
Final Environmental Impact Report

**Alamo Creek and Ulatis Creek
Detention Basins Project**

**Volume 2 of 2: Final EIR including Text Revisions
Described in Response to Comments**

State Clearinghouse No. 2010022023



**City of Vacaville
650 Merchant Street
Vacaville, CA 95688
(707) 449-5170**

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Lead Agency:



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LIST OF ABBREVIATED TERMS

| | |
|---------------------|--|
| A-40 | agricultural 40-acre minimum |
| AAQS | ambient air quality standards |
| ADT | average daily trips |
| AFB | Air Force Base |
| Alamo Site | Alamo Creek Detention Basin site |
| APE | area of potential effects |
| APN | assessor's parcel number |
| asl | above sea level |
| AST | aboveground storage tank |
| ATV | all-terrain vehicle |
| AWE | Area West Environmental, Inc. |
| BAAQMD | Bay Area Air Quality Management District |
| Basin Plan | Water Quality Control Plan for the Central Valley-Sacramento and San Joaquin River Basins – Region 5 |
| BMPs | best management practices |
| CAAQS | California ambient air quality standards |
| CAL FIRE | California Department of Forestry and Fire Protection |
| CalFish | California Cooperative Anadromous Fish and Habitat Data Program |
| California Register | California Register of Historic Resources |
| Caltrans | California Department of Transportation |
| CAPCOA | California Air Pollution Control Officers Association |
| CARB | California Air Resources Board |
| CCAA | California Clean Air Act |
| CCC | California Conservation Corps |
| CCR | California Code of Regulations |
| CEQA | California Environmental Quality Act |
| CERCLA | Comprehensive Environmental Response, Compensation and Liability Act |
| CESA | California Endangered Species Act |
| CFR | Code of Federal Regulations |
| CH ₄ | methane |
| CHHSL | California human health screening level |
| City | City of Vacaville |
| CLPPB | Childhood Lead Poisoning Prevention Branch |
| CNDDB | California Natural Diversity Database |

| | |
|-------------------------|---|
| CNEL | Community Noise Equivalent Level |
| CNPS | California Native Plant Society |
| CO | carbon monoxide |
| CO ₂ | carbon dioxide |
| CO _{2e} | CO ₂ equivalents |
| COC | chemicals of concern |
| Commission | Native American Heritage Commission |
| Corps | U.S. Army Corps of Engineers |
| County | Solano County |
| CTR | California Toxics Rule |
| CUPA | Certified Unified Program Agency |
| CVRWQCB | Central Valley Regional Water Quality Control Board |
| CWA | Clean Water Act |
| dB | decibels |
| dBA | A-weighted decibels |
| DDT | dichlorodiphenyltrichloroethane |
| Delta | Sacramento-San Joaquin Delta |
| DFG | California Department of Fish and Game |
| DOT | U.S. Department of Transportation |
| DPH | Department of Public Health |
| DPM | diesel-exhaust particulate matter |
| DPS | distinct population segment |
| Drainage Study | Ulatis System Drainage Study |
| DRRP | Diesel Risk Reduction Plan |
| DSOD | Department of Water Resources, Division of Safety of Dams |
| DTSC | California Department of Toxic Substance Control |
| DWR | California Department of Water Resources |
| EIR | Environmental Impact Report |
| Environmental Checklist | Initial Study Environmental Checklist |
| EPA | U.S. Environmental Protection Agency |
| ESA | Federal Endangered Species Act |
| ESU | evolutionary significant unit |
| FCAA | Federal Clean Air Act |
| FEIR | Final Environmental Impact Report |
| FEMA | Federal Emergency Management Agency |
| FFPA | Federal Farmland Protection Act |
| FIP | Federal Implementation Plan |
| FIRMs | flood insurance rate maps |

