Environmental Assessment/
Final Environmental Impact Report

Highway 101
From Old Redwood Highway to Rohnert Park Expressway
04-Son-101-KP 12.1/22.4
(PM 7.5/13.9)
04-0A1800

Prepared by the
State of California Department of Transportation
and the Sonoma County Transportation Authority

The environmental review, consultation, and any other action required in accordance with applicable Federal laws for this project is being, or has been, carried out by Caltrans under its assumption of responsibility pursuant to 23 U.S.C. 327.

August 2007
Widen Highway 101 from four to six lanes, between the Old Redwood Highway Interchange at KP 12.1 (postmile 7.5) and the Rohnert Park Expressway Interchange at KP 22.4 (postmile 13.9)

ENVIRONMENTAL ASSESSMENT/FINAL ENVIRONMENTAL IMPACT REPORT

Submitted Pursuant to: (State), Division 13, California Resources Code (Federal) 42 USC 4332(2)(c)

THE STATE OF CALIFORNIA
Department of Transportation

8-30-07
Date of Approval

BIJAN SARTIPI
Caltrans District Director
CALIFORNIA DEPARTMENT OF TRANSPORTATION
FINDING OF NO SIGNIFICANT IMPACT

Highway 101 HOV Lane Widening and Improvements Project: Old Redwood Highway to Rohnert Park Expressway

FOR

The California Department of Transportation (Caltrans) and the Sonoma County Transportation Authority (SCTA) has determined that the Build Alternative will have no significant impact on the environment. This FONSI is based on the attached EA which has been independently evaluated by Caltrans and determined to adequately and accurately discuss the need, environmental issues, and impacts of the proposed project and appropriate mitigation measures. It provides sufficient evidence and analysis for determining that an EIS is not required. Caltrans takes full responsibility for the accuracy, scope, and content of the attached EA (and other documents as appropriate).

The environmental review, consultation, and any other action required in accordance with applicable Federal laws for this project is being, or has been, carried out by Caltrans under its assumption of responsibility pursuant to 23 U.S.C. 327.

Date

8-30-07

BIJAN SARTIPI
Caltrans District Director
GENERAL INFORMATION ABOUT THIS DOCUMENT

In 2006, a Draft Environmental Assessment / Environmental Impact Report (Draft EA/EIR) was approved and circulated to the public for review and comments for a project to improve Highway 101 in Sonoma County between Old Redwood Highway in Petaluma and the Rohnert Park Expressway in Rohnert Park. The Draft EA/EIR was circulated for public and agency comments in August and September 2006 and a public hearing was held in Cotati on August 22, 2006. A 45-day comment period for the Draft EA/EIR ended on September 22, 2006. Since then, the California State Department of Transportation (Caltrans) and the Sonoma County Transportation Authority (SCTA) have continued to refine and resolve project design issues as well as work with the United States Fish and Wildlife Service (USFWS) to complete the formal Section 7 consultation process.

This Environmental Assessment / Final Environmental Impact Report (EA/FEIR) examines the environmental impacts of the alternatives being considered for the proposed project located in Sonoma County. The document describes why the project is being proposed, alternatives for the project, the existing environment that could be affected by the project, the project’s anticipated impacts, and the proposed avoidance, minimization, and/or mitigation measures.

In the process of developing mitigation for project impacts as well as preparing the final environmental document, a through review of the draft environmental document, the technical studies, the environmental checklist, and the summary of impacts and mitigation measures resulted in revisions to reflect consistency regarding level of impacts and appropriate mitigation.

This Environmental Assessment/Final Environmental Impact Report (EA/FEIR) represents the final decision document for this project and is supported by the previously circulated Draft EA/EIR. Where appropriate, changes have been made to the Draft EA/EIR to reflect minor editorial revisions to improve “readability,” and other changes as appropriate to comply with current environmental document requirements related to the formal assignment of NEPA responsibilities from the Federal Highway Administration (FHWA) to Caltrans. Major changes in the text or more substantive revisions are indicated by a vertical line in the margin or italicized text notes. Responses to comments submitted during the review and comment period for the Draft EA/EIR have also been added to the document.

