately 700 linear feet of access road to the steel tank from Daily Road, and approximately 3,000 linear feet of supply line along Daily Road that connects the steel tank to the existing pipeline on Scott Road located in the City of Menifee, California.

Eastside Water Recovery Basins, *Pearblossom, CA.* Principal in Charge. Provided technical oversight and budget allocation for the percolation testing. The project consisted of three 10-Acre recharge basins within the 80-Acre parcel bounded by East Avenue "U" on the south, 96th Street East on the west, East Avenue T 8 on the north, and 106th Street East on the east, within the Pearblossom Area, Los Angeles County, California.

Oak Glen Creek Basins, *Yucaipa, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical and laboratory testing. The 36-acre site is located at the southeast corner of the intersection of Bryant Street and Oak Glen Road in the City of Yucaipa, California. The project involved construction of three (3) detention basins ranging in size from 1.5 to 4.1 acres, two (2) earthen berms with associated maintenance roads and utilities and a five (5) acre park site.

San Jacinto Valley Recharge Basins, *San Jacinto, CA.* Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation and embankment reports. The Eastern Municipal Water District (EMWD) project included The San Jacinto Valley Enhanced Recharge and Recovery Program which is intended to aid the EMWD in supplementing current and future water supplies by recharging imported water and local supplies such as storm water in the local groundwater basin for conjunctive use and for water banking for use during a prolonged drought or an emergency. The proposed water bank capacities at Mountain Avenue was 60,000 to 120,000-acre feet (AF) and extraction capacities on the order of 20,000 to 40,000 AF.

Wilson Creek Basin, *Yucaipa, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation report and percolation testing. The project improvements included a multi-purpose flood control basin with appurtenant channel and street improvements, landscaping, trails, and irrigation. The Wilson Creek Chanel has 16-foot-wide maintenance access roads on both sides. The basin is located generally in the area between the Oak Glen Creek Channel and the southern site boundary. Wilson Creek was realigned to flow directly south into the basin. A relatively flat area of the project site west of Wilson Creek and northwest of the basin was re-graded and considered for redevelopment. 2nd Street was re-aligned and extended south-southeast along the proposed western boundary of the Wilson Basin.

Eastside Water Distribution Main Replacement, *Riverside, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical and laboratory testing The project consisted of planned replacement of approximately 16,000 linear feet of different diameter water mains with new eight (8) inch diameter Ductile Iron (DI) pipeline.

14th Street Water Quality Facility, *Upland, CA*. Principal in Charge. Provided technical oversight and budget allocation for the project which consisted of the construction of a desilting/water quality basin. The basin stores approximately 106-acre feet of water as emergency storm water storage to elevation 1440 feet above mean sea level. Additionally the project consisted of the construction of approximately 1,200 linear feet of 84 inches diameter storm drain along 14th Street from Mountain Avenue to the basin.

Ontario Capital Improvement Projects, *San Bernardino County, CA*. Principal in Charge. Provided technical oversight and budget allocation. The project consisted of design and construction of approximately 15,480 linear feet of 8-inch to 30-inch diameter cemented mortar lined and coated (CML/C) welded steel pipeline in San Bernardino County, California. Approximately 5,525 linear feet of the alignment was located within the City of Upland and approximately 9,955 linear feet within the City of Ontario.

Arantine Hills Force Main, *Corona, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the observation and materials testing for the project. The proposed project includes construction of 10,400 feet of twin 2 parallel 12-inch HDPE pipelines within a common trench starting at the proposed Arantine Hills Lift Station on the Northwest corner of the I-15 Freeway and Bedford Wash, a 3,500 foot of 6-inch HDPE sewer high-line on Bedford Canyon Road and a 3,300 feet of 12-ich ductile iron water pipeline in Bedford Canyon Road.

Laurel Avenue & I Street Sewer Project, *Ontario, CA.* Principal in Charge. Provided technical oversight and budget allocation. The project consisted of the design and construction of approximately 2,210 linear feet of 8-inch to 10-inch diameter vitrified clay pipeline (VCP) in the City of Ontario, California.

Hamner Avenue Trunk Sewer, *Eastvale, CA.* Principal in Charge. Provided technical oversight and budget allocation. The Hamner Avenue Trunk Sewer construction site is located in the City of Eastvale, California. The sewer line tied into an existing sewer line on Hamner Avenue approximately 1,300 feet north of the Limonite Avenue, and spans north 2,500 feet. The trunk sewer construction starts on a dairy farm, about 50 feet west of Hamner Avenue. The sewerline runs along Hamner Avenue from 58th Street to Amberhill Avenue.

Santa Ana Water Replacement, *Mira Loma, CA*. Principal in Charge. Provided technical oversight and budget allocation for the project site which was located in the Mira Loma area, Riverside County, California. The work comprised of trench backfill for an 8 inch water pipeline and service laterals. There was approximately 4,400 linear feet of the 8" pipeline placed.

Water Booster Stations and Storage Facilities

Chromium 6 Treatment Facilities Well Sites, *Coachella Valley, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation for the project. The Chromium 6 Treatment Facilities project consisted of several components within 30 well sites in various locations in Coachella Valley, California. Those sites included 5 well sites with no treatment facilities, 23 sites with strong base anion (SBA) and 2 well sites with weak base anion (WBA) treatment facilities, approximately 52,350 linear feet of raw and finished water pipelines, and a Central Resin Regeneration Facility (CRRF).

Golden Reservoir and College Reservoir, *Yorba Linda & Placentia, CA*. Principal in Charge. Provided technical oversight and budget allocation for the Geotechnical/Geo-hazard Evaluation for the project. A study has been implemented to evaluate the present condition of the Golden Reservoir in Placentia, California and the College Reservoir in Yorba Linda, California. Both tanks were inspected in late 2013 by the California Department of Public Health (CDPH) and recommendations were made to have the structures evaluated for seismic safety and determine

the cause of cracking. In addition, repairs to the cracked portions of the tanks were mandated by CDPH along with repairs to the damaged roof sections.

EVMWD 6 Capital Improvement Projects, *Riverside County, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical and materials testing and inspection. The project consisted of the construction of six (6) capital improvement projects for EVMWD involving: **1) Wildomer Area Lift Station -** Approximately 1,300 linear feet of 8-inch parallel sewer line, 1,200 linear feet of 14-inch force main, pump and electrical upgrades to the B1 and B2 lift station facilities. **2) Trtan Tank Painting, Coating, and Site Improvements -** Modifications to the existing welded steel tank, removing the oil coasting and corrosion from the interior of the tank, painting the exterior of the tank, installing a new inlet and outlet pipe and completing other site improvements including new concrete gutter, pavement, and grading for drainage. **3) Waite Street 2.4 MG Reservoir -** Large diameter potable water welded steel tank including installation of valves, fittings, and other water system appurtenances on District-owned property. **4) Gafford Tank Erosion Repair -** Removal of the storm water collection and drainage system, including the tank overflow drain pipes, inlet, and energy dissipater. **5) Illinois Street Main Replacement -** 4,450 linear feet of a new 12-inch PVC pipeline at Illinois Street from Strickland Avenue to the existing Lash Booster Pump Station and Lash Avenue. The pipeline will cross under Riverside Drive, designation at Highway 74, accomplished by jacking and boring a 20-inch steel casing under the road and inserting the 12-inch water pipeline inside. **6) Trilogy Well Equipping -** Construction of the existing Trilogy Well Equipping, approximately 500 linear feet of 6-inch pipe from the well to the TVP pipeline, installation of pressure controlling equipment, and metering devices.

Lake Gregory Dam and Basin Rehabilitation Project, *Crestline, C*A. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. A 30-foot high horizontal section of Lake Gregory Dam beginning approximately fifty (50) feet from the crest and extending from abutment to abutment was poorly compacted when the dam was constructed. Investigation conducted to date revealed that the subject area is inconsistent with the properly constructed and compacted areas above and below this section.

Reservoir No. 3 Retrofit, Benson Avenue Treatment Plant, *Chino, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical and laboratory testing. The 1.50-MG capacity steel reservoir is located within Benson Treatment Plant at 11840 Benson Avenue, Chino, CA. Built in 1961, the above grade reservoir is 44 feet in height. The purpose of our investigation was to verify existing foundation condition and provide geotechnical and seismic parameters to retrofit the existing water reservoir to comply with the present seismic codes.

Alta Mira and Blue Crystal Reservoir Rehabilitation, *Poway, CA.* Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. The City of Poway planned to rehabilitate the 2 tanks to extend their useful life. Harper and Associates Engineering, Inc. has been contracted to complete seismic safety and structural evaluations of the reservoirs in the preparation for the planned rehabilitations. The Blue Crystal reservoir, located at 14150 Murel Trail in Poway, California, is a 700,000 gallon steel tank originally constructed in 1981. The height of the tank is 23 feet and diameter is 74 feet. The Alta Mira reservoir, located on Sunset Mountain Way in Poway, California, is a 1.0 million gallon (MG) steel tank originally constructed in 1981. The height of the tank is 24 feet and diameter is 86 feet.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Big Bear Water System Improvements, *Big Bear, CA.* Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. The major components of the proposed water system improvements include a pumping plant, a reservoir, and two water transmission mains. These projects were the Arrastre Well Pumping Plant project which included equipping an existing well, construction of a pump station, and associated above-grade improvements; the Angel's Camp Reservoir which was a one million-gallon, welded steel construction, municipal water reservoir; the Angel's Camp Reservoir main which was 12 inches in diameter and 2,750 feet in length; and the Arrastre Creek Well main which was 8 inches in diameter and 5,600 feet in length.

Reservoir No. 8 Water System Improvements, *Norco, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. The water system improvement project included approximately 7,900 linear feet of 12-inch-diameter pipeline at Stagecoach Road, Trail Street, River Road, and Bluff Street in the City of Norco, California. The pipe invert was about five (5) feet below existing ground surface and open cut-and-cover techniques were utilized. The project also included two 4-million-gallon, 100-foot-diameter, above-grade water reservoirs and one 10' x 30' masonry wall building to house pumping equipment. They were located on the south side of Bluff Street.

Texas Street Reservoir and Booster Station, *Redlands, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. The project complex was located southwest of the intersection of West Pennsylvania Avenue and Texas Street in the City of Redlands, California. The project consisted of a 750,000 gallon steel reservoir; a 750-gpm exterior booster station with can-type vertical turbine pumps; six foot block sound walls; and associated concrete slabs, to be located within the existing Texas Street reservoir complex.

Adelfa Booster Station, *Lake Elsinore, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation, materials testing and inspection services. The project consisted of the construction of a booster station located at the southeast corner of Adelfa Street and Akley Street in the Lake Elsinore area of Riverside County, California. The booster station was a 52' x 20' wood frame wall building used to house a control room, chemical room and equipment room. The project also consisted of an asphalt paved area.

11 Water Reservoir Foundation Design Recommendations, San Bernardino Municipal Water Department, *San Bernardino, CA.* Principal in Charge. Provided technical oversight and budget allocation for the geotechnical and laboratory testing. The project consisted of providing reports showing the results of our geotechnical investigation performed for eleven existing reservoirs located at seven different sites in the City of San Bernardino, California. The purposes of the investigations were to determine the nature and engineering properties of the subsurface soils, to provide site earthwork, design and construction recommendations for the proposed seismic retrofits of the existing reservoirs.

New Reservoir at Site 3A, Cucamonga Valley Water District, *Rancho Cucamonga, CA.* Principal in Charge. Provided technical oversight and budget allocation for the geotechnical and laboratory testing. The project will consisted of the design of two new reservoirs located at the Reservoir 3A site, in Rancho Cucamonga. A new 60-foot diameter tank was constructed west of the existing tank while it remained in service. Once the new 60-foot tank was in service, the existing 105-foot concrete reservoir was demolished and replaced by a new 105-foot diameter tank.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Dillon Road Reservoir, *Corona, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical and laboratory testing. The 100,000-gallon, welded steel, Reservoir 4701-2 was approximately 32.5 feet in diameter. The new reservoir was located east of the existing reservoir, and was centered close to the current fence line. It replaced two existing 10,000-gallon temporary plastic tanks. The existing 21,000-gallon, welded steel Reservoir 4701 remained in place at the booster station.

Rattlesnake Reservoir Evaluation, *Fallbrook, CA*. Principal in Charge. Supervised the geotechnical investigation, performed analyses and prepared the geotechnical report. The Rattlesnake Reservoir is located at the end of the Agua Hill Road Fallbrook, California. The 3.6 MG Reservoir has a diameter of 114 feet and a height of 48 feet. The steel Reservoir was installed in 1955 by Chicago Bridge and Iron Company.

Rancho Las Flores 5MG Reservoir, Booster Pump Station & Pipeline, *Coachella, CA.* Principal in Charge. Provided technical oversight and budget allocation for the geotechnical and laboratory testing. The project consisted of construction of an at-grade 5.0-MG steel reservoir and an at-grade booster pump station housed inside an approximately 600 square-foot masonry wall building. The proposed at-grade steel reservoir will be about 164 feet in diameter. The facility will accommodate a chemical room, a pump room with a capacity to hold four pump cans, an electrical room, office, and associated electric generator pad.

WDI-1 & WDI-2 Booster Pump Station, *Victorville, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation, and contract management for the geotechnical investigation. The project consisted of the construction of the WDI-1 & WDI-2 Booster Pump Station in Victorville, CA. It will be an approximately 30' x 30' masonry block wall building with slab-on-grade. There will be piping running from the pump station to connect in the street and stub south of Sycamore Street for future extension.

Verdemont Water Infrastructure Improvement Projects, *San Bernardino, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing, and materials testing and inspection. The project involved construction of a 16 MGD Palm Pumping Station, 9 MGD Magnolia Booster Station, and 2000' of 24" diameter Palm Connector Transmission Main.

2.5 MG Steel Water Tank and Pump Station, Plant No. 3 Facility Upgrades, *Indio, CA*. Principal in Charge. Provides technical oversight and budget control for the geotechnical observation and testing, and materials testing and inspection. The project involves the construction of a 2.5 MG bolted steel water tank and booster pump station. The reservoir will be 120 feet in diameter and 25 feet high. The project will also include improvements to existing well 3C building and piping modification, construction of underground vault for the pump cans and suction piping, and other site upgrades and modifications.

5.0 MG Water Reservoir and Pump Station, Indio Water Authority Facilities Upgrade at Plant No. 1, *Indio, CA*. Principal in Charge. Provided technical oversight and budget control for geotechnical investigation, observation and testing. The project consisted of construction of 5.0 million gallon concrete reservoir and pump room structure, located within the Indio Water Authority Plant No. 1, in the city of Indio, Riverside County, California. The reservoir is a rectangular structure 210 by 145 feet, and 25 feet high.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Sand Canyon Pump Station Rehabilitation, *Irvine, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The proposed improvements will consist of small at-grade housekeeping slabs, a small vault constructed at a maximum of eight (8) feet below grade, and 4 to 24-inch diameter pipelines constructed at a maximum of five (5) feet below grade. The improvements will be connected to the existing below-grade pipelines.

Alessandro Booster Station Replacement, *Riverside, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The project site was located at 6501 Alessandro Boulevard in the City of Riverside, California. The approximate elevation at the site is about 1,300 feet above Mean Sea Level (MSL). The site was to be developed to construct below-grade vertical pumping units housed on reinforced concrete slab approximately 17 feet by 37 feet in plan dimension, and at about three (3) feet below grade, and ductile iron pipeline connections.

Frances Mary Booster Pump Station, *Riverside, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The project site was located on the east side of Mary Street, between Lincoln Avenue and Victoria Avenue in the City of Riverside, California. The approximate elevation at the site is about 940 feet above Mean Sea Level (MSL). A booster pump station, approximately 50 feet x 20 feet in plan dimension was constructed about 15 feet below grade. Associated with the pump station construction was ductile iron pipeline connections.

North Bay Intake Pump Station, *Lake Arrowhead, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The North Bay Pump Station project was located at 27877 Hamiltair Drive within the Hamiltair Property gated community in Lake Arrowhead, California. The pump system lifted water from Lake Arrowhead to the Bernina Water Treatment Plant. The project consisted of an off-shore pump station and an on-shore pump station.

Cactus Avenue Pump Station, *Riverside County, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing, and materials testing and inspection services. The project included construction of the Cactus Avenue Pump Station, a potable water pumping facility. The pump station was about 160 feet long, 40 feet wide and 20 feet high and placed about 10 feet below ground surface.

Tenaja Pump Station, Murrieta Area, *Riverside County, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation.The proposed Tenaja Pump Station will be housed within a building, and will include a separate control room, disinfection facilities (on-site sodium hypochlorite generation), and emergency stand-by power. In addition, the siting of the proposed facilities will require the relocation of the existing 2550/2260 Inter-tie.

New 2-Million Gallon Reservoir, Upper San Gabriel Valley Municipal Water District, *West Covina, CA*. QA/QC. Provided quality control oversight for the geotechnical study report. The project consists of a new two million gallon reservoir, a pump station and two segments of pipelines (16 and 24 inches diameters) on access road.

Well No. 29, *Beaumont, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation, observation, and testing. The rectangular shaped property is located about 60 feet south of Cherry Valley Boulevard, at the west boundary of Egg

Ranch. The project included construction of cast-in-place concrete pump vault about 15 feet deep, masonry buildings for chemical/electrical facilities, pads for transformer and a future generator, asphalt concrete paved access road, and 18"-inch discharge pipe.

Well No. 5 Improvement Zone J, *Oak Hills, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing. The project consisted of grading of the pad and driveway for proposed Well No. 5 – a 16-inch diameter well with a proposed depth of 1,300 feet below ground surface to be used for a potable water supply.

Winchester Ponds, *Riverside County, CA*. Principal in Charge. Provided quality control oversight for the geotechnical study report. The Winchester Ponds site is located northwest of the intersection of Simpson Road and Leon Road in the Winchester area of Riverside County, California. The site, which is owned and operated by Eastern Municipal Water District, includes three large, unlined, recycled water storage ponds with a combined capacity of approximately 510 million gallons. The Winchester Ponds Site Optimization project includes construction of a pump station at the northwest corner of Pond B, construction of a pipeline near the western sides of Ponds B and C, deepening of the whole Pond C by about four (4) feet and localized deepening of Ponds A and B.

Seeley Creek Treatment Plant and Pump Station Slope Failure, *Crestline, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical evaluation. The project involved planned repair of the flood damage in the vicinity of the Seeley Creek Treatment Plant and Pump Station in the Crestline area of San Bernardino County, California.

Perris Well No. 86 and No. 87, *Perris, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The project involved construction of 9.5 feet wide by 17.5 feet long masonry block building to house the electrical equipment, various pipelines, construction of a detention basin and other site improvements.

Outfitting Of Well No. 25 and No. 26, *Beaumont, C*A. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation, observation and testing. The proposed outfitting consisted of one cast-in-place concrete vaulted well building approximately 15' deep by 31' long by 16' wide, one above-ground masonry building for chemical/electrical facilities approximately 14' tall by 20' long by 23' wide, asphalt concrete paved access road, and pipeline installation (approximately 4' to 6' deep).

Wellhead Treatment - Well No. 41, *Ontario, CA*. Principal in Charge. Provided technical oversight and budget allocation for materials testing and inspection services. The project consisted of the installation of approximately 1,500 linear feet of 12" diameter pipeline between Well Number 41 and the old Well Number 18 site (site of the proposed IX facility). The IX facility had four IX vessels supported on a concrete pad (35' x 35'), and a chlorine building also supported on a concrete pad. The treated water was transported in a new buried pipe about 200 feet to tie with the existing distribution system. It also included a 20' x 20' at-grade concrete slab masonry wall building to house wellhead treatment equipment. The building was founded on shallow footings.

MVWD Plant 30 Wellhead Improvements, *Montclair & Ontario, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation. The project consisted of improvements of a Wellhead Treatment Plant within the existing Well 30 to

treat water from Montclair Valley Water District (MVWD) Wells 30 and 32, and from Well 33. The project will provide treatment for 1,2,3-TCP, perchlorate, and nitrate at Wells 30, 32, and 33. Well 33 is the only one of the 3 wells with current treatment consisting of more than disinfection. MVWD intends to bring the treated Well 33 water and untreated Well 32 water to the Well 30 site for granular activated carbon (GAC) and partial ion exchange (IX) treatment.

Well No. 13 Improvements, *Jurupa Valley, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical investigation, materials testing and inspection services. The project consists of the demolition of the existing well equipment building and constructing a new masonry block wall building. It will also include pipe replacement/relocation within the site.

Wells No. 45, 46, and 47, *Ontario, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The project consisted of planned construction of Wells No. 45, 46, and 47 within three different sites in Ontario, California. Each site was planned to include a building to house pump, disinfections equipment, standby power generation unit, electrical feed system with approximately 2,000 linear feet of pipelines.

Well No 9 Equipment Building, *Torrance, CA*. QA/QC. Performed quality control oversight for the geotechnical investigation. The project included planned construction of one story equipment building and related facilities for the proposed Well No. 9.

Ontario Municipal Utilities Company Wellhead Treatment Facility, *Ontario, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The proposed wellhead treatment facility for Well No. 41 is located on the old Well No. 18 site on the southwest side of the intersection of East 4th Street and North Hellman Avenue, Ontario, California. The wellhead treatment facility has four ion exchange (IX) vessels supported on a 35' x 35' concrete pad, and a chlorine building also supported on a concrete pad. The treated water is transported about 200 feet in a new buried pipe to tie with the existing distribution system. The facility includes a 20' x 20' at-grade concrete slab masonry wall building to house wellhead treatment equipment. The facility has concrete driveway, asphalt concrete pavement, catch basins, and associated drain pipes. The project also consists of the installation of approximately 1,500 linear feet of 12" diameter pipeline between the treatment facility and Well No. 41.

Monte Vista Water District Well No. 31, *Montclair, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing. The project site was within the existing Well No. 31 site located at the northeast intersection of Richton Street and Monte Vista Avenue in Montclair, California. The project included construction of a pump house and chemical storage building.

Regional Plant 1 Liquid & Solid Capacity Recovery, IEUA, *Ontario, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management during the design phase. The approximately 70 acre Regional Plant 1 is located at East Walnut and South Archibald, Ontario, CA. The project consisted of the RP-1 Liquid Capacity Recovery and Solids Recovery Project which included replacing headworks equipment, replace primary clarifier, expand pump station, convert sludge secondary system with MBR system, modify lagoon no. 3, replace odor control system, replace solids thickening systems and construct 3 new acid digesters.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

IEUA Primary Effluent Conveyance, *Ontario, CA.* Principal in Charge. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management during the design phase. The project located is at the 70 acre Regional Plant 1 located at 2662 East Walnut Street, Ontario, California. The project will include a 48-inch diameter pipeline, new manhole, pipeline connection between wet wells and an underground concrete vault measuring 17 feet x 14 feet x 3 feet.

IEUA Regional Plant 1 Sodium Hypochlorite Facility, *Ontario, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management during the design phase. The approximately 70-acre IEUA Regional Plant 1 is located in Ontario, California. The proposed improvements are located south of the existing tertiary filter banks and east of the waste wash water holding basin. The vault is also located south of East Walnut Street and near the north of two tanks. The disinfections improvements project consisted of 4 circular steel tanks contained within hexagonal concrete structures and a valve vault. The tanks will be installed on a 93 foot long by 33 foot wide concrete slab. The roof on top of the tanks will be supported by beams which will be supported on columns. Each column will rest on an isolated square shallow footing.

IEUA Regional Plant 1 Pump Station Upgrades, *Ontario, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management during the design phase. The upgrades involved the design and construction recommendations for replacement of existing 2,500 gallon bladder surge tank with a 7,500 gallon water-air surge tank, construct 6 to 12-inch pressure surge relief valve, construction slab-on-grade to house pump equipment and associated connecting pipelines.

Regional Tertiary Plant 5, IEUA, *Chino, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. This project consisted of a 1,200-square foot pump station at grade, a 750,000-gallon reservoir, and construction of approximately 21,000 linear feet of four inch to 30-inch-diameter pipe.

Regional Plant 1 Pump Station, IEUA, *Ontario, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. The pump station comprised of an approximately 20-foot-wide and 60-foot-long slab at the grade level to house the pumps, and a 20-foot-deep below-grade wetwell. The project also included the construction of below-grade inlet and outlet piping.

5 MG Potable Water Tank, Cherry Valley, *Riverside County, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation, observation and testing. The subject site (approximately 2 acres) is located north of Cherry Valley Boulevard and east of the extension of Hannon Road, within the Community of Cherry Valley in an unincorporated area of Riverside County, California. The project consisted of construction of a five (5) MG potable prestressed concrete water tank (2,650 Pressure Zone), 161 feet in diameter and 36 feet high. The project also involved construction of vaults and pipelines (30-inch to 36-inch cement-mortar lined ductile iron pipes), approximately four (4) to six (6) feet deep and 700 feet long.

2 MG Recycled Water Tanks No. 1 & 2, *Riverside County, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The project consisted of construction of Tank No. 1, and future construction of Tank No.2 2-million gallon (MG)

recycled water tank sites located within the community of Cherry Valley in Riverside County, California. Both still tanks are 155 feet in diameter and 16 feet high founded on at-grade concrete ring foundations.

Two Sites for Proposed Two 2.5 MG Steel Tanks, *Riverside County, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation for two proposed tank sites, associated access road, and pipeline for Eastern Municipal Water District.

Water Storage Tanks Henry Tate Water Treatment Plant, *Redlands, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation for design of two water storage tanks within the existing Henry Tate Water Treatment Plant, located at 3050 Mill Creek Road, in the city of Redlands, California. The two (2) existing water storage tanks will be demolished and replaced with new tanks having similar capacity at the same location. Both new tanks will be welded steel with ring wall foundation.

Indio Water Authority Facilities Upgrade at Plant No. 1 5.0 MG Water Reservoir, *Indio, CA*. Principal in Charge. Provided technical oversight and budget control for geotechnical investigation for design of reservoir. The project will consist of construction of 5.0 million gallon concrete reservoir and pump room structure, located within the Indio Water Authority Plant No. 1, in the city of Indio, Riverside County, California. The reservoir will be a rectangular structure 210 by 145 feet, and 25 feet high.

Two 1.5 MG Water Reservoirs and a Booster Station at Plant M2, *Montebello, CA*. QA/QC. Provided quality control oversight for the geotechnical investigation, observation, and materials testing and inspection. The project consisted of the construction of two 1.5 million gallons steel water reservoirs and a 3,000 gpm (gallons per minute) booster pump station. The project also included installation of two steel water pipelines, 30 inch and 24 inch diameters, each about 550 feet long.

Plant 37 Replacement, *San Bernardino, CA*. Principal in Charge. Provided technical oversight including review of subsurface conditions along the pipe alignment and other associated structures. Assisted in preparing design recommendations and reviewed the final geotechnical investigation report. The Plant 37 Replacement Project includes construction of a buried 4 million gallon reservoir, booster pump station, altitude valve, observation vault, pressure reducing station, isolation valve vault, inlet/outlet and under-drain pipelines, and a fifteen-foot wide asphalt access road. Piping from the reservoir extends from the reservoir south to Foothill Drive.

5 MG Reservoir, *Rialto, CA*. Principal in Charge. Provided technical oversight including review of subsurface conditions along the pipe alignment and other associated structures, and assisted in preparing design recommendations and reviewed the final geotechnical investigation report. This project consisted of a proposed new reservoir in Rialto. The proposed reservoir is to be pre-stressed concrete, 185 feet in diameter and 27 feet in height.

Vineland Tank, *Cherry Valley, CA*. Principal in Charge. Provided technical oversight including review of subsurface conditions along the pipe alignment and other associated structures, and assisted in preparing design recommendations and reviewed the final geotechnical investigation report. The tank is located in an unincorporated area of Riverside County within the community of

Cherry Valley. The 2 MG tank is adjacent to an existing District owned 1 MG above ground steel tank. The facilities constructed include: One 104' diameter by 32' high steel storage tank constructed on an at-grade concrete ring foundation, approximately six-foot high masonry block wall, asphalt concrete paved access road, pipeline installation (approx. 4' to 6' deep); pipeline material will be ductile iron or cement mortar lined and coated steel pipe.

Creag/Vista/Homeland Tank, *Riverside County, CA*. Principal in Charge. Provided technical oversight including review of subsurface conditions along the pipe alignment and other associated structures and assisted in preparing design recommendations and reviewed the final geotechnical investigation report. The project consists of construction of a 4.6 MG welded-steel water tank at grade. The circular water tank measures 120 feet in diameter and 40 feet in height. Earthwork for the tank pad preparation included excavation and backfilling of on site-storm drains.

9.1 M.G. Coldwater Canyon Replacement Reservoir, *Beverly Hills*, California. QA/QC. Provided quality control oversight for geotechnical investigation and grading and materials testing. The project involved demolition of the existing 7.68 million gallon (MG) concrete reservoir and the construction of a new 9.10 MG concrete reservoir at the subject site on Coldwater Canyon Drive in Beverly Hills.

Evans Reservoir Rehabilitation, *Riverside, CA*. Principal in Charge. Provided technical oversight and budget control for geotechnical investigation. The planned construction involves new containment walls around the outside of the reservoir and to seal the cracks in the structure that are responsible for the leaking. The new containment walls are to be supported by cast-in-drilled-hole concrete pile foundation.

Recharge Basin Berm Improvement, *San Bernardino County, CA*. Principal in Charge. Provided technical oversight and budget control for geotechnical investigation. The project consisted of the design and reconstruction of berms, spillways, culvert and outlet structures and access roads within the 8th Street, San Sevaine, and Hickory basins in San Bernardino County, California.

Montclair Basin Diversion Structure, *San Bernardino County, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation. The project consisted of design and construction of the Montclair Basin Diversion Structure, including a rubber dam, associated pipelines, and a flow diversion manhole structure.

Water Reservoir Tank Replacements, *Beverly Hills, CA*. QA/QC. Provided quality control oversight for the geotechnical investigation. The project involved removal and replacement of existing water reservoir tanks with redesigned steel welded tanks with similar capacity at the present locations, on site piping relocation and seismic retrofit for the associated existing five booster pump stations.

Replacement Of Water Reservoir Tanks And On-Site Piping And Seismic Retrofit Of The Five Pump Stations, *Beverly Hills, CA.* QA/QC. Provided quality control oversight during the geotechnical study. The five reservoir sites are located adjacent to Loma Vista Drive and Coldwater Canyon in the northerly portion of the City of Beverly Hills, California. The project consists of the removal and replacement of the existing tanks with redesigned steel welded tanks with similar capacity at the present locations, on site piping relocation and seismic retrofit for the associated existing five booster pump stations.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

4 MG Steel Tank and 6,700 LF of Supply Line, *Riverside, County, CA*. Principal in Charge. Provided technical oversight and budget control for geotechnical investigation. The project involved proposed construction of a 4.0-MG steel water tank located southwest of the intersection of Benton Road and Pourroy Road in the French Valley Area, Riverside County, California, approximately 1,200 linear feet of asphalt concrete-paved access road and approximately 6,700 linear feet of 24-inch diameter recycled water supply line.