| | |
|------------------|--|
| FIRST | Family Investigation Response Service Team |
| FMMP | Farmland Mapping and Monitoring Program |
| FPD | Fire Protection Districts |
| FPP | Farmland Protection Program |
| FR | Federal Register |
| FTA | Federal Transit Administration |
| g/ghp-hr. | gram of particulate matter per brake horsepower-hour |
| GHG | greenhouse gas |
| GWP | global warming potential |
| H&SC | California Health and Safety Code |
| HAPS | hazardous air pollutants |
| HCP | habitat conservation plan |
| HMBP | Hazardous Material Building Plan |
| HMTA | Hazardous Materials Transportation Act |
| HUD | Housing and Urban Development |
| HWCL | California Hazardous Waste Control Law |
| Hz | hertz |
| I- | interstate |
| in/sec | inch per second |
| ISO | Insurance Service Office |
| LAFCO | local agency formation commission |
| LBP | lead based paint |
| lbs | pounds |
| L _{dn} | day-night noise level |
| L _{eq} | energy equivalent noise level |
| L _{max} | maximum noise level |
| L _{min} | minimum noise level |
| LOS | Levels of Service (4-9-1) |
| MBTA | Migratory Bird Treaty Act |
| MCL | maximum contaminant level |
| MEI | maximally exposed individual |
| MLD | most likely descendent |
| MMT | million metric tons |
| MOA | Memoranda of Agreement |
| MOU | Memorandum of Understanding |
| MMRP | Mitigation, Monitoring, and Reporting Plan |
| MS4s | municipal separate storm sewer systems |
| msl | mean sea level |

| | |
|-------------------|--|
| MT | metric ton |
| N ₂ O | nitrous oxide |
| NAAQS | National Ambient Air Quality Standards |
| NAHC | Native American Heritage Commission |
| National Register | National Register of Historic Places |
| NEPA | National Environmental Policy Act |
| NESHAPs | National Emission Standards for HAPS |
| NFIP | National Flood Insurance Program |
| NHPA | National Historic Preservation Act |
| NMFS | National Oceanic and Atmospheric Association National Marine Fisheries Service National Marine Fisheries Service |
| NO ₂ | nitrogen dioxide |
| NOP | Notice of Preparation |
| NO _x | nitrogen oxides |
| NPDES | National Pollutant Discharge Elimination System |
| NRCS | Natural Resources Conservation Service |
| NRHP | National Register of Historic Places |
| NTR | National Toxics Rule |
| NWIC | Northwest Information Center |
| O ₃ | ozone |
| OEHHA | Office of Environmental Health Hazard Assessment |
| OHWM | ordinary high-water mark |
| OPR | Office of Planning and Research |
| OSHA | Occupation Safety and Health Act |
| PFPBs | potential fish passage barriers |
| PG&E | Pacific Gas & Electric Company |
| PM | particulate matter |
| Police Department | Vacaville Police Department |
| ppb | parts per billion |
| ppm | parts per million |
| ppv | peak particle velocity |
| PRC | Public Resources Code |
| Proposed Project | Alamo Creek and Ulatis Creek Detention Basins Project |
| RCD | Solano Resource Conservation District |
| RCRA | Resource Conservation and Recovery Act |
| ROG | reactive organic gases |
| RP | responsible party |

| | |
|------------------|---|
| RWQCB | Regional Water Quality Control Board |
| SARA | Superfund Amendments and Reauthorization Act |
| SCAQMD | South Coast Air Quality Management District |
| SCFCWCD | Solano County Flood Control and Water Conservation District |
| SCWA | Solano County Water Agency |
| Sheriff's Office | Solano County Sheriff's Office |
| SID | Solano Irrigation District |
| SIP | State Implementation Plan |
| SJVAPCD | San Joaquin Valley Air Pollution Control District |
| SMAQMD | Sacramento Metropolitan Air Quality Management District |
| SO ₂ | sulfur dioxide |
| SOC | Statement of Overriding Considerations |
| SQG | small quantity generators |
| SR | State Route |
| SRA | shaded riverine aquatic |
| SRCD | Solano Resource Conservation District |
| SVAB | Sacramento Valley Air Basin |
| SWAT | Special Weapons and Tactics |
| SWPPP | stormwater pollution prevention plan |
| SWRCB | State Water Resources Control Board |
| TACs | toxic air contaminants |
| TDS | total dissolved solids |
| TMDL | total maximum daily load |
| TQs | threshold quantities |
| Ulati site | Ulati Creek Detention Basin site |
| USC | U.S. Code |
| USDA | U.S. Department of Agriculture |
| USDS | Ulati System Drainage Study |
| USFWS | U.S. Fish and Wildlife Service |
| USGS | U.S. Geological Survey |
| VOC | volatile organic compound |
| YSAQMD | Yolo/Solano Air Quality Management District |