It should be noted that at a future date FHWA or another federal agency may publish a notice in the Federal Register, pursuant to 23 USC §139(1), indicating that a final action has been taken on this project by FHWA or another federal agency. If such notice is published, a lawsuit or other legal claim will be barred unless it is filed within 180 days after the date of publication of the notice (or within such shorter time period as is specified in the Federal laws pursuant to which judicial review of the federal agency is allowed). If no notice is published, then the lawsuit or claim can be filed as long as the periods of time provided by other Federal laws that govern claims are met.
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Glossary of Technical & Abbreviated Terms

AADT  Annual Average Daily Traffic, represents an average 24-hour period of traffic on a facility in both directions averaged over one year, or the total of all traffic counted for one year, divided by 365 days.

ABAG  Association of Bay Area Governments

Ac  acres

ACCS/MV  Accidents per million vehicle miles

ACHP  President’s Advisory Council on Historic Preservation

ACM  asbestos-containing material

ADA  Americans with Disabilities Act of 1990

ADL  Aerially Deposited Lead

ADT  Average Daily Traffic, total traffic on a facility in both directions, for one 24-hour day, averaged over a given time period.

AHERA  Asbestos Hazardous Emergency Response Act

APE  Area of Potential Effects, the area within which archaeological or historical resources may be affected by a project.

ASR  Archaeological Survey Report

AST  above ground storage tank

ATS  Average Travel Speed

ATT  Average Travel Time

Auxiliary Lane  An auxiliary lane is a traffic lane dedicated to traffic entering and/or exiting the freeway, reducing interference with through traffic.

BAAB  Bay Area Air Basin

BAAQMD  Bay Area Air Quality Management District

BART  Bay Area Rapid Transit

Beneficial Use  Use of a natural water resource that enhances the social, economic, and environmental well-being of the user. Twenty-one beneficial uses are defined for the waters of California, ranging from municipal and domestic supply to fisheries and wildlife habitat.

BMP  Best Management Practices

CAA  Clean Air Act, as amended in 1990.

CAAQS  California Ambient Air Quality Standards

Cal OSHA  California Occupational Safety and Health Administration

Cal EPA  California Environmental Protection Agency

Caltrans  California Department of Transportation

CAP  Bay Area Clean Air Program

CARB  California Air Resources Board

CCAA  California Clean Air Act

CDFG  California Department of Fish and Game

CEQA  California Environmental Quality Act

CERCLIS  Comprehensive Environmental Response, Compensation and Liability Information System