County Club Reservoir Rehabilitation, *Redlands, CA*. Principal in Charge. Provided technical oversight and budget control for geotechnical investigation. The project consisted of rehabilitation of the existing Country Club Reservoir No. 1, which is a circular, partially buried potable water concrete reservoir with a storage capacity of 1-million gallons. The reservoir was planned to be rehabilitated using a steel lining inside.

Five Reservoir Tank Sites, *Beverly Hills, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation and seismic evaluation. The five reservoir sites are located adjacent to Coldwater Canyon in the northerly portion of the City of Beverly Hills, California. Site No. 3A is located on the westerly side of the canyon, while the other four sites (No. 4B, 5, 6, and 7) are located almost up to the ridgeline along the easterly side of the canyon.

Rattlesnake Reservoir Evaluation, *Fallbrook, CA*. Principal in Charge. Provided technical and budget oversight for the project which consisted of a geotechnical and seismic evaluation of the Rattlesnake Reservoir site located in the City of Fallbrook, San Diego County, California. The steel 3.6 MG Reservoir has a diameter of 114 feet and a height of 48 feet and was installed in 1955.

Reservoir Site 18 Retrofit, *Upland, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical and seismic evaluation. The project consisted of seismic retrofit of three existing reservoirs. The subject reservoirs are located within Plant No. 18, located approximately 1,200 feet southwest of the intersection of West Foothill Boulevard and North Central Avenue in Upland, California.

Domecq and La Loma Reservoirs, *Colton, CA*. QA/QC. Performed quality control oversight for the geotechnical investigation and seismic evaluation for the existing 3-million gallon Domecq and 3-million gallon La Loma Reservoirs located in the city of Colton, San Bernardino County, California.

Northwest Area Recycled Water Pipeline and Pump Station, *Cities of Rancho Cucamonga, Upland, and Ontario, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The project consisted of approximately 31,000 linear feet of 24-inch diameter recycled water pipeline (Northern and Southern Segments) within the cities of Upland, Rancho Cucamonga and Ontario in the County of San Bernardino, California for the Inland Empire Utilities Agency. The project also involved an 800 square-foot slab-on-grade pump station composed of masonry block, a paved access road, various pipelines, and a 352 square-foot restroom building.

Palm No. 3 Reservoir, *San Bernardino, CA*. Principal in Charge. Provided technical oversight and budget control for the materials testing and inspection for the project, which consisted of construction of a 4 MG pre-stressed concrete reservoir located northwest of the intersection of Palm Avenue and Cajon Boulevard in San Bernardino, California.

2.1 MG Steel Tank, *Menifee, CA*. Principal in Charge. Provided technical oversight and budget control for the project which consisted of construction of 2.1 MG capacity steel tank with a high water level of 1,853 feet, and design pad elevation of 1,818 feet above mean sea level (amsl), 700 linear feet of access road from Daily Road to the tank location, a 0.15 MG overflow detention basin on the northeast side of the intersection of Daily Road with an access road to the tank, construction of approximately 3,000 linear feet of transmission main from the Daily II tank, abandonment and demolition of the existing Daily I storage reservoir.

Barstow Pump Station & Pipeline, *Barstow, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation and the evaluation of soil fill. The project consisted of the construction of a below-grade influent pump station (26' by 30' by 22' deep), an at-grade solids handling facility (50' by 65') and a new sludge conveying pipeline. The improvements were constructed at a site located at the eastern terminus of Riverside Drive, between Interstate 40 and the southern bank of the Mojave River in the City of Barstow, San Bernardino County, California.

JCSD-RCSD Booster Pump Station, *Jurupa Valley, CA*. Principal in Charge. Provided technical oversight and budget control. The project consisted of constructing a 45'x50' booster pump station that was an at-grade metal building. The outside of the building area was covered with asphalt concrete and decomposed granitic material. The project also consisted of constructing approximately 1,700 linear feet, 24-inch diameter pipeline along Mission Boulevard between the proposed booster pump station and the existing booster pump station located west of Golden West Avenue. The pipe invert depth was about 6 to 8 feet below ground surface.

Daily Road II 2.1 MG Steel Tank & Detention Basin, *Menifee, CA.* Principal in Charge. Provided technical oversight and budget control. The project consists of the construction of the Daily Road II 2.1 million gallon (MG) steel tank, a 0.15 MG overflow detention basin, approximately 700 linear feet of access road to the steel tank from Daily Road, and approximately 3,000 linear feet of supply line along Daily Road that connects the steel tank to the existing pipeline on the Scott Road located in the City of Menifee, California.

2.5 MG Tank & Pump Station, *Hesperia, CA.* Principal in Charge. Provided technical oversight and budget control. The project consisted of the design and construction of a 2.5 million gallon water tank, pump station, and associated pipelines and appurtenances located at 13500 Live Oak Street, Hesperia, CA. The proposed water tank diameter was 115 feet with a height of 30 feet and was constructed at-grade with a 4-foot-wide by 2.5-foot-deep ring wall foundation. A second future water tank is proposed with a footprint of 25 feet by 50 feet. The building was a one-story masonry block wall structure founded on shallow footings with a slab-on-grade.

Ahwahnee Lift Station, *San Bernardino County, CA.* Principal in Charge. Provided technical oversight and budget control. The Ahwahnee Lift Station Wet Well Expansion included installation of two 10' x 40' x 8' pre-cast concrete tanks and some miscellaneous piping, valving, and manholes construction. The concrete tanks were located about five (5) feet from the

existing lift station which is approximately 17' x 20' in plan area. The approximate elevation of the base of the proposed tanks will be 6,498 feet above MSL. The proposed tanks were connected by 24-inch diameter CL-235 PVC pipe at the base of the tanks. Tank No. 1 and wet well were connected by 12-inch diameter overflow pipe and 8-inch diameter drain pipe.

Marywood Pump Station Relocation, *City of Orange, CA*. Principal in Charge. Provided technical oversight and budget control. The project site was located in the City of Orange, California, on the northwest side of Villa Real Drive, approximately midway between Santiago Boulevard and Ridgepark Lane. The site was on an approximately 25-foot high, approximately 1.6:1 (horizontal:vertical) graded slope which ascended from East Villa Real Drive to a parking lot for the Marywood Catholic Diocese. The project included three turbine pumps housed in a single-story building, and associated piping, utilities, flatwork, and fencing.

SGVWC Plant F31 Reservoir, *Fontana, CA*. Principal in Charge. Provided technical oversight and budget control. The proposed Plant F31 Project site was located at 16177 Baseline Avenue in the City of Fontana, California. The project consisted of the construction of one new 0.75-million-gallon (MG) water reservoir, 65 feet in diameter and 30 feet high; a concrete block building, 33.33 feet wide by 53.33 feet long to house booster pump equipment; a water production well; associated pipelines; concrete block walls and wrought iron fencing; pavement and landscaping.

Sand Canyon Pump Station Relocation, *Irvine, CA*. Principal in Charge. Provided technical oversight and budget control. The site was located at the toe of the slope of Sand Canyon Dam. Sand Canyon Dam is a 58-foot high earth dam with a crest elevation of 202 feet. The Irvine Ranch Water District (IRWD) was planning to reconstruct the Sand Canyon Zone "A" Pump Station with a strainer system and disinfection system to discharge reclaimed water from Sand Canyon Reservoir to the Zone A system without rerouting the water to the Michelson Water Reclamation Plant (MWRP). The proposed improvements consisted of small at-grade housekeeping slabs, a small vault constructed at a maximum of eight (8) feet below grade, and 4 to 24-inch diameter pipelines constructed at a maximum of five (5) feet below grade.

Newport Beach Pump Stations Rehabilitation, *Newport Beach, CA*. Principal in Charge. Provided technical oversight and budget control. The pump station projects consisted of the following. The Back Bay Wastewater Pump Station Project consisted of a new standby generator with automatic transfer switch which was constructed just west of the existing driveway. This addition required a 2 foot high retaining wall to the northwest. A new pump control unit was constructed on the east side of the existing driveway at the toe of the ascending slope. The Polaris Wastewater Pump Station Project which involved the replacement of the existing motor controls with a standby generator and automatic transfer switch. The structure was 11 feet long by 7.5 feet deep. The existing structure was demolished and the slope was cut back about 10 feet to accommodate the new standby generator and motor control panel. A block retaining wall about 22 feet long and about 5.5 feet high was constructed at the toe of the slope. The replacement and construction of a the Bren Tract Pump Station which was about a 20 foot by 25 foot in plan dimension, and had a depth of 15 feet. The new pump station included new electrical controls, a standby generator with an automatic transfer switch and access hatches.

Lake Gregory Swim Area, *Lake Gregory, CA*. Principal in Charge. Provided technical oversight and budget control of the testing of excavated sediment. The San Bernardino County Regional Parks Department excavated accumulated sediment from the public swim area at the western end of Lake Gregory in May 2013. The purpose of the work was to restore the swim area to its original depth. The excavated sediment was staged along the shoreline of the swim area and then moved by dump truck to a stockpile in the parking lot at the northwestern corner of the lake.

Recycled Water/Wastewater Treatment

Westside Water Reclamation Plant - Phase III Expansion, *Victorville, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation, and contract management for the geotechnical investigation. The project is within the plant boundaries of the Victor Valley Waste Water Reclamation Authority (VVWWRA) Westside Water Reclamation Plant, located at 20111 Shay Road in Victorville, California. The Phase III-A Expansion includes construction of the Membrane Bioreactor Complex (MBR), Recycled Water Pump Station, and the Power and Administration Buildings; as well as permanent and temporary piping between the MBR building and existing facilities. Phase III-B includes the Headworks, Solids Dewatering Buildings, Fog Receiving Station, WAS Daft, conversion of existing Percolation Basin into Primary Equalization Basin, and miscellaneous piping and electrical conduits between the new and existing facilities.

Beaumont WWTP and Brine Pipeline, *Beaumont, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation, and contract management for the construction phase. The project consists of the expansion of the Beaumont Treatment Plant located in Beaumont, California. The proposed expansion consists of 2 aeration/anoxic basins, an equalization basin, headworks, UV disinfection system, a RO system, and a Membrane Bio-Reactor (MBR) Treatment Facility. Site development will include mass grading, building pad preparation, and underground utility installation. In addition, a 14-inch diameter brine pipeline provided in two phases will be constructed using open cut-and-cover and bore-and-jack technique.

Lytle Creek North Recycled Water Facility Screw Press, *San Bernardino, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation, and contract management for the geotechnical investigation. The Lytle Creek North Water Recycling Facility is at Institution Road in San Bernardino, California. The project included demolishing the existing equipment and super structures located on the existing concrete pad to provide a suitable working pad and equipment foundation for a screw press and dewatered sludge auger. A 10.5’ x 12.5’ bridging slab was placed on top of the existing pad. It also included construction of a covered truck loading pad on the south side of the existing sludge screening pad. The covered structure was 47’ x 28’, covering the existing concrete pad structure and extending approximately 12 feet south of the existing pad. Drainage improvements were also included for the truck loadout pad to connect to existing piping.

Monroe Basin Bypass, *Riverside, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation, and contract management for the geotechnical investigation and percolation testing. The Monroe Basin Bypass was approximately 300 linear feet of 48-inch diameter concrete pipe under Monroe Street. The basin was bounded on the southwest by park ball fields, on the north by railroad tracks, and on the southeast by residences. It was utilized as a storm water management basin by the County of Riverside Flood Control District, and

receives rainwater runoff from inlets on the eastern and southern ends. The runoff drains via channels on the west side. The pipe depth was about 20.0 feet below existing ground surface. We understand the pipe was installed using the open cut and cover technique.

Margaret H. Chandler WRP Improvements, San Bernardino, CA. Principal in Charge. Provided technical and budget oversight, resource allocation, and contract management for the geotechnical investigation. The site was located at 300 Chandler Place, San Bernardino, California. The project consisted of the addition to the Margaret H. Chandler Water Reclamation Plant of two rectangular concrete-lined equalization ponds measuring 220 feet long by 140 feet wide by 18 feet deep, one pump station approximately 40 feet long by 30 feet wide located approximately 15.0 to 30.0 feet bgs, a 36-inch diameter, 500 foot long pipeline connecting to the existing headworks structure, and paved asphalt concrete access roads.

Fallbrook Public Utility District Waste Water Treatment No. 1, *Fallbrook, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project was consisted of improvements to the Fallbrook Public Utility District (FPUD) Treatment Plant No. 1, located at 1425 Alturas Road in the unincorporated community of Fallbrook, San Diego County, California. The project included a new lift station, wetwell with vertical turbine pumps, a slab on grade building and canopy to house blowers, new secondary clarifier, 3-4 new bed filters, new earth wall to spilt the existing equalization basin, and miscellaneous yard structures including small vaults, pads and pavement.

Central Resin Regeneration Facility (CVWD), *Thermal, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The 10-acre Central Resin Regeneration Facility (CRRF) project consisted of two buildings with four on-site evaporation ponds. The CRRF consisted of areas for brine treatment, containment of granular activated carbon resin, saturated brine, and other chemicals, back wash, an electrical room, an operations area for plant personnel and access for trucks unloading the various chemicals. The one-story process building will consist of reinforced rigid concrete walls supported on a reinforced concrete mat foundation. The chemical containment areas will consist of reinforced concrete perimeter walls supported on the mat foundation. The one-story operations building will consist of reinforced concrete walls supported on a floating floor slab.

Gilbert Street Perchlorate Well Head Treatment Facility, *San Bernardino, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project was located on the north side of East Gilbert Street, approximately 180 feet east of North Waterman Avenue in the City of San Bernardino, California. It consisted of the construction of a wellhead perchlorate treatment system at the Gilbert Street facility. The improvements included perchlorate treatment tanks (4 tanks, about 8 feet in diameter), pre-filters (2 filters, about 4 feet in diameter), 8’ x 12’ chlorination building, 12’ x 12’ control room, water pipeline, 18’ wide double swing gate and a driveway.

Jurupa Community Services District Storage Pond “C”, *Riverside County, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical evaluation report. The Waste Water Storage Pond ”C” was located within the Jurupa Community Service District (JCSD), Plant 1 facility. The plant is located at 10124 Limonite Avenue, Riverside County, California. Storage pond ”C” is about 31,236 square feet with a water storage capacity of about 1.6 MG. The bottom elevation of the pond is about 654 feet and the top of the berm is 664 feet.

The JCSD is using the pond as a temporary waste water storage facility and the pond bottom and berm slope required lining with concrete.

Perris Island Water Treatment Plant, *Pomona, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation. The project consisted of the construction of one (1), 4,500 square-foot, one-story at-grade building to be located at the intersection of Kellogg Drive and Eucalyptus Lane within the campus of Cal Poly Pomona in the City of Pomona, California. The building housed various equipment associated with water filtration using the Reverse Osmosis technique. The building was constructed of masonry block wall founded on shallow footings.

Lloyd W. Michael Water Treatment Plant, *Rancho Cucamonga, CA*. Principal in Charge. Provided technical oversight and budget control for geotechnical investigation and provides supervision of geotechnical observation and testing during construction. The project consisted of modification of the Lloyd W. Michael WTP located at the southeast corner of Wilson Avenue and Etiwanda Avenue in Rancho Cucamonga, California. The proposed expansion project consists of construction of one (1) basin complex, four (4) filters, one (1) package of washwater treatment unit, and one (1) equalization basin pumping station. In addition, parking lots, driveways, and sidewalks were constructed and various pipelines were installed with diameter ranging between 10 and 42 inches.

John W. North Water Treatment Plant, *Grand Terrace, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation and provides supervision of geotechnical observation and testing during construction. The project consisted of design and construction of a 10-million gallon-per-day water treatment plant. The plant was a treatment building and various pipelines between 6- and 42-inches in diameter. The building and pipelines were up to 15 feet below ground surface (bgs). The project also included construction of a new 1,200 ft access road, which involved both cut and fill slopes.

Facility Expansion, Victor Valley Wastewater Reclamation Authority, *Victorville, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The proposed improvements included additions to the existing plant, construction of additional percolation ponds, 170’ x 105’ rectangular aeration basins, an 80’ diameter secondary clarifier, a 51’ x 35’ upflow filter, and an 18’ x 14” effluent splitter.

Victor Valley Wastewater Reclamation Facility Expansion *Victorville, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The expansions included the construction of a 24’ diameter WAS thickener, a 34’ x 47’ Belt Thickener Building, a 20’ x 38’ Heat Exchange Building, and an 8’ diameter Sludge Holding Tank.

Temecula Valley Regional Wastewater Plant Expansion, *Temecula, CA*. Principal in Charge. Provided technical oversight and budget control for geotechnical investigation, observation and testing. The expansion project is intended to increase the treatment plant capacity to 12 million gallons per day (mgd) and involves the construction of various concrete, conventional wood-frame, and steel-frame structures and modification of the existing structures. The project also includes installation of various pipelines, between 4 to 50 inches in diameter, street subgrade, sidewalk, and curb and gutter.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Hinkley Water Treatment Plant, *Redlands, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical and laboratory testing. The Hinckley plant treats water from the Santa Ana River and the State Water Project aqueduct. A pump and a new section of pipe was added to the plant's static mixer and covers were added to the flocculation basin. The chemical delivery system will be replaced and a small treatment plant will be built so water can be treated and returned to the drinking system.

San Jacinto Valley RWRF Expansion, *San Jacinto, CA*. Principal in Charge. Provided technical oversight and budget control for geotechnical investigation and provides supervision of geotechnical observation and testing during construction. The San Jacinto Valley Expansion Project is located at the existing RWRF site, at 700 North Sanderson Avenue, in the city of San Jacinto, California. The proposed structures include headworks, primary influent splitter box, primary and secondary clarifiers, primary sludge/scum pump station, primary effluent splitter box, APT chemical facilities, aeration basins, blower building, secondary RAS/WAS/Scum pump station, secondary effluent equalization basins, and many others.

Moreno Valley Regional Water Reclamation Facility Rehabilitation, *Moreno Valley, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation, observation and testing. The existing Moreno Valley RWRF site is located at 17140 Kitching Street, Moreno Valley, California. The project involved Headwork Rehabilitation, DSL line replacement, Fuel Cell Cogeneration, and construction of various proposed structures (out-of-specification ponds modifications, 237 linear feet of 48-inch diameter outfall installation, 1,100 linear feet of 48-inch diameter by-pass pipe, construction of a floating pump, a pump discharge lien, 12-inch diameter and 1,350 linear feet, and electrical duct banks).

Perris Valley Regional Water Reclamation Facility Expansion, *Perris, CA*. Principal in Charge. Provides technical oversight and budget control for geotechnical investigation, observation and testing. The existing RWRF site is located southwest of Case Road and Highway 215. The expansion includes 3 primary clarifiers, 5 aeration basins, 3 secondary clarifiers, 1 tertiary filter, 3 chlorine contact basins, 1 solids handling building, 3 digesters, 1 gas storage/sludge holding tank, 5 soil filter odor controls, 1 septage receiving station, 1 tertiary chemical facility, 1 tertiary effluent pond, 2 electrical buildings, 1 primary sludge/scum pump station, 2 secondary RAS/WAS scum pump stations, and 1 chlorine contact basin splitter box.

Henry Tate Water Treatment Plant, *Redlands, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation. The two (2) existing water storage tanks were to be demolished and replaced with new tanks having similar capacity at the same location.

Carbon Canyon Wastewater Treatment Plant, IEUA, *Chino, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. The project consisted of a 1,200-square-foot pump station at-grade, a 750,000-gallon reservoir, and construction of approximately 21,000 linear feet of four-inch to 30-inch-diameter pipe.

New Blower Building, Water Quality Control Plant, *Riverside, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of design and construction of a new Blower Building at the Water Quality Control Plant in the City of Riverside, California. The facility was planned to be a one-story structure planned dimensions of 36 x 70 feet, and 2.5 feet foundation

depth.

Headworks Project, Water Quality Control Plant, *Riverside, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of construction of new facilities as an extension to the existing Riverside Wastewater Treatment Plant, located in the City of Riverside, California. The project included a new headworks structure with an approximate footprint area of 60 feet by 150 feet, a 120-foot-long and 60-foot-wide biofilter about 9 feet below proposed final ground surface, a flow distribution box and a power distribution building, about 2,600 linear feet of pipelines, and new access roadways and parking areas leading to and adjacent to the new structures.

1.5 MGD Expansion of Wastewater Treatment Plant, *Banning, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consisted of design and construction of 1.5 million gallons per day (MGD) expansion to the existing Banning Wastewater Treatment Plant located in the city of Banning, California. The project involved both at-grade and below-grade structures.

Henry N. Wochholz Wastewater Treatment Plant, *Yucaipa, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation, and materials testing and inspection for the project. The proposed MF/UV building is located near the center of the facility, on top of backfill of the detention pond.

Recharge Basins, *Beaumont, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical data report. The project involved evaluation of subsurface conditions within two recharge basins located southeast of the intersection of Beaumont Avenue and Cherry Valley Boulevard, in city of Beaumont, California.

OCWD Groundwater Replenishment System, Fountain Valley, *CA*. Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical observation, materials testing and inspection. The project consisted of modifying the OCWD Groundwater Replenishment System from 70 MGD to 100 MGD. The project involved the Advanced Water Treatment Facility (AWPF) expansion, and the Secondary Effluent Flow Equalization project. The expansion required the construction of several new structures, including two 7.5 MG above-ground steel storage tanks, 1,000 linear feet of 54-inch diameter pipeline, 200 linear feet of 54-inch diameter pipeline, a UV facility for installation of two new UV trains, a decarbonation tower, a lime saturator, and other modifications and upgrades.

Orange County Sanitation District P1-37 Primary Clarifiers 16-31 & Related Facilities, Fountain Valley, *CA*. Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical observation, materials testing and inspection. The project included the construction of 16 new primary clarifiers with support equipment, improvements to existing primary clarifier 6-15 and improvements to primary clarifiers 1-5.

Orange County Sanitation District, P2-66 Headworks Replacement Project, *Huntington Beach, CA*. QA/QC. Provided quality control oversight during geotechnical investigation and hydrogeologic / dewatering investigation for large scale expansion of the Orange County Sanitation District's Plant No. 2 sewage treatment facility located in Huntington Beach, California. The project included new influent diversion structure, grit basins, primary splitter

structure, pump buildings, metering vaults, control buildings, electrical buildings and foul air handling facility.

Orange County Sanitation District, P1-101 Proposed Sludge Thickening, Dewatering and Odor Project, *Fountain Valley, CA*. QA/QC. Provided quality control oversight during the geotechnical study. The project mainly pertains to construction of a new Thickening and Dewatering Facility sludge co-thickening system, and replacement of existing odor control systems. Construction of a new tunnel, pipelines, buried electrical duct banks and expansion of the existing Solids Storage Facility are also planned. The project also includes rehabilitation, upgrade, replacement and/or addition of associated sludge pumping, cake conveyance, chemical feed, ventilation and miscellaneous other structural, mechanical, electrical and control systems.

OCSD P2-105 Digester Ferric Chloride System Rehabilitation, Huntington Beach*, CA*. Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical observation, materials testing and inspection. The project included the replacement of the digester ferric chloride station and associated pipelines and upgrades to the instrumentation and control systems that were currently operating.

Membrane Building, Pump Station, and Well, Azusa Light & Water Canyon Filtration Plant, *Azusa, CA*. QA/QC. Provided quality control oversight during the geotechnical investigation and grading and materials testing. The project included the construction of a new membrane building, a membrane feed pump station and a pretreatment basin, yard pipeline, a 4 MG water storage reservoir, and a new 18 inch 3500 feet long pipeline.

Orange County Sanitation District, P2-90 Trickling Filters Project, *Huntington Beach, CA.* QA/QC. Provided quality control oversight for the geotechnical investigation and groundwater pump tests for upgrade of new secondary treatment facility with a rated capacity of 60 MGD for Orange County Sanitation District's Plant No. 2 located in Huntington Beach, California. The Trickling Filters project consisted of three trickling filters with a diameter of about 150-feet each, six secondary clarifiers with a diameter of about 135-feet each, solid contact tank and sludge re-aeration facility, pump stations, blower building, power building and 108-inch diameter primary effluent conduit.

Orange County Sanitation District P1-100 Sludge Digester Rehabilitation, Fountain Valley*, CA*. Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical observation, materials testing and inspection. The project involved the rehabilitation of 12 digesters at the OCSD Plant 1. The project was intended to repair and replace aging equipment, such as pumps, sludge grinders, heat exchangers, and piping, thus making the facilities more efficient for increased solid waste handling. It also includes 1,500 s.f. expansion of the Power Building No. 5.

OCWD North Basin Groundwater Protection Pipeline, Fullerton & Anaheim*, CA*. Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical observation, materials testing and inspection. The project consisted of the construction of 27,713 linear feet of PVC pipeline, jack and bore operations for steel casing of varying sizes at three separate locations and installation of fiber optic well communications for two 4-inch PVC fiber optic conduits within pipeline trench and pull boxes.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

California Water Pump Station No. 42, *Los Angeles, CA*. Principal in Charge. Provided technical oversight and budget allocation for the materials testing and inspection services. The project consisted of booster station upgrades at Pump Station 42. The concrete masonry pump building, a 4,000-gallon surge tank concrete pad, and one diesel generator pad were constructed at the site. The project included a seismic hazard evaluation to meet current applicable seismic codes.

Clearwater Cogeneration Plant, *Corona, CA.* Principal in Charge. Provided budget and technical oversight for the geotechnical investigation, observation and testing. The project involved the design and construction of a biosolids facility within the existing Wastewater Treatment Plant, including construction of a cooling tower, condenser, steam turbine, combustion turbine, heat recovery steam, mechanical shed, electrical control building, transformer, ammonia storage tank, and pipe rack.

Generator and Chiller Addition, Indio Mental Health Treatment In-Patient Building, *Indio, CA.* Principal in Charge. Provided budget and technical oversight for the geotechnical observation and testing, and materials testing and inspection services. The project involved the construction of Generator and Chiller Addition at the Indio Mental Health Treatment In-Patient Building.

Central Plant Upgrade, Cal State San Bernardino, *San Bernardino, CA*. Principal in Charge. Provided budget and technical oversight for the geotechnical observation and testing, and materials testing and inspection. The project consisted of Central Plant Chilled Water Upgrade and Irrigation Well within the campus of Cal State San Bernardino.

Palm Springs Wastewater Treatment Plant Expansion, *Palm Springs, CA.* Principal in Charge. Provided budget and technical oversight for the geotechnical investigation. The project involved design and construction of two Headworks, Primary Clarifiers, FOG Treatment Facilities, a Cogeneration System Facility, Odor Control Facility and other structures. Both at-grade and below grade reinforced concrete structures founded on spread footings and mat foundations were planned as part of the project.

East Valley Water District Administration Building, *Highland, CA.* Principal in Charge. Provided budget and technical oversight for the geotechnical investigation. The East Valley Water District office complex development was located on a 9.4-acre site, south of Highland Avenue and west of Central Avenue, in the city of Highland, California. The office complex was planned to include four (4) one-story buildings, including Administration Building (24,850 sf), Field Operations Building (6,262 sf), a Repair Garage Building (4,887 sf), a Stockroom and Warehouse (8,291 sf), as well as covered equipment storage, covered and uncovered parking areas and above ground fuel tanks.

Eastern Municipal Water District Administration Building Expansion, *Perris, CA*. Principal in Charge. Provided budget and technical oversight for the geotechnical investigation. The Administrative Building expansion was planned to be a two-story structure with approximately 17,500 square feet for each floor. It was anticipated that the building would be concrete slab-on-grade floor supported on a conventional, shallow foundation system.

New Mojave Water Agency Headquarters, *Apple Valley, CA*. Principal in Charge. Provided budget and technical oversight for the geotechnical investigation, observation and testing, and

materials testing and inspection services. The New Mojave Water Agency Headquarters is located on 13846 Conference Center Drive in the town of Apple Valley, San Bernardino County, California. The project consists of the construction of 6.36-acre development, which includes the construction of 2 new buildings plus a locker room. The Office/Administration Building is a +/- 22,000 s.f. single story building, the Warehouse Building is a +/- 5,500 s.f. building and the Locker Room is a +/- 1,200 s.f. extension to the Warehouse Building. This project also includes utilities, hardscape, landscape development, and other on and off-site improvements. The buildings are a combination of structural steel, masonry, wood and metal framing and concrete "tilt up". The off-site improvements include storm drainage, utilities, and street improvements.

Crestlline Sanitation District Maintenance Structure, *County of San Bernardino, CA.* Principal in Charge. Provided budget and technical oversight for the geotechnical investigation, observation and testing, and materials testing and inspection services. The project included proposed maintenance structure located at the rear of the existing building complex. The structure was planned as steel-frame with a metal exterior covering with a slab-on-grade.

EMWD 4.0 MG Steel Tank at Benton Road, *Riverside County, CA.* Principal in Charge. Provided budget and technical oversight for the geotechnical investigation, observation and testing, and materials testing and inspection services. The project consists of construction of a 4.0 MG capacity steel tank on the top of a bedrock knob in the French Valley area of Riverside County, California. The proposed tank will be about 150 feet in radius and 25 feet in height. About 6,700 linear feet of 24-inch diameter pipe will be installed along Benton Road connecting the tank to the existing recycled water line along Winchester Road.

2.5 MG Tank & Pump Station, *Hesperia, CA.* Principal in Charge. Provided budget and technical oversight for the geotechnical investigation**.** The project consisted of the design and construction of a 2.5 million gallon water tank, pump station, and associated pipelines and appurtenances located at 13500 Live Oak Street, Hesperia, California. The proposed water tank diameter was 115 feet with a height of approximately 30 feet and was constructed at-grade with 4-foot-wide by 2.5-foot-deep ring wall foundation and oiled sand base. A second future water tank with the same dimensions was planned to the north of the first tank. The proposed pump station structure footprint was approximately 25 feet by 50 feet. The building will be a one-story masonry block wall structure founded on shallow footings with a slab-on-grade.

Riverside PUD Aquifer Storage & Recovery, *Riverside, CA*. Principal in Charge. Provided budget and technical oversight for the geotechnical investigation**.** The SAR-Off Channel portion of the project consisted of connection to the State Water Project turnout, recharge basins with passive recreational areas, levee and channel reconstruction, diversion facilities, desilting system, piping and an outlet structure into the Riverside Canal, utility crossings and appurtenances.

San Bernardino County Earthen Levee Restoration, *Victorville, CA*. Principal in Charge. Provided budget and technical oversight for the geotechnical investigation. Horseshoe Lake is located in Mojave Narrows Regional Park in the City of Victorville, California. The lake is retained behind a 12-foot earthen levee constructed circa 1958. The lake is approximately 28.13 acres in area and was originally approximately 10 feet deep. During the winter of 2010, excessive storm runoff into Horseshoe Lake caused overtopping of the levee at the northeastern corner of the lake. Subsequent erosion resulted in breaching of a 50-foot section of the levee.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Lake Arrowhead Dam Monitoring, *Lake Arrowhead, CA.* Principal in Charge. Provided budget and technical oversight for the geotechnical investigation. The Lake Arrowhead Dam is 232 feet high from the downstream toe to the crest and approximately 1,300 feet long. The Division of Safety of Dams requires quarterly instrumentation monitoring and visual observation of the dam in accordance with the Operation and Maintenance Manual. The monitoring includes measurements in a system of standpipe piezometers, pneumatic piezometers, and weirs to evaluate any changes in water movement through the dam. A series of monuments on the crest of the dam must be surveyed annually to identify any physical movement of the dam. Seismic events exceeding the guidelines established by the Division of Safety of Dams require additional monitoring and observation of the dam to ensure that it has not been compromised.

