

UltraSystems
environmental • management • planning



Statement of Qualifications Environmental Consulting Services For Park Projects

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COMPANY QUALIFICATIONS

UltraSystems Environmental Inc. (UltraSystems) is a full-service, interdisciplinary environmental and engineering consulting firm located at 16431 Scientific Way in Irvine, California. Founded in 1994, UltraSystems is headquartered in Irvine, and maintains offices in El Centro and Grass Valley, California.

CORE BUSINESS IS ENVIRONMENTAL CONSULTING AND COMPLIANCE SERVICES

UltraSystems was established as a consulting practice to assist private industry and governmental agencies navigate environmental regulations. The firm specializes in the National Environmental Policy Act (NEPA), California Environmental Quality Act (CEQA), Clean Air Act (CAA), Clean Water Act (CWA), Coastal Zone Management Act (CZMA), Endangered Species Act (ESA), California Endangered Species Act (CESA), Migratory Bird Treaty Act (MBTA), National Historic Preservation Act (NHPA), Archaeological Resource Protection Act (ARPA), and the Native American Graves Protection and Repatriation Act (NAGPRA), among others.

Our Mission: To ensure that our clients meet their goals by adding value through technical excellence, efficient organization and personal services.

Planning Services <ul style="list-style-type: none"> ✓ Zoning and Special Purpose Legislation ✓ Opportunities and Constraints Analysis ✓ Urban Land Use Studies ✓ Graphics/Visual Impacts and Studies ✓ Conditional Use Permit Drafting CEQA/NEPA Compliance <ul style="list-style-type: none"> ✓ EIR and EIS Documentation ✓ Mitigation Monitoring ✓ Citizen Participation ✓ Permits and Entitlements ✓ Regulatory Compliance ✓ Environmental Compliance 	Mitigation Monitoring <ul style="list-style-type: none"> ✓ Biological Resources ✓ Cultural Resources ✓ Hazardous Materials Construction Environmental Management <ul style="list-style-type: none"> ✓ Stormwater Pollution Prevention Planning ✓ Hazardous Building Materials ✓ Grading/Trenching Monitoring Hazardous Waste <ul style="list-style-type: none"> ✓ Phase I, Phase II ESAs ✓ Remedial Action Plans ✓ Brownfields 	Technical Studies <ul style="list-style-type: none"> ✓ Aesthetics ✓ Air Quality ✓ Archaeological Resources ✓ Biological Resources ✓ FAA/ALUC ✓ Geotechnical/Geologic/Soils ✓ Greenhouse Gas Studies ✓ Health Risk Assessments ✓ Hydrology ✓ Infrastructure Analysis ✓ Paleontological Resources ✓ Mineral Resources Studies ✓ Noise Evaluations & Analysis ✓ Socioeconomics ✓ Utility Studies ✓ Water Pollution Evaluation
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OUR PROJECT TEAM

UltraSystems employs a diverse, multidisciplinary team of talented and experienced engineers, urban and regional planners, scientists, archaeologists, biologists, ecologists, geologists, hydrologists, economists, GIS specialists, architects, and support staff to achieve our corporate mission.

UltraSystems has a long and successful history of providing environmental consulting and compliance services to both public and private sector clients in the western United States. The firm's reputation as a problem-solver comes from our commitment to pragmatism, technical excellence and meticulous communication in servicing our clients. UltraSystems is committed to successful project management, time management and project delivery in every project that we undertake. Our firm conducts a substantial amount of work in California, including the preparation and review of CEQA/NEPA compliant documents and supporting technical studies (e.g., air quality and GHG, biological, cultural, land use, socioeconomic, hydrology, water supply and aesthetics). Significant projects have included the preparation of Environmental Impact Reports (EIRs), Environmental Impact Statements (EISs), as well as Mitigated Negative Declarations (MNDs) for lesser projects. Additionally, we have processed and delivered the necessary entitlements and project permits so that project development is not impeded.

UltraSystems believes that it is our responsibility as the environmental consultant to develop a legally-defensible environmental document, and to communicate our technical knowledge in a clear and concise manner to ensure readability for the client. UltraSystems is committed to providing well-structured documents that will serve our clients for years to come.

UltraSystems has provided environmental consulting services, regulatory permitting and environmental compliance services to various large-scale public agencies within Southern California. All of these agencies have contracts with UltraSystems that are task-order based. These clients include:

1. City, County, Port of San Diego
2. City of Riverside, Parks and Recreation
3. Cities of Anaheim, Irvine, Covina, Pomona, Riverside, and Chino Hills
4. City of Los Angeles, Department of Planning
5. County of Orange Public Works
6. County of Los Angeles, Department of Regional Planning
7. County of San Bernardino
8. County of Kern
9. Los Angeles County, Department of Public Works
10. METRO
11. Nevada Department of Transportation (NDOT)
12. NAVFAC Southwest Division, San Diego
13. Office of Statewide Health, Planning and Development
14. School Districts: Irvine, Long Beach, Los Angeles, Los Alamitos, and Alhambra
15. Water Replenishment District (WRD)
16. US Army Corp of Engineers (Los Angeles District)

FIRM STABILITY AND STRENGTH | CREDIBILITY | MORE THAN 28 YEARS IN BUSINESS

UltraSystems has been providing consulting services to public and private sector clients throughout California since the founding of the firm in 1994. During those 28 years, the firm has prepared over **7,000** environmental reports, engineering studies or technical studies for clients. UltraSystems continues to specialize in providing comprehensive services, emphasizing quality and client-oriented service.

UltraSystems' team of working professionals offers the highest level of experience, knowledge and commitment in providing environmental and engineering services. Our purpose is to manage each project we undertake efficiently, with respect to the project's work scope, budget and schedule; ultimately producing and delivering a **quality** work product for that project.

BUSINESS CERTIFICATIONS

UltraSystems is certified with various federal, state and local agencies. Currently, the firm holds certification as a federal Disadvantaged Business Enterprise (**DBE**), Small Business Enterprise (**SBE**), Woman-owned Business Enterprise (**WBE**) and federal Woman-owned Small Business (**WOSB**). We also maintain certification through the Supplier Clearinghouse (or CPUC) for utility clients.