CESA  California Endangered Species Act

CFR  Code of Federal Regulations

cfs  cubic feet per second

CGS  California Geological Survey

CHP  California Highway Patrol

cm  centimeter

CNDDB  California Natural Diversity Database
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNPS</td>
<td>California Native Plant Society</td>
</tr>
<tr>
<td>CO</td>
<td>Carbon monoxide</td>
</tr>
<tr>
<td>Cortese</td>
<td>Hazardous Waste and Substances Site List (or Cortese List) is named after State Assemblyman Dominic Cortese. PRC § 65962.5 requires Cal EPA to develop an updated Cortese list at least annually.</td>
</tr>
<tr>
<td>CPUC</td>
<td>California Public Utilities Commission</td>
</tr>
<tr>
<td>CRHR</td>
<td>California Register of Historic Resources</td>
</tr>
<tr>
<td>CRLF</td>
<td>California red-legged frog</td>
</tr>
<tr>
<td>CTS</td>
<td>California tiger salamander</td>
</tr>
<tr>
<td>CWA</td>
<td>Clean Water Act</td>
</tr>
<tr>
<td>dB</td>
<td>decibels, a measurement unit for noise.</td>
</tr>
<tr>
<td>dBA</td>
<td>A-weighted decibels, the measurement of noise that best represents human perception.</td>
</tr>
<tr>
<td>DEIR</td>
<td>Draft Environmental Impact Report</td>
</tr>
<tr>
<td>Department</td>
<td>California Department of Transportation or Caltrans</td>
</tr>
<tr>
<td>DI</td>
<td>Delay Index</td>
</tr>
<tr>
<td>DOT</td>
<td>U.S. Department of Transportation</td>
</tr>
<tr>
<td>DPS</td>
<td>distinct population segment</td>
</tr>
<tr>
<td>DTSC</td>
<td>California State Department of Toxic Substances Control</td>
</tr>
<tr>
<td>EA</td>
<td>Environmental Assessment</td>
</tr>
<tr>
<td>EIR</td>
<td>Environmental Impact Report</td>
</tr>
<tr>
<td>EIS</td>
<td>Environmental Impact Statement</td>
</tr>
<tr>
<td>EO</td>
<td>Executive Order</td>
</tr>
<tr>
<td>EPA</td>
<td>U.S. Environmental Protection Agency</td>
</tr>
<tr>
<td>ERNS</td>
<td>Emergency Response Notification System</td>
</tr>
<tr>
<td>ESA</td>
<td>Federal Endangered Species Act of 1973; alternatively, can refer to a designated Environmentally Sensitive Area.</td>
</tr>
<tr>
<td>ESU</td>
<td>evolutionarily significant units</td>
</tr>
<tr>
<td>FEMA</td>
<td>Federal Emergency Management Agency</td>
</tr>
<tr>
<td>FHWA</td>
<td>Federal Highway Administration</td>
</tr>
<tr>
<td>FINDS</td>
<td>Facility Index System</td>
</tr>
<tr>
<td>FIRM</td>
<td>Flood Insurance Rating Map</td>
</tr>
<tr>
<td>FIS</td>
<td>Flood Insurance Studies</td>
</tr>
<tr>
<td>FONSI</td>
<td>Finding of No Significant Impact</td>
</tr>
<tr>
<td>FRA</td>
<td>Federal Railroad Administration</td>
</tr>
<tr>
<td>ft</td>
<td>foot/feet</td>
</tr>
<tr>
<td>ft²</td>
<td>square feet</td>
</tr>
<tr>
<td>FTA</td>
<td>Federal Transit Administration</td>
</tr>
<tr>
<td>g</td>
<td>measurement unit of gravity</td>
</tr>
<tr>
<td>GARVEE</td>
<td>Grant Anticipation Revenue Vehicle</td>
</tr>
<tr>
<td>GGBHDT</td>
<td>Golden Gate Bridge Highway and Transportation District</td>
</tr>
<tr>
<td>GNRTR</td>
<td>RCRA registered small or large generators of hazardous waste</td>
</tr>
<tr>
<td>Guard Railing</td>
<td>A type of barrier, typically a metal beam supported on wood posts, used to protect objects along the side of the road, or when two guard railings are placed back-to-back in the median of a divided roadway, is used to prevent cross-median accidents.</td>
</tr>
<tr>
<td>Ha</td>
<td>Hectares</td>
</tr>
<tr>
<td>HCM</td>
<td>Highway Capacity Manual</td>
</tr>
<tr>
<td>HCP</td>