Seven Oaks Dam, *Highland, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the construction phase. Seven Oaks Dam was a 550-foot high earth and rock fill embankment dam across the Santa Ana River in the San Bernardino Mountains in Highland, California.

Santa Ana River Enhanced Recharge, *San Bernardino, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the construction phase. The project was an enhancement to the recharge capacities of the Santa Ana River channel downstream of the Seven Oak Dam and consists of several elements: Sandbox Diversion and Energy Dissipating Drop Structures were constructed to divert water into the new sedimentation basins. The reinforced concrete structures were approximately 20 feet bgs. A new Sedimentation Basin provided temporary water storage to allow suspended sediment to settle from the diverted water prior to entering the Plunge Creek Pipeline. The unlined basin was 200 feet wide and 600 feet long and 10 feet deep, with retaining walls, berms and spillways. The Plunge Creek Pipeline was 3,800 linear feet of 96-inch diameter pipe connecting the southwest end of the sedimentation basin and the existing Foothill Pipeline.

Fallbrook Treatment Plant Improvement, *Fallbrook, CA*. Principal in Charge. Provided budget and technical oversight for the geotechnical investigation. The project site was located in the unincorporated community of Fallbrook, San Diego County, California. Fallbrook Public Utility District Treatment Plant No. 1 is a wastewater treatment plant located at 1425 Alturas Road, near the intersection of Alturas Road and Ammunition Road. The plant was bounded to the west by Fallbrook Creek, to the north by a concrete mix plant, and to the east by residential homes.

EMWD Headquarters Gate Improvements, *Perris, CA.* Principal in Charge. Provided budget and technical oversight for the geotechnical investigation. The Eastern Municipal Water District (EMWD) project included improvements to the functionality, efficiency, and security of Gate 5 site access to the EMWD headquarters complex. As part of the improvements one lane was added to Mapes Road and a security guard house and security wall were constructed. 2 to 3 feet of fill was required to raise the security guard house pad above the flood plain. The house was founded on shallow foundation with slab-on-grade. The security wall was founded on shallow foundation.

Avek Eastside Water Treatment Plant, *Los Angeles County, CA*. Principal in Charge. Provided budget and technical oversight. The project site is located in the southeast and southwest sides of the Intersection of East Avenue U and 116 Street E., in the Town of Pearblossom, California. The project consisted of pipelines, extraction wells, and extraction well buildings.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Calico Water Treatment Project, *San Bernardino County, CA.* Principal in Charge. Provided budget and technical oversight for **t**he Calico Water Treatment Project which consisted of a water treatment facility and three evaporation ponds. The water treatment system was mounted on an approximately 10-foot by 10-foot exterior concrete slab located at the northeast corner of the planned evaporation ponds, east of the existing sewer ponds. The evaporation ponds were concrete-lined and were approximately 170 feet by 300 feet in size. The project included an unpaved access road, concrete flatwork, and above ground or underground pipelines.

Oak Glen Creek Basin, *Yucaipa, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the construction phase. The 36-acre site is located at the southeast corner of the intersection of Bryant Street and Oak Glen Road in the city of Yucaipa, San Bernardino County, California. The project involved construction of three (3) detention basins ranging in size from 1.5 to 4.1 acres, two (2) earthen berms with associated maintenance roads and utilities and a five (5) acre park site.

Chino Basin Desalter Brine Concentrate Reduction Facility, *Riverside County, CA.* Principal in Charge. Provided budget and technical oversight for the proposed Brine Concentrate Reduction Facilities which consisted of the construction of various structures at the northern portion of the fenced property at 11301 Harrel Street, Jurupa Valley, Riverside County, California. The project site was bounded to the east by Chino II Desalter Facilities and Jurupa Community Services District Offices, on the south by Harrel Street, and on the west and north by existing parking lots.

EMWD Menifee/Perris I Desalter Removal Facility, *Perris, Romoland & Sun City, CA*. Principal in Charge. Provided budget and technical oversight for the proposed project which consisted of the expansion of the Menifee/Perris I Desalters Iron and Maganese Removal Facilities located in Perris, Romoland and Sun City California. Converse Consultant' scope included geotechnical field observations, in-place density and laboratory testing, performed during grading, structural backfill, utility trench backfill, and asphalt concrete placement.

San Bernardino Municipal Water District Clean Water Factory, *San Bernardino, CA*. Principal in Charge. Provided budget and technical oversight for the proposed project. The project consists of the construction of a Clean Water Factory (CWF) which will treat effluent from the San Bernardino Water Reclamation Plant (SBWRP) and convey the treated effluent to the Waterman Basins and the East Twin Creek Spreading Grounds. Recycled water spread at these facilities will artificially recharge the Bunker Hill Groundwater Basin. Construction of the CWF project will include treatment improvements to the existing SBWRP, an addition of tertiary filtration/disinfection facilities to the SBWRP, an addition of advanced waste treatment units to the SBWRP and a recycled water conveyance system to the Waterman Basins and the East Twin Creek Spreading Grounds, as well as direct use customers.

Hospitals

Brenda Boss Family Resource Center, *Big Bear Lake, CA.* Principal in Charge. Provides technical support and budget oversight for geotechnical and materials testing. The project site was located on the northeast side of Garstin Drive and Moon Ridge Road, Big Bear Lake, California. The project consisted of the construction of an outpatient clinic to the existing Bear Valley Community Hospital. Various elements of the project included outpatient clinic building structure, driveway improvements and entrances from the west and south sides of Garstin

Drive, parking lot additions and improvements, and improvements for fire lane/ambulance access on the north side of the existing hospital.

Arrowhead Regional Medical Center, *Colton, CA.* Principal in Charge. Provides technical support and budget oversight for geotechnical and materials testing and inspection services for various projects within the Arrowhead Regional Medical Center, including Vacuum Pump Replacement and Linear Accelerator Treatment and Control Room. The project also involves geotechnical investigation for the Proposed Medical Office Building. The proposed Medical Office Building will cover about 22,300 square feet on the first floor.

Phoenix Outpatient Clinic, *San Bernardino, CA.* Principal in Charge. Provided technical support and oversight on budget and schedule for the geotechnical observation and testing and materials testing and inspection. The project consisted of a 22,000 square foot County Outpatient Building. The building was a wood frame structure with slab-on-grade. Associated with the development were interior streets and parking stalls.

Metropolitan State Hospital, *Norwalk, CA.* Principal in Charge. Provided technical support and oversight on budget and schedule for the geotechnical observation and testing and materials testing and inspection. The project involved construction of several new patient buildings, elevators, and the demolition and replacement of the administration building and patient towers.

Robert F. Kennedy Medical Center Medical Center/Phase II, *Hawthorne, CA.* Principal in Charge. Provided technical support and oversight on budget and schedule. He coordinated Converse's scope of work with the owner and the project architect. Converse's services included a comprehensive seismic and geotechnical investigation as well as development of earthquake site response spectra and estimates of dynamic soil settlement.

Santa Monica UCLA Medical Center, *Santa Monica, CA.* QA/QC. Provided quality control oversight. The medical center had suffered significant structural damage to its hospital tower as a result of the 1994 Northridge earthquake. The project consisted of phased construction of a new hospital (northern wing, central wing, and southwestern wing), a new central plant, and a new Orthopedic Hospital Institute.

Los Amigos Hospital Addition, *Los Angeles County, CA.* Project Engineer. Supervised subsurface investigation, performed seismic evaluations, developed response spectra for structural design and prepared a report to include recommendations for design and construction.

Huntington Memorial Hospital Phase II and III Expansions, *Pasadena, CA.* Principal in Charge. Provided technical support and oversight on budget and schedule, coordinated Converse's scope of work with the owner and the project architect. The project involved seismic update and foundation investigations for the proposed expansions and the eastern parking structure.

Veterans Homes of California, *Lancaster, CA.* QA/QC. Performed quality control oversight for the geotechnical and materials testing and inspection services. The project consisted of site development and construction of an approximately 47,000 square feet facility with 60 RCFE

beds and 50-person Day Care Unit, providing various medical treatment care, residential care, adult day healthcare, along with support facilities.

Veterans Homes of California, *Ventura, CA.* QA/QC. Performed quality control oversight for the geotechnical and materials testing and inspection services. The project was a part of a multi-site campus of Veterans Homes in the Greater Los Angeles and Ventura County region, and consisted of site development and construction of a one-story Veterans Home building, which provides medical treatment care, residential care, adult day healthcare and support facilities. It is approximately 47,000 sq ft with 60 RCFE beds and 50-person Day Care unit.

Boiler Plant Building, Huntington Memorial Hospital, *Pasadena, CA.* QA/QC. Performed quality control oversight for the geotechnical investigation and material testing and inspection services. The project involved a one-story steel framed structure located between the existing Chiller Building and the existing Boiler building.

Emergency Department Expansion, Huntington Memorial Hospital, *Pasadena, CA.* QA/QC. Performed quality control oversight for the geotechnical investigation, observation and testing. The project consisted of a three-story at grade (16,500 square feet per floor) steel framed addition to the existing East Tower and Emergency Room. As part of the project, Fairmount Avenue was relocated to the east of its present location and the existing office building was demolished.

Generator and Chiller Addition, Indio Mental Health Building, *Indio, CA.* Principal in Charge. Provided technical support and oversight on budget and schedule for the geotechnical observation and testing and materials testing and inspection. The project involved construction of Generator and Chiller Addition at the Indio Mental Health Treatment In-Patient Building, located at 47-915 Oasis Street in the City of Indio, California.

Lompoc Valley Medical Center, *Lompoc, CA.* QA/QC. Performed quality control oversight for the geotechnical investigation, observation and testing. The project consisted of construction of 100,000 square feet of one-story buildings with steel-framed structures and slabs-on-grade with associated parking lots, landscaping and utilities.

Methodist Hospital Parking Structure, *Arcadia, CA.* QA/QC. Performed quality control oversight for the geotechnical investigation, observation and testing. The project included a 4 level parking structure, constructed at about existing grade with no basement totaling about 140,400 square feet. The structure is a cast-in-place post tension concrete structure.

Fire Stations and Police Stations

Fire Station No. 5, *Victorville, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the project. The project consists of construction of the proposed Fire Station #5, an approximately 5,250 square foot one-story pre-engineered metal, masonry or wood frame building. The approximately 0.6 acre site is located west of the northwest corner of the intersection of Topaz Road and Eucalyptus Street in the city of Victorville, California.

Fire Station No. 3, *Yucaipa, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation and material testing and inspection phases of the project.

The project consists of a 6,826 square foot one-story pre-engineered building. Associated with the building are access road, parking stalls, landscape and hardscape areas.

New Fire Station No. 6, *Corona, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the proposed fire station. The approximately one acre site is located at 110 West Upper Avenue, southwest corner of Upper Avenue and Main Street in the city of Corona, California. Construction consisted of a one-story masonry building, an engine room, parking lots and access roads.

Mecca Fire Station, *Mecca, CA.* Principal in Charge. Provided technical oversight and budget control for material testing and inspection phases of the project. The project was located on Brown Street, between 66th Avenue (State Highway 195) and Second Street, in Mecca, California. The proposed development consisted of a one-story fire station, approximately 15,000 sq. ft, on approximately 1.5-acres. The structure consisted of continuous and spread concrete footings, concrete slabs-on-grade and masonry and metal-frame construction. Site development included building pad preparation, underground utility installation, street and parking lot construction, and concrete driveway and sidewalk placement.

Arcadia Fire Station, *Arcadia, CA.* QA/QC. Provided quality control oversight for the geotechnical investigation, observation and testing. The project site is located on 710 South Santa Anita Avenue, Arcadia, California. Fire Station 105 was constructed in the 1950s, and was functionally obsolete. As a result, it had been demolished and a new fire station of approximately 20,600 square feet has been built.

Fire Station No. 89, *Glendale, CA.* Principal in Charge. The project is located on 3.26 acres site on Canwood Drive between Kanan Road and Strawberry Hill Drive in Agoura Hills. The building will be about 13,000 square feet in plan dimension. It will be constructed of masonry wall with slab on grade.

Fire Station/Training Facility, *Los Angeles, CA.* Principal in Charge. The existing training facilities consisted of a seven-story tower, a one-story masonry classroom and storage room, several storage trailers, and mobile office buildings, a classroom, and a locker room. A new training facility will be constructed on the site. Buildings are constructed of masonry, concrete, and steel.

Yucaipa City Hall, *Yucaipa, CA.* Principal in Charge. The project consisted of construction of 19,960 square foot City Hall Building including a combination of wood/steel framed, single story structure.

San Bernardino Police Station, *San Bernardino, CA.* Principal in Charge. Conducted project coordination, client liaison and budget control. Responsible for ensuring that client's needs were met in accordance with the project requirements.

Los Angeles Police Department Metropolitan Communications Dispatch Center, *Los Angeles, CA.* Principal in Charge. The project involved construction of a new two-story, 50,000 square foot emergency communications building. The building was constructed with a base isolation system.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

North Valley Area Police Station, City of Los Angeles, Department of Public Works, *Los Angeles, CA.* Principal in Charge. Converse performed geotechnical observation and testing services for the project. The North Valley Area Police Station project consisted of Construction of a Station Building, Parking Structure, Maintenance Building, and Car Wash Building. The parking structure is supported on drilled cast-in-place piles.

Santa Monica Police Station, *Santa Monica, CA.* Principal in Charge/Principal Engineer. Performed quality control and budget oversight and supervised the geotechnical observation and materials testing and inspection. The Santa Monica Police Department relocated into a new facility just north of the former Police Building and the City plans to demolish the former police building. However, the City of Santa Monica removed only the top five feet of the basement and backfill the remainder of the basement to grade. As a result, Converse requested to prepare a report for determining the percolation properties of the soils beneath the basement and to provide recommendations modifying the basement slab and placement of backfill so that the basement would be free draining.

Amboy Fire Station, *San Bernardino County, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the proposed fire station. The project consisted of a new fire station, including an approximately 7,000 square-foot single story steel frame building, driveways, parking stalls, landscaping, and aboveground and underground utilities.

Baker Fire Station, *Baker, CA.* Principal in Charge. Provided technical and budget oversight for the project, which involved materials testing and inspection during construction of one-story buildings, driveways, curb and gutter, sidewalks, landscape areas, utilities including storm drain, sewer, water, gas pipelines, electrical lines, and other appurtenant facilities usually associated with such development.

Universities

Materials Science and Engineering Building, University of California, Riverside, *Riverside, CA.* Principal in Charge. Provides resource and budget oversight, technical review and contract management for the geotechnical observation and testing, and materials testing and inspection services. The building has about 129,000 gross square feet, including research and instructional laboratories, research support facilities, offices and office support, conference rooms and a core facility.

San Bernardino Valley College Expansion, *San Bernardino, CA.* Principal in Charge. Provides resource and budget oversight, technical review and contract management for the geotechnical observation and testing, and materials testing and inspection services for the expansion at San Bernardino Valley College campus, located in the City of San Bernardino, California, which included construction of a 14,811-square foot Maintenance and Operations Building, an 18,020-square foot Media/Communications Building, a 50,934-square foot North Hall Replacement Building, a 56,760-square foot Science Building, and numerous interim housing building sites.

UCR Health Sciences Teaching Center, *Riverside, CA.* Principal in Charge. Provides resource and budget oversight, technical review and contract management for the geotechnical observation and testing, and materials testing and inspection services for the planned renovation and seismic retrofit of the Statistics Computing Building, which is a part of the Health Sciences Teaching Center Project. The planned renovation included a seismic retrofit with new

full height concrete shear walls on the south and north side of the building. The project also included a 13-foot high retaining wall on the south and a 4-foot high retaining wall on the east side of the building. The project also consisted of some minor light weight structures.

University of California Riverside Taco Fresco, *Riverside, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation and observation and materials testing. The project consisted of the design and construction of an approximately 600-square-foot, one-story steel frame building founded on shallow footings and slab-on-grade located on the campus of the University of California in Riverside, California. The project also included canopy sheds founded on pile foundations. The project site was approximately 60 feet west of the Statistics Computing Building, which is a part of the Student Health Science Teaching Center.

Geology Building Seismic Retrofit, *University of California, Riverside,* *Riverside, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation, and materials testing and inspection services. The project consisted of demolishing the existing landscaping and construction of one concrete shear wall at the north building section.

Hinderaker Hall Seismic Upgrade, University of California, Riverside, *Riverside, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the materials testing and inspection services. The project involved seismic upgrade of the existing Hinderaker Hall, and consisted of construction of seismic strengthening elements, such as shear wall and deep foundation.

Sciences Building Annex, Cal State University, San Bernardino, *San Bernardino, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation, and materials testing and inspection services. The project consisted of construction of a three-story building with penthouse and a basement. The building included approximately 62,234 square feet of laboratory, classroom, and faculty office space, four lecture halls, and a museum.

College of Education, Cal State University, San Bernardino, *San Bernardino, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical observation and testing, and materials testing and inspection services. The project consisted of the construction of a new 3-story 128,945 square foot building, constructed of steel, concrete and masonry, founded on shallow footings.

California State University, San Bernardino, *San Bernardino, CA.* Principal in Charge. Performed quality control and budget oversight for geotechnical testing, material inspection and laboratory testing, services for several facilities, including the Student Union, Student Housing, Recreation Center, Science Building Annex, Social and Biological Sciences Building and several infrastructure upgrades**.**

California State University, Dominguez Hills, *Dominguez Hills, CA.* Principal in Charge. Performed quality control and budget oversight for geotechnical testing, material inspection and laboratory testing, services included are field density testing, aggregate base, asphalt concrete, concrete, masonry, grout, high strength bolts, fireproofing and steel material testing for Educational Resources Center and California Academy of Math & Science**.**

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

California State University, Northridge, *Northridge, CA.* Principal in Charge. Performed quality control and budget oversight for geotechnical investigations, quality control for geotechnical testing, material inspection and laboratory testing, services included are field density testing, aggregate base, asphalt concrete, concrete, masonry, grout, high strength bolts, fireproofing and steel material testing for earthquake repair and retrofit, and new construction**.**

UCR Glen Mor 2 Student Housing, *Riverside, CA.* Principal in Charge. Provides resource and budget oversight, technical review and contract management for the geotechnical observation and testing, and materials testing and inspection services. The project consists of five (5) 5-story resident apartment buildings totaling 334,400 square gross square feet, a residential student office building, community and food service emporium services, offices and support spaces, a conference facility and a 600-space parking structure. In addition there will be enhancements to the adjacent arroyo, two bridges over the Arroyo between the proposed project and the existing Glen Mor 1 student housing complex and a swimming pool.

Glen Mor 1 & Pentland Hills Landscape Renovation, *Riverside, CA*. Principal in Charge. Provides resource and budget oversight, technical review and contract management for the geotechnical observation and testing, and materials testing services. The project consisted of the renovation project is located along the arroyo between the existing Glen Mor 1 and Pentland Hills student housing complex and the under-construction Glen Mor 2 student housing complex at the University of California Riverside campus. The project included paving a fire access road along the south side of the arroyo, contour grading of portions of the arroyo slopes, construction of two concrete seat walls, construction of several pedestrian walkways, construction of a transformer screen fence, installation of lighting and irrigation systems.

California State Polytechnic University, Pomona Residential Suites Phase II, *Pomona, CA*. Principal in Charge. Provided resource and budget oversight, technical review and contract management for the observation and materials testing. The Residential Suites Phase II project involved approximately 225,500 SF of new construction, consisting of a complex of three student housing facilities (Building A, B, and C), each three to four-stories, a one-story commons facility (Building D), and associated site improvements. The project site is located adjacent to the Residential Suites Phase I.

California State University, Fullerton Student Housing, *Fullerton, CA*. Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation and observation and materials testing. The Student Housing Project was located in the eastern portion of the Cal State Fullerton campus within existing Parking Lot E. It consisted of 11 four-story student housing buildings, one one-story food service building, and additional program service structures

Cal Poly University, Pomona, *Pomona, CA.* Principal in Charge. Performed geotechnical and seismic investigations, quality control for geotechnical testing, material inspection and laboratory testing, services included are field density testing, aggregate base, asphalt concrete, concrete, masonry, grout, high strength bolts, fireproofing and steel material testing for Science Building, Building 13, Chiller Plant and Engineering Laboratory Replacement.

UCLA Life Sciences Replacement Building, *Los Angeles, CA.* QA/QC. Provides quality control oversight for the geotechnical observation and testing, and materials testing and inspection services. T UCLA Life Sciences Replacement Building is a 176,590 gross square foot

laboratory and consisted of two seismically separated five-story wings with a common basement. The structure was cast-in-place reinforced concrete with an exterior wall system consisting of brick supported by metal studs along with certain wall glazing. The floor system was a cast-in-place flat plate supported by concrete columns with beams at the slab openings. The lateral force resisting system consisted of cast-in-lace concrete shear walls. The foundation system was cast-in-place drilled concrete piles with pile caps. The West Wing basement utilized a structural slab supported by pile caps, while the North Wing utilized a conventional slab-on-grade.

Ronald Reagan UCLA Medical Center, *Santa Monica, CA.* QA/QC. Provided quality control oversight. The medical center had suffered significant structural damage to its hospital tower as a result of the 1994 Northridge earthquake. The project consisted of phased construction of a new hospital (northern wing, central wing, and southwestern wing), a new central plant, and a new Orthopedic Hospital Institute.

New Parking Structure – Cal State Fullerton, Fullerton, *Fullerton, CA*. QA/QC. Provided quality control oversight. The new six-story parking structure was constructed within an existing student parking lot area on campus, located west of Freeway 57, south of the existing and proposed student housing buildings, and east of East Campus Drive in the City of Fullerton, California. The project included 1,500 parking spaces.

Palm Desert Campus – Phase II, California State University, Palm Desert, *Palm Desert, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation, observation and testing, and materials testing and inspection services related to the project. The project consisted of the construction of two buildings, an approximately 11,000 square foot single story theater building with a partial basement, and a three story building. The project also included miscellaneous site improvements, such as landscaped area, utilities, driveways, and parking.

California State University, San Bernardino Student Residence, *San Bernardino, CA.* Principal in Charge. Performed quality control and budget oversight for geotechnical testing, material inspection and laboratory testing services. The project consisted of construction of five, 3-story wood frame buildings with associated interior streets, landscape, and parking areas on an approximately 7-acre site, bounded on the east and west by existing parking structures, north by existing student housing and on the south by Northpark Boulevard within the California State University San Bernardino (CSUSB) campus in the City of San Bernardino, California.

Technology and Training Center, California State Polytechnic University, Pomona, *Pomona, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical observation and testing, and materials testing and inspection services. The project consisted of three, two-story steel-frame buildings, asphalt concrete paved at-grade parking lot and underground utilities. The buildings were supported on shallow foundations with slab-on-grade.

Fontana Unified School District, New Solar Panel Project at Various Schools, *Fontana, CA.* Principal in Charge - Provided technical and budget oversight, resource allocation and contract management for the geotechnical observation and materials testing services. The project consisted of the installation of new solar panels on newly constructed parking canopies at 16 elementary, middle school and high school locations in Fontana, California.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Colton Joint Unified School District, Terrace Hills Middle School Shade Structures, *Grand Terrace, CA.* Principal in Charge - Provided technical and budget oversight, resource allocation and contract management for the geotechnical observation and materials testing services. The project consisted of the construction of two prefabricated new shade structures along with new concrete walkway improvements, and a 7-foot high steel gate within the Terrace Hills Middle School.

Residential

North Fontana Residential Development, *Fontana, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation/fault study, observation and testing. The proposed development included a commercial area, multi-family residences, and a school site in addition to associated streets, parking areas, utilities, and other features. The approximately 76 acre site was located at the southeast corner of Sierra Avenue and North Riverside Avenue in the City of Fontana, California.

Alderwood Development, *Murrieta, CA*. Principal in Charge. Provided quality and budget control, and technical supervision for the construction phase of the project. The project site was located at Whitewood Road and Clearview Street in Murrieta, California. The proposed development included 207 single-family residences, which were constructed in 8-lot phases. The residences were one- and two-story, wood-frame, stucco buildings. Conventional foundations with monolithic shallow footings and slabs-on-grade were utilized. Included in this project was the construction of dry utilities and retaining walls.

Summerly Housing Development, *Lake Elsinore, CA*. Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation for the project. The proposed development includes 59 single-family residences in Tract 31920-9 in the City of Lake Elsinore, California. The residences will be one- and two-story, wood-frame, stucco buildings. Conventional foundations with shallow footings and slabs-on-grade will be used. The proposed development will include installation of sewer, water, storm drain, and dry utilities, as well as construction of sidewalks, curb and gutter, and asphalt concrete streets.

Deleo Residential Property Development, *Temescal Valley Area, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation for the project. The approximately 28-acre, roughly triangular site was located north of Squaw Mountain Road, between Temescal Canyon Road to the west and Interstate 15 to the east. The property was developed as a single-family residential housing tract with approximately 102 residential units. The development included single-family residential structures, detention basins, streets, driveways, curb and gutter, sidewalks, landscape areas, and utilities including storm drain, sewer, water, gas pipelines, electrical lines and other appurtenant facilities and open spaces.

Anaheim 38 Residential Development, *Anaheim, CA*. Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation and geotechnical observation and testing for the project. The approximately 2.3-acre housing project site is located at 701 East Cypress Street in the City of Anaheim, Orange County, California. The site development consists of 38 residential homes, to be wood framed structures founded on shallow footings with slabs-on-grade. The development also includes under- and above-ground utilities, interior streets, at-grade parking stalls, and landscaping.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

40-Acre Residential Development, *Indio, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation. Managed fieldwork and paperwork for the geological investigation for the project. The proposed development included 137 single-family residences to be constructed on previously graded building pads. The project site was bounded by Tract 31686 to the east, Calhoun Street to the west, a residential tract to the north, and 43rd Avenue to the south in the Indio, California. The site bounds George S. Patton Park in the southeast corner. The site will be developed into one- and two-story residential structures of wood frame construction with stucco walls and shallow foundations. It will also include roadways, underground utilities, utility house connections, sidewalks, and driveway approaches.

54-Unit Affordable Housing Development, *Yorba Linda, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation. The approximately 3.2-acre project site was located in the City of Yorba Linda, California. It is bounded by Eastpark Drive to the northeast, Oakcrest Circle on the southeast, an Extended Stay America Hotel to the southwest, and by Old Canal Road to the northwest. The development consisted of two 3-story apartment buildings containing 54 dwelling units and an approximately 3,000-square-foot, single-story resident services and day care center. Along with the buildings there was at-grade parking lots and above and below-ground utilities.

Greenspot Road Property, *Highland, CA.* Principal in Charge. Provided technical oversight and resource management for geotechnical investigation for development of a 1658 acre site in Highland. The project required assessment of landslides and a fault study to complete entitlement of the property in anticipation of future sale and development.

Stoneridge Development, *Moreno Valley, CA*. Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation and testing. The project included residential and community commercial development. The residential development included single-family, one- and two-story structures and associated driveways, in-tract streets with curbs and gutters, sidewalks, landscaped areas, and under- and above-ground utilities.

Principal in Charge. Provided quality and budget control, and technical supervision. provide geotechnical analysis of the anticipated stability of a planned steepened slope along Meadows Parkway adjacent to the Tract 29431 located in the ity of Temecula, California. The previously graded, fill and fill-over-cut, subject slopes descend from Meadows Parkway on the east and De Portola Road on the north to the undeveloped multi-family residential building pad. The project design included a retaining wall at the toe of slope to provide the necessary space for a planned parking lot. The project team considered re-grading portions of the existing slope to reduce or eliminate the retaining wall.

The Club at Big Bear, *Big Bear, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation. The Club at Big Bear is a private, member-owned fractional development located at the entrance to Big Bear Village, California. The resort consisted of four four-plexes and two model units for a total of eighteen units, each between 2,045 and 2,843 square feet with high-end furnishings. Fourteen of the units were completed, and four had structures and drywall completed. In addition, there were nine building

pads where an additional 40 units were planned.

Sundance Development, *Beaumont, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical/geohazard evaluation and geotechnical observation and testing. The project involved an approximately 231-acre residential development.

Newland Communities, Paseo Del Sol Master Planned Community, *Temecula, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical observation and testing during grading and post grading. The project consisted of approximately 2000 single-family residences, commercial development, school, golf course and associated streets and utilities. Converse performed several geotechnical investigations, as well as observation and density testing during grading operations and post grading operations. Approximately 7 million cubic yards of soils were moved as part of the grading operation and approximately 100,000 cubic yards a day.

Pardee Homes, Approximately 84-Acre Site, *Beaumont, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical observation and testing during grading and post grading. Pardee Homes Sundance Residential Development Project in Beaumont, California consists of 476 new single-family homes. The one- and two-story residential structures are wood-framed and stucco construction. The development also includes streets, driveways, curb and gutter, sidewalks, landscape areas, and utilities including storm drain, sewer, water, gas pipelines, electrical lines and other appurtenant facilities usually associated with such development.

Stoney Ranch Master Planned Community, *Hemet, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation and testing. The project involved an approximately 231.5-acre site, which was part of a master planned residential community.

French Valley Residential Development, *Riverside County, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation and testing. The project involved an approximately 160-acre site including single-family residential and associated driveways, streets with curb and gutter, sidewalks, and above and underground utilities.

Sierra Business Center, *Fontana, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation, and materials testing and inspection services for the approximately 190 acres development. The project consisted of construction of 12 buildings ranging from approximately 30,000 to 750,000 square feet and associated driveways, parking areas, streets, sidewalks, and utilities.

Eastvale Gateway, *Riverside County, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation and materials testing and inspection services for the 78-acre development. The project consisted of construction of retail stores, a 16-plex theater, an access road and parking areas.

Sundance Development (Village II), *Beaumont, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation and

testing. The project involved an approximately 300-acre project site, including residential and commercial development.

Forecast Homes, Approximately 190-Acre Site, *Victorville, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical observation and testing during grading and post grading. The proposed 190-acre development included both one- and two-story residential buildings, construction of streets, driveways, curb and gutter, sidewalks, landscape areas, utilities including storm drain, sewer, water, gas pipelines, electric lines and other appurtenant facilities usually associated with such development.

Newland Associates, *Temecula, CA.* Principal in Charge. Provided technical oversight and resource management for geotechnical investigation for development of an 800-acre site in Temecula into a mixed-use master-planned community. The project included residential and commercial development, schools, and a golf course.

Montclair Multi Family Senior Housing Project, *Montclair, CA.* Principal in Charge. Provided technical oversight and resource management for geotechnical investigation. The project site encompassing approximate 2.11 acres is located at the southeast corner of Mills Avenue and Kingsley Street in the city of Montclair, San Bernardino County, California. The site was to be developed for Senior Housing with a total building area of 23,500 square feet. Associated with the development were driveways, streets with curb and gutter, sidewalks, and above and underground utilities.