MEETING CLIENT EXPECTATIONS

UltraSystems has a long history of providing technological innovation and creative approaches to solving challenging issues for clients. Public agencies and private businesses in California have relied on UltraSystems to keep them in compliance with federal, state and local environmental laws, regulations, and guidelines since 1994. The majority of our work stems from repeat customers who trust us to deliver scientific objectivity, environmental expertise and legally-defensible technical documents, required to meet stringent agency regulations.

UltraSystems' CEQA/NEPA documents have never been challenged in a court of law. This is a direct result of our proven expertise interpreting and advising our clients on complex environmental legislation and regulations. Additionally, our respected working relationships with regulatory agencies are advantageous for our clients to swiftly obtain required permits and project approvals.

HANDS-ON EXPERTISE WITH REGULATORY AGENCIES

UltraSystems staff regularly interacts with federal, state, regional and local regulatory agencies, both as part of our environmental analyses under CEQA/NEPA, and in securing permits for our clients. We keep up to date on the requirements of the U.S. Fish and Wildlife Service (USFWS), U.S. Bureau of Land Management (BLM), the California Department of Fish and Wildlife (CDFW), the U.S. Army Corps of Engineers (USACE), the California Coastal Commission (CCC), California Department of Transportation (Caltrans), the California Environmental Protection Agency (Cal/EPA), Department of Toxic Substances Control (DTSC), State Water Resources Control Board (SWRCB), Regional Water Quality Control Boards (RWQCBs), South Coast Air Quality Management District (SCAQMD), California Air Resources Board (ARB), Imperial County Air Pollution Control District, the California Integrated Waste Management Board (CIWMB) and various other agencies to ensure that our regulatory knowledge is current. UltraSystems has also been responsible for compliance documents, management plans and associated permits. Our firm has also conducted interagency coordination at varying levels of detail and complexity on behalf of clients.

UNDERSTANDING OF LOCAL LAWS

Staff who would be assigned to your projects would be familiar with the county, resource agencies and environmental issues of the surrounding area. Additionally, our staff is experienced in surveying,

identifying and mapping native and invasive species and critical habitats throughout Southern California. Key members who would play a major role on your project have developed a vast understanding of California ecosystems garnered from years of experience working on projects and residing in California. Additionally, all of UltraSystems team members have project and/or research experience in California, and have considerable experience working with the sensitive species and habitats of the state. These successful professionals and their associated experience provide a project team very capable of responding to any task request, and are seasoned enough to handle changing situations that your project may encounter during its construction.

COMPANY CAPABILITIES - OVERVIEW



TECHNICAL DISCIPLINES

UltraSystems' **Air Quality** experts have prepared hundreds of air quality management plans and performed onsite compliance monitoring for major construction projects. They have prepared air quality analyses for multiple industrial, transportation, infrastructure, commercial and residential development projects. UltraSystems provides baseline assessments of existing conditions; estimates construction and operational emissions; and prepares health risk assessments. UltraSystems' staff are experts in using emissions models such as CalEEMod, EMFAC2011 and CT-EMFAC; and dispersion models such as ISCST3, AERMOD, EDMS and ALOHA. We develop successful mitigation strategies, offering fresh and creative solutions, and have negotiated agency approvals to expedite projects. UltraSystems also helps clients comply with air quality regulations through obtaining permits to construct and operate, preparing annual emissions reports and quadrennial air toxics emission inventories, and responding to notices of violation.



Our experts support CEQA documentation by preparing stand-alone technical studies and report sections. They conduct ambient **Noise Monitoring** to establish background exposures. By using its extensive library of construction equipment noise data, UltraSystems calculates noise exposures during construction and recommends mitigation measures to satisfy local criteria. UltraSystems models traffic noise with the Federal Highway Administration's model, TNM 3.1. We also use the program for preliminary design of soundwalls. Train noise is another one of UltraSystems' specialties. We have in-house software to conduct train noise analyses per Federal Transit Administration (FTA) guidelines.

UltraSystems' Air Quality experts also have the knowledge and experience to assist clients in meeting the **Greenhouse Gas Emission** reductions required by AB 32, the Global Warming Solutions Act of 2006. We have performed inventories for the U.S. Environmental Protection Agency, the California Air Resources board, the South Coast Air Quality Management District, the Ports of Los Angeles and Long Beach, and numerous industrial firms and residential and commercial developers. UltraSystems can estimate GHG emissions for specific projects, and for a client's day-to-day operations. Project-related emissions include those from offroad construction equipment, transportation of building materials and construction waste, including short- and long-term traffic generated by a project. GHG emissions from day-to-day operations include: direct emission from water and space heating; onsite electrical generation and co-generation; from use of fossil fuel-powered landscaping equipment and other combustion processes; from use of company motor vehicles; and from fugitive sources (such as refrigerant leaks). Indirect emissions normally include those associated with purchased electricity, but can also include such uses as employee business travel, waste disposal and subcontracted services. A GHG analysis can sometimes include the carbon footprint of building materials, appliances and other supplies purchased from others.



In the field of **Biology**, our biologists provide a wide array of services, including field surveys, vegetation mapping, habitat evaluations, threatened and endangered species surveys, jurisdictional delineations, and permitting. We maintain valuable ongoing relationships with the reviewing agencies for large construction projects, including the California Department of Fish and Wildlife, the U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, U.S. Bureau of Land Management, and U.S. Forest Service.

UltraSystems biologists are experienced in major field work in Southern California, using small to large teams of field crews. They offer a broad array of knowledge and are thoroughly familiar with California flora and fauna as well as special-status species' natural history and conservation issues. Biological staff field experience includes reconnaissance-level to focused-level biological field surveys of onsite resources; habitat assessments and plant community mapping; riparian/riverine/vernal pool and fairy shrimp habitat assessments; general botanical and wildlife surveys; protocol surveys that focus on individual plant or wildlife species and conform to agency survey protocols for those species; breeding bird surveys; California Rapid Assessment Method (CRAM) analyses; jurisdictional wetland delineations; wildlife movement evaluations; habitat restoration and site qualitative/quantitative monitoring; preconstruction clearance surveys; and construction biological and permit compliance monitoring. UltraSystems biologists hold federal and state permits, and are qualified to conduct protocol surveys for a wide range of sensitive species.