<td>Habitat Conservation Plan</td>
</tr>
<tr>
<td>HOV</td>
<td>High Occupancy Vehicle</td>
</tr>
<tr>
<td>HPSR</td>
<td>Historic Property Survey Report</td>
</tr>
<tr>
<td>Abbreviation</td>
<td>Full Form</td>
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<tr>
<td>--------------</td>
<td>-----------</td>
</tr>
<tr>
<td>HQE</td>
<td>Habitat Quality Evaluation</td>
</tr>
<tr>
<td>HRER</td>
<td>Historic Resource Evaluation Report</td>
</tr>
<tr>
<td>Hz</td>
<td>Hertz</td>
</tr>
<tr>
<td>I.L.</td>
<td>insertion level</td>
</tr>
<tr>
<td>in</td>
<td>inch</td>
</tr>
<tr>
<td>ISA</td>
<td>Initial Site Assessment, a review of all published data sources on hazardous waste sites and hazardous waste releases in the vicinity of a project.</td>
</tr>
<tr>
<td>Km</td>
<td>kilometer(s)</td>
</tr>
<tr>
<td>KP</td>
<td>kilometer post</td>
</tr>
<tr>
<td>Kph</td>
<td>kilometers per hour</td>
</tr>
<tr>
<td>kV</td>
<td>Kilovolt</td>
</tr>
<tr>
<td>LBP</td>
<td>lead-based paint</td>
</tr>
<tr>
<td>Lead Agency</td>
<td>Public agency that has primary responsibility for carrying out or approving a project that may have a significant effect on the environment and preparing the environmental document.</td>
</tr>
<tr>
<td>L_10(h)</td>
<td>A-weighted equivalent sound level</td>
</tr>
<tr>
<td>L_max</td>
<td>maximum sound level</td>
</tr>
<tr>
<td>LOS</td>
<td>Level of Service</td>
</tr>
<tr>
<td>LU</td>
<td>landscape unit</td>
</tr>
<tr>
<td>LUST</td>
<td>leaking underground storage tank</td>
</tr>
<tr>
<td>M</td>
<td>meter(s)</td>
</tr>
<tr>
<td>m²</td>
<td>square meters</td>
</tr>
<tr>
<td>m³/s</td>
<td>cubic meters per second</td>
</tr>
<tr>
<td>Maintenance Area</td>
<td>A federal term to describe any geographic region of the United States designated nonattainment pursuant to the CA and subsequently redesignated to attainment subject to the requirement to develop a maintenance plan under Section 175A of the CAA.</td>
</tr>
<tr>
<td>MBTA</td>
<td>Migratory Bird Treaty Act</td>
</tr>
<tr>
<td>MCE</td>
<td>maximum credible earthquake</td>
</tr>
<tr>
<td>mg/kg</td>
<td>milligrams/kilogram</td>
</tr>
<tr>
<td>mg/l</td>
<td>milligrams per liter</td>
</tr>
<tr>
<td>Mi</td>
<td>mile(s)</td>
</tr>
<tr>
<td>MIS</td>
<td>Major Investment Study, prepared during the early planning phase to analyze the range of modal alternatives and cost/benefits of “major metropolitan transportation investments,” which are defined as being highway or transit improvements of substantial cost that are expected to have a significant effect on capacity, traffic flow, level of service or mode share at the transportation corridor or subarea scale. TEA-21 eliminated the requirement for a separate MIS document, but the analysis still must be conducted.</td>
</tr>
<tr>
<td>M_max</td>
<td>moment magnitude</td>
</tr>
<tr>
<td>Mph</td>
<td>miles per hour</td>
</tr>
<tr>
<td>MPO</td>
<td>Metropolitan Planning Organization, a federal designation for the forum for cooperative transportation decision-making for an urbanized area with population of more than 50,000.</td>
</tr>
<tr>
<td>MTBE</td>
<td>methyl tertiary butyl ether</td>
</tr>
<tr>
<td>MTC</td>
<td>Metropolitan Transportation Commission of the Bay Area</td>
</tr>
<tr>
<td>MTP</td>
<td>Metropolitan Transportation Plan, the official intermodal transportation plan that is developed and adopted through the metropolitan transportation planning process for the metropolitan planning area.</td>
</tr>
<tr>
<td>NAAQS</td>