Mills Family Senior Housing Project, *Montclair, CA.* Principal in Charge. Provided technical oversight and resource management for geotechnical investigation. The site will be developed as a 50-unit multi-family housing project. Associated with the development will be driveways, parking lots, sidewalks, pool, courtyard, children's play area, and above and underground utilities. The structures are likely to be two-story, wood-frame and stucco, founded on continuous and/or isolated footing foundations with slab-on-grade.

Ontario Senior Apartments, *Ontario, CA.* Principal in Charge. Provided technical oversight and resource management for geotechnical investigation. The project consisted of approximately 6.4 acres of land to be developed as a residential housing development, including two-story residential structures, streets, driveways, curb and gutter, sidewalks, landscape areas, utilities including storm drain, sewer, water, gas pipelines, electrical lines and other appurtenant facilities usually associated with such development.

Citrus Grove II Apartment, *Rialto, CA.* Principal in Charge. Provided technical oversight and resource management for geotechnical investigation. The project involved proposed modification to the Citrus Grove II Apartments located at the northeast corner of Vista Avenue and Cascade Drive in the city of Rialto, San Bernardino County, California. The rehabilitation of the existing Citrus Grove II Apartment buildings included about 500 square feet additions to eight (8) fourplex buildings, construction of new tot lot, play area, and a new laundry room.

Geotechnical Distressed Study Report For Existing Residential Building, Los Angeles Housing Department, *Los Angeles, CA*. QA/QC. Provided quality assurance and quality control during the geotechnical investigation of a distressed property located at 1708 West Boulevard, Los Angeles, California.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Senior Housing Apartment Project, National Core, *Los Angeles CA.* QA/QC. Provided quality assurance and quality control during the geotechnical investigation. The project consisted of a new multi-story Senior Housing Apartments in an approximately 1.4-acre site at northeast corner of the West 105th Street and South Normandie Avenue, Los Angeles, California.

Apartment Building, National Core, *Los Angeles, CA.* QA/QC. Provided quality assurance and quality control during the geotechnical investigation for a 4 to 5-story apartment building with 1st floor and 1-level subterranean parking. The project consisted of demolishing the existing Red Cross commercial buildings and construction of a 60-unit apartment complex with 1st floor and subterranean level parking.

Wilshire/Vermont Mixed Use Project, *Los Angeles, CA.* QA/QC. Provided quality assurance and quality control during the geotechnical investigation and observation. The project consisted of 380 residential apartment units located on six levels built over approximately 30,000 square feet of commercial space on the ground floor. The project also included approximately 900 parking spaces located in three subterranean levels.

Housing And Parking Structure, *Mt. San Antonio Gardens, CA.* QA/QC. Provided quality assurance and quality control during the geotechnical investigation and observation. The project consisted of a split-level housing and subterranean parking structure. The parking structure is approximately 405 feet in length by 150 feet in width, with two levels occupying the southern 125 feet of the structure and three levels occupying the northern end.

La Loma Hills/ Pellisier Ranch Development, *Colton, CA.* Principal in Charge. Provided technical support and budget oversight for geotechnical/geohazard evaluation for the project. The approximately 1,431 acre site is bounded by the Santa Ana River on the north and west, undeveloped land and residential development to the east, and by a partially developed light industrial development to the south within the City of Colton, California.

Forecast Homes, *Various Locations, CA*. Principal in Charge. Provided technical oversight and resource management for geotechnical investigations, geotechnical observation and testing during grading for various project sites, extending from Oceanside in San Diego County to Acton in north Los Angeles County. The projects included development of single-family residential homes.

Joseph Nicholas Homes, *Redlands, CA.* Principal in Charge. Provided technical oversight and resource management for the geotechnical investigation for a 64 acre residential development in the city of Redlands.

The Arbours, *Pomona, CA.* Principal in Charge. Provided technical oversight and resource management for the geotechnical investigation for the project which is located in the City of Pomona, California, and is approximately 20 acres in size. The development consists of 156 residential units with associates roads, curb and gutter, utilities and other appurtenances. The project was constructed in multiple phases over several years.

Campanula Apartments, *Temecula, CA.* Principal in Charge. Provided technical oversight and resource management for the project which consisted of 123 one bedroom, 141 two bedroom and 24 three bedroom dwelling units. The buildings were four stories and were constructed of

wood frame with stucco walls and shallow footing foundations. Associated with the development was a club house, access road, parking stalls and above and underground utilities.

Paseo Del Sol Residential and Commercial Development, *Temecula, CA.* Principal in Charge. Provided technical oversight and resource management for the Paseo Del Sol site which is located in the City of Temecula, California. The site is bounded to the north by De Portola Road, to the east by Butterfield Stage Road to the south by Temecula Parkway and to the west by Mantova Drive. The northern, upper superpads will be lowered by approximately 10 to 20 feet and the southern, lower superpad will be raised by approximately 5 to 15 feet. The northwestern superpad and the western portion of the southern superpad will be used for multi-family residences. The northeastern superpad and the eastern two-thirds of the southern superpad will be combined and used for retail and commercial purposes.

Reservoirs

Dearborn 10.6M Gallon Reservoir, *Redlands, CA.* Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The 10.6-MG Dearborn Reservoir was located near the intersection of Dearborn Street and Independence Avenue in the City of Redlands. The partially buried rectangular reservoir was approximately 328-feet by 198-feet in plan dimension. The City of Redlands was considering repair/retrofit of the roof. This included constructing drop panels at the roof/column interface. The retrofit consisted of constructing larger column (not perimeter wall) footings around the old footings to distribute the increased roof and column loads over the concrete reservoir floor.

Benson Avenue Treatment Plant Reservoir No. 3, *Chino, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The 1.50-MG capacity steel reservoir was located within the Benson Avenue Treatment Plant in Chino, California. Built in 1961, the above grade reservoir was 44 feet in height. The purpose of our investigation was to verify existing foundation condition and provide geotechnical and seismic parameters to retrofit the existing water reservoir to comply with the present seismic codes.

Jurupa Community Services District Indian Hills Reservoir, *Jurupa Valley, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical materials testing. The project was located at the Bain Street Pressure Reducing Site which was located on Bain Street in Jurupa Valley, California and consisted of sub-grade preparation and base course placement for the pressure reducing structure and various pipelines. The other portion of the project included the Indian Hills Facilities Improvement Project which was located east of the intersection of Camino Real Drive and Cottontail Court in Jurupa Valley, California and consisted of sub-grade preparation of a generator building pad and retaining wall structures.

Linden Reservoir Modification, *Riverside, CA.* Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project site was located southwest of the intersection of Iowa Avenue and Linden Street in Riverside, California. There are multiple utility lines including electricity, gas, irrigation, sewer, telephone, high voltage conduits running along and across the proposed improvement site. The piping improvements consisted of installing a 42 inch water supply main north inlet to Linden Reservoir, and a 54 inch water supply main (suction) to Linden Reservoir Booster Pump Station Supply line. The total length of the piping improvements was approximately 60 feet.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

San Gabriel Valley Water Company F31 Plant Reservoir, *Fontana, CA.* Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The proposed Plant F31 Project site was located at 16177 Baseline Avenue in the City of Fontana, California. The project consisted of the construction of one new 0.75-million-gallon (MG) water reservoir, 65 feet in diameter and 30 feet high; a concrete block building, 33.33 feet wide by 53.33 feet long to house booster pump equipments; a water production well; associated pipelines; concrete block walls and wrought iron fencing; pavement and landscaping.

Rattlesnake Reservoir Evaluation, *Fallbrook, CA.* Principal in Charge. Provided technical and budget oversight for the project which consisted of a geotechnical and seismic evaluation of the Rattlesnake Reservoir site located in the City of Fallbrook, San Diego County, California. The steel 3.6 MG Reservoir has a diameter of 114 feet and a height of 48 feet and was installed in 1955.

Sotelo Road Reservoir, *Perris, CA.* Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The site was approximately 2.88 acres in size was located to the east by Goetz Road, to the south by Sotelo Road in the City of Perris, California. The project consisted of construction of a 6 to 10 million gallon steel water storage reservoir. A water pipeline and an access road were constructed. The reservoir pad and adjacent slopes occupied nearly the entire subject parcel.

Plant 37 Replacement, *San Bernardino, CA.* Principal in Charge. The Plant 37 Replacement Project includes construction of a buried 4 million gallon reservoir, booster pump station, altitude valve, observation vault, pressure reducing station, isolation valve vault, inlet/outlet and under-drain pipelines, and a fifteen-foot wide asphalt access road. Piping from the reservoir extends from the reservoir south to Foothill Drive. Provided technical oversight including review of subsurface conditions along the pipe alignment and other associated structures. Assisted in preparing design recommendations and reviewed the final geotechnical investigation report.

Buried Reservoir, *Loma Linda, CA.* Project Manager. The subject project consisted of construction of an 8.0 million gallon reinforced concrete buried reservoir, a pump station and associated piping, conduits, parking lot, an access street and improvement of adjacent existing streets. As a project manager was responsible for the overall geotechnical services on this project. Directed the field investigation, field and laboratory data evaluation and preparing the design and construction recommendations**.**

5 MG Reservoir, *Rialto, CA.* Principal in Charge. This project consisted of a proposed new reservoir in Rialto. The reservoir proposed is to be pre-stressed concrete, 185 feet in diameter and 27 feet in height. Provided technical oversight including review of subsurface conditions along the pipe alignment and other associated structures. Assisted in preparing design recommendations and reviewed the final geotechnical investigation report.

RP-4 Out Fall Pipeline, Pump Station and Water Reservoir, *Chino Basin Municipal Water District, CA***.** Project Manager. The project consisted of 44,000 linear feet of 42-inch diameter pipeline, a pump station, a 2.6 million gallon below grade water reservoir and a chlorination facility. The pipeline traversed underneath existing reinforced concrete box culverts and railroad

tracks. As a project manager was responsible for the overall geotechnical services on this project. Directed the field investigation, field and laboratory data evaluation and preparing the design and construction recommendations**.**

Recycled Water, Phase I, *City of Corona, CA.* Principal in Charge. The project consisted of three water reservoirs, 30-mile of pipeline, modification to existing wastewater treatment plants and pump stations. Provided technical oversight including review of subsurface conditions along the pipe alignment and other associated structures. Assisted in preparing design recommendations and reviewed the final geotechnical investigation report.

Vineland Tank, *Cherry Valley, CA.* Principal in Charge. The tank is located in an unincorporated area of Riverside County within the community of Cherry Valley. The 2 MG tank is adjacent to an existing District owned 1 MG above ground steel tank. The facilities constructed include: One 104' diameter by 32' high steel storage tank constructed on an at-grade concrete ring foundation, approximately six-foot high masonry block wall, asphalt concrete paved access road, pipeline installation (approx. 4' to 6' deep); pipeline material will be ductile iron or cement mortar lined and coated steel pipe. Provided technical oversight including review of subsurface conditions along the pipe alignment and other associated structures. Assisted in preparing design recommendations and reviewed the final geotechnical investigation report.

Creag/Vista/Homeland Tank, *Riverside County, CA.* Principal in Charge. The project consists of construction of a 4.6 MG welded-steel water tank at grade. The circular water tank measures 120 feet in diameter and 40 feet in height. Earthwork for the tank pad preparation included excavation and backfilling of on site-storm drains. The Vista/Homeland Supply Pipeline Project consisted of construction of approximately 2,400 linear feet of 12-inch diameter PVC inter-tie pipeline and 3,300 linear feet of 18-inch diameter CML&C supply pipeline. Provided technical oversight including review of subsurface conditions along the pipe alignment and other associated structures. Assisted in preparing design recommendations and reviewed the final geotechnical investigation report.

Benson Avenue Treatment Plant, *Chino, CA.* Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The 1.50-MG capacity steel reservoir is located within Benson Avenue Treatment Plant at 11840 Benson Avenue, Chino, California. Built in 1961, the above-grade reservoir is 44 feet in height. The purpose of the project is to verify existing foundation condition and provide geotechnical and seismic parameters to retrofit the existing water reservoir to comply with the present seismic codes.

Commercial and Office Buildings

Contai Retail & Office Building, *Ontario, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation and percolation testing. The project consists of the construction of a 2-story, approximately 37,070 square foot commercial building. Approximately 14,880 square feet of the first floor will be used for retail stores and the remaining portion will be used as garage. The 22,880 square feet of the second floor will be a medical plaza.

Banning Office Buildings, *Banning, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation and percolation testing. The project consisted of a 4.15-acre site located at the southeast corner of 8th Street and Lincoln Avenue in the City of Banning, California. It is planned to put 2 office buildings at 10,000 square feet on 1.15 acres or 4 office buildings in 2.15-acres. Associated with the buildings will be

underground and above ground utilities and a detention basin.

Ontario Town Square Plaza, *Ontario, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation. The project included a proposed amphitheater and clock tower site. The 1.5-acre project site was located on the 200 block of North Euclid Avenue in Ontario, California. The project consisted of a 40-foot by 40-foot amphitheater with roof, 40-foot tall clock tower with an 18-foot by 18-foot base building, concrete walkway, permeable pavers, and landscaping.

Casa Del Sol Oasis Plaza, *Desert Hot Springs, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the percolation testing for the project. The project was located at the northeast corner of Palm Drive and 2nd Street in Desert Hot Springs, California. The site was bordered on the west by Palm Drive, on the north by 3rd Street, on the east by an alleyway, and on the south by 2nd Street. The site was undeveloped with sparse desert shrubs. There were some cobbles and boulders up to 1-foot in diameter scattered on the surface.

T-Mobile Facility, *Irvine, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation. The project was a T-Mobile facility located at 2008 McGaw Avenue, City of Irvine, Orange County, California. The project consisted of an existing 27,300-square-foot single-story facility which contained offices, server rooms, a warehouse, a sloped loading dock. To accommodate the new equipment, an additional 8- to 10-inch-thick approximately 2,600-square-foot concrete slab was poured over the existing slab within the warehouse. A one hour rated steel-framed enclosure with roof was constructed atop the new slab. The equipment was bolted to the slab. The sloped loading dock was filled with compacted soils to depths between 0.0 and approximately 4.0 feet and a concrete slab measuring 8 inches thick was poured to create a level surface.

Chino Retail Shopping Center, *Chino, CA*. Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation. The proposal retail site is located at 4076 Chino Avenue in the City of Chino, California. The approximately 2.0-acre site is being developed as a retail shopping center. The conceptual grading exhibit indicated a 2,400 s.f. building in the southeastern corner, an 8,000 s.f. building in the western portion, and a 10,600 s.f. building along the northern portion of the site. We assumed each building will be one-story and will be wood or masonry construction supported on shallow footings with a slab-on-grade. The remainder of the site will be used for driveways, parking areas, and landscape areas. Underground infiltration structures are planned outside of the building footprints along the southern portion of the western perimeter, and the central portion of the southern perimeter. The project will also include above and underground utilities.

Haliburton Warehouse Modification, *Ontario, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation and material testing. The project consisted of modifying the existing Toyo Ware House building which was 909 feet long and 342 feet wide for the proposed Haliburton Food storage and distribution facility. The proposed modification included a freezer, storage racks, two-story mezzanine building, one-story office rooms, condenser frames, and nitrogen tanks. The proposed modifications were located within and outside the existing building.

San Fernando Mission Mausoleum, *Mission Hills, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation. The San Fernando Mission Cemetary is located on the easterly side of Stranwood Avenue in the Mission

Hills Section of the City of Los Angeles, California. The project consisted of the design and construction of a two-story Mausoleum along the easterly edge of the property. The structure was 12,331 square feet in size and was primarily a reinforced concrete structure.

Liberty Baptist Church, *Newport Beach, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation. The existing Liberty Baptist Church is located at 1000 Bison Avenue, in the City of Newport Beach, California. The proposed project included construction of a two story classroom building to the westerly side of the existing administration building and the two story gymnasium to the northwest corner of the site.

Sierra Business Center, *Fontana, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation, and materials testing and inspection services. The project consisted of construction of 12 buildings ranging from approximately 30,000 to 750,000 square feet and associated driveways, parking areas, streets, sidewalks, and utilities.

The Marketplace at Baldwin Park, *Baldwin Park, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation, and testing. The project consisted of construction of a 24-acre site. Commercial development planned at the site included a Super Wal-Mart and 6 other stores.

Two Commercial Structures, Pardee Plaza, *Camarillo, CA.* QA/QC. Provided quality control oversight for the geotechnical investigation, observation and testing. The project consisted of the construction of two commercial buildings (bank and restaurant) within the existing Pardee Plaza in Camarillo, California.

Country Hill Retail Shopping Center, *Diamond Bar, CA.* QA/QC. Provided quality control oversight for the geotechnical investigation, observation and testing. The project consisted of improvements to the shopping center, including demolition of existing buildings and construction of new buildings.

Ontario Center, Phase I and II, *Ontario, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical observation and testing, and materials testing and inspection services. The project consisted of construction of two major retail stores, a shop building, eight satellite buildings, and a 4-story hotel.

Stoneridge Towne Centre Retail Stores, *Moreno Valley, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation and testing. The project included construction of an approximately 150 acre site in the city of Moreno Valley, Riverside County, California. The project included retail stores located within the Towne Centre, including Target, Kohl's Store's, and twenty-one one-story retail store structures

Target Building – Whittwood Mall Improvements and Expansion, *Whittier, CA.* QA/QC. Provided quality control oversight for the geotechnical investigation, observation and testing. The Target Building is one-story retail building with steel frame, tilt-up concrete walls, and concrete slab. The dimensions of the Target building are about 400 feet by 390 feet. The project also included loading deck and retaining walls with ramp.

General American Building, *Redlands, CA.* Principal in Charge. Provided overall quality control of the materials testing and inspection during construction. The project consisted of construction of a multi-story office building.

Eastvale Gateway, *Riverside County, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation and materials testing and inspection services. The project consisted of construction of retail stores, a 16-plex theater, an access road and parking areas.

Nestlé's Distribution Warehouse, *Mira Loma, CA.* Principal in Charge. Provided quality control and technical assistance with the report preparation. The project consisted of the construction of a state-of-the-art warehouse facility of 900,000 square feet.

The Ontario Center, Phase I and II, *Ontario, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical observation, materials testing and inspection. This project consisted of construction of two major retail stores, a shop building, eight satellite buildings, and a 4-story hotel.

Ontario Convention Center, *Ontario, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the materials testing and inspection during construction. The project consisted of the construction of the Ontario Convention Center, which comprises a total of 225,000 square feet, including a 20,000 square foot ballroom, 20,000 square feet of meeting rooms and a 70,000 square foot column-free exhibit hall on 17.5 acres near the Ontario Airport.

Millard Refrigeration Facility, *Mira Loma, CA.* Project Manager. Supervised field investigation and report preparation, assumed overall technical responsibility, attended project meetings, and assisted with project coordination. The project consisted of construction on an 800,000-square foot warehouse facility.

Weyerhaeuser Parking Expansion, *Fontana, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation, observation and testing. The project consisted of construction of asphalt concrete paved parking on a five (5) acre site, east to existing Weyerhaeuser facility.

Wal-Mart Store, *Fontana, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation. The planned total building area was about 211,568 square feet. Associated with the store were 1,048 parking stalls, underground and above ground utilities and other appurtenances generally associated with such a retail store.

Libraries

El Sereno Library, *City Of Los Angeles, CA.* Principal in Charge. Deep fill encountered at the project site requiring over-excavation and re-compaction of the fill materials. The building is supported on spread footings bearing on properly compacted fill.

Temecula Public Library, *City of Temecula, CA.* Principal in Charge. This project consisted of a proposed six-acre library site located west of Fire Station 84, 30650 Pauba Road and north of

Pauba Road. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation to assess suitability of the site for the library.

Woodcrest Library, *City of Riverside, CA.* Principal in Charge. The approximately 6-acre site is located southeast of the intersection of Krameria Avenue and Trisha Way in the city of Riverside. The site is to be developed to support an approximately 10,000 square foot library building, and associated parking area. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation to assess suitability of the site for the library.

Mentone Senior Center and Library, *San Bernardino County, CA.* Principal in Charge. The approximately 10-acre rectangular-shaped property is located northwest of the intersection of Mentone Boulevard and Opal Street in the Mentone area of San Bernardino County. The southern portion of the site is to be developed to support the 7,500 square foot one-story senior citizen/library building, and associated parking area. The remainder of the property will be developed as a park with picnic shade structures, storage, and restroom structures, walkways, sidewalks, curb and gutters, landscaped areas and under- and above-ground utilities.

Huntington Library Annex-The Huntington Library, Art Collections & Botanical Gardens, *San Marino, CA.* Principal in Charge. The project site is located to the north of the existing Huntington Library building on the grounds of The Huntington Library, Art Collections, and Botanical Gardens. The proposed annex will be built adjacent to the existing library building and consist of three levels, including a one level basement.

Rubidoux Library, *Rubidoux, CA.* Principal in Charge. Provided technical and budget oversight for the project. The new Rubidoux Community Library is located west of the intersection of Riverview Drive and Mission Boulevard in the Rubidoux area of Riverside County. This project consisted of the construction of a new Community Library on approximately six (6) acres of land with two (2) buildings - the upper library building of approximately 22,312 square feet, and the lower library building of approximately 16,821 square feet. The project included underground utilities, landscape, paving, walls and fencing, light poles, miscellaneous on-site and off-site utilities. The project also included Mission Boulevard and Riverview Drive street improvements.

Highgrove Library, *Riverside County, CA*. Principal in Charge. Provided technical and budget oversight for the project. The project was located on a 1.5 acre site at Center Street and Michigan Avenue in Riverside, CA and consisted of a new 7,000 square feet single-story, stucco & stone veneer, type V construction library with parking and landscaping. The project will also include on-site and off-site underground utilities, and minor street work, including curbs and gutters.

Central Library Renovation, *Commerce, CA.* Principal in Charge. Provided technical and budget oversight for the project. The Central Library Renovation consisted of new electrical, data, and mechanical systems, window upgrades, new roofing, and new insulation for 11,866 SF of existing library and 591 SF of public restrooms. The Central Library is part of the larger City Hall complex.

Ontario Museum of History & Art, *Ontario, CA*. Principal in Charge. Provided technical and budget oversight for the project. The project site was located at 225 S Euclid Avenue in the City of Ontario, California. The two-story museum structure is situated within the roughly square-

shaped parcel and is surrounded by landscaping on the north, west, and south, and a parking lot on the east. The landscaping surrounding the Ontario Museum of History and Art will be replaced with more drought resistant California native plants. After the existing landscaping is removed, minor re-grading of the site will be performed to create proper drainage. Surface run-off will be infiltrated into the ground. No structures are planned as part of these improvements.

Parks

Bon View Park, *Ontario, CA.* Principal in Charge. Provided quality control oversight, contract management, and assisted in resource allocation for the design phase of the project. The project consisted of the design and construction of a 20 foot long by 20 foot wide pre-manufactured restroom building, two (2) dry wells to the drain storm water runoff, and parking lot within the park along Bon View Avenue. The project was located off South Bon View Avenue and north of Bon View Elementary School within the City of Ontario, San Bernardino County, California.

Butterfield Park Parking Lot Expansion*, Corona, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the observation and materials testing of the project. The project consisted of the expansion of the Butterfield Park parking lot and ADA travel path in the City of Corona, Riverside County, California.

Redlands Heritage Park, *Redlands, CA.* Principal in Charge. Provided quality control oversight, contract management, and assisted in resource allocation. The project consisted of a 20-acre site which was located at the southeast corner of Nevada Street and Orange Avenue in the City of Redlands, California. The site was named “Redlands Heritage Park” and the improvements included amphitheater/150-200 person capacity, a parking lot/85 spaces, a restroom building, trails/both concrete and decomposed granite, a bridge over riparian zone and a future park maintenance garage.

Moonridge Animal Park, *Big Bear, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation report. The project site for the Moonridge Animal Park was located at the Intersection of Moonridge Road and Club View Drive in the City of Big Bear, California. The site was built in phases. Phase 1 provided housing for all of the animals currently in the zoo collection. Included in Phase 1 was the entry plaza, amphitheater, animal holding building, restaurant, gift shop, administration building, toilets, maintenance building and yard, and all holding buildings to support exhibits. Phase 2 provided permanent, fully built-out exhibits for the species housed in temporary exhibits in Phase 1. Included in Phase 2 were the education building, the reptile house, and the permanent nocturnal house.

“E” Street Park, *San Bernardino, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation for the project which was located at the northwest corner of 9th and “E” Street in the City of San Bernardino, California. The project included the development of the site as a public park which included a prefabricated building with CMU walls, shade canopies, parking lot, concrete basketball court, skate area, water play area, walkways and light posts. The majority of the site was vacant. Three existing residences and a detached garage located near the southwest corner of the site were demolished.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Erwin Ranch Sports Complex, *Big Bear, CA.* Principal in Charge. Provided quality control oversight, contract management, and assisted in resource allocation. The project consisted of a renovation of a two-story clubhouse building which was approximately 125 feet by 50 feet in area and founded on shallow footings. Also included in the project was the replacement of the existing pool which had a gunite floor and the new pool had a panelized system on a concrete floor.

Bryant Park Fitness Center, *Riverside, CA.* Principal in Charge. Provided quality control oversight, contract management, and assisted in resource allocation. The project consists of an 11,508 square foot building and surrounding hardscape to support a Multi-Purpose Sports Complex. The building was constructed of concrete, masonry and steel. The development also included underground utilities and parking areas.

Jurupa Valley Aquatic Center, Rubidoux, *Riverside County, CA*. Principal in Charge. Provides resource and budget oversight, technical review and contract management for the geotechnical observation and testing, and materials testing and inspection. The project consists of a planned approximately 15,000-square-foot administration and operations building, 220 parking spaces, 25 yard by 35 yard competition pool, water playground area, and three water slides with a recreation pool.

Palmdale East Side Aquatic Park, *Palmdale, CA.* QA/QC. Performed quality control oversight for the geotechnical observation and materials testing and inspection services for the project, which included a Community Center Building, Concession Building, Pool Facility Building, Pools, Restrooms, Flat Work and Parking. Structures are wood/steel framed with masonry walls and concrete slabs.

Jameson Community Park, *City of Corona, CA.* Principal in Charge. Provided quality control oversight, contract management, and assisted in resource allocation The proposed amenities at the Jameson Community Park will include basketball courts and softball fields, playgrounds, picnic shelters, restroom building, and other improvements. The site is located south of Foothill Parkway, between Rimpau Avenue and Fullerton Avenue in the City of Corona, California.

Ronald Regan Sports Park, *Temecula, CA.* Principal in Charge. Provided quality control oversight contract management and assisted in resource allocation. Converse provided geotechnical design services including seismic hazards analyses, probalistic seismic response spectra, liquefaction analyses and extensive mapping for this large regional sports park that includes structures, parking and playing fields.

Northwest Sports Complex, *City of Temecula.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation and seismic hazard analysis. The sports complex comprises one baseball field, two softball fields, two soccer fields, batting cages, and a large picnic area, snack bar/restroom/maintenance building and on-site parking areas, roads, storm drains, waterlines, landscaping and irrigation, traffic signals and lighting for the parking areas and roads.

Prado Regional Park Picnic Shelter Replacement, *Chino, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation. The project included a re-fabricated picnic shelter building, supported by 8 columns.

Temescal Valley Regional Sports Park, *Temescal Valley, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical

investigation. The Temescal Valley Regional Park is located at the southwest corner of Santiago Canyon Road and Sunflower Lane, in the community of Temescal Valley, California. The park development includes various playgrounds, shade structures, restroom and concession buildings, parking lots, lighting systems, and other improvements.

Santa Ana River Trail, *Colton, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation and construction phase. The project consisted of various improvements to the Santa Ana River Trail at four different locations along the eastern bank of the Santa Ana River Channel from Colton Landfill to Riverside Avenue. The trail had an asphalt concrete surface and to accommodate bicycle and pedestrian traffic. The improvements consisted of a new single span metal or concrete arch bridge, with about 10 to 20 feet of span, a concrete retaining wall and/or concrete rock slope protection under the Riverside Avenue Bridge, construction of embankment, and excavation/rippability of rock evaluation. Additional improvements included striping of pavement, signage and addition of landscape.

San Sevaine Trail, *San Bernardino County, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation. The project included construction of 1.25-mile long Class I bike and pedestrian trail. The trail ran parallel to the San Sevaine Channel. An existing asphalt maintenance road was striped and signed to be used for bike path to create a 16-foot wide, concrete-paved multi use trail between Banyan Street and the Pacific Electric Trail. The project expanded existing segments of San Sevaine Channel maintenance access roads and fill the gaps with new construction. Additionally, gap fillings in the maintenance road were constructed under the I-15 and SR-210 freeways and 6 foot to 8 foot retaining wall was constructed.

Fergusson Park Improvements, *Rialto, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation. The project consisted of various planned improvements within Fergusson Park located along the northwest corner of the intersection of North Alder Avenue and West Casa Grande Drive within the City of Rialto, San Bernardino County, California. The proposed improvements included two (2) football fields, a parking lot (218 stalls), a basketball court, a restroom and concession building, sports field lighting, elevated aluminum bleachers, and announcer/coaches booth.

El Cerritos Sports Park, *Riverside County, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical observation and testing. The project consisted of installation of approximately 240 linear feet of 12-inch diameter recycled water pipeline along various sections of El Cerrito Road (including a section within Caltrans right-of-way) utilizing the open cut-and-cover technique. The project also included approximately 500 feet of street pavement reconstruction along both west bound lanes of El Cerrito Road adjacent to El Cerrito Sports Park.

Mary Van Dyke Park Improvements, South El Monte, *Los Angeles County, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation. The proposed site improvements consisted of construction of a one-story restroom/recreation building of approximately 3,000 square feet in dimension, two playgrounds, picnic shelters, light poles, and concrete flatwork.

Hunter Hobby Park Improvements, *Riverside, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation and construction phase. The

proposed project involved the expansion of the existing Hunter Park, including construction of new picnic shelters, new ball fields (softball and soccer), tennis and basketball courts, a new train station, a concrete-lined lake, playgrounds, parking lot improvements and a restroom facility.

Jurupa Valley Soccer Park, *Riverside County, CA*. Principal in Charge. Provided quality control oversight, contract management, and assisted in resource allocation for the geotechnical investigation for the project. The park will likely include sixteen (16) soccer fields of various sizes, playground areas, soccer field and perimeter street lighting, drinking fountains, picnic shelters, standard vehicle and RV parking, a storage building, restroom/concession building, asphalt concrete perimeter walking trail, and other associated improvements.

Saddleback Butte State Park, *Lancaster, CA.* QA/QC. Provided quality control oversight during the geotechnical investigation for the upgrades of the nature trail. The trail will receive 2100 LF of new concrete surfacing, seating and interpretive improvements.

Audubon Nature Center, *East Los Angeles, CA.* Principal in Charge. Provided quality control oversight, contract management, and assisted in resource allocation for the geotechnical investigation and materials testing and inspection for the project. The Audubon Nature Center consists of the nature center building complex, adjoining garden and courtyard areas, hillside nature trails and parking lot.