Our **Cultural Resources** staff are recognized as qualified historians, archaeologists and paleontologists by the federal government, state agencies and all local jurisdictions to which applications have been made. We have experience in all facets of cultural resources projects, including surveys, site testing and evaluation, Native American consultation, historic site recordation and research, mitigation programs,

construction monitoring, cultural evaluations of geophysical data, evaluations for National Register eligibility, and paleontological studies.

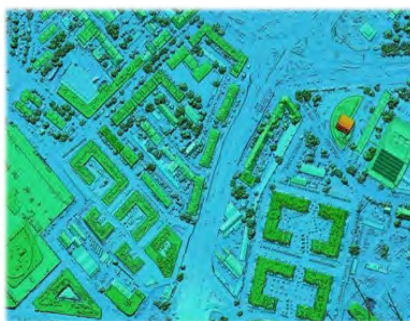
Additionally, UltraSystems employs a highly-qualified team of professionals who provide cultural resource compliance services to assist our clients in adhering to environmental and historic preservation laws, including NHPA, CEQA, NEPA, and NAGPRA for public and private projects in California, Arizona and Nevada. Our team includes professionals with advanced degrees in Archaeology, Anthropology, History and Paleontology, as well as Licensed Historic Architects and Registered Professional Archaeologists (RPAs). Members of our team meet the U.S. Secretary of the Interior's (SOI) Professional Qualification Standards for History, Archaeology, Architectural History and Historic Architecture (36 CFR 61), as well as various county, municipal and state standards and requirements necessary to conduct cultural resources studies. As a result of the quality of their work, our staff has established strong relationships with representatives of key reviewing agencies, such as the State Historic Preservation Office (SHPO).

In the fields of **Geology** and **Seismicity**, our experts have a successful track record of obtaining approvals from the Division of Safety of Dams and the California Department of Water Resources, and have experience in researching and interpreting local seismic ordinances, incorporating existing background information contained in reports, memorandums of understanding (MOU) and other publicly-held documents from cities, counties and regional agencies, and combining this information to craft legally-defensible environmental documents and technical studies.

UltraSystems provides consulting services relating to the identification of **Hazardous Materials**, including Phase I Environmental Due-Diligence, Phase II Site Characterization Studies, and Phase III Remediation Plans. Some of these assessments are included as part of the CEQA process, and many are performed for ongoing businesses or property ownership transfers.

UltraSystems develops general construction **Stormwater Pollution Prevention Plans** (SWPPP) to assist clients in complying with Section 402 of the Federal Clean Water Act NPDES regulations. Every construction site that disturbs one acre or more, or is less than one acre but part of a larger common plan that would disturb one acre or more, must comply with the State of California's General Permit for Stormwater Discharges Associated with Construction Activities. The SWPPP must outline the Best Management Practices (BMP) planned for use on the site to prevent pollutants from leaving the project site. The submission of a SWPPP is required prior to the issuance of an Improvement Plan, Grading Permit or Encroachment Permit.

UltraSystems' **Geographic Information Systems** (GIS) staff is critical to our success, interpreting



and presenting complex information in visually-appealing presentations. UltraSystems utilizes spatial analysis and mapping techniques to record significant features of a project study area, such as biological resources, land use coverage, topography and hydrology, geology and artifact densities. Our GIS capabilities enable us to locate, record, analyze and present significant amounts of project data and perform sophisticated modeling and spatial analysis to guide decision-making in site development. High quality cartographic materials and well-defined analyses are standard products for our GIS services. Accurate and clear

mapping, visual simulations, shade/shadow analyses, and photography are essential components of our presentation of environmental analyses and planning projects.

The UltraSystems **Planning** group has recognized experts in the fields of federal and state environmental laws (NEPA/CEQA), planning and zoning laws, social sciences, environmental justice and demographic analysis. Our staff has managed the environmental review for general plan updates and amendments, specific plans and zone changes. We also work with clients to conduct pre-project constraints analysis, feasibility studies and land use compatibility analysis. Our planning group is well versed in coordinating with affected state, federal and local agencies, and we have developed successful working relationships with a number of responsible agencies in Southern California.

KEY PERSONNEL

Betsy A. Lindsay, MURP – President/CEO

Ms. Lindsay is the founder of UltraSystems Environmental. She has led the firm's growth by focusing on quality and a service-driven approach for its clients. Ms. Lindsay brings over **35 years** of experience managing or providing principal oversight of environmental documents for various types of projects. Her primary responsibilities in-house include business and project management, contract administration, resource allocation and quality control. She also manages all corporate endeavors and assists with the QA/QC process of many environmental documents. Ms. Lindsay has managed and prepared more than 400 environmental documents, and provided entitlement obligations for large-scale public and private infrastructure projects.

Hina Gupta, MURP, LEED AP B+C – Senior Project Manager

Ms. Gupta is an urban planner with over **14 years** of experience in environmental planning and regulatory permitting for a variety of projects including infrastructure, transportation, renewable energy, commercial, residential, mixed use and master planned development, and educational facilities. Her areas of expertise include: Sustainable Land use, Aesthetics and Visual Analysis, Socioeconomics and Community Impact Assessment, and Green Building Design. Ms. Gupta is a LEED Accredited Professional and has experience working with public agency staff at various city and county departments within southern California.

Michael Milroy, MS – Project Manager

Mr. Milroy is a planner with over **16 years** of experience in community and environmental planning. Mr. Milroy is trained in a variety of project types including residential, commercial, industrial, mixed-use, and specific plan projects. Mr. Milroy's expertise includes California Environmental Quality Act (CEQA) document preparation, project management, and review of supporting technical studies; including, but not limited to, Environmental Impact Reports (EIRs), Initial Studies, Mitigated Negative Declarations, and federally funded National Environmental Policy Act (NEPA) documents.