<td>National Ambient Air Quality Standards</td>
</tr>
<tr>
<td>NAC</td>
<td>Noise Abatement Criteria</td>
</tr>
<tr>
<td>Term</td>
<td>Definition</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>NAGPRA</td>
<td>Native American Graves Protection and Repatriation Act of 1990</td>
</tr>
<tr>
<td>NAHC</td>
<td>Native American Heritage Commission</td>
</tr>
<tr>
<td>NEPA</td>
<td>National Environmental Policy Act</td>
</tr>
<tr>
<td>NES/BA</td>
<td>Natural Environment Study/Biological Assessment</td>
</tr>
<tr>
<td>NFRAP</td>
<td>“No further remedial action planned”</td>
</tr>
<tr>
<td>NO</td>
<td>nitric oxide</td>
</tr>
<tr>
<td>NO₂</td>
<td>nitrogen dioxide</td>
</tr>
<tr>
<td>NOAA Fisheries</td>
<td>National Oceanic and Atmospheric Administration Fisheries Service</td>
</tr>
<tr>
<td>NO₃</td>
<td>nitrogen oxide</td>
</tr>
<tr>
<td>Nonattainment Area</td>
<td>Any geographic region of the United States that the EPA has designated as a nonattainment area for a transportation related pollutant(s) for which a NAAQS exists.</td>
</tr>
<tr>
<td>NOP</td>
<td>Notice of Preparation, the CEQA notice that an EIR will be prepared for a project.</td>
</tr>
<tr>
<td>NPDES</td>
<td>National Pollutant Discharge Elimination System Permit, required for facilities and activities that discharge waste into surface waters from a confined pipe or channel.</td>
</tr>
<tr>
<td>NPL</td>
<td>National Priorities List</td>
</tr>
<tr>
<td>NRCS</td>
<td>U.S. Department of Agriculture, Natural Resources Conservation Service</td>
</tr>
<tr>
<td>NRHP</td>
<td>National Register of Historic Places</td>
</tr>
<tr>
<td>NWIC</td>
<td>Historical Resources Information System, Northwest Information Center</td>
</tr>
<tr>
<td>O₃</td>
<td>Ozone</td>
</tr>
<tr>
<td>OHWM</td>
<td>Ordinary high water mark, a distinguishing characteristic of Other Waters of the U.S.</td>
</tr>
<tr>
<td>PDT</td>
<td>Project Development Team, a multidisciplinary advisory group assembled to review and provide direction on project development.</td>
</tr>
<tr>
<td>PG&amp;E</td>
<td>Pacific Gas and Electric Company</td>
</tr>
<tr>
<td>PM</td>
<td>post mile</td>
</tr>
<tr>
<td>PM₁₀</td>
<td>particulate matter less than 10 microns in diameter (one micron is equal to one millionth of a meter)</td>
</tr>
<tr>
<td>PM₂₅</td>
<td>particulate Matter less than 2.5 microns in diameter, considered to be fine particulate matter (one micron is equal to one-millionth of meter)</td>
</tr>
<tr>
<td>ppm</td>
<td>parts per million</td>
</tr>
<tr>
<td>PRC</td>
<td>California Public Resources Code</td>
</tr>
<tr>
<td>Profile</td>
<td>Used to describe the vertical alignment and elevation of the roadway surface along a designated line, typically, the center of the roadway or median.</td>
</tr>
<tr>
<td>PSR</td>
<td>Project Study Report, a California Department of Transportation document establishing consensus among state and local decision makers in the viability and appropriateness of a project. Initiates preliminary engineering and environmental review phase of project development.</td>
</tr>
<tr>
<td>PYE</td>
<td>person years of employment</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation and Recovery Act</td>
</tr>
<tr>
<td>RCRA Viol</td>
<td>RCRA Violation and Enforcement Actions</td>
</tr>
<tr>
<td>Responsible Agency</td>