Chinese Garden, Huntington Library Additions, *Huntington, CA.* Principal in Charge. Provided quality control oversight, contract management, and assisted in resource allocation for the geotechnical investigation for the project. The project involved the largest classical Chinese gardens ever built outside of China. Located in a largely undeveloped section of the Huntington's Library 207-acre grounds and framed by existing woodland, the Chinese Garden will include a lake, tea house, pavilions, bridges and numerous "poetic views," plus other natural and architectural features set amidst a landscape of plants native to China. Appurtenant structures will include extensive underground piping and drainage.

Perris Valley Big Dream Sports Park, *Perris, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation for the proposed development, which is located at the northeast corner of Trumble Road and Mapes Road in the city of Perris, California. The proposed The Big League Dreams Sports Park will occupy an area of about 37 acres and will include six (6) baseball/softball fields, an indoor field house, Stadium Club, Concession, Administration and Maintenance Buildings, a batting cage, playground and picnic areas, walkways, interior lighting, parking and other improvements.

Redlands Big League Dreams Park, *Redlands, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation for the proposed construction, which occupies an area of approximately 32 acres at the intersection of San Bernardino Avenue and Wabash Avenue, and includes 3 playing fields with light poles to height of about 80 feet, portable bleachers essentially at grade in lieu of concrete seating area, a stadium clubhouse with an area of approximately of 6,375 square feet, a multi purpose building with an area of about 21,000 square feet, a maintenance building with an area of 2,000 square feet, an administration building with an area of approximately 2,700 square feet, a batting cage and parking for 300 cars.

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Principal in Charge/Project Manager

Colton Big League Dreams Park, *Colton, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation for the proposed construction, which occupies an area of about 11.7 acres and is located between the 215 Freeway and Drivers World Parkway. The improvements include 3 replica ball fields, a 6,375 square feet Stadium Concession building, a 2,200 square feet Administration Building, a 2,000 square feet Maintenance Building, a 22,000 square feet multi-purpose arena, a batting cage, a tot play area and on-site parking for 195 cars.

Ontario Soccer Complex, *Ontario, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation for the proposed project, which consists of construction of a Soccer Complex on the vacant land located north of the 60 Freeway, and west of the Cucamonga Creek Flood Control Channel, in the city of Ontario, California. The 27-acre soccer complex includes seven (7) soccer fields of various sizes, a central activity plaza with a restroom/concession building, covered picnic area, drop-off area, a maintenance building, and parking space for about 384 cars.

Concourse and Mountain View Parks, *Lake Forest, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation. Concourse Park is located in the city of Lake Forest, Orange County, California. The site included a small parking lot, sidewalks, two (2) play grounds, two (2) gazebos, and a basketball court. Mountain View Park is located in the Portola Hills area within the city of Lake Forest, Orange County, California. The park included two (2) tennis courts, a gazebo, two (2) playgrounds, a basketball court, a baseball field, sidewalks and associated lighting. The park improvements included shade structure, restroom facilities, splash pads and replacement of play fields.

Munoz Community Center and Park, *Ontario, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation report and percolation testing. The project involved the Anthony Munoz Park and Community Center in Ontario, California. The improvements included construction of a community center including lobby, two multi-purpose rooms, two activity rooms, kitchen, and offices. Also, part of the project is the swimming pool, pool storage, pool equipment rooms, shade structure, tot lot, parking lot, gymnasium and landscape/hardscape.

La Quinta Sports Complex Core Area Renovation, *La Quinta, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation. The La Quinta Sports Complex is approximately 16.75 acres and is located on Desert Sand Unified School District (DSUSD) property. The project consisted of planned renovations of the “Core Area” within La Quinta Sports Complex, including demolition of the existing flatwork, grading, drainage construction, installation of a new pre-fabricated restroom facility, construction of new porous pavement and picnic shelter, fence replacement, and installation of new irrigation and landscape.

Doris Davies Park, *Victorville, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation for the proposed 4.6-acre expansion of the Doris Davies Park, located at the northwest corner of Pebble Beach Road and Austin Road in the city of Victorville, California. The expansion includes basketball, soccer/baseball, parking lot, lighting systems, sidewalks, and other improvements.

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Principal in Charge/Project Manager

Sunset Ridge Park, *Victorville, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation for the proposed Sunset Ridge Park, which is a 17-acre site located at the northwest corner of Eucalyptus Street and Topaz Road in the City of Victorville, California. The proposed development includes soccer, softball and baseball fields, basketball and tennis courts, open space areas, community, concession, maintenance and restroom buildings, group picnic structures, parking lot and lighting systems, and other improvements.

Dunlap Park, *Yucaipa, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation. The proposed 5.1-Acre Dunlap Park project consists of the construction of an approximately 7,200 square foot cultural resources community service building, 20,000 square foot parking lot, 71,700 square foot lake, playground, multi-purpose trail, outdoor amphitheater, pedestrian walkway hardscape improvements, access road, two picnic areas, landscape, and light poles.

Marna O'Brien Park Improvements, Wildomar, *County of Riverside, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation and observation for the development. The Marna O'Brien Park site covers 13-acres and is roughly "L" shaped. The site is bounded by Palomar Street on the north, and residential housing on the south, west and east. Park improvements include construction of a picnic shelter, restroom building, asphalt concrete parking areas, concrete walkway, child and tot playground, basketball courts and soccer fields, lightning posts, and basketball half court.

Lagos De Moreno Park Improvements, *Brea, CA* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation. The site was located at the corner of Flower Avenue and Birch Street in Brea, California. The project consisted of the construction of a shade structure, restroom, concrete paving, ADA ramps, retaining walls, storm drain inlet conversion, park monument, fencing, concrete sidewalk and driveways.

Concourse and Mountain View Parks, *Lake Forest, CA* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation. The site was located at Mountain View Park in the Portola Hills area within the city of Lake Forest, Orange County, California. The park included two (2) tennis courts, a gazebo, two (2) playgrounds, a basketball court, a baseball field, sidewalks and associated lighting. The park improvements included shade structure, restroom facilities, splash pads and replacement of play fields.

Memory Lane Park, *Santa Ana, CA* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation. The site was located at the Memory Lane in Santa Ana, California. The proposed improvements to the park included shade structures, picnic area, bike and equestrian paths, playground, river rock dry stream, irrigation system, walkways, monument signs, fencing and exercise fitness area.

Perret Park Improvements, *Lake Elsinore, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation and observation for the development. Park improvements included construction of split-face CMU block wall at property line, restroom building, 8 feet wide wooden floating dock, gazebo on piers at the end of floating dock, asphalt

concrete and stabilized decomposed granite parking areas, concrete walkway, child and tot playground, and basketball half court.

Fairmount Park, *Riverside, CA.* Principal in Charge. Provided quality control and technical oversight for the materials testing and inspection performed during construction of the project. The subject site is an existing park located approximately one (1) mile west from the junction of State Highways 91 & 60. The site is bounded by Market Street at the northern side with Redwood Drive traversing the park. The development included the construction of a gazebo and a new roof on an existing shade structure.

Schaffer Park Renovation, *Orange, CA*. Principal in Charge. Provided quality control and technical oversight for the materials testing and inspection performed during construction of the project. The site was located at 1930 N. Shaffer Street, in Orange, California. The project consisted of the renovation of the existing community building, a new community building, enlarge/reconfiguration of a parking lot, a new concession building with restrooms and utility storage room and new walkway with other smaller improvements.

Eller Park, *Corona, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation and observation for the development. The park site was approximately 5.24 acres and was located at the northeast corner of Antelope Road and Highway 74. The project consisted of the following: baseball/softball diamond, basketball court, playfield/tot lot areas, security lighting, drinking fountain, shade structure, parking, multi-purpose field within open grass area, benches, outdoor exercise stations, perimeter fencing, picnic areas, perimeter walking path, and bollards.

Kessler Park Improvements, *San Bernardino County, CA*. Provided quality control and technical oversight for the materials testing and inspection performed during construction of the project. The project was located at 18400 Jurupa Avenue, south of Jurupa and west of Linden Street in the Bloomington area of San Bernardino County, California. The project consisted of improvements of about 750 linear feet of Jurupa Avenue adjacent to Kessler Park and reconstruction of the park parking lot.

Mauel Park, *Corona, CA*. Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation and observation for the development. The park was approximately 8.96 acres and located at the southwest corner of 10th Street and Lakeview Avenue. The project consisted of the construction of the following: baseball/softball diamond, basketball court, playfield/tot lot areas, security lighting, drinking fountain, shade structure, parking, skate park facility, future community center, multi-purpose field within open grass area, benches, outdoor exercise stations, perimeter fencing, picnic areas, asphalt perimeter and walking trail, bollards, and restrooms.

Electric Avenue Park, *San Bernardino, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation and observation for the development. The Electric Avenue Historic Park site is located on the east side of Electric Avenue between 40th Street and Northpark Avenue, within the City of San Bernardino, California. The project includes construction of an exercise and biking trail, entry monument, Red Car plaza, Red Car shelter, Soap Box Derby plaza, corner kiosk, trail rest station, pathway lights, pedestrian path, and other associated amenities.

Lake Alameda Access Path, *Burbank, CA.* Principal in Charge. Provided quality control and technical oversight of the geotechnical investigation and observation for the development. The project consisted of construction of 0.28 miles of 6 to 12 feet wide concrete access path along the Los Angeles County Flood Control Channel from Victory Boulevard to Alameda Avenue in Burbank, California. Other improvements associated with the access path included: pipe to carry the surface run-off to the drainage channel, about 400 linear feet retaining walls varying from three (3) to eight (8) feet in maximum height separation from the residential property from the access path, access points, fence layout, lighting, and curb.

Ontario Town Square Plaza, *Ontario, CA.* Principal in Charge. Provided quality control and technical oversight. The site was used for vehicle parking. The site is bounded by North Euclid Avenue to the west, North Lemon Avenue to the east, West C Street to the north, and West B Street to the south. The project consisted of a 40-foot by 40-foot amphitheater with roof, a 40-foot tall clock tower with an 18-foot by 18-foot base building, concrete walkway, permeable pavers, and landscaping.

Rio Hondo Park Soccer Field Lighting, *Pico Rivera, CA.* Principal in Charge. Provided quality control and technical oversight for the geotechnical investigation. The project will include installation of six (6) Musco Light Poles along the perimeters of the soccer field within Rio Hondo Park located in the City of Pico Rivera, Los Angeles County, California.

K-12

Schurr High School Track & Field Renovations, *Montebello Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation. The project included renovations to the track and field area and addition of bleachers and two restroom buildings. Converse's responsibilities consisted of the testing of soils and materials during construction, including aggregate base, concrete, masonry, asphalt, and steel.

Alternative Education Campus, *Moreno Valley, CA.* Principal in Charge. Performed quality control and budget oversight for the soils observation and materials testing and inspection for the project. The project was part of the Alternative Education Campus located in the City of Moreno Valley, California. The project consisted of two (2) permanent buildings, A (3,860 square feet) and B (14,260 square feet), located in the center portion of the site, and several modular-type structures/classrooms (Buildings C through J) in the northwest and southwest portions of the site. The permanent building was one to two-story structures. There are two (2) shade structures and five (5) re-locatable restrooms.

Principal in Charge. Performed quality control and budget oversight for the soils observation and materials testing and inspection for the project.

Richard Browning High School No. 2, *Long Beach Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation. The

proposed project involves the new construction of a 9-12 grade small high school serving roughly 800 students on a vacant and undeveloped site on the corner of Redondo Avenue and Hill Street in Long Beach, CA. Design features includes two-story classrooms, labs, administration, and cafeteria/multipurpose room buildings on the perimeter, surrounding a central open courtyard. The project also includes a covered amphitheater, dining area, and athletic fields.

Berendo Middle School Gymnasium, *Los Angeles Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation. The project consists of replacing the existing modular buildings and handball/basketball courts with a new gymnasium building. The proposed new gymnasium building is expected to be approximately 20,000 square feet.

Moreno Valley High School Additions, *Moreno Valley, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation. The proposed additions are located within the Moreno Valley High School, which has a street address of 23300 Cottonwood Avenue in the City of Moreno Valley, Riverside County, California. These additions include a performing arts building which is currently a parking lot, a culinary arts building with eight additional classrooms is currently partially occupied by another school building and a 30-classroom building which is currently occupied by tennis courts.

George Brown Elementary School, SBCUSD, *San Bernardino, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation and the soils observation and materials testing and inspection for the project. The project consisted of the design and construction of a 52,564 square feet of nine (9), one-story buildings and other facilities including an administration building, kindergarten/kitchen, library/computer lab, a multi-purpose building, five (5) one-story classrooms, playfields and a parking area.

Lankershim ES Modernization/Additions, SBCUSD, *San Bernardino, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation and the soils observation and materials testing and inspection for the project. The project included proposed construction of a modular kindergarten building approximately 1,440 square feet and a two-story permanent modular classroom building with 8,064 square feet per floor for a total plan dimension of 16,128 square feet. The modular classroom building included twelve (12) classrooms and an elevator. Steel frames with shallow foundations were planned to be constructed to support the proposed buildings.

Colton Joint Unified School District, *Colton, CA.* Principal in Charge. Performed quality control and budget oversight for the project which consisted of the Colton Joint Unified School District's modernization of the Ulysses S. Grant Elementary School, Abraham Lincoln Elementary School and Mary B. Lewis Elementary School and modernization, and a new 4,030 square foot one-story administration building at the Crestmore Elementary School in Colton, California.

Yucaipa High School Stadium Bleachers, *Yucaipa, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation. The Yucaipa High School Stadium Bleachers project was located at 33000 Yucaipa Boulevard, in the City of Yucaipa, California. The existing bleachers were approximately 160 feet long from north to south and 30 feet wide from east to west. There was a sidewalk and running track between the bleachers and

the football field, and dirt areas north and south of the current bleachers. YCJUSD constructed new visitor bleachers, including ramp and stairway along the north and south sides of the existing bleachers.

Yucaipa High School 9-12 Consolidation, *Yucaipa, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical observation and testing, and materials testing and inspection services. The Yucaipa High School 9-12 consolidation project consisted of relocating twelve (12) existing DSA approved portable classrooms and one (1) portable restroom from their current locations to new locations, which are north of the mechanical shop building at the Yucaipa High School, Yucaipa, California. Each modular classroom building was about 40 feet long by 24 feet wide and the restroom was about 40 feet long by 12 feet wide.

Chaparral & Temecula Valley High School Stadium Refurbishments, *Temecula, CA.* Principal in Charge. Performed quality control and budget oversight during the design and construction phases of the project which consisted of proposed stadium refurbishment projects at Chaparral High School (CHS) and Temecula Valley High School (TVHS) located in the City of Temecula, Riverside County, California. These modifications included demolition of existing track and field, installation of all-weather track and field, new and/or rerouting of underground utilities, drainage, conduits, water, etc., including future connections, necessary and required ADA compliance, necessary walkway lighting, softball field upgrades, demolition and replacement of press box, and replaced scoreboard.

Geohazard Evaluation for School Modernization Projects, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geohazard evaluation for modernization of over 20 schools within San Bernardino City USD, including: Anderson Elementary, Arrowhead Elementary, Bradley Elementary, Del Rosa Elementary, Fairfax Elementary, Hillside Elementary, Hunt Elementary, Inghram Elementary, Kendall Elementary, Lytle Creek Elementary, Marshall Elementary, Monterey Elementary, Mt. Vernon Elementary, Roosevelt Elementary, Warm Springs Elementary, Wilson Elementary, Urbita Elementary, Rio Vista Elementary, Ramona-Alessandro Elementary School, Thompson Elementary, and Richardson Middle School.

Highland Pacific Elementary School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the project geohazard evaluation. The project site is located at 3340 Pacific Street in the city of San Bernardino, California. Highland Pacific Elementary School is located on the north side of Pacific Street between Orange Street and Central Avenue.

Lincoln II North Elementary School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the project geohazard evaluation. The project site is located adjacent to the existing Lincoln Elementary School in the City of San Bernardino, California. The proposed Lincoln II – North Elementary is bounded on the north by West 13th Street, on the east by Arrowhead Avenue, on the south by West Baseline Street, and on the west by “D” Street.

Yucaipa High School, *Yucaipa-Calimesa Joint Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation during design and materials testing and inspection during construction. The project involved design and

construction of an approximately 144-foot-long access ramp. The access ramp provided handicapped access from Building F (Administration Building) to Building D, located at eight feet higher in elevation.

Lytle Creek Elementary School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the project geotechnical investigation. The project site was approximately 7.7 acres located in the City of San Bernardino. The project consisted of the construction of a two-story classroom building of 17,700 square feet and a one-story kindergarten building of 1,400 square feet. Site improvements were a new parking lot.

Alvord High School # 4, *Riverside, CA.* Principal in Charge. Performed quality control and budget oversight for the geohazard evaluation and geotechnical investigation for the project. The proposed Alvord High School No. 4 will be located over about 44.3 acres of a 61.2-acre parcel. The building area will total approximately 170,000 square feet. The project consists of construction of nine (9), one-to three-story structures for administration, classrooms, a gymnasium and multi-purpose building, a football and tract field, two (2) baseball/softball fields, two (2) soccer/multi-purpose fields, seven (7) basketball courts, and a 50-meter swimming pool.

Central Fontana Elementary School #29, *Fontana, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation for the project. The project consists of construction of a new two-story elementary school building and a new water retention system.

Little Mountain Elementary School, School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation for the project. The approximately 5.9-acre site is located southwest of the intersection of Little Mountain Drive and West 48th Street in the city of San Bernardino. The project consists of construction of the proposed Little Mountain Elementary School, including one- and two-story wood and steel frame buildings founded on shallow spread footings, parking area, playgrounds and a bus drop-off area.

Middle College High School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation for the project. The approximately 12.0-acre site is located southwest of the intersection of Esperanza Street and Eureka Avenue in the City of San Bernardino, California. The project included eleven (11) one- and two-story wood and steel frame buildings founded on shallow spread footings, lunch shelters, parking area, and soccer field.

Arroyo Valley High School New Bleachers, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation for the project. The project consisted of construction of two bleacher structures on both sides of existing bleachers, southwest of the existing stadium. The bleachers were planned as light weight steel framed structure founded on columns and shallow spread footings. Each bleacher would be approximately 50 by 50 feet in plan dimensions.

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Principal in Charge/Project Manager

Burbank II Elementary School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation for the project. The project consisted of construction of the following buildings and playgrounds, Kindergarten, Adjacent Kitchen and Multi-Purpose Room, Adjacent Administration Building and Library, Four Classroom Buildings, and various paved and grass-covered playgrounds.

Lincoln II South Elementary School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation for the project. The proposed Lincoln II South Elementary School consists of construction of 63,078 square feet of ten (10) one-story buildings and other facilities. The planned buildings included administration, library/computer lab, multi-purpose, classrooms, and kitchen. New parking area and bus drop-off area were planned on the north and west side of the site.

Roosevelt II Elementary School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geohazard evaluation and geotechnical investigation for the project. The project consisted of construction of the proposed Roosevelt II Elementary School. One story buildings were planned totaling 45,119 square feet, including administration, library/computer lab, multi-purpose building, classrooms, kitchen and other facilities. New parking areas and a bus drop-off area were planned on the north and west side.

Wilson II Elementary School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation for the project. The project consisted of construction of the proposed Wilson II Elementary School. One-story buildings were planned totaling about 52,564 square feet, including administration, kindergarten/kitchen, library/computer lab, multi-purpose, five (5) classrooms, and other facilities. A new parking area was planned on the west side of the site.

Alessandro II Elementary School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation for the project. The project consisted of construction of the proposed Alessandro II Elementary School. One-story buildings were planned totaling about 49,919 square feet, including administration, library/computer lab, multi-purpose, classrooms, kitchen and other facilities. Two new parking areas were planned on the south side of the site.

Anton Elementary School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation and materials testing and inspection during construction. The project consisted of construction of a new elementary school, including an administration building, several classrooms buildings, a restroom building, a media building, a multi-purpose building, hardcourts, and parking lots.

San Bernardino City Unified School District, *San Bernardino, CA.* Principal in Charge. Performed quality control and budget oversight for geotechnical investigations for Severely Disabled Centers at 11 sites throughout the District, geohazard investigations for 20 schools, testing and inspection for modernizations at several elementary schools and installation of 15 multi-use relocatable buildings at various sites throughout the District.

Curtis Middle School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation and materials

testing and inspection for the project. The project included construction of an administration/library building, classrooms, SDC, multi-purpose, and classroom/technology buildings with a total building footprint of about 88,719 square feet. The buildings incorporate conventional wood frame and concrete slab-on-grade. The project also included playfield areas and asphalt concrete.

Burbank II Elementary School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the project, which consisted of the construction of four (4) classroom buildings kindergarten, adjacent kitchen and multi-purpose room, administration building and library, and various paved and grass-covered playgrounds.

Wilson II Elementary School, *San Bernardino City Unified School District, CA.* Principal in Charge. Provided quality control and budget oversight for the project, which involved construction of 52,564 square feet of nine (9), one-story buildings and other facilities, administration building, kindergarten/kitchen, library/computer lab, multi-purpose building, five (5) one-story classrooms, playfields, and parking.

Bing Wong Elementary School, *San Bernardino City Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical observation and materials testing and inspection during construction. The project involved construction of seven buildings with a total of 54,000 square feet, including administration/kindergarten, classrooms, library/computer lab/resource room, and multi-purpose/kitchen buildings. The project also included playfields, landscape areas, and asphalt concrete pavements.

Warm Springs and Fairfax Elementary Schools, *San Bernardino, CA.* Principal in Charge. Performed quality control and budget oversight for the materials testing and inspection services performed during modernizations at Warm Springs and Fairfax Elementary Schools.

Arrowview Middle School Modernization, *San Bernardino, CA.* Principal in Charge. Performed quality control and budget oversight for the materials testing and inspection services performed during modernization of Arrowview Middle School, located at 2299 North “G” Street in the City of San Bernardino, California.

Phase III Modernizations and Kitchen Remodels, *San Bernardino, CA.* Principal in Charge. Performed quality control and budget oversight for the materials testing and inspection services performed during Phase III Modernization at Martin Luther King Middle School, Del Vallejo Middle School, and Kitchen Remodels at Pacific High School, San Andreas High School and Shandin Hills Middle School.

Will Rogers Elementary School, *Lynwood Unified School District, CA.* Principal in Charge. Provided quality control and budget oversight for the geotechnical investigation and filed testing and inspection services for Will Rogers Elementary School. The project consisted of construction of a two-story classroom, a food service and lunch shelter, and an addition to the existing administration building.

Wayne Ruble Middle School, *Fontana Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation and materials testing and inspection for the project. The project consisted of the construction of one- and two-story buildings, including an

administration building, library, gymnasium, several classroom buildings, a multi-purpose room, as well as hardcourts and parking lots.

Arizona Middle School Expansion, *Alvord Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation for the project. The project involved an administration building, library, classrooms, gymnasium, and laboratory building. The buildings are one-story structures, constructed of steel, concrete, and masonry.

Middle School No. 5, *Lake Elsinore Unified School District, CA.* Principal in Charge. Performed quality control for geotechnical investigation and laboratory testing. The total site is approximately 30 acres. The project consists of construction of approximately 10 one- to two-story buildings, including Administration Offices, Academic Classrooms, Gymnasium, and Cafeteria, hardcourts, and parking lots. Converse performed a geotechnical investigation, a fault study and materials testing and inspection during construction.

Summit High School, *Fontana Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation and materials testing and inspection for the project. The project involved construction of a library/gymnasium, several classrooms buildings, a multi-purpose room, hardcourts, and parking lots. With the exception of a one-story multi-purpose building, all structures are two-story buildings.

Yucaipa High School Addition, *Yucaipa-Calimesa Joint Unified School District, CA.* Principal in Charge. Performed quality control and budget oversight for the materials testing and inspection during construction. The project involved major additions to the existing Yucaipa High School, including a new gymnasium building.

Alvord Learning Center, Alvord Unified School District, *Riverside, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation. The project included nine one-story buildings, parking stalls, access road, playfield, hardcourt area, and landscaping. The site is 16 acres of land located both on and adjacent to Pierce Street near La Sierra University in the city of Riverside.

Sierra Vista High School Music Building Addition, *Baldwin Park Unified School District, CA.* Principal in Charge. Provided quality control and budget oversight for the project, which involved construction of a new music building. The music building is a one-story structure with concrete masonry unit (CMU) walls, concrete slab-on-grade floor and a steel and/or wood framed roof. Plan dimensions of the building are approximately 42 feet by 145 feet.

Valley Christian High School, *Cerritos, CA.* Principal in Charge. Provided quality control and budget oversight for the geotechnical investigation for the project. The project involved construction of 26,684 square foot, one-story student services/classroom building, a 1,000 square foot, a restroom building, a 4,140 square foot woodshop building, and an 800 square foot bus building.

Fontana Unified School District, *Fontana, CA.* Principal in Charge. Performed quality control and budget oversight for geotechnical investigation and materials testing and inspection services for various schools in the District, including Citrus Elementary, Summit High School, Fontana and A.B. Miller High, Fontana, Alder, Sequoia, Wayne Ruble and Almeria Middle Schools and Maple, Oleander, Live Oak, North Tamarind, Juniper, Redwood, Poplar, South Tamarind, Sierra Lakes (New), New School #28, and Jurupa Elementary Schools.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Yucaipa High School Access Ramp, *Yucaipa, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation, observation and testing. The project consisted of design and construction of approximately 144 feet long access ramp. The access ramp provides handicapped access from Building F (administration building) to Building D, located at about eight (8) feet higher in elevation.

Elementary School No. 10, *Winnetka, CA.* QA/QC. Performed quality control for the geotechnical investigation. The proposed project consists of new two-story steel-braced and steel stud classrooms, a new one-story building, and a new one-story portable classroom building to be located at northeast area of the existing John A. Sutter Middle School campus. Site improvements around the new buildings include play field, student drop-off driveway and parking lot.

Valley Region Elementary School Number 10, *Los Angeles Unified School District, CA.* QA/QC. Performed QA/QC on the DSA Class 1 Project Inspection services for the construction of Valley Region Elementary School No. 10 in Canoga Park, California. Construction consisted of 26 classrooms, a library, multi-purpose room, food service area, lunch shelter, administration offices, playfields and surface parking.

Upland High School New Gymnasium and Classroom Building, *Upland, CA.* Principal in Charge. Provided quality control and budget oversight for the geotechnical investigation for the project, which involved new gymnasium and classroom building, approximately 18,048 square feet in plan dimension. Two indoor basketball courts will be situated on the eastern portion and the classroom on the 2nd floor of the western portion of the building. The proposed building will have a steel frame masonry structure with slab-on-grade and shallow foundations.

Sierra Vista High School Gymnasium Building Addition, *Baldwin Park Unified School District, CA.* QA/QC. Provided quality control oversight for the geotechnical investigation, geotechnical observation and testing for the project, which consisted of two additions to the existing gymnasium. The two additions are added to the westerly side of the existing gymnasium and are 10 by 30 feet. The additions are constructed with concrete walls and are supported by continuous footings and the existing gymnasium structure.

Firebaugh High School, *Lynwood, CA.* QA/QC. Provided quality control oversight for the geotechnical investigation, geotechnical observation and testing for the project, which involved construction of approximately 100,000 square feet new high school, including seven one or two-story buildings, hard court, a grass play field, and concrete pavement.

Athletic Field Renovation, Belmont High School, *Los Angeles, CA.* QA/QC. Provided quality control oversight for the geotechnical investigation. The proposed renovations of the athletic field consisted of a new scoreboard, two new 25-second clocks, two new football goal posts, a service drive apron to the northeast of the site, a service area for container storage, a decomposed granite running track over crushed aggregate base (CAB), and a synthetic turf football/soccer field over CAB at grade.

Loma Vista Middle School Expansion, *Riverside, CA*. Principal in Charge. Provided quality control oversight for the geotechnical investigation, geotechnical observation and testing, and materials testing and inspection for the project, which involved construction of three (3) new one-story classrooms. Each building is about sixty feet (60) long and sixty (60) wide,

constructed of masonry. Other improvement associated with the new building included utilities such as gas, sewer, water, electrical, drainage facilities and construction of walkways, driveway approach, and fire lane.

Norte Vista High School Expansion, *Riverside, CA.* Principal in Charge. Provided quality control oversight for the geotechnical investigation, geotechnical observation and testing, and materials testing and inspection for the project, which involved construction of a series of eight (8) two-story masonry classrooms at the east-west direction and three (3) masonry two-story classrooms at the north-south direction. Each classroom is about 40 feet long and 25 feet wide. Other improvements associated with the new classroom buildings included utilities such as, sewer, water, and electrical, drainage facilities and construction of elevators and walkways.

Bridges

Boulder Avenue Bridge at City Creek, *Highland, CA.* Principal in Charge. Provides technical oversight and budget control for the geotechnical investigation. The project consists of replacing the Boulder Avenue Bridge over City Creek, constructing roadway approaches, various street improvements, the construction/modification of creek slopes, re-profiling of the roadway, extension of two existing pipe culverts, replacement of the Bledsoe Creek double-cell reinforced concrete box, and the relocation of the MWD overflow outlet and other utilities. The project also consists of the realignment of approaches to the Greenspot Road Bridge at Santa Ana Rivers, the rehabilitation of the existing bridge, and other miscellaneous site improvements.

Orange Street Bridge, *Redlands, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The crossing of the Santa Ana River at Orange Street was washed out in 1993 and again in 1995.. The original structure was replaced with a dip crossing with concrete box culverts at the Orange Street crossing. The bridge parameters are 100 meters long, 20 meters wide, 3 spans, 4 lanes, and approximately 124 meters of approach lane length.

Alabama Street Bridge, *Redlands, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The crossing of the Santa Ana River at Alabama Street was washed out in 1993 and again in 1995. This original structure was replaced with a dip crossing with a series of large corrugated metal pipes to carry flow at the Alabama Street crossing. The bridge parameters are: 120 meters long, 20 meters wide, 3 spans, 4 lanes and approximately 390 meters of approach lane length.

Vineyard Avenue Grade Separation, *Ontario, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing for the project. The project includes a highway grade separation underpass under the existing Union Pacific Railroad Alhambra Subdivision Line elevating the railroad approximately 4 feet and depressing Vineyard Avenue under the bridge.

Milliken Avenue Grade Separation, *Ontario, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing for the project. The Milliken Avenue rail-highway grade separation project will be an overpass over the existing Union Pacific Railroad Los Angeles Subdivision Line and include earth filled retaining walls for ramps. This construction separates roadway and railroad grades to provide uninterrupted flow

of traffic and rail, which will improve freight movements through the Los Angeles/Inland Empire Corridor.

Date Palm Bridge Widening, *Cathedral City, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing for the project. The site is located at Date Palm Drive in the Cathedral City, Riverside County, California. This project proposes to widen the existing bridge from 4 lanes to 6 lanes at Date Palm Drive. The construction project includes bridge construction, bridge modification, roadway improvements, utility improvements and traffic signal and other electrical improvements. Converse is providing Quality Assurance (QA) services for our client to meet or exceed the Caltrans and project specifications.