Michael Lindsay, BS – Operations Director

In this role, Mike Lindsay will be responsible for the QA-QC program for this contract. Mr. Lindsay has over **26 years** of relevant experience providing these services. As part of the delivery process,

he will participate in key brainstorming and trouble-shooting meetings, and provide ongoing consultation to the project team. The core concept of UltraSystems' QA/QC plan is that independent peer review will also be conducted for all reports, work products and deliverables prior to their submittal to the City. Our goals are to ensure: (1) a high level of accuracy of the evidence that supports our findings; (2) quality of work products; (3) comparability; and (4) completeness of the work product so that the pre-defined goals of each project are met. Mr. Lindsay will ensure that all UltraSystems procedures are adhered to prior to any submittals being delivered to the City. Mr. Lindsay also provides technical assistance to Dr. Rogozen for air quality, GHG and noise studies, when needed.

Michael Rogozen D.ENV – Senior Principal Engineer

Dr. Rogozen heads UltraSystems' air and noise practice. He has over **46 years** of experience in project management, health risk assessment, air and industrial wastewater permitting in California, greenhouse gas emission inventories and carbon footprint studies, ambient air and noise monitoring, dispersion modeling, pollution control technology assessment, economic analysis of air pollution control alternatives, air toxics emission inventory development, offsite consequence analysis, environmental database design, survey design and management, source test design and analysis, subsurface methane investigations, regulatory analysis, and technical writing and editing. Dr. Rogozen is responsible for consulting, technical project management and business development. He has assisted industrial and governmental clients in complying with federal and local air quality regulations. His work has included managing air compliance audits, preparing applications for permits to construct and operate (including Title V permits), annual emissions reports and responses to notices to comply and notices of violation. He has also conducted many health risk assessments under AB2588, Proposition 65, and SCAQMD Rule 1401. Dr. Rogozen serves as a quality assurance officer for UltraSystems' technical documents and proposals.

Billye J. Breckenridge, MA, ENV SP – Project Manager

Ms. Breckenridge is a Senior Environmental Professional with over **23 years** of comprehensive and diverse experience in environmental consulting. She specializes in regulatory permitting and compliance, CEQA/NEPA document management, preparation, and process, project management, public involvement, jurisdictional and biological resources, and business development. She has managed large NEPA and CEQA projects, 404 permitting projects, and multi-disciplinary teams of technical staff and subconsultants. She is proficient at identifying project permitting needs and negotiating and working with federal, state, and local resource agencies to obtain permits and approvals. She has coordinated and led large biological field surveys and analysis for federal and state protected species, and jurisdictional determinations/ wetlands delineations. She has directed and prepared numerous environmental analysis reports and permitting packages required pursuant CEQA, NEPA, Clean Water Act, Threatened and Endangered Species Act, MSHCPs, and others. She has planned, participated in, and conducted public scoping and other public meetings required under NEPA and CEQA, 404 permitting, and transmission line routing. Her extensive project experience consists of public and private projects including residential/commercial development, transportation, renewable energy/power plants, flood control, gas pipeline, transmission lines, mining, large utility/water lines, wastewater treatment, schools, and ports. She has managed groups of up to ten environmental and planning professionals. As a project manager and group manager, her responsibilities included staff hiring, training, and mentoring; business development and client

relations; contract negotiations and project acquisition; project planning, scheduling, and budgeting; supervision of staff and work production; and financial management to ensure backlog and profitability. Her extensive project experience consists of public and private projects including residential/commercial development, transportation, renewable energy, flood control, pipelines (gas and water), power transmission lines, mining, wastewater treatment, and schools.

Michelle Tollett, BA, ISA – Senior Biologist

Ms. Tollett has over **21 years** of experience as a field and consulting biologist working with private companies and public agencies throughout California and the Rocky Mountains. She is the chief Sr. Biologist and Project Manager at UltraSystems Environmental in Irvine, California. Her responsibilities include managing the Biological Resources Team; supervising and mentoring staff biologists; delegating work assignments; approving timesheets, expense reports, and overtime requests; overseeing projects from start to finish or managing aspects of projects, managing budgets and project schedules; interacting with client and resource agency representatives; coordinating biological studies and assisting in managing biologists on project sites; coordinating with resource agencies and clients to develop mitigation site design; coordinating with landscape design and maintenance contractors on mitigation sites; preparing and conducting environmental awareness training.

Stephen O'Neil, MA, RPA – Archaeologist/ Anthropologist – Cultural Resource Manager

Mr. O'Neil is a Cultural Resource Manager with over **43 years** of experience. Mr. O'Neil's responsibilities include management of cultural resources tasks for multiple projects, writing and QA/QC of technical documents, coordinating field surveys and construction monitoring, and leading field efforts for historic and prehistoric site excavations and analysis. Mr. O'Neil has a broad scope of environmental consulting responsibilities and experiences ranging from general project management and technical writing to prehistoric site excavation and construction monitoring. He has worked on projects with clients in both the public and private sectors—including alternative energy, energy transmission, U.S. Forest Service, parks, public works and water resources. He has authored and coauthored numerous technical reports and conducted surveys and monitoring in compliance with NEPA, CEQA, and other federal, state, regional and local laws and regulations. Mr. O'Neil is an active member in the field of cultural resources—he is a board member of the Pacific Coast Archaeological Society and the Orange County Natural History Museum Foundation. He is also a member of the Society for California Archaeology.

Allison Carver, BS, BA – Senior Biologist, Regulatory Specialist

Ms. Carver has over **21 years** of experience as a field and consulting biologist working with private companies and public agencies in California. Her project experience includes working on general and challenging high-profile hydroelectric, solar energy, wind energy, tunnel, transmission line, and construction, improvement, maintenance, housing, and restoration projects in California. She specializes in jurisdictional determination of waters of the U.S. and State, including regulatory framework and permitting; and project impact analyses for projects ranging in size from small school upgrade projects to major infrastructure projects. As a Senior Biologist for UltraSystems, she has conducted jurisdictional delineations and authored jurisdictional delineation reports, prepared Preconstruction Notifications required by Section 404 Clean Water Act, Water Quality Certification

applications required by Section 401 Clean Water Act, and Lake or Streambed Alteration Notifications as required by Section 1602 of the California Fish & Game Code. She has also authored biology, hydrology and water quality, geology and soils, and Hazardous Materials impact analyses for a variety of technical documents, including CEQA and NEPA environmental documents. Ms. Carver has also analyzed project impacts and authored technical and environmental documents required by California state agencies such as Caltrans, the California Energy Commission, and the California Public Utilities Commission.