<td>A “public agency, other than the lead agency that has responsibility for carrying out or approving a project” (PRC 21069). The CEQA Guidelines further explain the statutory definition by stating that a “responsible agency” includes “all public agencies other than the Lead Agency which have discretionary approval power over the project” (14 CCR 15381). State and local public agencies that have discretionary authority to issue permits, for example, fall into this category.</td>
</tr>
<tr>
<td>ROG</td>
<td>reactive organic gases</td>
</tr>
<tr>
<td>ROW</td>
<td>right-of-way</td>
</tr>
<tr>
<td>RTIP</td>
<td>Regional Transportation Improvement Plan or Program</td>
</tr>
<tr>
<td>RTP</td>
<td>Regional Transportation Plan</td>
</tr>
<tr>
<td>RWQCB</td>
<td>California Regional Water Quality Control Board</td>
</tr>
<tr>
<td>Abbreviation</td>
<td>Full Form</td>
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<tr>
<td>--------------</td>
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</tr>
<tr>
<td>SCAQMD</td>
<td>South Coast Air Quality Management District</td>
</tr>
<tr>
<td>SCL</td>
<td>State Equivalent CERCLIS sites</td>
</tr>
<tr>
<td>SCTA</td>
<td>Sonoma County Transportation Authority</td>
</tr>
<tr>
<td>Scoping</td>
<td>A process for determining the scope of issues to be addressed in an EA and EIS and for identifying significant issues to be analyzed in depth in an EIS.</td>
</tr>
<tr>
<td>SHPO</td>
<td>State Historic Preservation Officer</td>
</tr>
<tr>
<td>Significance</td>
<td>CEQA defines a &quot;significant effect on the environment&quot; as &quot;a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project, including land, air, water, minerals, flora, fauna, ambient noise, and objects of historic or aesthetic significance. An economic or social change by itself shall not be considered a significant effect on the environment. A social or economic change related to a physical change may be considered in determining whether the physical change is significant&quot; (15382).</td>
</tr>
<tr>
<td>CEQA</td>
<td>California Environmental Quality Act</td>
</tr>
<tr>
<td>SIP</td>
<td>State Implementation Plan, the portion (or portions) of an applicable implementation plan approved or promulgated, or the most recent revision thereof, under sections 110, 301(d) and 175A of CAA.</td>
</tr>
<tr>
<td>SMART</td>
<td>Sonoma-Marin Area Rail Transit</td>
</tr>
<tr>
<td>SMP</td>
<td>Soils Management Plan</td>
</tr>
<tr>
<td>SO₂</td>
<td>sulfur dioxide</td>
</tr>
<tr>
<td>Sole Source Aquifer</td>
<td>An aquifer upon which a community depends exclusively for its fresh water supply.</td>
</tr>
<tr>
<td>SOV</td>
<td>Single Occupant Vehicle</td>
</tr>
<tr>
<td>SOₓ</td>
<td>sulfur oxides</td>
</tr>
<tr>
<td>SPILLS</td>
<td>State Spills List</td>
</tr>
<tr>
<td>SR</td>
<td>State Route</td>
</tr>
<tr>
<td>SSU</td>
<td>Sonoma State University</td>
</tr>
<tr>
<td>STIP</td>
<td>Statewide Transportation Improvement Plan, a staged, multiyear, statewide, intermodal program of transportation projects that is consistent with the Statewide transportation plan and planning processes and metropolitan plans, TIPs and processes.</td>
</tr>
<tr>
<td>STP</td>
<td>Statewide Transportation Plan, the official statewide, intermodal transportation plan that is developed through the statewide transportation planning process.</td>
</tr>
<tr>
<td>SWDP</td>
<td>Stormwater Data Plan</td>
</tr>
<tr>
<td>SWLF</td>
<td>solid waste landfills</td>
</tr>
<tr>
<td>SWMP</td>
<td>Storm Water Management Plan</td>
</tr>
<tr>
<td>SWPPP</td>
<td>Stormwater Pollution Prevention Plan</td>
</tr>
<tr>
<td>SWRCB</td>