Palm Avenue Grade Separation, *San Bernardino, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing for the project. The purpose of this project is to grade separate Palm Avenue over the BNSF tracks and Cajon Boulevard about 300 feet north of the current at-grade crossing. Palm Avenue will remain one lane in each direction with added turn pockets at intersections. A new connector from Palm Avenue to Cajon Boulevard is being constructed around a new detention basin added to accommodate onsite drainage. A slight realignment of Industrial Parkway and its intersection with Palm Avenue is incorporated into the project.

Highway 91 Bridges Orange/Riverside County Line to Downtown Riverside, *Riverside County, CA.* Principal in Charge. Provided technical oversight and budget control for preliminary analysis of seven existing bridges along State Highway 91, between State Route 71 and Interstate 15. Analyses for each bridge site included site observation, research, and evaluation of existing foundations, seismic design criteria and depth to groundwater and scour evaluations. The analyses were performed in accordance with Caltrans specifications for bridges.and were reviewed by Caltrans.

State Route 71/91 Interchange Improvement, *Corona, CA.* Principal in Charge. Provided technical oversight and budget control for preliminary anaylsis. The project was undertaken by the Riverside County Transportation Commission (RCTC) in conjunction with the California Department of Transportation (Caltrans) District 8. The project was proposed to reduce congestion and improve mobility on the SR71/91 interchange in and near the City of Corona. Major elements of the project included construction of new retaining walls, sound walls, bridges and widening of existing bridges.

I-10 / Pepper Avenue Bridge Replacement, *Colton, CA.* Principal in Charge. Provided technical oversight and budget control for the project. The site is located along I-10 and Pepper Avenue in the City of Colton, San Bernardino County, California. This project proposes to replace the existing I-10 Pepper Avenue Bridge to improve traffic operations along Pepper Avenue. The construction project includes bridge construction, bridge demolition, roadway improvements, utility improvements and traffic signal and other electrical improvements. Converse is providing Quality Assurance (QA) services for our client to meet or exceed the Caltrans and project specifications.

Bridge on South Fork Road in the Lytle Creek Area, *San Bernardino County, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation for the project. The proposed bridge was planned be constructed along South Fork Road about 180

feet west of Lytle Creek Road. The replacement bridge was proposed to be a pre-fabricated steel deck bridge approximately twenty-six (26) feet wide and would span about 40 feet.

Ramon Road Widening, *Palm Springs, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. This project consisted of widening Ramon Road from San Luis Rey Drive to Landau Boulevard, including the widening of the Ramon Road Bridge at the Whitewater River, in the City of Palm Springs and City of Cathedral City. In general, this project widened Ramon Road with one west bound lane added between San Luis Rey Drive to Crossley Road and one eastbound lane and one westbound lane between Crossley Road and Landau Boulevard. Traffic operation improvements were completed at the intersections of Ramon Road at Crossley Road and Landau Boulevard by adding one exclusive left-turn lane in the westbound and the eastbound directions, respectively. The Ramon Road Bridge at the Whitewater River was widened from 4 to 6 lanes.

Reconstruction of Van Buren Blvd. & I-215 Interchange, *Riverside County, CA.* Principal in Charge. Provided technical oversight and budget control for the project which consisted of reconstruction of the existing Van Buren Boulevard Interchange on the I-215 in the County of Riverside, California. The improvements included reconstructing the existing tight diamond interchange on the I-215 and Van Buren Boulevard, widening of the I-215, bridge structure replacements, local street improvements, and modification of the interchange ramps and signalization of the ramp termini. Converse provided Quality Assurance (QA) services for our client to meet or exceed the Caltrans and project specifications.

Rehabilitation of Atlantic Boulevard Bridge, *Vernon, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The project consisted of widening and rehabilitating the Atlantic Boulevard Bridge over the Los Angeles River in the City of Vernon, CA. The Atlantic Boulevard Bridge crosses the Los Angeles River southwest of the 710 Freeway and serves as an important commercial trucking route. The purpose of the geotechnical study was to evaluate the nature and pertinent geotechnical engineering properties of the subsurface materials at the site and to provide recommendations regarding site earthwork and geotechnical parameters for the design and construction of the proposed project. The investigation was completed on time and within budget.

Dominguez Channel Bridge Expansion, *Carson, CA.* QA/QC. Provided technical oversight and budget control for the project which consisted of construction of a new northbound on-ramp and widening of the north side of the Dominguez Channel Bridge and widening of the existing southbound off-ramp and on-ramp for I-405 at the Wilmington Avenue Interchange.

I-10/Monroe Street Interchange Improvements, *Indio, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation for the project. Proposed improvements at the interchange include possible lane additions or realignments, ramp or bridge widening, sidewalk and parkway improvements, and traffic signal improvements, as well as possible improvements to the adjacent Whitewater River Bridge.

I-10/Golf Center Parkway Interchange Improvements, *Indio, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation for the project. Proposed improvements at the interchange include possible lane additions or realignments, ramp or bridge widening, sidewalk and parkway improvements, and traffic signal improvements,

as well as possible required improvements to the existing overcrossing and the adjacent Whitewater River bridge.

I-15 at Cajalco Road, *Corona, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation and materials testing and inspection during the construction of new on/off ramps at I-15 and Cajalco Road in Corona, California under Caltrans jurisdiction.

Highway 71 – South Campus Drive On/Off Ramp, *Pomona, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which involved construction observation and testing in accordance with Caltrans specifications for on/off ramp and retaining wall design and construction associated with the Highway 71 improvements.

Metrolink Pedestrian Bridge, *Los Angeles, CA.* QA/QC. Provided technical oversight and budget control for the geotechnical observation and testing. The project consists of two towers, approach ramps, and a bridge structure, and includes a total of 42 piles, two (2) feet in diameter, drilled to varying depths. The bridge structure is approximately 110 feet long and 8 feet wide and passes in a single span. The towers are approximately 40 feet in height and 8 feet wide.

Wilmington Avenue Widening and Dominguez Channel Bridge Expansion, *City of Carson, Los Angeles County, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation for the project, consisting of widening of Wilmington Avenue from 220th Street to 223rd Street, expansion of the Dominguez Channel Bridge over-crossing at Wilmington Avenue and 223rd Street, construction of a new northbound (N/B) on-ramp, and widening of the existing southbound (SB) on-and off-ramps of the Interstate 405 (I-405) at the Wilmington Avenue interchange (I/C) in the City of Carson, Los Angeles County, California.

Transportation

Streets/Roadways

Riverside Various Public Works Projects, *Riverside, CA.* Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the project which consists of providing on-call geotechnical services at various locations. These projects include arterial street maintenance of Magnolia Avenue, Trautwein & Cole Avenues intersection, Palmyrita Avenue, Brockton Street, Minor Street, Shelby and Garfield Street intersection. The projects also include storm drain maintenance of Victoria and Myers Storm Drain and Cole Avenue Storm Drain.

I-15 & SR-79 Interchange, *Temecula, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing for the project. The site is located at the I-15 and SR-79 Interchange in Temecula, California. The project proposes to demolish the existing on and off-ramps at southbound I-15 ramp. New ramps will connect to the SR-79 at the Front Street intersection. A new bridge will be constructed over SR-79 south. The single span bridge is about 177 feet long and 39 feet wide for 2 through lanes and a shoulder. Converse is providing Quality Assurance (QA) services for our client to meet or exceed the Caltrans and project specifications.

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Principal in Charge/Project Manager

I-15 & Limonite Avenue Bridge, *Riverside County, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing for the project. The project involved the Interstate 15 (I-15) improvement from approximately 0.60 miles south to 0.60 miles north of the existing Limonite Avenue crossing (OC) bridge. The project extends along Limonite Avenue from Hamner Avenue to Wineville Avenue. The project will include replacing the existing Limonite overcrossing and widen roadway from four lanes to six lanes and reconstruct the ramps to provide a partial clover leaf and constructing loop ramps in the southeast and northwest quadrants. Converse is providing Quality Assurance (QA) services for our client to meet or exceed the Caltrans and project specifications.

SR-60 Truck Climbing Lane, *Riverside County, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing for the project. The project consists of the construction of Truck Climbing Lanes on State Route 60 (SR-60) from Gilman Springs Interchange, PM 22.10 to approximately one mile west of Jack Rabbit Trail, PM 26.61 in the County of Riverside, California. Converse is providing Quality Assurance (QA) services for our client to meet or exceed the Caltrans and project specifications.

Snowdrop Road Improvement, *San Bernardino County, CA*. Principal in Charge. Provided technical oversight and budget control for the project during the design phase. The project consisted of the design and construction of approximately 300 feet of paved roadway beginning approximately 0.4 miles west of the northern termination of Haven Avenue and continuing to the west in San Bernardino County, California. At present the roadway is unpaved. The roadway was bounded on both sides by vacant land with trees and shrubs. We understand that undocumented fill was placed to rebuild the roadway over time.

Monroe & Jackson/I-10 Interchange, *Indio, CA.* Principal in Charge. Provided technical oversight and budget control for the project during the design phase. There are two bridges along Jackson and Monroe streets near the Interstate 10 freeway crossing in the City of Indio. The southern bridge on each road spans the Whitewater River channel to the south of the freeway, The northern bridge on each road crosses the Interstate 10 freeway. The proposed improvements to the existing bridges consist of reconfiguring the existing interchanges and widening or reconstructing the bridges that cross the Whitewater River channel.

Dunlap Blvd. Bridge Replacement, *Yucaipa, CA.* Principal in Charge. Provided technical oversight and budget control for the project during the design phase. The project involved an existing bridge approximately 70-foot-long by 60-foot-wide box culvert structure spanning Wilson Creek southeast of the intersection of Dunlap Boulevard and 14th Street in Yucaipa, California. It included the design of the new 60-foot-long by 22-foot-wide prefabricated steel truss bridge to accommodate 1 lane of vehicle traffic and an 8 foot wide path for pedestrians, partial demolition of the existing box culvert structure as well as channel improvements required to transition from proposed bridge to existing channel conditions and associated street improvements at intersection of 14th Street and Dunlap Boulevard in order to transition to new/elevated bridge improvements.

Cathedral Canyon Drive Sidewalk/Bike Path, *Cathedral City, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management during the construction of the project. The improvements consisted of constructing a sidewalk on the east side of Cathedral Canyon Drive and improving existing sidewalks from East Palm Canyon Drive (old historic State Route 111) to Terrace Road. A Class II bikeway was striped on the east and west sides of Cathedral Canyon Drive. A sidewalk was constructed on the north side of Terrace

Road from Cathedral Canyon Drive to twenty feet (20') west of Paradise Way. Sidewalk construction was in accordance with the City's standard sidewalk plans and current ADA Standards. Modifications (partial reconstruction) to eight (8) driveways was necessary.

Hemet Facilities Parking Lot Paving, *Hemet, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management during the construction of the project. The project is located at 702 Scaramella Circle in Hemet, California. It consisted of the removal of existing concrete pavement, aggregate base and subgrade. Additionally, the project included grading, shaping, compaction, subgrade preparation, reinforced PCC pavement, striping and aggregate base placement.

5th Street Improvements, *Yucaipa, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management during the design of the project. The project consists of civil and structural design of the drainage culvert crossing at the intersection of Chicken Springs Wash and 5th Street, sidewalk and street improvements along 5th Street between Yucaipa Boulevard and Avenue "E". At Chicken Springs Wash, a 7 to 10 foot high retaining wall not more than 60 feet in length was planned for construction.

Winchester Pavement Rehabilitation, *Temecula, CA*. Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the project during the construction phase. The site is located at Winchester Road from Jefferson Avenue to Ynez Road in Temecula, California. The project will include removal of the existing asphalt concrete and aggregate base. Preparation of roadway subgrade and replacing with compacted aggregate base and asphalt concrete.

QVC Way Improvements, *Ontario, CA.* Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the project during the construction phase. The site was located at QVC Way south of Inland Empire Boulevard in the City of Ontario, California. The project will include the construction of a new street north of the I-10 freeway to accommodate traffic due to the construction of the new QVC facility.

Holt Blvd. & Melrose Street Improvements, *Ontario, CA.* Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the project during the construction phase. The site was located at Holt Boulevard and Melrose Street in the City of Ontario, California. The project included small water pipeline replacement and street improvements including curb, gutter and sidewalk.

OMUC Parking Lot Pavement Rehabilitation, *Ontario, CA*. Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the project during the construction phase. The site was located at various parking lot locations in the City of Ontario, California. The project will include the subgrade preparation, aggregate base placement and compaction and placement of asphalt concrete.

Cherry Avenue Improvements, *Beaumont, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the project. The street improvements were associated with the Sundance Residential Development. The project included 3,600 linear feet of roadway. Curb and gutter was constructed along approximately 1,250 feet of the western edge of pavement and along the entire 3,600 feet of the eastern edge of the pavement.

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Principal in Charge/Project Manager

Rancho Cucamonga Pavement Rehabilitation, *Rancho Cucamonga, CA.* Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the project during the construction phase. The project consisted of the rehabilitation of various streets in the City of Rancho Cucamonga, California. These projects were located at San Bernardino Road from Vineyard Avenue to Archibald Avenue, San Bernardino Road from Grove Avenue to Foothill Boulevard, Hellman Avenue from San Bernardino Road to Baseline Road, Church Street from Pepper Street to Hellman Avenue, 9th Street from Grove Avenue to Hellman Avenue.

Sierra Ave. and Foothill Blvd. Improvements, *Fontana, CA.* Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the project during the construction phase. The project involved performing improvements to the sidewalk, ramp and streets at the intersections of Sierra Avenue and Fontlee Lane and Foothill Boulevard and Juniper Avenue in the City of Fontana, California. The project involved the removal and replacement of deteriorated asphalt pavement, concrete curb, gutter, sidewalk, wheelchair ramps and drive ways approaches.

I-10 & Pepper Avenue Bridge Replacement, *Colton, CA.* Principal in Charge. Provided technical oversight and budget control for the project. The site is located along I-10 and Pepper Avenue in the City of Colton, San Bernardino County, California. This project proposes to replace the existing I-10 Pepper Avenue Bridge to improve traffic operations along Pepper Avenue. The construction project includes bridge construction, bridge demolition, roadway improvements, utility improvements and traffic signal and other electrical improvements.

Redlands - Paris 2013 Resurfacing Project, *Redlands, CA.* Principal in Charge. Provides technical oversight and budget control for the project, which involves paving approximately 75 lane miles of streets (216 cores) as part of an overall PARIS 2013 resurfacing project. Converse is investigating each segment and providing cost-effective recommendations of rehabilitations in order for the City to prepare plans, specifications, and an estimate (PS&E) for the project.

4th Street, 7th Street and Archibald Avenue Rehabilitation, *Rancho Cucamonga, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which involved geotechnical observation and material testing during the construction phase. The project consisted of the rehabilitation of 4th Street from Archibald Avenue to Haven Avenue, 7th Street from Hellman Avenue to Archibald Avenue and Archibald Avenue from 4th Street to Foothill Boulevard in the City of Rancho Cucamonga, California.

Collier Avenue Pavement Rehabilitation, *Lake Elsinore, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which involved a geotechnical investigation. The project consisted of the rehabilitation of 6,000 linear feet of pavement along Collier Avenue from Riverside Drive to Nichols Road in the City of Lake Elsinore, California. The lanes were experiencing extensive cracking in both directions. There was no documented information available on overlays, or asphalt concrete roadway improvements done along Collier Avenue in between Riverside Drive and Nichols Road. The cracks generally ranged between 1/4-inch to 1-1/2-inch wide. Localized areas also exhibited fatigue cracking (tightly spaced crack pattern) with moderate spalling along the edges of the pavement. Numerous utility trench patches were also observed along the project alignment.

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Principal in Charge/Project Manager

El Prado Road Pavement Rehabilitation, *Chino, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which involved a geotechnical investigation. The project consisted of approximately 4,200 linear feet of pavement reconstruction each way (northeast and southwest bound) along El Prado Road between Kimball Avenue and Central Avenue in the City of Chino, California. An existing Reinforced Concrete Box (RCB) Culvert was extended under the north side of Kimball Avenue to the south side. The RCB culvert was approximately 100 feet east of El Prado Road and measured 12 feet wide by 2.5 feet high.

Cook Street Pavement Rehabilitation, *Indian Wells, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which involved a geotechnical investigation. The site location for the project was at Cook Street from approximately 400 feet north of Highway 111 to Fred Waring Drive in the City of Indian Wells, California. The project consisted of approximately 2,500 linear feet of asphalt concrete rehabilitation each way north and south along Cook Street in between Highway 111 and Fred Waring Drive. The cracks generally ranged between 0.25-inch to 1.5-inches wide. Localized areas also exhibited fatigue cracking (tightly spaced crack pattern) with patching.

Thermal, *Riverside County, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which involved design improvements to various streets in the city of Thermal, Riverside County, California. As a sub-consultant to KOA, Converse prepared a geotechnical investigation which included design and construction recommendations.

Riverside Arterial Street Maintenance, Phase I, *Riverside, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the coring and laboratory testing for the project. The project involved performing street maintenance on various local and arterial streets as part of the Pavement Maintenance Program by the City of Riverside Public Works Department. The program involved the removal and replacement of deteriorated asphalt pavement, concrete curb, gutter, sidewalk, wheelchair ramps and drive ways approaches.

Beatty Drive Resurfacing Project, *Riverside, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which involved geotechnical observation and material testing during the construction phase. The project was located within the right-of-way of Beatty Drive between Arch Way and Brockton Avenue in the City of Riverside, California. The project consisted of removal of temporary asphalt concrete and resurfaced with asphalt concrete.

Ramona Ave. Storm Drain and Pavement Rehabilitation, *Rancho Cucamonga, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which involved geotechnical observation and material testing during the construction phase.The project was located on Ramona Avenue in the City of Rancho Cucamonga, California from Foothill Boulevard to South of Pacific Electric Trail. The project included the installation of approximately 1,000 linear feet of 60-inch reinforced concrete pipeline, construction of three (3) manhole structures, installation of two (2) laterals and catch basins, as well as a junction structure. After the completion of the storm drain the street pavement was restored.

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Hesperia Road Pavement Replacement, *Victorville, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which involved geotechnical investigation and pavement structural section for the Hesperia Road Rehabilitation, between Sunset Drive and "D" Street in the City of Victorville, California

I-10 Citrus Avenue & Cherry Avenue Interchanges, *Fontana, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation for the project which consists of reconstruction of the interchanges at Citrus Avenue and Cherry Avenue at I-10. This multi-staged project includes replacement of the bridges over the I-10 at both interchanges, widening of the bridges over the Union Pacific Railroad, addition of loop ramps, widening of existing ramps, construction of retaining walls and arterial street widening. The project also includes utility relocation, flood control improvements, traffic and signal and ramp modification, grading, drainage modifications, signal and stripping

Butterfield Stage Road Median Construction, *Temecula, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing, and materials testing and inspection services for the project. The project consisted of the median construction and installation of dry utilities along Butterfield Stage Road, the installation of dry utilities along Pauba Road and the construction of three (3) access ramps in the City of Temecula, California.

Perris Boulevard Widening, *Moreno Valley, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation for the project, consisting of Perris Boulevard widening between Ironwood Avenue and Manzanita Avenue in the city of Moreno Valley, California. The proposed improvements will widen Perris Boulevard to the general planned arterial street with a cross-section of four (4) lanes, including eighty-six (86) feet curb to curb separation within a 110-foot right of way.

City of Redlands Pavement Investigation, *Redlands, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation. The City of Redlands made improvements to the streets and curbs which consisted of grind and overlay of the existing asphalt concrete on Church Street between Colton Avenue and Clark Street (approximately 3,000 feet), Center Street between Brookside Avenue and Fern Avenue (approximately 3,500 feet), and Alessandro Road between Sunset Drive and the Mill Creek Bridge (approximately 4,000 feet).

La Cresta Pavement Rehabilitation, *County of Riverside, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation for the project which consisted of improvements along Via Serano (2217 feet), Valle Vista (1847 feet), Via Sevilla (1584 feet) and Calle Centro (580 feet) streets located in the County of Riverside, California. These roads are owned by La Cresta Property Owner Association.

Indian Hills Improvement Facility, Jurupa Community Services District, *Jurupa Valley, CA.* Principal in Charge. Provided technical oversight and budget control for the Indian Hills Facilities Improvement project which is located east of the intersection of Camino Real Drive and Cottontail Court. The project consisted of sub-grade preparation of a generator building pad and retaining wall structures. Base course was placed around an existing water tank. Also, strength testing was done on concrete and grout placed for the retaining wall and generator pad.

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Principal in Charge/Project Manager

University Avenue Street Rehabilitation, *Riverside, CA.* Principal in Charge. Provided technical oversight and budget control for field investigation to determine existing asphaltic concrete pavement and base thickness at the intersection of Lime Street and University Avenue, in the City of Riverside, California.

Mission Inn Avenue Street Rehabilitation, *Riverside, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation for the project, consisting of rehabilitation of Mission Inn Avenue in Riverside, California. The boundaries of this project were from Arfon Way to Fairmont Boulevard west of the 91 freeway, and from Commerce Street to Eucalyptus Avenue east of the 91 freeway.

Mitchel and Norwood Avenue, *Riverside, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation for the project, consisting of the construction of a storm drain through these street segments. Pipe invert depth will be within ten (10) feet below existing ground surface (bgs). After storm drain construction, the streets will be improved by complete replacement or rehabilitation.

Oak Glen Road Improvement, *Yucaipa, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the project, which consists of pavement rehabilitation along Oak Glen Road between Stonewood Drive and Bryant Street in the city of Yucaipa.

Foothill Boulevard (State Route 66) Pavement Rehabilitation, *San Bernardino County, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which involved deflection study and pavement design for Foothill Boulevard (State Route 66) in the cities of Upland, San Bernardino, and Rialto, California.

Foothill Boulevard Phase I, *Fontana, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing, and materials testing and inspection services for the project, which consisted of street, sewer, storm drain and traffic signal modifications on Foothill Boulevard between Ilex Avenue and Cherry Avenue in the city of Fontana, California.

Sierra Median Improvements, *Fontana, CA*. Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing, and materials testing for the project. The project site was located on Sierra Avenue between Valley Boulevard and San Bernardino Avenue in the City of Fontana, California. Sierra Avenue was a five lane road; three lanes on the south bound and two lanes on the north bound with median. There were business centers along Sierra Avenue.

Nisqualli Road Improvement, *Victorville, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which consisted of construction of sanitary sewer, water pipeline, storm drain, traffic signals, fiber optic communication conduit, and street improvements.

Phantom West, *City of Victorville, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which consisted of street improvements to Big Bear Valley Road from the I-15 Southbound to Amargosa Road in Victorville, California.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

BNSF/Santa Fe Channel, *City of Victorville, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which consisted of geotechnical and materials testing during construction for the Santa Fe Channel & BNSF Rail Spur project in the city of Victorville, California.

Main Street Rehabilitation Project, *Hesperia, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which required an analysis to recommend rehabilitation of an approximately one-mile stretch of Main Street in the city of Hesperia. Investigation included defining the extent of distress to roadway, defining subsurface conditions along the existing roadway, partial reconstruction, and partial overlay.

Bear Valley, Hesperia, and Francesa Road Improvements, *Victorville, CA.* Principal in Charge. Provided technical oversight and budget control for the projects, which consisted of street improvements to Bear Valley Road from the I-15 Southbound to Amargosa Road, and improvements to Hesperia and Francesca Roads in Victorville, California.

Jurupa Avenue, *Fontana, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which consists of street, sewer, storm drain, median landscape, traffic signals, and street lighting improvements on Jurupa Avenue from Poplar Avenue to Sierra Avenue in the City of Fontana, California.

Fontana Intersection Improvements, *Fontana, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which consists of streets, sidewalks, and curb and gutter improvements at Fontana Avenue, Catawba Avenue, and Randall Avenue Intersection in the city of Fontana, California.

Foothill Blvd. Median Improvements, *Fontana, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical observation and testing, and materials testing for the project. The project consisted of improvements to the existing Foothill Boulevard median between Sierra Avenue and Mango Avenue.

Street Improvements and Traffic Signal on Sierra Avenue and Slover Avenue, *Fontana, CA. Principal* in Charge. Provided technical oversight and budget control for the project, which consists of streets, sidewalks, and curb and gutter improvements along Sierra Avenue and Slover Avenue in the City of Fontana, California.

Diaz Road Realignment Phase I, *Temecula, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which consisted of pavement rehabilitation on Diaz Road from approximately 975 feet south of Rancho Way to approximately 1,425 feet north (about 2,400 linear feet). The principal components of the project included unclassified excavation, asphalt concrete pavement, aggregate base, and sidewalk.

Juniper Avenue, *Fontana, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The purpose of the project was to determine the extent of the sinkholes developed along Juniper Avenue south of the intersection with Walnut Street and to present repair recommendations.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Monterey Avenue, *Palm Desert, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the project, which involved an entrance sign and sculptures to be installed at Monterey Avenue median, between Dinah Shore Drive and the Union Pacific Railroad tracks.

Markham Street and Carroll Street Improvement Project, *Mead Valley, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the project. The project which consisted of improvements along Markham and Carroll Streets located in Mead Valley, Riverside County, California. The project included constructing half width improvements and pavement rehabilitation on approximately 1,000 linear feet for both Markham and Carroll Streets.

Margarita Road Pavement Rehabilitation, *Temecula, CA.* Principal in Charge. Provided technical oversight and budget control for the project which was located along Margarita Road from Avenida Barca to Solano Way in the City of Temecula, Riverside County, California. Margarita Road from Avenida Barca to Solano Way is a four lane road with two lanes travelling in each direction with a median. Converse performed as-needed geotechnical observation, field density and laboratory testing along the segment which was approximately 7,000 linear feet.

Devonshire Drive Pavement Rehabilitation, *Redlands, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the project. Devonshire Drive was approximately 1,100 feet long and ran north of Reservoir Road to meet Crestview Road. Most portions of this street were on an embankment fill with slope as steep as about 6 percent.

Boulder Avenue and Greenspot Road Property, *Highland, CA.* Principal in Charge. Provided technical oversight and budget control for development of a 1658 acre site in Highland. The project required assessment of landslides and a fault study to complete entitlement of the property in anticipation of future sale and development.

Magnolia, Brockton and Central Avenues, *Riverside, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the project, which consisted of proposed improvements at the intersections of Magnolia, Brockton and Central Avenues. Planned improvements included construction of landscaped medians, roadway widening, pavement rehabilitation and storm drain improvements.

Central Avenue Improvement, *Riverside, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the project, which consisted of proposed improvements to Central Avenue from about 600 feet east of Victoria Avenue to Chicago Avenue. The planned improvements include construction of landscaped medians, pavement rehabilitation and storm drain improvements.

City of Riverside Various Projects, *Riverside, CA.* Principal in Charge. Provides technical oversight and budget control for the geotechnical observation and testing services Converse has been providing to the City of Riverside for various street improvement projects, including Sierra Vista and Norwood, Grand Terrace Avenue, Pierce and Taylor, Indiana and Vallejo, Alpine Meadows and Bradley, Jurupa and Magnolia, Nelson and Thomas, Columbia and Chicago, Main and 9th Street, University Avenue, Mitchell and Norwood, Jefferson and Indiana,

Sierra Vista and Market, Dufferin Avenue, Hawarden Drive, University and Douglass, Van Buren Boulevard and others.

Portola Avenue Improvements, *Palm Desert, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the project, which consisted of planned improvements to the east side of Portola Avenue, between Fred Waring Drive and Desert Star Boulevard, in the city of Palm Desert, California. The improvements include a new concrete block retaining wall up to six (6) feet high, replacement of existing sidewalk, and new landscaping and irrigation system.

Diamond Drive Pavement Rehabilitation, *Lake Elsinore, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the project, which involved planned pavement rehabilitation of Diamond Drive, which is a four lane street, two lanes in each direction separated by a concrete median, with associated turn lanes.

Yucaipa Boulevard Improvement, *Yucaipa, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the project, which involved planned improvements along Yucaipa Boulevard from I-10 Freeway to 15th Street. The proposed improvements included a new traffic signal at the intersection of Yucaipa Boulevard and 16th Street, approximately 1,000 linear feet of retaining walls and widening in some areas of Yucaipa Boulevard.

Pauba Road Library Parking Expansion, *Temecula, CA.* Principal in Charge. Provided technical oversight and budget control for the project which consisted of the removal of: existing curb and gutter, sidewalk and base, cold milling; installation of aggregate base; construction of a retaining wall, inverted curb, curb and gutter, and sidewalk; and placement of an asphalt concrete course and overlay.

Jefferson Avenue Pavement Rehabilitation, *Temecula, CA.* Principal in Charge. Provided technical oversight and budget control for Jefferson Avenue pavement rehabilitation in the city of Temecula.

Waterman Avenue Roadway Widening, *San Bernardino, CA*. Principal in Charge. Provided technical oversight and budget control for the project, which involved a geotechnical investigation for design and construction of roadway widening and associated improvements along an approximately three-mile segment of Waterman Avenue. Project also involved improvements to a County of San Bernardino flood control channel.

Tippecanoe/Del Rosa Connector Project, *San Bernardino, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which involved geotechnical services for improvement and widening of the Tippecanoe/Del Road Connector Project located within the Norton Air Force Base. Services included coring of the existing pavement, subsurface exploration, and laboratory testing.

Lamb Canyon /Route 79, *Riverside, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which involved comprehensive geotechnical services required for the widening and realignment of Lamb Canyon/Route 79. Services included detailed geologic mapping, surface exploration, seismic evaluations, rock coring, scour evaluation and more than 50 borings.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Rancho California Road Widening, *Temecula, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which involved evaluation of subsurface conditions and pertinent engineering properties of the encountered materials in order to provide geotechnical recommendations regarding general site grading, slope stability and storm drain construction.

Redlands Municipal Airport Pavement Rehabilitation, *Redlands, CA.* Principal in Charge. Provided technical oversight and budget control for the project. Redlands Municipal Airport is used by light aircraft with a weight less than 30,000 pounds. The existing pavement section consisted of flexible pavement with a thickness between two (2) and three (3) inches on top of native sub-grade. Approximately a 421,000 square foot area of existing pavement on the southeastern portion of the airport had developed alligator cracks. The area was primarily used as a hangar and taxiway. A geotechnical study to evaluate the pavement distress, determine possible cause(s) of the distress and provide with rehabilitation recommendations was to be conducted.

Ontario Municipal Service Center Pavement Rehabilitation, *Ontario, CA.* Staff/Field Engineer. Managed fieldwork, schedule, budget, and prepared a geotechnical investigation report and construction phase. The project location is the parking lot of the Ontario Municipal Service Center located at 1425 Bon View Avenue, Ontario, California. The existing pavement is severely deteriorated so the City constructed new pavement and alleviated persistent drainage issues.

City of Chino Street Rehabilitation Project, *Chino, CA*. Principal in Charge. Provided technical oversight and budget control for the project which includes a storm drain approximately 700 feet long and construction of approximately 5,000 square feet of sidewalk, 1,000 linear feet of curb and gutter, 2,500 linear feet of cross-gutter and 300,000 square feet of street grind and overlay days.