Matthew Sutton, MS – Habitat Restoration Biologist

Mr. Sutton specializes in habitat restoration management projects for various clientele, including municipal, private, and non-profit sectors. He has worked in the ecological restoration field for over **15 years**. He is currently a Staff Biologist at UltraSystems Environmental in Irvine, California. He oversees all phases of habitat restoration implementation including site preparation, plant and seed augmentation, weed abatement, maintenance, monitoring, report-writing and all other deliverables necessary to satisfy the client's success criteria. During the restoration project he supervises and trains contractors and restoration workers to ensure a high standard of performance. During both the planning and monitoring phases, he conducts field investigation and analysis of field data such as biological surveys, vegetation monitoring and rare plant surveys. Mr. Sutton directs the various phases of habitat restoration so that all elements including regulatory compliance, costs, deadlines and worker safety meet the project's contractual obligations. He manages the scope, schedule and budget of projects.

Stephen Chesterman, BEng – Principal GIS Consultant

Mr. Chesterman has over **31 years** of international experience in United States of America (CA, FL, LA, OH, OK, PA, TX), United Kingdom, Northern Ireland, Thailand, Hong Kong and Oman. His extensive GIS experience includes Management of large city-wide data conversions (Raster and Vector) including the development of procedures, design and administration of GIS systems including server, desktop and database along with GIS software design and application development at the personal desktop through to the enterprise level. He has used GIS throughout his career and from a firm foundation of hands-on use has often pioneered and developed company usage in a wide variety of applications. He has provided guidance in the use of GIS and GPS within large cities/utilities and the integration of GIS and GPS data. He was a member of the ESRI Water/Wastewater group as a representative of MWH as part of the ESRI Business Partner program, and has attended ESRI training courses and conferences. His Information Technology (IT) experience includes management and development of IT Master Plans, software application development including technical specification writing and coding, development of Geographical Information Systems (GIS) and analysis and development of database systems. His experience in wastewater and storm water collection and treatment includes hydraulic modeling (expert), Asset Management Plans (AMP), design, preparation of contracts and bills of quantities, contract management, construction supervision, temporary traffic management, rehabilitation and Design/Build through Build Own Operate Transfer (BOOT) and Private Finance Initiative (PFI) schemes.

Gulben Kaplan, MS, BS – GIS Analyst

Ms. Kaplan possesses in-depth education, training, and practicum to GIS Analysis techniques and tools with a Master's degree in Geographic Information Science in addition to several years of practical internship and over **5 years** of GIS analyst experience. She excels at continuously improving GIS processes, applications, and systems leveraging cutting-edge technologies. She is adept at cartographic design and map-making in printed and electronic formats, evaluation of hydrologic/soil/geologic/ecologic conditions, data interpretation, and topographic/demographic planning.

Swarna Kumaresan, BEng – Environmental Engineer

Ms. Kumaresan has over **15 years** of diversified experience in project management, construction management, energy management, solar engineering, environmental engineering, design and cost analysis, municipality permitting and regulatory compliance. She has worked on obtaining municipal permits for renewable projects and on preparing environmental compliance audit reports. Additionally, Ms. Kumaresan has experience preparing proposals and conducting soil, water and waste sampling. She is proficient in engineering calculations and has the ability to evaluate designs, plans and projects. Ms. Kumaresan has performed energy audits for commercial buildings and worked in all phases for construction for roads, as well, commercial and residential buildings.

Megan Black Doukakis, MA – Archaeological Technician

Mrs. Doukakis has over **11 years** of experience as an archaeologist in California. She has a M.A. in Public Archaeology from California State University, Northridge. She has conducted pedestrian archaeological survey, test and full-scale excavations, archaeological monitoring, laboratory curation of archaeological materials to comply with state and federal historic preservation laws in Southern California and abroad. Megan has gleaned experience on City, County, and Federal projects throughout southern and central California, including Central Valley, Orange, Los Angeles, San Diego, Riverside, Imperial, Inyo, Kern, Kings, Santa Clara, and Merced counties, including projects on BLM land, FCC projects, road projects, wheelchair access, cultural field surveys, and solar energy projects. Mrs. Doukakis has authored a number of Phase I, II, and III, ISMND, ICRMP, FCC form, EIR documents and project proposals. She has extensive experience with the California Historical Resources Information System as well as conducting paleontology record searches and the Native American Heritage Commission in conducting record searches and consulting with Native American groups. Mrs. Doukakis is proficient at project management and project scheduling for large and small scale projects.

Steven Borjeson, BA – Senior Planner

Mr. Borjeson is an Associate/Senior level planner focused on enhancing and developing the social contract of the municipality. With over **8 years** of experience, Mr. Borjeson drafts Staff Reports and Conditions of Approval, reviews EIRs, Initial Studies, Environmental Surveys, and related documentation for CEQA compliance. Mr. Borjeson presents development proposals at public hearings from neighborhood charrettes for Conceptual Plans and presents Planned Development Permits before Planning Commissions and City Councils. Mr. Borjeson possesses detailed knowledge of environmental laws, density bonuses, and the Subdivision Lands Act and is an active member of

the American Planning Association (APA) and Association of Environmental Professionals (AEP). Preparing for the American Institute of Certified Planners (AICP) Certification exam in 2022.

Victor Paitimusa, BA – Assistant Project Manager

Mr. Paitimusa is an Assistant Project Manager for the UltraSystems Environmental and has over **3 years** of experience in the environmental planning field. Mr. Paitimusa's responsibilities are to prepare CEQA/NEPA documents, to prepare noise and aesthetic technical documents and to help create graphics for documents. He has worked on a wide array of projects that include commercial shopping centers, transportation facilities, industrial warehouses, schools, residential developments and sporting facilities.