<td>California State Water Resources Control Board, the principal authority for regulating the quantity and quality of waters in the state, established by act of the California legislature in 1967.</td>
</tr>
<tr>
<td>TASAS</td>
<td>Traffic Accident Surveillance and Analysis System</td>
</tr>
<tr>
<td>TCLP</td>
<td>Toxicity Characteristic Leaching Procedure</td>
</tr>
<tr>
<td>Term</td>
<td>Definition</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>TCM</td>
<td>Transportation Control Measure, any measure specifically identified and committed to in the applicable implementation plan that is either one of the types listed in § 108 of the CAA, or any other measure for the purpose of reducing emissions or concentrations of air pollutants from transportation sources by reducing vehicle use or changing traffic flow or congestion conditions. Notwithstanding the above, vehicle technology-based, fuel-base, and maintenance-based measures that control the emissions from vehicles under fixed traffic conditions are not TCMs for the purposes of project-level conformity.</td>
</tr>
<tr>
<td>TDM</td>
<td>Transportation Demand Management</td>
</tr>
<tr>
<td>TEA-21</td>
<td>Transportation Equity Act for the 21st Century</td>
</tr>
<tr>
<td>TIP</td>
<td>Transportation Improvement Program, a staged, multi-year, intermodal program of transportation projects that is consistent with the metropolitan transportation plan. It is a federal term.</td>
</tr>
<tr>
<td>TMP</td>
<td>Transportation Management Plan, used to maintain and manage traffic and transportation in a project vicinity during construction.</td>
</tr>
<tr>
<td>TOXIC PITS</td>
<td>Toxic Pits cleanup facilities</td>
</tr>
<tr>
<td>Traffic Study Area</td>
<td>The area for which traffic conditions are reported in this document. It consists of Highway 101 from the Petaluma Boulevard South Interchange to the Rohnert Park Expressway Interchange, a distance of approximately 18.8 km (11.7 mi). It is depicted in Figure 3.1-3.</td>
</tr>
<tr>
<td>TRIS</td>
<td>Toxic Release Inventory Database</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act of 1976, federal law enacted to give EPA the ability to track industrial chemicals produced in or imported into the U.S.</td>
</tr>
<tr>
<td>TSD</td>
<td>Treatment storage and / or disposal facilities</td>
</tr>
<tr>
<td>TSM</td>
<td>Transportation Systems Management</td>
</tr>
<tr>
<td>TSO</td>
<td>Traffic Service Objective</td>
</tr>
<tr>
<td>UPRR</td>
<td>Union Pacific Railroad</td>
</tr>
<tr>
<td>USACE</td>
<td>U.S. Army Corps of Engineers</td>
</tr>
<tr>
<td>USEPA</td>
<td>U.S. Environmental Protection Agency</td>
</tr>
<tr>
<td>USFWS</td>
<td>U.S. Fish and Wildlife Service</td>
</tr>
<tr>
<td>USGS</td>
<td>U.S. Geological Survey</td>
</tr>
<tr>
<td>UST</td>
<td>Underground storage tank</td>
</tr>
<tr>
<td>V/C</td>
<td>volume-to-capacity ratio</td>
</tr>
<tr>
<td>VA</td>
<td>value analysis</td>
</tr>
<tr>
<td>vht</td>
<td>vehicle hours of travel</td>
</tr>
<tr>
<td>VKT</td>
<td>vehicle kilometers of travel</td>
</tr>
<tr>
<td>VMT</td>
<td>vehicle miles of travel</td>
</tr>
<tr>
<td>vpd</td>
<td>vehicles per day</td>
</tr>
<tr>
<td>WDR</td>
<td>Water Discharge Requirements</td>
</tr>
<tr>
<td>Wetland</td>
<td>Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions (USACE and EPA definition).</td>
</tr>
<tr>
<td>WH&amp;SP</td>
<td>Worker Health and Safety Plan</td>
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