Rehabilitation of Rose, Vine, and Cypress Streets, *Anaheim, CA.* QA/QC. Provided quality control oversight for the geotechnical investigation. The project consisted of rehabilitation of Rose, Vine and Cypress Streets in the city of Anaheim, California. The streets are directly northwest of the intersection between Lincoln Avenue and N. East Street. The site is approximately 2 miles west and 1 mile south of the intersection between the 57 and 91 freeways.

Haut Route Pavement Impact Study/Walnut Canyon Reservoir Rehabilitation Project, *Anaheim, CA.* QA/QC. Performed quality control oversight for the deflection study and pavement rehabilitation. The project consisted of preparation of a pre and post roadway construction route impact study in conjunction with activities at the Walnut Canyon Reservoir Rehabilitation Project in the city of Anaheim, California.

Main Street Median Construction, *Carson, CA.* QA/QC. Provided quality control oversight for the geotechnical investigation. The project consisted of the construction of 2,500 linear feet of elevated median along Main Street between Carson Boulevard and 223rd Street in the City of Carson, California.

Main Street Improvements, *Carson, CA.* QA/QC. Provided quality control oversight for the geotechnical observation and testing, and materials testing and inspection services. The street improvement was approximately 1.39 miles in length within the right-of-way of the City of

Carson. The project extended from Victoria Street to Alondra Boulevard and included construction of hardscape raised medians and landscape, asphalt reconstruction and overlay of approximately 7,320 linear-feet to existing street paving, additional parkway tress and street lights, construction of new and replaced curb, gutter and sidewalks, regulatory traffic signing, pavement stripping, and all associated work as necessary to these specific improvements.

Culver Drive Realignment and Widening, *Irvine, CA.* QA/QC. Provided quality control oversight during the geotechnical observation and testing. The project consisted of Culver Drive Realignment and Widening from Campus Drive to Bonita Canyon in the City of Irvine, California.

Arrow Highway Street Improvement Project, *Irwindale, CA.* QA/QC. Provided quality control oversight for grading and materials testing for the improvements of E. Live Oak Avenue and Arrow Highway from Peck Road to Live Oak east of the San Gabriel River. The project consisted of the construction of a major storm drain (24" to 78 " diameters), sanitary sewers and laterals, traffic signals, street Lights, street reconstruction, median construction with landscaping and miscellaneous improvements.

Cajon Boulevard Slope Repair, *San Bernardino County, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The purpose of the project was to provide preliminary recommendations regarding replacement retaining wall design and construction.

Avalon Boulevard Interchange Modifications at I-405, *Carson, CA.* Principle in Charge. Provided technical oversight and budget control for the geotechnical investigation, observation and testing services. The project involves modifications to the Avalon Boulevard Interchange at the I-405 Freeway. The modifications include the construction of a city collector roadway west of Avalon, widening a portion of Avalon northbound, reconfiguring the existing on and off ramps and the construction of a new southbound on-ramp in the southeast quadrant of the interchange.

Courthouse Parking Lot Expansion, *Rancho Cucamonga, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation, observation and testing. The project consisted of construction of about 379 stall asphalt concrete paved vehicle parking.

Outfall Protection Test, *San Bernardino County, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical testing. The project involved in-place density testing of compacted roadway fill along 4000'of Burnt Mill Road off Highway 138 near the Silverwood Lake area in San Bernardino County, California.

La Rue Street Sidewalk Improvements, *Rubidoux, CA.* Principal in Charge. Provided technical oversight and budget control for the field and laboratory testing services. The project consisted of constructing roadway and sidewalk improvements on La Rue Street between Mustang Lane and La Canada Drive and on Mustang Lane in the Rubidoux Area of Riverside County.

French Valley Parkway, Temecula, CA: Principal in Charge - Provided technical oversight and budget control for the field and laboratory testing services. The overall project includes a new principal arterial (French Valley Parkway) between Jefferson Avenue and Ynez Road, a

new interchange on I-15 at French Valley Parkway, a new Collector/Distribution System of lanes along both sides of I-15 between Winchester Road and the I-15/I-215 Junction, and modifications to the I-15/Winchester Road Interchange.

Park Avenue and Yates Road Improvement, Victorville, CA: Principal in Charge - Provided technical oversight and budget control for the field and laboratory testing services. The project consisted of improvements of Park Avenue from Dos Palmas to Palmdale Roads and Yates Road from Green Tree Boulevard to Arrowhead Drive. The project included improvements to the existing road 0.5 mile long and 41 feet wide on Park Avenue and installing about 479 feet of new curb and gutter along the south side of the roadway on Yates Road.

Portola Parkway Planning Area 1-Irvine, CA QA/QC - Provided quality control oversight for the observation and in-place density testing during grading. Conducted laboratory testing, including maximum dry density and optimum moisture content relationships, gradation analysis, and sand equivalent. The project is known as "Planning Area 1 Sanitary Sewer Improvements, Portola Parkway (From OCFA Fire Station 55 to Hick's Canyon), Proposed Assessment District 05-21 Improvements" and consisted of installation of approximately 2,700 linear feet of 10-inch sewer pipe, fittings, and appurtenances.

Cherry Avenue Pavement Evaluation, *Beaumont, CA.* Principal in Charge. Provided technical oversight and budget control for the project which consisted of evaluation of Pardee Homes plans to widen Cherry Avenue adjacent to the Sundance residential development. The City of Beaumont required Pardee Homes to core the existing pavement on Cherry Avenue and evaluate whether the existing pavement would support a traffic index of 8.5. In order to conduct the required evaluation, it was necessary to determine the thickness of the existing pavement section and the R-value of the existing pavement sub-grade.

Cascade Street Pavement Evaluation, *Rialto, CA.* Principal in Charge. Provided technical oversight and budget control for the project which was located along Cascade Street west of North Sycamore Avenue and east of North Olive Avenue in the City of Rialto, CA where the pavement had developed distresses. Lateral cracks were seen on either side of Cascade Street from curb-to-curb. The sidewalk on the south side sagged approximately 8 to 10 inches. An approximately 3 foot by 5 foot area on the north side of the street showed about six inches of subsidence, where water had ponded. Lateral and longitudinal cracks occurred throughout the distressed area.

Paseo Del Sol Medians, *Temecula, CA.* Principal in Charge. Provided technical oversight and budget control for the project. The project consisted of the construction of a median at Meadows Parkway between Leena Way and Sunny Meadows Drive and a median at Campanula Way in the City of Temecula, California.

Wyle Laboratories Street Improvement, *San Bernardino, CA.* Principal in Charge. Provided technical oversight and budget control for the construction phase. The street improvement project took place directly in front of Wyle Laboratories Testing Facility located at Third Street, San Bernardino, California. The street improvement took place along Alabama Avenue and Third Street. The various elements of the project were sub-grade preparation for curb and gutter, street and sidewalk, and Edison conduit backfill.

Firestone Blvd Pavement Rehabilitation, *City of Norwalk, CA.* QA/QC. Provided quality control oversight for inspection and field and laboratory testing services for the project which consisted of the repair and overlay of approximately 9,672 lineal meters of Firestone Boulevard from Imperial Highway to Rosecrans Avenue.

Main Street Rehabilitation, *City of Alhambra, CA.* QA/QC. Provided quality control oversight for inspection and field and laboratory testing services for soils, asphalt concrete and cement contrete during construction as per Caltrans requirements. The project which consisted of the rehabilitation of Main Street in Alhambra, CA, from the western city limit to Atlantic Blvd. and from Second Street to the eastern city limit.

Pavement Structural Design Recommendations, *City of Buena Park, CA.* QA/QC. Provided quality control oversight for pavement structural section design recommendations for the project which proposed Improvement at Firestone Boulevard north of Artesia Boulevard, Station No. 10+00 to Station 21+00, in the City of Buena Park, California.

Del Mar Avenue and Hellman Avenue Resurfacing, *City of Rosemead, CA.* QA/QC. Provided quality control oversight for the geotechnical investigation for the project which consisted of approximately 2,600 linear feet new pavement on Del Mar Avenue from Gary Avenue to Hellman Avenue and approximately 7,500 linear feet of new pavement on Hellman Avenue from Walnut Grove Avenue to New Avenue.

Various Street Improvement Projects: City of Pasadena, CA. QA/QC. Provided quality control oversight for as-needed geotechnical observation and testing, and inspection and field and laboratory testing services. This was an on-call contract from 2005 to 2010 for rehabilitation and reconstruction projects of many streets in the City.

SR-60 Interchange Improvement Project, *City of Monterey Park, CA.* QA/QC. Provided quality control oversight for the geotechnical investigation for the design and construction of the Retaining Wall No. 6 (Type 1 Standard Wall) for the widening of west bound (W/B) loop on-ramp for State Route 60 (SR-60) at the Paramount Boulevard interchange in the City of Monterey Park, Los Angeles County, California. The report was submitted to Caltrans and City of Monterey Park.

On/Off Ramps

I-10/Riverside Avenue Interchange Project, *Rialto, CA.* QA/QC. Provides quality control oversight for as-needed inspection and field and laboratory testing services for soils, asphalt concrete and cement concrete during construction as per Caltrans requirements. The project involves the replacement of the existing bridge structure over I-10, roadway improvements to Riverside Avenue, widening all four on and off ramps, constructing cast-in-place concrete and MSE retaining walls along the on and off ramps, drainage improvements, extending the box culvert (Rialto Channel) underneath the freeway on the north end and replacing a portion at the south end, and constructing auxiliary lanes at both off ramps. The new bridge will widen Riverside Avenue over I-10 from 5 to 9 lanes and will be a precast pre-stressed/post-tensioned I-girder bridge.

I-10 Widening, *Yucaipa, CA.* Principal In Charge. Provided technical oversight and budget control for geotechnical observation and materials testing services for the project which includes the widening of Interstate 10 between Yucaipa and Redlands. The project adds a general

purpose lane to approximately 3.5 miles of westbound I-10 between Live Oak Canyon Road in Yucaipa and Ford Street in Redlands.

I-15 at Cajalco Road, *Corona, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation, including field exploration; soil characterization; field and laboratory data analyses; slope stability; settlement analyses; shallow and deep foundation capacity; shrinkage analyses corrosion potential; pavement design; collapse potential; and liquefaction potential analyses; and report preparation for the construction of On/Off Ramps under Caltrans jurisdiction.

Highway 71 – South Campus Drive On/Off Ramp, *Pomona, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which involved construction observation and testing in accordance with Caltrans specifications for on/off ramp and retaining wall design and construction associated with the Highway 71 improvements.

Waterman Avenue I-10 On/Off Ramps, San Timoteo Creek Bridge, *San Bernardino, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which involved design and construction of on/off ramps to I-10 overpass at Waterman Avenue. The design report was submitted to Caltrans for final review and approval. Investigations included foundation and seismic design criteria, laboratory analysis and subsurface exploration for the San Timoteo Creek Bridge.

State Routes 91/71 Interchange, *Corona, CA.* Principal in Charge. Provided quality control oversight, budget and resource allocation assistance and contract negotiations. The project consists of the redesign of an existing interchange and widening of several bridges on one of Southern California's most congested highways.

SR-60 Interchange Improvement Retaining Wall at SR-60 West Bound Loop On-Ramp Paramount Boulevard, *Monterey Park, CA.* QA/QC. Provided quality control oversight for the geotechnical study design report. The project consisted of design and construction of Retaining Wall No. 6 (Type 1 Standard Wall) for the widening of west bound (W/B) loop on-ramp for State Route 60 (SR-60) at the Paramount Boulevard interchange in the City of Monterey Park, Los Angeles County, California. The length of the wall is approximately 200 feet with a maximum wall height about 6 feet. The proposed retaining wall will be a Caltrans Standard Retaining Wall Type 1 supporting the existing ascending slope on the west side of the loop on-ramp.

Metro Gold Line Del Mar Station, *Pasadena, CA.* Principal in Charge. Provided quality control oversight, budget and resource allocation assistance and contract negotiations. The project consisted of a mixture of residential and commercial buildings and the existing Santa Fe Railroad Pasadena Depot Building above grade. Two three-level subterranean parking structures were constructed under majority of the site, with Metro Gold Line passing through the center of the site between the two parking structures. The parking structures were constructed with reinforced concrete and are located entirely below grade, with most of the above-grade structures being wood-frame construction.

Metro Rail Universal City Station, *Los Angeles, CA.* Project Manager. Supervised the geotechnical investigation and Geotechnical Design Summary Report preparation for the Universal City Station and crossover structure of the Metro Red Line Subway. The proposed

cut-and-cover structure was about 920 feet long, 70 feet wide, requiring excavations approximately 80 to 90 feet below the exist¬ing surface, located west of Lankershim Boulevard.

Beeline Transit Operations and Maintenance Facility, *Glendale, CA*. QA/QC. Performed quality control oversight for the geotechnical investigation for the project, which involved planned construction of two 1-story buildings and a CNG fueling facility.

Big Blue Bus Facility Expansion Project, *Santa Monica, CA.* QA/QC. Performed quality control oversight for the geotechnical observation and testing for the project, which included demolition of the existing one-story building and construction of underground urban runoff management tank system, Big Blue Bus Maintenance building and site improvements.

On-call Services for Various Union Pacific Railroad Projects, *Various Locations, CA.* Principal in Charge. Provided technical oversight and budget control for on-call geotechnical, construction inspection and materials testing services for various UPRR projects, including the Union Pacific Railroad Team Track project in Los Angeles, and the UPRR Maintenance Facility in Rialto, California.

Other Transportation

Santa Ana River Trail, *San Bernardino County, CA.* Principal in Charge. Provided quality control oversight, budget and resource allocation assistance and contract negotiations. The project consisted of various improvements to the Santa Ana River Trail at four different locations along the eastern bank of the Santa Ana River Channel from Colton Landfill to Riverside Avenue. The improvements consisted of a new single span metal or concrete arch bridge, with about 10 to 20 feet of span, a concrete retaining wall and/or concrete rock slope protection under the Riverside Avenue Bridge, construction of embankment, and excavation/rippability of rock evaluation.

Cajon Boulevard Slope Repair, *San Bernardino County, CA.* Principal in Charge. Provided quality control oversight, budget and resource allocation assistance and contract negotiations. The project site is located 1.1 miles south of Swarthout Canyon Road at a sharp bend of Cajon Boulevard in the Devore area of San Bernardino County. The purposes of the investigation were to determine the nature and engineering properties of the road fill material, evaluate existing slope stability, and to provide preliminary recommendations regarding replacement retaining wall design and construction.

Sultana Cypress Storm Drain, *Ontario, CA.* Principal in Charge. Provided quality control oversight, budget and resource allocation assistance and contract negotiations. The project involves approximately 5,300 linear feet of 10-foot to 12-foot span by 4-foot to 6-foot rise, reinforced concrete box (RCB). The project also includes jacking 360 feet of 12 x 5-foot RCB underneath the State Highway 60.

Metrolink Pedestrian Bridge, *Los Angeles, CA.* QA/QC. Provided quality control oversight. The project consisted of two towers, approach ramps, and a bridge structure, and included a total of 42 piles, two (2) feet in diameter, drilled to varying depths. The bridge structure was approximately 110 feet long and 8 feet wide and passes in a single span. The towers were approximately 40 feet in height and 8 feet wide. The south ramp had 12 piles drilled to a depth of 40 feet and 8 piles to a depth of 25 feet. The north ramp had 10 piles drilled to a depth of 45 feet. The north and south towers each had 6 piles drilled to a depth of 40 feet.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

UCLA Life Science Replacement, *Los Angeles, CA.* Principal-in-Charge. Provides technical oversight and budget control for geotechnical observation and material testing and inspection. The project involves construction of Life Sciences Replacement Building at University of California, Los Angeles. UCLA Life Sciences Replacement Building is a 175,911 gross square fool laboratory, and consists of two seismically separated five story wings with a common basement. The structure is cast-in-place reinforced concrete with as exterior wall system consisting of brick supported by metal studs along with certain wall glazing. The floor system is a cast-in-place flat plate supported by concrete columns with beams at the slab openings. The lateral force resisting system consists of cast-in-lace concrete shear walls. The foundation system is cast-in-place drilled concrete piles with pile caps.

Innovation Village Infrastructure – Phase I, California State Polytechnic University, Pomona, *Pomona, CA.* Principal in Charge. Provides technical oversight and budget control for geotechnical observation and material testing and inspection. The project includes site clearance and construction of a new street from Kellogg Drive to Valley Boulevard and all related site utilities, hardscape, irrigation and landscaping, and relocation of existing utility services.

Highway 71 – South Campus Drive On/Off Ramp, *Pomona, CA.* Principal in Charge. Provided technical oversight and budget control for the project, which involved construction observation and testing in accordance with Caltrans specifications for on/off ramp and retaining wall design and construction associated with the Highway 71 improvements.

Metro Gold Line Del Mar Station, *Pasadena, CA.* Principal in Charge. Provided quality control oversight, budget and resource allocation assistance and contract negotiations. The project consisted of a mixture of residential and commercial buildings and the existing Santa Fe Railroad Pasadena Depot Building above grade. Two three-level subterranean parking structures were constructed under majority of the site. The Metro Gold Line passes through the center of the site between the two parking structures. The parking structures was constructed with reinforced concrete and is located entirely below grade with most of the above grade structures being wood frame construction.

Rail and Bus

Big Blue Bus Facility Expansion, *Santa Monica, CA*. QA/QC. Provided quality assurance and quality control. The existing Big Blue Facility was located on an 8.5 acre site between Colorado Avenue and Olympic Boulevard and Fifth and Seventh Street in Santa Monica, CA. The project consisted of multiple components of work which are to be performed in separate phases. Phase 1 consisted of the demolition of the existing one-story, 30,000 square foot masonry building at 612 Colorado Avenue and the construction of the underground urban runoff management tank system (URM). Phase 2 consisted of the construction of the 65,000 square foot Big Blue Bus Maintenance Building (steel frame, concrete slab on piles). Phase 3 is the demolition of the existing Maintenance Building and remaining site improvements.

Monrovia Railroad Depot Parking, *Monrovia, CA.* QA/QC. Provided quality assurance and quality control. The project site was located at the southwest corner of Myrtle Avenue and Pomona Avenue in Monrovia, California. The project consisted of construction of a parking area to accommodate the railroad depot. The north end of the project was formerly a gas station that

has been demolished, to the south of the former gas station was an existing park and ride parking lot and to the south of the park and ride area was an old railroad station that remained.

McBean Transfer Station, *Santa Clarita, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. The proposed McBean Transfer Station was constructed on the northerly side of Valencia Boulevard, westerly of McBean Parkway in the City of Santa Clarita, California.

Metrolink Pedestrian Bridge, *Los Angeles, CA.* QA/QC. Provided quality assurance and quality control. The project consisted of two towers, approach ramps, and a bridge structure, and included a total of 42 piles, two (2) feet in diameter, drilled to varying depths. The bridge was planned to provide access for pedestrians over two sets of railroads and two flood control channels. The bridge structure was approximately 110 feet long and 8 feet wide and passed in a single span. The towers were approximately 40 feet in height and 8 feet wide. The south ramp had 12 piles drilled to a depth of 40 feet and 8 piles to a depth of 25 feet. The north ramp had 10 piles drilled to a depth of 45 feet. The north and south towers each had 6 piles drilled to a depth of 40 feet.

Beeline Transit Operations and Maintenance Facility, *Glendale, CA*. QA/QC. Provided quality assurance and quality control during the design of the project. The site is located in the City of Glendale in the Glendale Transportation Center on Gardena Street. The project consisted of constructing two 1-story buildings and a CNG fueling facility at the site. Both buildings are built at about existing grade. The maintenance building is located just south of the CNG fueling facility. The administrative building is located just south of an adjacent existing building and retaining wall.

Metro Gold Line, Del Mar Station, *Pasadena, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. The project consisted of a mixture of residential and commercial buildings and the existing Santa Fe Railroad Pasadena Depot Building above grade. Two three-level subterranean parking structures were constructed under majority of the site. The Metro Gold Line passes through the center of the site between the two parking structures. The parking structures were constructed with reinforced concrete and are located entirely below grade with most of the above grade structures being wood frame construction.

Universal City Station Metro Rail, *Los Angeles, CA.* QA.QC. Provided quality assurance and quality control during the design of the project. Converse conducted the geotechnical investigation and Geotechnical Design Summary Report (GDSR) for the Universal City Station and crossover Structure of the Metro Red Line Subway. The proposed cut-and-cover structure is about 920 feet long, 70 feet wide, requiring excavations about 80 to 90 feet below the existing surface located west of Lankershim Boulevard

Union Pacific On-Call Services, *Various Locations, CA.* QA/QC. Provided quality assurance and quality control. Converse performed on-call geotechnical, construction inspection and material testing services for various Union Pacific Railroad projects, including the Union Pacific Railroad Team Track Project in Los Angeles and the Union Pacific Railroad Maintenance Facility in Rialto, California

Parking Structures

Housing And Parking Structure, *Mt. San Antonio Gardens, CA.* QA/QC. Provided quality assurance and quality control during the geotechnical investigation and observation. The project consisted of a split-level housing and subterranean parking structure. The parking structure is approximately 405 feet in length by 150 feet in width, with two levels occupying the southern 125 feet of the structure and three levels occupying the northern end.

Methodist Hospital Parking Structure, *Arcadia, CA.* QA/QC. Performed quality control oversight for geotechnical investigation, observation and testing. The existing auditorium remained there while the classroom buildings were demolished. The parking structure is 4 to 5 stories in height, constructed at about existing grade with no basement. The structure is a cast-in-place post tension concrete structure.

Cal Tech Subterranean Parking, *Pasadena, CA.* QA/QC. Performed quality control oversight for geotechnical investigation, observation, and testing. The project consisted of a three level post-tensioned concrete subterranean parking structure located below the existing Athletic field on the California Institute of Technology Campus southerly of California Boulevard, in the City of Pasadena, California.

Cal Tech Wilson Parking Structure, *Pasadena, CA.* QA/QC. Performed quality control oversight for geotechnical investigation, observation, and testing. The project consisted of a three level reinforced concrete parking structure. The structure has overall plan dimensions of about 270 feet (north-south) by 125 feet (east-west).

Ince Boulevard Parking Structure, *Los Angeles, CA.* QA/QC. Performed quality control oversight for geotechnical investigation, observation, and testing. The project consisted of construction of a concrete structure of post-tensioned slabs and beams with approximately 800 parking spaces: one level at grade, and four levels above-grade.

Los Angeles Hall of Justice, *Los Angeles, CA.* QA/QC. Performed quality control oversight for geotechnical investigation, observation, and testing. The Los Angeles County Hall of Justice is a 14-story structure and was constructed with a steel frame encased in concrete, concrete floor slabs, granite exterior veneer and hollow clay tile interior partition walls. The project included a parking structure with four levels below grade and five levels above the existing ground surface.

Wilshire/Vermont Apartment Complex, *Los Angeles, CA.* QA/QC. Performed quality control oversight for geotechnical investigation and observation. The Wilshire Vermont Apartment Complex consisted of 380 residential apartment units located on six levels built over approximately 30,000 square feet of commercial space on the ground floor. The project also included approximately 900 parking spaces located in three subterranean levels.

Parking Lots

Weyerhauser Parking Expansion, *Fontana, CA.* QA/QC. Performed quality control oversight for geotechnical investigation and observation. The project consisted of construction of asphalt concrete paved parking on a five (5) acre site, east to existing Weyerhaeuser facility. The site is located east of the Weyerhaeuser facility, north of Slover Avenue in the City of Fontana, California.

Redlands Municipal Airport Pavement Evaluation, *Redlands, CA.* Principal in Charge. Provided technical oversight and budget control for the pavement evaluation. The project consisted of the evaluation of the Redlands Municipal Airport runway pavement in the City of

Redlands, California. The City of Redlands had planned to repair/rehabilitate portions of the asphalt concrete on the runway.

Temecula Public Library Parking Lot Expansion, *Temecula, CA.* Principal in Charge. Provided technical oversight and budget control for the pavement evaluation. The project was located at 30600 Pauba Road in Temecula, California. The Temecula Public Library is north of Pauba Road and the library parking lot is east of the library building. The project consisted of sub-grade preparation and base course placement for street, sidewalk, and curb and gutters along the north side of Pauba Road.

Ontario Municipal Service Center Pavement Rehabilitation, *Ontario, CA.* Staff/Field Engineer. Managed fieldwork, schedule, budget, and prepared a geotechnical investigation report. The project location is the parking lot of the Ontario Municipal Service Center located at 1425 Bon View Avenue, Ontario, California. The existing pavement is severely deteriorated so the City constructed new pavement and alleviated persistent drainage issues.

Foothill Parking Lot Expansion, *Rancho Cucamonga, CA.* QA/QC. Performed quality control oversight for geotechnical investigation and observation. The project consisted of construction of about 379+ stall asphalt concrete paved vehicle parking. The project site is located west of Alder Street, northeast of Foothill Courthouse at 8303 North Haven Avenue in Ranch Cucamonga, California. There was an existing parking lot at the southwest corner of the site.

Corporate Business Center Parking Lot, *Redlands, CA.* QA/QC. Performed quality control oversight for geotechnical investigation and observation. The project consisted of the evaluation and repair of the parking lots surrounding the building located at 10459 Mountain View Avenue in the City of Redlands, County of San Bernardino, California. The site is located at the northwest corner of Redlands Boulevard and Commerce Street in the City of Redlands, County of San Bernardino, California. The parking lots surrounding the building located at 10459 East Mountain View Avenue, Redlands, California have developed distress including alligator cracks.

Pauba Road Library Parking Expansion, *City of Temecula, CA.* QA/QC. Performed quality control oversight for geotechnical investigation and observation. The project consisted of the removal of existing curb and gutter, sidewalk and base, cold milling; installation of aggregate base; construction of a retaining wall, inverted curb, curb and gutter, and sidewalk; and placement of an asphalt concrete course and overlay.

County of Los Angeles Topanga Creek, *Los Angeles County, CA.* QA/QC. Performed quality control oversight for geotechnical investigation and observation. The project consisted of the analysis and evaluation of the parking lots at Topanga Creek Wetlands and the Stream Bank.

Washington Street Parking Lot, *Venice, CA*. QA/QC. Performed quality control oversight for geotechnical investigation and observation. The project consisted of evaluation and recommendations for the parking lot at 3100 Ocean Front Walk at Washington Street at Venice Beach in Venice, CA.

CAC Parking Structure and Building Addition, *Riverside, CA.* Principal in Charge. Provided technical oversight and budget control for geotechnical investigation and materials testing and inspection. The project consisted of demolishing the existing parking lots and construction of a four-story reinforced

concrete parking structure and an annex to the existing County Administration Center. The parking structure was supported by cast-in-place reinforced concrete piles.

Parking Structure No. 1, Cal Poly Pomona, *Pomona, CA.* QA/QC. Performed quality control oversight for construction inspection services. The project consisted of the construction of 2,438 stalls of parking on six levels in approximately 735,000 gross square feet.

Mixed Use

Stoneridge Towne Centre Retail Stores, *Moreno Valley, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation and testing. The project included construction of an approximately 150 acre site in the city of Moreno Valley, Riverside County, California. The project included retail stores located within the Towne Centre, including Target, Kohl's Store's, and twenty-one one-story retail store structures.

Eastvale Gateway, *Riverside County, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation and materials testing and inspection services. The project consisted of construction of retail stores, a 16-plex theater, an access road and parking areas.

The Ontario Center, Phase I and II, *Ontario, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical observation, materials testing and inspection. This project consisted of construction of two major retail stores, a shop building, eight satellite buildings, and a 4-story hotel.

Fox Plaza Phase I, *Riverside, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project is a mixed use residential, hotel and retail with subterranean parking. Our recommendations included tieback anchors, drilled pile installation and permanent retaining walls.

Riverside County Economic Development Agency Building Expansion and Façade Improvements, *Riverside, CA.* Principal in Charge. Oversaw geotechnical investigation for the proposed project. The planned expansion consisted of the addition of office space at the ground level to accommodate a reception area, copy/fax area, small supply room/office, men and women's restroom waiting area, and two conference rooms. In addition to the building expansion and façade improvements, it was planned to construct miscellaneous site improvements including an expansion of the outdoor employee break area.

The Marketplace at Baldwin Park, *Baldwin Park, CA*. Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation, and testing. The project consisted of construction of a 24-acre site. Commercial development planned at the site included a Super Wal-Mart and 6 other stores.

Sierra Business Center, *Fontana, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation, observation, and materials testing and inspection services. The project consisted of construction of 12 buildings ranging from approximately 30,000 to 750,000 square feet and associated driveways, parking areas, streets, sidewalks, and utilities.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Mission Avenue Mixed Use Development, *Oceanside, CA.* Principal in Charge. Oversaw geotechnical investigation for the proposed project. The project site was located on the south side of Mission Avenue, east of the intersection with Carolyn Circle and west of Foussat Road, in the City of Oceanside, California. The subject property is an irregular shaped parcel that encompasses 14.5-acres. The site is bounded by Mission Avenue on the northwest and encircled by residential neighborhoods bounded by Carolyn Circle on the remaining sides. The project consisted of approximately ten residential buildings, which were 2 to 3 stories high. There was one, 1-story community center building (about 5,000 square feet). These buildings were located on the western part of the site. The project also consisted of retail/office/commercial buildings (about 6,000 square feet) with two stories of residential on top to be located east of Roymar Road along Mission Avenue.

Sierra Crest Mixed Use Development, *Fontana, CA.* Principal in Charge. Provided quality and budget control, and technical supervision for the geotechnical investigation and observation and testing during construction of the proposed project. The project site of approximately 76 acres was located at the southeast corner of Sierra Avenue and North Riverside Avenue in the City of Fontana, California. The development included a commercial area, multi-family residences, and a school site in addition to associated streets, parking areas, utilities, and other features.

Essential Buildings

Federal Bankruptcy Courthouse, *Riverside, CA.* Principal in Charge. Provided technical and budget oversight for the project, which included geotechnical investigation, observation and testing, and materials testing and inspection services. The project involved the construction of a new Federal Bankruptcy Courthouse in Riverside, California, including a two (2)-story building and a 60-car parking lot. The courthouse is a 42,000-square-foot, reinforced masonry structure with exterior plaster veneer and a moment frame structural steel design.

Ontario Museum of History & Art, *Ontario, CA.* Principal in Charge. Provided technical and budget oversight for the limited geological investigation and percolation testing for the project. The project site was located at 225 S Euclid Avenue in the City of Ontario, California. The two-story museum structure is situated within the roughly square-shaped parcel and is surrounded by landscaping on the north, west, and south, and a parking lot on the east. The landscaping surrounding the Ontario Museum of History and Art will be replaced with more drought resistant California native plants. After the existing landscaping is removed, minor re-grading of the site will be performed to create proper drainage. Surface run-off will be infiltrated into the ground. No structures are planned as part of these improvements.

Public Health Laboratory Expansion, *Riverside, CA.* Principal in Charge. Provided technical and budget oversight for the design and construction phases of the project. The project is located at 4065 County Drive, Riverside, California. The proposed improvements included an 8,500 square-foot expansion of the existing public health laboratory building. The expansion is a one-story steel-framed structure with a shallow concrete foundation. Other improvements associated with the project included underground utilities and pavement.