Bob Reicher, MBA – Project Manager/Consulting Economist

Mr. Reicher is a Project Manager with over **40 years** of experience. Mr. Reicher has been active in the real estate industry since 1970, holding positions with major developers and builders. Mr. Reicher has acted as Senior Project Manager on large scale, multidisciplinary environmental documentation assignments for public and private sector clients in such fields as transportation, public safety and land development. He has served as an advisor and consultant to many prominent builders, developers, major corporations, lenders, and government agencies throughout the nation. Prior to his position with UltraSystems and his serving as an independent consultant with his own firm, Mr. Reicher has been a Principal with Market Profiles and with Economics Research Associates. He has also directed the regional real estate consulting practice of Deloitte, a Big Four management consulting and accounting firm, and also served as Director of Market Research and Land Acquisition for a major national multi-market residential builder and developer. He is a member of Urban Land Institute.

Robert Verlaan, MA, MSW – Consulting Senior Project Manager

Mr. Verlaan is a highly experienced and versatile urban and environmental planning consulting professional with over **44 years** of experience and a verifiable track record of successfully achieving the goals and objectives of each assignment while employing methods reflecting the highest standards of professional care. He holds two advanced degrees from accredited major CA universities, one in the humanities and the second in Environmental Planning. Mr. Verlaan was accorded the status of qualified expert witness as a CEQA Practitioner by the Superior Court of the State of California in 1988. This has given him opportunities to develop extensive independent third-party review consultation and peer-review experience in association with various public agencies, private sector development interests, citizen stakeholders, and the legal community. Mr. Verlaan can point to the successful hands-on management, preparation and processing of CEQA, NEPA and TEPA (Tribal) compliance documents for more than 500 projects varying greatly in type, scale, complexity, public sensitivity, environmental setting and geographic location. This broad experience has encompassed his preparation of CEQA compliance documents for more than 40 jurisdictions and districts within the State of California and NEPA compliance documents for numerous federal agencies.

REPRESENTATIVE PROJECT EXPERIENCE

PARK PROJECTS

TUSTIN CITRUS RANCH PARK – PALEONTOLOGICAL AND ARCHAEOLOGICAL MONITORING

Client: City of Tustin c/o Willdan Engineering



UltraSystems provided cultural resource monitoring services needed for the construction of one of Tustin's newest attractions, 17-acre Citrus Park. Cultural resources monitoring was necessary, as three prehistoric sites are located within a half-mile radius of the park. The archaeological literature stated that artifacts had been discovered on these sites in the past. Construction of the park required excavating and moving large amounts of soil. During all phases of park construction, an UltraSystems archaeologist monitored and photographed the work for the presence of artifacts. At the end of monitoring a negative-findings report was prepared for the client.

RICHARD T. STEED MEMORIAL PARK/ BARON VON WILLARD DOG PARK – MASTER PLAN UPDATE

Client: City of San Clemente – Beaches, Parks and Recreation Department



The existing park is located along the eastern boundary of the City, and with the Rancho San Clemente Specific Plan (Open Space (OS) area. The project site is proximate to the Pacific Golf Club, the entire community of Talega, San Onofre State Beach Park and light industrial /office properties. The park is close to the U.S. Marine Corps Base at Camp Pendleton, which is located .5 miles to the east.

The existing park site consists of approximately 44 acres, including undeveloped park property of approximately 13 acres.

The current park was developed in six phases encompassing approximately 31 acres, and included lighted softball fields, batting cages, food concession and related facilities, a skateboard park with concession building, sand volleyball courts and a children's play area, restroom buildings, a parking lot and a private easement and several SDGE utility easements.

The original IS/MND discussed a variety of environmental topical issues, including hydrology and water quality, air quality, noise, and soils and geology. Information that is still relevant that can be utilized from the prior certified IS/MND will be used by the UltraSystems project team.

Proposed changes to the park as part of the Master Plan Update would include additional parking, an expanded skateboard park, restroom facilities, pump track facilities, volleyball courts, pickleball courts, an active meadow/multipurpose field, scenic overlook and trellis, outdoor flex classroom/event space, foul ball netting surrounding baseball fields, baseball score board, and stair connection to future parking lot.

LA PATA PARK – MITIGATED NEGATIVE DECLARATION

Client: City of San Clemente



UltraSystems completed aesthetics, air quality, noise, and traffic technical studies, Initial Study, Mitigated Negative Declaration (MND), and all required public noticing using an accelerated schedule so that the City of San Clemente could obtain Proposition 40 grant funding for 54-acre park near the intersection of Avenida La Pata and Avenida Vista Hermosa in San Clemente. The recreational facility included an aquatics complex, lighted sports facilities, 14,000 square-foot gymnasium, 20,000 square foot community center, playgrounds, picnicking facilities, and restrooms. Two areas (2.1 and 2.5 acres) were set aside for future use and special-event facilities. The CEQA process was completed by UltraSystems on time and within budget.

MAX LENAIL MEMORIAL BRIDGE OVER THE SAN DIEGO RIVER CROSSING TRAIL, IS/MND

Client: KPFF



UltraSystems was hired by KPFF to prepare an Initial Study/Mitigated Negative Declaration (IS/MND) and associated studies for the Max Lenail Memorial Bridge project. The City of San Diego (City) is the Lead Agency under the California Environmental Quality Act (CEQA). The Max Lenail Memorial Bridge Project (project) includes construction of a new pedestrian and bicycle bridge over San Diego River Crossing Trail in the City. The project site is located within the Mission Trails Regional Park (MTRP) and classified as “privately funded” through the MTRP Foundation. The Park is administered by a Joint Powers Authority, with the City of San Diego as key stakeholder. The City will grant the private sponsors a “right-of-entry” for construction of the proposed bridge.

The bridge will include a metal pedestrian truss bridge with stone-and-concrete abutments. It will be at least 80 feet in length and at least 6 feet in width. As proposed, the new bridge structure would not interfere with the existing vehicular crossing (useable when the river is dry) or the ad-hoc crossing popular with hikers, runners, mountain-bikers, and photographers along the old “sewer pipe”, which is located about 50-60 feet downstream from the vehicular crossing. The new bridge may incorporate wood elements, including a wood deck and side panels and would be designed to withstand major storms and floods.