San Bernardino County Central Courthouse and Courthouse Annex, *San Bernardino, CA.* Principal in Charge. Provided technical and budget oversight for the geotechnical investigation for the project. The project involved renovation and seismic retrofitting of Central Courthouse and Courthouse Annex structures.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Los Angeles County Hall of Justice, *Los Angeles, CA.* QA/QC. Provided quality control oversight for the geotechnical investigation, observation, materials testing and inspection for the project. As a result of sustaining major damage during the 1994 Northridge earthquake, the building was closed. The renovation concept called for converting the structure from a mixed use (office, court, and jail) to office for the Sheriff's Department and District Attorney and upgrading the structural seismic resistance to comply with current building codes.

Riverside County Economic Development Agency Building Expansion and Façade Improvements, *Riverside, CA.* Principal in Charge. Provided technical and budget oversight for the geotechnical investigation for proposed project. The proposed expansion consisted of the addition of office space at the ground level to accommodate a reception area, copy/fax area, small supply room/office, men and women's restroom waiting area, and two conference rooms.

Victorville City Hall, *Victorville, CA.* Principal in Charge. Provided technical and budget oversight for the project, which involved materials testing and inspection during new construction - 38,535 square feet (1st floor) and 37,455 square feet (2nd floor), and major renovation - 25,752 square feet (1st floor) and 9,798 square feet (2nd floor).

Yucaipa City Hall, *Yucaipa, CA.* Principal in Charge. Provided technical and budget oversight for the project, which involved materials testing and inspection during construction of 19,960 square foot City Hall Building including a combination of wood/steel framed, single story structure.

Fire Station No. 5, *Victorville, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the project. The project consists of construction of the proposed Fire Station #5, an approximately 5,250 square foot one-story pre-engineered metal, masonry or wood frame building. The approximately 0.6 acre site is located west of the northwest corner of the intersection of Topaz Road and Eucalyptus Street in the city of Victorville, California.

New Fire Station No. 6, *Corona, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation for the proposed fire station. The approximately one acre site is located at 110 West Upper Avenue, southwest corner of Upper Avenue and Main Street in the city of Corona, California. Construction consisted of a one-story masonry building, an engine room, parking lots and access roads.

Mead Valley Code Enforcement Building, *Mead Valley, CA.* Principal in Charge. Provided technical oversight and budget control for the geotechnical investigation. The project consisted of the constructing a new code enforcement building of approximately 10,000 square feet was located at 19450 Clark Street within the unincorporated community of Mead Valley, Riverside County, California.. Various elements associated with the project include construction of retention basin, installation of landscaping, lighting, signage, paving, and fencing. The existing code enforcement building was demolished and the new building was constructed at the approximately 1.08 acre site.

Golden Era Productions Studio Building 'B', *San Jacinto, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the for the geotechnical investigations. The project site location of Studio B was immediately northwest of the existing Studio A building at 19625 Gilman Springs Road in the San Jacinto area of Riverside County, California. It was planned to construct a 14,275-square-foot, one-story

building which would include an 8,736-square-foot “Studio B”. The building would be tilt-up wall or steel framed.

Community Colleges

Crafton Hills College Expansion, San Bernardino Community College District, *Yucaipa, CA.* Principal in Charge. Provides resource and budget oversight, technical review and contract management for the geotechnical and materials testing and inspection services related to the project. The expansion includes construction of a 58,824 square foot Learning Resource/Technology Center, a 5,738 square foot Community Recreation Facility, and campus-wide infrastructure projects. Final completion of all construction is expected by June of 2010.

San Bernardino Valley College Expansion, San Bernardino Community College District, *San Bernardino, CA.* Principal in Charge. Provides resource and budget oversight, technical review and contract management for the geotechnical and materials testing and inspection services related to the project. The expansion includes construction of a 14,811-square foot Maintenance and Operations Building, an 18,020-square foot Media/Communications Building, a 56,760-square foot Science Building, and numerous interim housing building sites. Final completion of all construction is expected by September 2010.

Chemistry and Science Building, Mount San Antonio College, *Walnut, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the project which is located just south of the existing Art Center Building in the northwestern portion of the San Bernardino Valley College Campus. The Science and Chemistry Buildings were planned to be three and two story steel frame structures, respectively, with a combined area of approximately 56,934 square feet, founded on pile and grade beam foundations with slab-on-grade.

North Hall Building, San Bernardino Valley College, *San Bernardino, CA*. Principal in Charge. Provided resource and budget oversight, technical review and contract management for the project which was located just east of the existing Liberal Arts Building in the southwestern portion of the San Bernardino Valley College Campus. The North Hall Building was a three story masonry structure approximately 49,756 square feet in size, founded on pile and grade beam foundations.

Math and Science Building, Mount San Antonio College, *Walnut, CA*. Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation. The project consisted of the design and construction of a Math and Science Building with building footprint of 23,000 square feet.

Renovation of Buildings No. 7, 11, and 26, Mount San Antonio College, *Walnut, CA.* QA/QC. Provides quality control overview for the materials testing and inspection. The project consists of renovation of three existing buildings at Mount San Antonio College campus.

Building No. 10 Remodeling Project, Mount San Antonio College, *Walnut, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical and materials testing and inspection services related to the project. The Building 10 Remodeling consisted of a one-story expansion with CMU walls founded on slab-on-grade and caissons.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Infrastructure/Central Plant, Cerritos College, *Norwalk, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geotechnical investigation. The project consisted of construction of new Central Plant and associated utilities and pipe lines.

Gymnasium Seismic Retrofit, Cerritos College, *Norwalk, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geoseismic/geotechnical investigation. The project consisted of retrofitting the existing gymnasium building, which has unique architectural and structural features.

New Facilities Building, Cerritos College, *Norwalk, CA*. Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geoseismic/geotechnical investigation. The project consisted of a construction of a new facility building, which is planned as one-story steel frame masonry structure.

Automobile Technology Building Expansion, Cerritos College, *Norwalk, CA.* Principal in Charge. Provided resource and budget oversight, technical review and contract management for the geoseismic/geotechnical investigation. The project consisted of additions to Building A, modernization within Building B, a new Building G, and a new Building F. All addition and modernization structures are planned as steel frame masonry with slab on grade and shallow foundations.

South Campus Project, Los Angeles Trade Tech College, *Los Angeles, CA.* QA/QC. Provides quality control oversight for the materials testing and inspection for the project. The Trade Technical College South Campus project involves the construction of two five-story classroom buildings and a Utility Building.

Building "A" Restoration and Modernization, Los Angeles Trade Tech College, *Los Angeles, CA. QA/QC.* Provided quality control overview for geotechnical investigation and materials testing and inspection services provided for the project. The renovation includes interior and exterior improvements to the existing building, a new lobby addition, mechanical building addition, exterior courtyard, exterior plaza, and minor parking improvements.

Physical Education Renovation, LA Pierce College, *Woodland Hills, CA.* QA/QC. Provides quality control overview for the materials testing and inspection services provided for the project, which involves construction of a new wellness pool and existing pool refurbishment, alterations to and modernization of the South Gymnasium, and modernization of the North Gymnasium and stadium field house.

Student Success Center, Mt. SAC*, Walnut, CA.* Principal in Charge. Provided quality control overview for geotechnical investigation. The project consisting of the construction of a 3-story building. It will facilitate computer labs, counseling offices, a wellness center, conference rooms and staff offices.

PEP Gym & Aquatics Center, Mt. SAC, *Walnut, CA.* Principal in Charge. Provided quality control overview for geotechnical investigation. The project consisted of a new physical education and aquatics center complex. The 2-story, above grade complex has a footprint that totals 86,867 square feet for both floors. It also included 2 swimming pools, aquatics bleachers and landscaped areas.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Parking Structures Lots R & S, Mt. SAC, *Walnut, CA.* Principal in Charge. Provided quality control overview for geotechnical investigation. The project included construction of Lot R, a two-level parking structure measuring 199,920 square feet. Lot S consisted of a 3-level parking structure measuring 89,820 square feet.

Underground TES, Lot H, Mt. SAC, *Walnut, CA.* Principal in Charge. Provided quality control overview for geotechnical investigation. The project will modify the existing Central Plant Thermal Energy Storage system by adding a 2.2 MG underground TES storage tank to increase the Central Plant's cooling capacity and shift peak electrical demands.

Modular Building Project, Mt. SAC, *Walnut, CA.* Principal in Charge. Provided quality control overview for geotechnical investigation and percolation testing. The project included developing modular buildings at four locations at the central and southern portions of the college campus. the proposed buildings consisted of two instruction modular buildings, document storage modular building, two athletics modular buildings, and four student services modular buildings.

Fine Arts, Math & CIS Facilities, Cerritos Comm. College, *Norwalk, CA.* Principal in Charge. Provided quality control overview for geotechnical investigation and material testing and inspection during construction. The project included the demolition of 3 existing buildings, construction of 2 buildings; Fine Arts, 56,000 sq. ft. and CIS/Math, 40,000 sq. ft. A unique feature of the project; an exterior shaded bridge that will join both buildings together.

Palo Verde Community College, *Blythe, CA.* QA/QC. Provides quality control oversight for the project, consisting of providing geotechnical and materials testing and construction inspection services for the development of the new Palo Verde College campus in Blythe, California, which includes a two-story Technology building, Physical Education Complex, Performing Arts Complex.

Health & Wellness Complex, Cerritos Comm. College, *Norwalk, CA.* Principal in Charge. Provided quality control overview for geotechnical investigation and material testing and inspection during construction. The project included a complex of 5 new buildings totaling 76,000 gross square feet. The building serves as the home base for all athletic and physical education activities expansion of laboratory, classroom, and office.

Social Science Building, Cerritos Comm. College, *Norwalk, CA.* Principal in Charge. Provided quality control overview for geotechnical investigation and percolation testing. The Social Science Building elevator is planned to be situated on the northwest portion of the campus. The site is currently a hardscape area adjacent to the existing Social Science Building.

Physical Sciences Seismic Retrofit, Cal State L.A., *Los Angeles, CA.* Principal in Charge. Provided quality control overview for geotechnical investigation and material testing and inspection during construction. Reviewed building history and evaluation capacity of existing pile foundation under gravity and axial loads in support of the Seismic Retrofit Project for Physical Sciences Building; Building 12 an eight story, high-rise tower with two levels of basement.

Caltech Bechtel Residence, Cal Tech, *Pasadena, CA.* Principal in Charge. Provided quality control overview for geotechnical investigation. The project site was located within the existing

Caltech campus in Pasadena. The development consists of construction of a new building, up to three stories, with a partial basement and associated parking lots and landscaping.

Parking Lot No. 7, Los Angeles Pierce College, *Woodland Hills, CA.* QA/QC. Provided quality control overview for the geotechnical observation and testing. This project involved the renovation of Parking Lot no. 7 at Pierce College in Woodland Hills, California. Parking Lot No. 7 is an existing asphalt concrete paved lot located on the campus, along the southerly side of Victory Boulevard, just east of Mason Avenue/Stadium Way. The existing asphalt concrete pavement was removed, the site fine graded and new curbs, gutters and pavement installed.

Swimming Pool Renovation, Mount San Antonio College, *Walnut, CA.* QA/QC. Performed quality control oversight. The Swimming Pool Renovation Project consisted of upgrading and expansion of the existing swimming pool within the campus. The swimming pool is 50 meter X 25 yard Olympic Sized Pool with a movable bulkhead and 1,200 seating capacity.

Power and Substations

Eldorado – Ivanpah 220kV Transmission Line, *Clark County, NV & San Bernardino County, CA.* Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project consists of construction of a new double-circuit 220 kV Lattice Steel Tower (LST) and 220kV steel H-frame structures for the new double-circuit 220 kV transmission line approximately 35 miles long, between the existing Eldorado Substation in Nevada, and the proposed Ivanpah Substation in San Bernardino County, California.

Magnolia Avenue Steel Pole Installation, *Riverside, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation for the project which consisted of the design and construction of two (2) galvanized steel poles. The first pole was located on Magnolia Avenue, approximate 325 feet southwest of the center line of Polk Street, and the second pole was located approximately 325 feet northeast of the center line of Polk Street. Both poles are located in the median of Magnolia Avenue, and stand approximately 75.0 feet above the ground surface.

Weldon Substation, *Weldon, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project consisted of improvements at the Southern California Edison Weldon Substation located in the City of Weldon, Kern County, California.

WR-34 Hydroelectric Power Generation Facility, *Temecula, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The Powerhouse was incorporate a hydroelectric turbine generator into the Turnout Facility and will consist of a reinforced concrete slab-on-grade with a below-grade wet well. A powerhouse building approximately 900 square feet by 20 feet in height was provided for security, noise considerations, and to prevent rainfall and dust from contaminating the turbine-generator and hydraulic power unit.

Southern California Edison Mesa Storage Yard, *Monterey Park, CA.* Principal in Charge. The project consisted of the planned construction of the Mesa Storage Yard located northeast of the intersection of Potrero Grande Drive and the Pomona Freeway I-60 in Monterey Park,

California. The construction consisted of approximately 22-acres of lay down area with various access roads to accommodate light to moderate truck and crane traffic.

Southern California Edison Material Yard 28, *Lancaster, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for **t**he project which consisted of the construction of the Material Yard 28, located southeast of the intersection of West Avenue I and 70th Street in the City of Lancaster, California. The construction consisted of grading the site to be used for storage and support of light traffic and crane loads.

Chino Substation, *Chino, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which consisted of providing drilling and laboratory testing services for the improvements at the Chino Substation located off Euclid Avenue in the City of Chino, San Bernardino County, California.

Harvey Lynn Substation, *Riverside, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which consisted of an addition to the Harvey Lynn Substation which consisted of replacement of an existing pole with an approximately 70 to 80-foot steel pole in the public right-of-way outside the substation wall along Schuyler Avenue, evaluation of a second existing pole in the southeastern portion of the substation, and the addition of a variety of new equipment with dead weight up to 10 kips and centers of gravity up to 10-feet above ground within the substation. Future expansion will include the extension of the existing framed structure to the east boundary of the lot along La Sierra Avenue.

Southern California Edison, Bailey-Neenach 66kV TSP, *Neenach, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. Converse worked with Southern California Edison (SCE) for the design of a power transmission line located northwest of the intersection of 210th Street West and Avenue “D” in the City of Neenach, Los Angeles County, California. Converse coordinated with the SCE Geotechnical Group to attend a biological awareness training session prior to conducting drilling and laboratory testing services. We provided the personnel, equipment, and materials necessary to accurately investigate the soil properties surrounding the power transmission line.

Southern California Edison, Santa Barbara Reliability Project, *Ventura County, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. Southern California Edison commissioned Converse to prepare a slope stability evaluation report for the planned Lattice Steel Tower M6T4 Relocation project site, which is part of the Santa Clara-San Marcos 66kV Transmission Line located in Ventura County, California.

Los Lomas Substation, *Irvine, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which consisted of the Los Lomas Substation expansion project located in the City of Irvine, Orange County, California.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

SCE Arrowhead Calectric Devil Canyon Shadin TSP, *San Bernardino, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which consisted of replacement of a steel pole and transmission line which were located in a dirt area off Baseline Road in San Bernardino County, California. The access road, from Baseline Road, was located close to the river bank slope which was partially washed out in some areas. A heavy duty rig was required to maneuver over rocks and around the washed access road.

Devers Substation, *Palm Springs Area, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management the project which consisted of provide drilling and laboratory testing services for the substation located west of the intersection of Power Line Road and Diablo Road in the North Palm Springs area of Riverside County, California.

Carodean Leatherneck Transmission Line, *San Bernardino County, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which extends the Carodean-Leatherneck Transmission route from the existing Carodean Substation to the proposed Leatherneck Substation.

Red Bluff Substation, *Riverside County, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which was located south of Interstate 10, east of the Desert Center Rice Road exit, in the Desert Center area of Riverside County, California and consists of a planned septic system with a septic tank, two seepage pits, a distribution box, and associated piping. The bottom of the seepage pits were approximately 17 feet below the ground surface.

Colorado River Substation, *Riverside County, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the project which involved providing drilling and laboratory testing services for the Southern California Edison Colorado River Substation and access road located approximately 8 miles east of the City of Blythe, California in an unincorporated area of Riverside County.

Antelope Substation, *Lancaster, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the two geotechnical investigations performed for the subject substation - the 220 kV Segment 1 Expansion and the proposed Antelope Substation 550kV Expansion located at 9634 W. “J” Avenue, in the City of Lancaster, Los Angeles County, California.

Little Rock Substation, *Palmdale, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical observation and testing and materials testing and inspection. The site was located at 90th Street East and East Avenue O in Palmdale, California. The project involved services during the grading and construction of a substation.

Tehachapi Renewable Transmission Project (TRTP), *Various Locations in Southern California.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the construction phase of the project. The proposed TRTP consisted of a series of new and upgraded high-voltage transmission lines and substation facilities to deliver electricity from new wind farms in the eastern Kern County area of California, to the greater Los Angeles County, Orange County, and San Bernardino County. The project consists of eight

remaining segments enumerated as Segment 4 through Segment 11. Segment 9 is to include proposed new substations and substation upgrades along the alignments. Proposed segments will involve upgrading and expanding SCE's transmission & substation system in order to integrate TWRA wind generation into SCE's electric system.

Oak Valley Substation, *Calimesa, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical investigation. The project involved proposed Southern California Edison 220/115 kV - 115/12 kV substation located about 800 feet north of San Timoteo Canyon Road and Woodhouse Lane intersection, in the city of Calimesa, California.

Alberhill Substation, *Lake Elsinore, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geologic/geotechnical constraints study. The project involved proposed Alberhill 500 KV Substation located on a 25-acre site northwest of the intersection of Temescal Canyon Road and Concordia Ranch Road in the city of Lake Elsinore, Riverside County, California.

Vincent Substation Expansion, *Palmdale, CA.* Principal in Charge. Provides technical and budget oversight, resource allocation and contract management for the geotechnical investigation, observation and testing, and materials testing and inspection activities. The proposed expansion is being constructed along the west side of the existing Vincent Substation at 33301 Angeles Forest Highway, south of the city of Palmdale, Los Angeles County, California. The project includes extensive grading for facilities expansion, including building pads and access roads to support new electrical switch racks, transformer pads, SVC system, control panels, relays, and transmission towers.

Mountain View Generating Station, *Redlands, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the materials testing and inspection activities. The project site is located at 2492 W. San Bernardino Avenue in the City of Redlands, California. The project involved construction of maintenance platforms, maintenance access floors, and stairways.

Proposed Crib Wall Replacement - Tower No. N26-T4, *Orange County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical design study. The project consisted of a retaining wall replacement at Tower No. N26-T4 located at the eastern end of a power spur off Limestone Ridge Road in the Santiago Canyon area of Orange County, California.

Triton Substation, *Temecula, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geologic/geotechnical constraints study. The proposed Triton 115/12kV Substation is to be located southeast of Nichlos Road and Calle Medusa in city of Temecula, Riverside County, California.

Rindge Substation, *Malibu, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical foundation study. The Rindge Substation is located at 3839 Winter Canyon Road in Malibu, California. The project involved proposed replacement of the burned timber retaining wall with a new concrete block retaining wall and slope surface drain.

Hashmi Quazi, PhD, PE, GE

Principal in Charge/Project Manager

Ormond Beach Generating Station, *Oxnard, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical observation and testing and materials testing and inspection. The project involved construction of three mat foundations to support the equipment at Ormond Beach Generating Station located in the City of Oxnard, California.

Riverside Interconnect, *Riverside County, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geologic/geotechnical constraints study. The project consisted of planned construction of towers and poles along an alignment that begins near the intersection of Van Buren Boulevard and Etiwanda Avenue to Wilderness Avenue and Santa Ana River.

Field and Laboratory Services for Various Substations, *Various Locations, CA.* Principal in Charge. Provided technical and budget oversight for field and laboratory testing services performed for numerous Southern California Edison facilities at various locations, including Mohave Substation, Randsburg Substation, Tipton Substation, Whirlwind Substation, Niguel Substation, Lakeview Substation, Dougoil Substation, Camino Substation, Gilbert Substation, Mirage Substation, Rector Substation, La Fresa Substation, Savage Substation, Liberty Substation, Belmont Substation, Wildomar Substation, Eastwood Substation, Alessandro Substation, and many others.

Chevron Tower Line Project, *El Segundo, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the preparation of geotechnical study report. Southern California Edison planned to engage Hill Crane services of Long Beach to replace transmission towers along the Chevron Oil Refinery on the north side of Rosecrans Avenue. The purposes of Converse investigation were to locate the existing underground utilities, determine soil conditions, and provide recommendations for crane support mats bearing capacity and settlement.

Transmission Tower Project, *Long Beach, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the preparation of Geotechnical/Geologic Hazard Data Report. The proposed transmission towers were to be located southwest of Harbor Scenic Drive and Ocean Boulevard in Long Beach, Los Angeles County, California. The project consists of construction of four steel tubular poles for transmission towers.

Lakeview Substation, *Nuevo, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the preparation of Geotechnical Study Data Report. The project involved proposed Lakeview Substation, located southwest of the intersection of 10th Street and Reservoir Avenue in Nuevo, Riverside County, California.

Tehachapi Renewable Transmission Project, *Kern County and Los Angeles County, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. The project will provide the electrical facilities necessary to interconnect new wind turbine based electrical generation in excess of 700 MW and up to approximately 4,500 MW from the Tehachapi Wind Resource Area.

North Palm Springs Substation, *Palm Springs, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. The project was a 500 kV

substation located west of the intersection of Power Line Road and Diablo Road in the North Palm Springs area of Riverside County, California.

Arrowhead-Calectric-Devil Canyon-Shadin Power Transmission Line, *San Bernardino County, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. The project involved the replacement of a steel pole located in a dirt area off Baseline Road in San Bernardino County.

Carodean-Leatherneck & Hi-Desert-Leatherneck Transmission Route, *San Bernardino County, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management to the Carodean-Leatherneck Transmission route which extended from the existing Carodean substation to the proposed Leatherneck substation. The Hi Desert-Leatherneck Transmission route extends from the existing was substation to the proposed Leatherneck substation.

Sun Wireless Cell Towers, *Ontario & Rancho Cucamonga, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. The project consisted of the construction of two (2) 40-foot monopoles, one located east of Haven Avenue and north of Tackstem Street and the other south of the 210 Freeway and west of Sapphire Street in the City of Rancho Cucamonga, California. The third 100-foot 4-legged communication tower was located in the southwest corner of East 6th Street and North Baker Avenue, within the City of Ontario, California.

Modular Building and Antenna Project, *Palmdale, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. The project was located at the ridge of the Sierra Pelona Mountains near Palmdale, California. It consisted of the construction of one replacement building with dimensions of approximately 32 feet x 21 feet with CMU walls and one 100 foot tall antenna tower within the existing Mount McDill Antenna Site. The proposed building was to be one-story and supported on shallow footings.

San Jacinto Valley Regional Wastewater Reclamation Facility (SJVRWRF) Communication Tower, *San Jacinto, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. The project consisted of the construction of a 40 foot high self-supported communication tower which was supported on drilled pile foundation. The tower was located in front of the operation and maintenance building and south of the boiler facility at the San Jacinto Valley Regional Wastewater Reclamation Facility (SJVRWRF) in San Jacinto, California.

Transmission Tower and Equipment Building, *Chino Hills, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. The project consisted of a new 12 foot by 20 foot prefabricated equipment building founded on a concrete slab and a 60 foot high transmission tower with a 6 foot by 6 foot plan dimension at the base. The project was located at 16480 Canon Lane, Chino Hills, California. The structures were located within the existing City of Chino Hills water reservoir site.

Detention Centers

Los Angeles County Men's Central Jail, *Los Angeles, CA.* Principal in Charge. Provided technical and budget oversight, resource allocation and contract management. This project consists of demolishing the existing Men's Central Jail and facilities, and the construction of a

new Men's Central Jail Facility. The new jail can accommodate 4,860 beds, and will include a new multi-story parking structure, a courtline, public plaza, CTC building and a new secure skyway connecting to the adjacent Twin Towers Correctional Facility. The parking structure accommodates 1,400 vehicles and is ten levels high.

Violent Offender's Housing Facility, Central Juvenile Detention Center, *San Bernardino, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical observation and materials testing and inspection during construction. The project involved the construction of two one-story masonry-wall buildings. Each building was 2,140 square feet with slab-on-grade.

West Valley Detention Center, *Rancho Cucamonga, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical investigation, observation and materials testing and inspection during construction. The project consisted of construction of a 6,000 square foot Commissary Building on the premises of West Valley Detention Center. The structure was one-story wood-framed, located northwest of an existing trailer with slab-on-grade.

Tehachapi State Prison, *Tehachapi, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical observation and materials testing and inspection during construction. The project involved construction of additions and renovations to the Tehachapi State Prison.

Lancaster State Prison, *Lancaster, CA.* Principal in Charge. Performed quality control and budget oversight for the geotechnical observation and materials testing and inspection during construction. The project involved construction of additions and renovations to a State Prison Inmate Day Labor Facility in Lancaster, California.

Victorville City Hall, *Victorville, CA.* Principal in Charge. Provided technical and budget oversight for the project, which involved materials testing and inspection during new construction - 38,535 square feet (1st floor) and 37,455 square feet (2nd floor), and major renovation - 25,752 square feet (1st floor) and 9,798 square feet (2nd floor).

Landfills

Badlands Sanitary Landfill Expansion, *Riverside County, CA*. Principal in Charge. Provided technical and budget oversight, resource allocation and contract management for the geotechnical, geologic and slope stability analysis. The Badlands Sanitary Landfill was located at 31125 Ironwood Avenue, Moreno Valley, California. Riverside County planned an expansion of the existing solid waste landfill facility which included a new access road, solid waste placement procedures, surface water drainage control, infiltration, and generation and control of leachate, landfill gas, and condensate.

Lamb Canyon Sanitary Landfill, *Riverside County, CA*. Principal in Charge. Provided technical oversight and budget allocation for the geotechnical observation and material testing and construction quality assurance services for the project. The Lamb Canyon Sanitary Landfill was located in Riverside County at 16411 Lamb Canyon Road (Highway 79), Beaumont, California. Converse provided construction quality assurance services during slope repair at the Lamb Canyon Sanitary Landfill. We also performed field density and laboratory testing during grading of the "shoulder plug" at the landfill.

El Sobrante Landfill, Phase 8A, *Corona, CA*. Principal in Charge. Provides technical oversight and budget control for the geotechnical observation and material testing and construction quality assurance services for the project. The project consisted of 1,700,000 cubic yards of excavation and installation of a liner system. Phase 8-A included 18 acres and was comprised of compacted clay liner, 40-mil HDPE double-side textured geomembrane, geosynthetic clay liner (GCL), 1'

gravel drainage layer, filter geotextile, and 60-mil double-side textured HDPE geomembrane, with a 2 foot operations layer. The sidewall liner system consisted of the prepared subgrade, 40-mil double side textured HDPE geomembrane, GCL, and 60-mil double side textured HDPE geomembrane, geocomposite leachate collection layer and a 2-foot operations layer for the first 20-feet above base.

Chiquita Canyon Landfill, *Valencia, CA*. Principal in Charge. Provides technical oversight and budget control for the geotechnical observation and material testing and construction quality assurance services for the project. The project consisted of grading an approximately 100 foot high cut slope and over-excavation of the building area to support a new 8.5 MW landfill gas fueled power plant at the Chiquita Canyon Landfill in Valencia, CA. The landfill gas to energy facility includes two Solar Mercury 50 Turbine generators, associated gas handling and conditioning equipment and necessary electrical equipment.

Airports

Big Bear Airport Improvements, *Big Bear, CA*. Principal-in-Charge. Provided technical oversight and budget control for the geotechnical observation and materials testing. The site is located at the Big Bear Airport in Big Bear, California. The project consisted of the demolition and repair to concrete areas at the Big Bear Airport in various locations.

Bob Hope International Airport, *Burbank, CA.* Principal-in-Charge**.** Provided technical oversight and budget control for the geotechnical observation and materials testing. The site is located at the Bob Hope International Airport in Burbank, California. The project consisted of the repair of concrete at various locations near Hangar 35.

Bob Hope Airport, UIS Tower Sustainment – RTR Site, *Burbank, CA.* Principal in Charge. Provided technical oversight and budget control for the design phase of the project. The project consisted of design and construction of three new towers as part of UIS Tower Sustainment Program at Bob Hope International Airport RTR Site.

Riverside Municipal Airport Hangars, *Indio, CA.* Principal-in-Charge**.** Provided technical oversight and budget control for the geotechnical investigation and geotechnical observation and materials testing. The 20-acre parcel is located west to the existing taxiway at the Riverside Municipal Airport, which is on the northeast corner of the Arlington and Van Buren Avenue intersection. The project consisted of construction of 165 hangers and a Fixed Base Operator (FBO) building. A detention basin was planned along the south end of the property.

Riverside Municipal Airport Access Road, *Indio, CA.* Principal-in-Charge**.** Provided technical oversight and budget control for the geotechnical investigation. The project consisted of construction of approximately 1,250 linear feet of access road within the Riverside Municipal Airport.

LAX Runways 24L & 24R, *Los Angeles, CA.* Principal-in-Charge. Provided technical oversight and budget control for the geotechnical observation and materials testing. The project included two northern runways at LAX (runways 24R & 24L) and the inter-runway area between 24R and 24L.

Taxiways and Runways, Los Alamitos Army Airfield, *Los Alamitos, CA.* Principal in Charge. Provided technical oversight and budget control for various geotechnical investigations for the

project. The project consisted of the California Army National Guard and the Air National Guard planning to complete the geotechnical study for the improvement of Los Alamitos Army Airfield. The existing site is the Army Airfield located in the City of Los Alamitos, California. The runway, taxiway, apron, and overrun will be evaluated and improved, if needed.

Santa Barbara Airport Improvements, *Santa Barbara, CA*. Principal in Charge. Provided technical oversight and budget control for various geotechnical investigation for the project. The project site is located adjacent to the west end of Runway 07 at Santa Barbara Airport and consisted of the following proposed improvements to the air traffic control system at three locations: addition of four new light towers to the Approach Light System (MALSR) at the west end of Runway 07; relocation of the existing shelter for the MALSR support equipment to an area approximately 675 feet south of the end of the runway; a new glide slope antenna and equipment shelter located approximately 400 feet northerly of the end of the runway; new access roads to connect three of the MALSR tower sites to Los Carneros Road and the MALSR equipment shelter to existing access roads within the airport.

Nut Tree Airport Hangars, *Vacaville, CA* Principal in Charge. Provided technical oversight and budget control for various geotechnical investigation for the project. The project consisted of planned construction of two rows of hangar buildings. Each row of hangars is approximately 324 linear feet long and 52 linear feet wide. Other improvements included a 3,000 square foot concrete slab-on-grade wash rack and asphaltic concrete paving. The hangar buildings are single story pre-engineered metal buildings with concrete slab-on-grade floors to be used for small airplane storage.

Creech Air Force Base Office and Training Building, *Indian Springs, NV.* Provided technical oversight and budget control for various geotechnical investigation for the project. The purpose of this soil and foundation investigation was to evaluate the site's general subsurface conditions and develop geotechnical recommendations for the design and construction of the project's foundations, floor slabs, exterior flatwork, pavements, retaining walls, and earthwork at the Creech Air Force Base.