The project site is surrounded by natural parkland on all sides. MTRP Visitor Center is located in close proximity to the southeast side of the project site. UltraSystems will prepare the appropriate environmental documentation (IS/MND) in accordance with CEQA as well as the associated technical studies, including Biological Resources Evaluation and Wetland Delineation Studies. The portion of the San Diego River in the proposed project area is a soft-bottomed river and has the potential to

support sensitive or special-status plants and wildlife. The river is also a wildlife corridor which provides unrestricted movement for smaller wildlife species to freely travel between hunting and foraging locations.

WESTERN SECTOR IMPROVEMENT AREA PROJECT – ADDENDUM TO THE OCGP PEIR

Client: City of Irvine



The City of Irvine intends to develop the Western Sector Area of the Orange County Great Park (OCGP) Plan. The proposed improvement plan for the Western Sector Area would facilitate the development of sports facilities and related infrastructure uses on approximately 32.9 acres of land located in the western portion of the OCGP Plan area. Major portions of the proposed project site are located across the street from the site of the Great Park Ice and FivePoint Arena Facility. A portion of the proposed project site is located along Ridge Valley.

The OCGP Plan accounts for development of 272 acres as sports park under the Base Plan and 165 acres as sports park under the Overlay Plan. Given this, the proposed project includes an improvement plan for the Western Sector Area of the OCGP including a plan for development of sports facilities in this area. The proposed concept plan indicates development of 32.9 acres with a Water Polo Facility, a Field

House Site, a multilevel parking structure and grading and preparation of a portion of land for future use. All existing structures, facilities and infrastructure on the project site would be demolished for the development of the proposed project.

UltraSystems is assisting the City of Irvine with the preparation of an Addendum to the OCGP Program Environmental Impact Report (PEIR) for the development of the Western Sector Area Improvement project. Our scope of work includes collection of baseline data for all environmental resource areas and preparation of an Addendum comparing impacts of the proposed project with the impacts identified in the OCGP PEIR. The addendum would also identify new information and project specific impacts, if any, and mitigation measures included in OCGP PEIR that are applicable to the proposed project.

HOLMES ELEMENTARY JOINT USE FIELD PROJECT – CEQA INITIAL STUDY AND NOTICE OF EXEMPTION

Client: San Diego Unified School District



The San Diego Unified School District (District) has requested that California Environmental Quality Act (CEQA) documents be prepared to address a Joint Use Field Project located at Holmes Elementary School in the Clairemont community within the City of San Diego, California. The Project includes the following components:

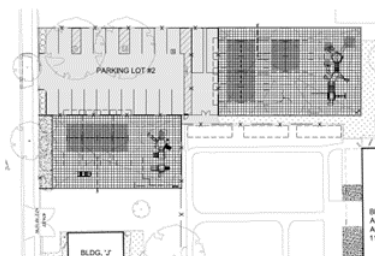
- Installation of a natural turf playfield (3.8 acres) on the existing decomposed granite field to the east of the campus. The field will be located on the existing decomposed granite field to the north of the campus.
- Installation of a stabilized decomposed granite walking track around the exterior of the joint use area.
- Fencing to separate the JUF site from the school campus; installation of a drinking fountain.
- Public access from existing Right-of-Way (ROW) and future potential joint use parking area.

An Initial Study/Mitigated Negative Declaration (IS/MND) was prepared by UltraSystems for the San Diego Unified School District (District) to assess whether significant environmental impacts may be associated with the construction and operation of joint use field (JUF) improvements located on existing playground areas of Holmes Elementary School in the City of San Diego. Pursuant to the provisions of California Environmental Quality Act (CEQA) and based on the responses to the IS checklist questions contained in this IS, UltraSystems prepared and IS/MND for the project.

UltraSystems prepared an analysis that covered the requirements for a state-funded addition to an existing school site, as outlined in the California Department of Education (CDE) School Site Selection and Approval Guide. UltraSystems also conducted a detailed analysis regarding potential project impacts regarding air quality, biological resources, cultural resources, greenhouse gases and noise. No major issues arose for the project as it was determined that the proposed project would have a less than significant impact after implementation of mitigation measures.

LOS ALAMITOS AND LEE PLAYGROUNDS – CATEGORICAL EXEMPTIONS

Client: Los Alamitos Unified School District



The playground modernization was proposed for playgrounds at the Lee Elementary school site and the Los Alamitos Elementary school site. The Los Alamitos Unified School District proposes the following at each school:

The District proposes the modernization and improvement of two existing playgrounds and the addition of a 20-space parking lot located within the Lee Elementary School campus. The playgrounds and parking lot would be located, adjacent to each other, on the southern portion of the school campus with the parking lot entrance being located on Silverwood

Drive. The proposed project would remove and replace existing play equipment, a swing set, sand, turf, asphalt, and perimeter curb with a parking lot, new play structure, swing set, play equipment, buddy bench, rubberized fall mat, perimeter concrete curb, and subsurface drainage to a dry-well.

The proposed improvements would install better play structures, with newer features and flooring to help modernize and improve the existing playground and would provide more parking for faculty and staff of Lee Elementary School.

The District proposes the modernization and improvement of an existing playground located within the Los Alamitos elementary school campus. The playground is located on the eastern part of the Los Alamitos Elementary School campus. The proposed project would remove and replace existing play equipment and turf with a new play structure, swing set, play equipment, buddy bench, rubberized fall mat, perimeter concrete curb, and subsurface drainage to a dry-well. The proposed improvements would install better play structures and flooring and help to modernize and improve the existing playground.

OC BIKE LOOP SEGMENTS O, P AND Q – IS/MND

Client: GHD



Orange County is processing a request to implement a series of discretionary actions that would allow for the development of a 2.7-mile Class I Bikeway component of a larger 66-mile regional bikeway corridor called the OC Loop. The proposed project would consist of a paved 2.7-mile Class I Bikeway component of the larger OC Loop. This section of the OC Loop would be broken into three segments, OC Loop Segments O, P, and Q. OC Loop Segment O would be 1.1 miles long and extends from Coyote Creek North Fork to Artesia Boulevard. OC Loop Segment P would be 0.6 miles long and extends from Artesia Boulevard to Knott Avenue. OC Loop Segment Q would be 1 mile long and extends from Knott Avenue to Malvern Avenue. OC Loop Segments O, P, and Q will become part of the Coyote Creek Bikeway.

UltraSystems prepared CEQA and NEPA documentation for the project, including an Initial Study/Mitigated Negative Declaration (IS/MND) which will examine all elements and potential environmental impacts, in accordance with the California Environmental Quality Act (CEQA), regarding the development of a regional bikeway corridor, as follows: OC Loop Segments O, P, and Q (proposed project) would be constructed beginning at the existing Coyote Creek Bikeway (in the cities of Cerritos and La Palma) where the flood channel divides into north and east forks and would traverse 2.7 miles, connecting to another portion of the Coyote Creek Bikeway at La Mirada Boulevard/Malvern Avenue in the cities of Buena Park and La Mirada. The County of Orange, OC Public Works is the Lead Agency for CEQA, and Caltrans will be the lead agency for NEPA; therefore, all technical studies prepared were to Caltrans Standard Environmental Reference (SER) requirements. UltraSystems staff worked with County of Orange staff to draft a public review version of the IS/MND. The IS/MND was circulated for a 32-day public review period from November 13, 2020 to December 15, 2020. As a result of separate permit consultations with USACE, UPRR and BNSF Railroad, limited project change alternatives were proposed after the initial IS/MND was circulated for public review. County of Orange staff decided that additional analysis was warranted for four specific crossing locations, resulting in preparation of a Recirculated IS/MND, in accordance with State CEQA Guidelines § 15073.5. The IS/MND was re-

circulated for public review for a 32-day review period from August 13, 2021 to September 13, 2021. UltraSystems coordinated with the County to update and re-circulate the IS/MND for the project under CEQA. Additionally, UltraSystems staff coordinated with staff at the County and Caltrans to update the NEPA documentation for the project. UltraSystems worked with subconsultants and the County to prepare documentation for Caltrans in order to obtain NEPA revalidation for the project. The project went to the County of Orange for approval in late October 2021, where the environmental documentation was certified by the County.

UltraSystems' role has been to facilitate project compliance with the various regulatory permit terms and conditions set forth by Caltrans. This includes working with Caltrans and County staff to hold meetings about the project and to coordinate regarding updates to NEPA documentation as a result of project changes. Problems encountered during this project included project updates from County staff to meet demands of the railroad agencies involved in the project. As a result of separate permit consultations with USACE, UPRR and BNSF Railroad, the CEQA document needed to be re-circulated and the NEPA document needed to be re-assessed. The project required close coordination with the County of Orange staff, Caltrans staff and subconsultants to revise and update project documents under a tight funding deadline, which UltraSystems was able to meet due to continuous direct communication and coordination with multiple parties.

OCOTILLO WELLS STATE VEHICULAR RECREATION AREA (SVRA) DUST CONTROL PLAN

Client: Tetra Tech, Inc. and subsidiaries



The Ocotillo Wells State Vehicular Recreation Area (SVRA) is the largest SVRA operated by the California Department of Parks and Recreation (DPR) and is very popular with visitors in the cooler months of the year, usually late October to mid-April. Historically, the SVRA has attracted up to 1.3 million annual visitors, primarily on weekends and holidays. Recent trends indicate about 600,000 annual visitors. The main uses of the park are open riding and camping. The SVRA also hosts special events, such as rides or drives, celebrity rider promotional events, church events, weddings, filmmaking, military training, corporate vehicle testing, geocaching, and charity "treasure" hunts. Imperial County Air Pollution Control District (ICAPCD) Rule 800 requires a dust control plan (DCP) for operations

capable of generating fugitive dust (PM-10) from anthropogenic (man-made) sources. Thus, the DPR was required to prepare a DCP.

UltraSystems, as a subcontractor to Tetra Tech, Inc., was responsible for preparing the DCP. As required by Rule 800, the plan contains inventories of paved and unpaved roads, open areas and restricted use areas in the SVRA. It also identifies roads and areas that have priority for emission controls, and specifies control measures. The plan was approved by the ICAPCD and is currently under review by the California Air Resources Board and the U.S. Environmental Protection Agency.

LA MIRADA HIGH SCHOOL BASEBALL, SOFTBALL, PRACTICE FIELDS PROJECT – INITIAL STUDY/ MITIGATED NEGATIVE DECLARATION

Client: Norwalk-La Mirada Unified School District



UltraSystems prepared the environmental analysis for the proposed improvements to La Mirada High School: a new baseball field, a new baseball practice field, new football/soccer field, two new softball fields, new blacktop for basketball and volley ball courts, and new tennis courts. UltraSystems was hired to prepare the IS/MND for this project.

STONEVIEW NATURE CENTER – INITIAL STUDY AND MITIGATED NEGATIVE DECLARATION

Client: County of Los Angeles



Los Angeles County Department of Public Works (LACDPW) proposed to demolish existing on-site school structures, and construct a new 4,000-square-foot one-story nature center with parking spaces and connection to a nature trail within a residential neighborhood in Culver City. The project site is within an Alquist-Priolo Earthquake Fault Zone and adjoins the Inglewood Oil Field. UltraSystems completed (1) a phase I environmental site assessment to assess potential impacts from high pressure pipelines and on-site hazardous materials, (2) air quality, greenhouse gas emissions, and noise technical studies, and (3) a traffic impact analysis using a subcontractor. Based on

the findings, UltraSystems prepared a comprehensive Initial Study and Mitigated Negative Declaration (IS/MND) to comply with the California Environmental Quality Act (CEQA), and propose mitigation measures to reduce potentially significant impacts (1) from active faults, abandoned oil wells, and high-pressure gasoline pipelines, (2) to air quality, biological resources and cultural resources during construction, and (3) from challenging traffic impacts during construction and operation within the residential neighborhood. Each potentially significant impact was reduced to a less than significant level by adopting the proposed mitigation measures. UltraSystems presented the IS/MND findings and proposed Mitigation and Monitoring Program (MMRP) at a neighborhood meeting, and successfully addressed community comments and concerns. The IS/MND and MMRP were approved by LACDPW.



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